SUBJECT INDEX
ISSUES 1 – 162

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

A&S Building Systems, Inc.: pre-engineered metal buildings, 17:34, 26:18
Abaris Training: advanced-composite workshops, 47:57, 52:67, 69:125; ultrasonic inspection/survey techniques, 35:42; vocational training program, 20:26
Abbass, D.K. (Kathy): on surveyor Paul Coble and development of his Marine Survey Seminars, 93:4
Abbey, Howard: profile of, 104:100; Wyn-Mill racer/Jim Wynne/Walt Walters, 132:36
ABBRA. See American Boat Builders and Repairers Association
Abeking & Rasmussen: Concordia yawl, 50:32; Michael Peters Yacht Design 44m motoryacht, 66:52; waterjet-powered fast motoryacht/Michael Peters Yacht Design, 126:38; Vamarie, steel ketch, 68:11
Abely Wheeler, aluminum constructed commuter boat, 91:20
Able Marine (Trenton Marine): fabric impregnator applications, 5:34; foam core installation, 9:36; 91’/93’ megayacht, 3:11, 10:42, 29:58; one-off tooling, 10:42; 3M protective tape, 29:58
Abma, Albert, author: “A Study in Slender,” 147:18
Abramson, Tim: on displaying hull identification numbers, 61:5 abrasive discs. See abrasives, diamond; grinders/polishers, discs for; sandpaper abrasive pads: Micro-Mesh, 12:60 abrasives, diamond: Mister Blister, 12:60; Tech-Lok diamond discs, 25:59
Abrasive Technology Inc.: Tech-Lok diamond discs, 25:59
ABS. See American Bureau of Shipping (ABS)
ABS Construct: parts generation software, 8:35
ABS plastic: ABS/acrylic coextrusions, 10:34, 11:20; ABS/Rovel coextrusions, 34:59; performance, 10:34. See also Royalex
ABYC. See American Boat and Yacht Council (ABYC); ABYC safety standards
ABYC safety standards: battery chargers, 61:128; bilge pumps, 44:26, 57:48; boat lifting and storage, 50:3, 50:38; booklet Standards and Recommended Practices and UL Marine Listing, 61:128; cabin heaters, 45:32; Canadian phase-in of

AC Products: 940-blue plastic film, 39:98


AC tester: pen-sized/Santronics, 34:59; troubleshooting wave-form output/Fluke Multimeter, 91:56

Accelerations and impacts: Vessel Motion Monitoring System, 155:10

accelerators/promoters: DMA (dimethylanilene), 6:16, 44:30; for polyester resin, 33:46, 35:4; for vinyl ester resins, 6:16, 33:46, 35:4, 42:62, 44:30. See also catalyst

accelerometer record: 68:32
accessories, marine. See components/ancillary
equipment/accessories

accidents, boat/marine: collisions/occupant protection, 34:13, 50:18; data study, 156:12; injuries/boat defects, 39:12, 50:18, 50:20, 50:25, 79:86; investigation seminar (SAMS/UL), 26:51; owners’ manuals/liability, 27:46; standardized warning labels (ABYC), 154:12. See also boating safety; lawsuits/litigation; product liability

accidents/injuries, workplace:

Acco Babcock Industries: rack-and-pinion steering system, 3:60

accommodations. See interiors, arrangements/decoration


Accustrip: baking-soda blasting equipment, 7:13

Acebo, Mike: Brewer Yacht Yard/hurricane salvage, 20:6


Ackland, Bob: on bottom prep/environmental compliance, 31:10, 31:16, 31:18

ACRC (Advanced Composite Riverine Craft), 146:24

acrylic adhesives: for bonding fastenings/hardware, 18:4, 67:5; for bonding thermoplastics, 41:44; Crestomer 1152 PA, 67:5; description/applications, 41:44, 67:5

acrylic hulls:
development/construction/performance, 10:34, 11:20

acrylic sealant: gelcoat restoration, 15:44

acrylic sheeting: Acrysteel M, 11:20; Altair Plus, 11:20
acrylic skincoat: blister prevention, 15:60
Active Noise and Vibration Technology: noise/vibration control, 5:48
Adams, E.J.D.: on deterioration of balsa cores, 57:7
Adams, Eric: on ethanol fuel/flexible bagtank/and professional engineer (p.e.) licensure, 111:4; on largest welded aluminum yacht/Dyna vs. Morag Mhor, 86:4
Adams Yachts: Adams 36/stealth lobsterboat, 51:96
additives, resin: for delayed gel time/SCRIMP, 44:30; and moisture meter readings, 60:48. See also accelerators/promoters; adhesion enhancers; catalyst; gel-time retarder; promoters; resin inhibitors; resin surfactants; resin thixotropes; styrene suppressants
Adey, John: on ABYC’s Electrical Standard, E-11, 121:9; on ABYC’s position on smoke detectors for boats, 91:10
adhesion enhancers: QP20, 42:5; for repairs/damaged laminates, 43:54
adhesives: for bedding contour-cut foams, 31:34, 33:4, 115:18; for bedding/deck repair/waterlogged foam, 37:48; classification/definition, 28:27; Click Bond, 147:6; for cold-molding, 51:36; for neoprene, 46:38; with PT industrial plywood, 27:42; vs. sealants, 60:104; for secondary bonding, 20:32, 42:5; Sealtack 750 universal adhesive, 126:8; two-part/VOC-free/Chemie Adhesives, 119:6; use for vs. self-tapping screws, 145:48, 147:6. See also acrylic adhesives; adhesives, structural; aircraft adhesives; bedding compounds/putties; core bonding; epoxy adhesives; fabric adhesives; methacrylate adhesive; neoprene adhesive; putties, bedding/bonding; resorcinol; secondary bonding; spray adhesives; urethane caulk; urea-formaldehyde adhesives adhesives, five-minute: Gougeon Brothers G/5, 27:60
adhesives, removal: Un-Hesive water soluble spray, 126:8
Adler, Michael: on marine refrigeration/R-12 phaseout, 26:8; on retrofitting ColdMachine, 31:4

Adler/Barbour-Crosby: ColdMachine, 26:8, 31:4; refrigerant phaseouts/conversions/retrofitting, 26:8, 31:4

Admeasurement/tonnage. See tonnage/admeasurement laws

Admiral Marine Works Inc.: carbon fiber components for Boeing, 51:11; computer lofting/outsourcing, 38:14; megayacht builder, 3:5, 59:10; motoryacht PlumDuff refit, 68:44; 154’ FRP yacht Roxana, 54:18; 161’ FRP yacht Evviva, 32:18, 32:21; profile/reorganization, 59:10

Adriance, Robert (Bob), Jr.: on bilge pump wiring/reversed polarity, 44:26

Adriance, Robert (Bob), Jr., author: “Mooring Design and Construction,” 30:8

Ad-Tech Plastic Systems Corp.: 800-series marine epoxy resins, 46:65

Advance Control Technologies: Electro-Sync synchronizers, 7:64

Advanced Cable Electronics Corp.: Strap-Loc cable ties, 6:52, 47:66

Advanced composites. See laminates, marine, advanced-composite

Advanced Composites Training Center: composite training program, 110:12

Advanced Composite Riverine Craft (ACRC), 146:24

Advanced Energy Services: Keystone marine battery, 35:58

Advanced Materials Inc. (AMI): Prestovac process/molding small parts, 32:28

Advanced Structures & Composites Center (University of Maine, Orono), 148:26; Marine Composites Testing in the Shop and the Lab seminar/IBEX 2008, 149:58

Advanced Textiles Inc.: heavyweight fiberglass reinforcements, 18:54, 31:68; Kevlar reinforcements, 28:18

Advance Process Technology: fabric impregnators, 5:34; 81:110

Advance USA: Advance Composite Process (ACP), 11:20; thermoplastic construction, 10:34, 11:20

Advertising: for boat shows, 36:60, 117:54; and editorial coverage/integrity, 18:2, 18:40, 39:112; in market downturn, 11:34, 117:54; mission statement, 31:80; product identity/trade dress, 43:13; product liability/truth in advertising, 9:2, 38:11, 38:12; strategy/customer data, 26:64, 117:54; working with an agency, 6:42, 117:54

Advertorial material and freelance writers, 156:4

Aerodynamics: hydroplane development, 56:40, 59:10; performance prediction/sailboats, 60:66; Wolfson Unit’s Power Prediction Program, 61:10

Aerodyne Industries Group (Cape Town, South Africa): 38’ racer/cruiser design, 65:11

Aerodyne 38 racer/cruiser: 65:11, 83:50

Aerodyne 43 racer/cruiser: New Wave Yachts collaboration, 83:50

Aerodyne 47 racer/cruiser: 65:11, 83:50

Aerodyne Yachts. See Aerodyne Industries Group (Cape Town, South Africa)

AeroHydro, Inc.: AutoCAD data-exchange file/NC cutting, 24:26; Fairline design/fairing software, 7:18, 8:35, 12:60, 17:58, 24:26, 24:32, 78:3; MultiSurf design/fairing software, 40:42, 40:53

Aeromarine 50: light displacement racer/cruiser/Jay Paris design, 88:62
Aerospace Industries Association (AIA): worker safety/health manual, 36:78
AFI Inc.: boat wiper motors, 33:75, 116:10
African Cats: Green eMotion catamaran with retractable pod drives, 127:30
AIM Plastics, Inc.: sourcebook/catalog, 25:59
air-assisted boats: Air Cavity Ship/planing trimaran with aerodynamic lift/Multi-step planing hulls, 116:40; Power-Augmented Ram Vehicle (PARV)/Konstantin Matveev, 116:40; QUADRAPOD Air Assist Catamaran Hull/Andrew Deze, 116:40
airbags, flotation: and sinkability, 23:24, 23:26; Yachtsaver II emergency flotation system, 13:70, 23:24
airboats: composite/thermoplastic, 44:30; Husky Airboat, 53:12. See also hydroplanes
Airbrasive Sales and Development Co.: VSP-30 and VSP-55 Vacuum Sanding Systems, 20:56
air conditioning: analyzing cost of, 120:52
air coolers: for compressed-air (pneumatic) system, 33:58
aerosol Co., Inc.: Chargette Freon recycler, 18:54
Airpax: circuit breakers, 16:52; E-Plex networking system, 105:78; engine information “message” interfaces/Volvo Penta/NMEA 2000 bus, 106:42
air pollution. See air filtration systems; Clean Air Act/Amendments; Environmental Protection Agency (EPA), regulations/guidelines/compliance; NAAQS (National Ambient Air Quality Standard); Rule 1162, compliance; ventilation systems; VOC emissions, reduction/compliance
air purifier: Breathe Easy/Dometic, 132:6
AirScan Inc.: hunting for boats by air service, 70:21
Air Support Vessels (ASV): Alnmaritec workboats/Effect Ships International/collaboration, 145:12
Airtech Advanced Materials Group: machined-aluminum vacuum valves (frogs), 45:5
air tools. See compressed-air (pneumatic) tools/systems
Ajeman, Bob: on AC systems/corrosion test meter, 31:4; on AC systems/galvanic isolators, 41:21; on side and rolling forces on high-speed V-bottomed boats powering through a turn, 88:4
Ajootian, Fred: on propeller-shaft removal, 6:5; on need for professional engineer licensure, 108:6; on the need for a two-bearing rudder design, 118:4
Akers, Richard: on model testing vs. full-scale testing/laminar and turbulent flow, 58:6
Akilaria RC3, 155:58. See also Class 40
Akzo Coatings, Ltd.: Cetol Marine, 20:56
Alaska Diesel Electric: auxiliary diesel engine, 2:70; Lugger marine diesel, 11:52; Soot Trap and Regeneration system for gensets, 29:58
Alaskan fisheries: 659 Wheel House observation boats for service monitoring fisheries, 139:18
Albacore Research Ltd.: ShipCAM, 17:58, 38:47
Albatross Marine Design: kitted aluminum powerboats, 131:12; Alcan Baltek Corporation: wet-core problems study, 96:16; Picnic 550 Classic, 122:24; Sea Gypsy pocket cruiser, 135:36
Alden, John, designer: Summerwind (1929 build) schooner/rig conversion/GMT Composites, 146:40
Alden Yachts: hullweight reduction/ 54’ semi-custom sloop, 77:10; Interkeel interchangeable keel, 37:66, 38:20
Aldrich, Bob: jetsprint boats/Double Barrel Marine, 57:15
Alerion line, 147:38. See also USWatercraft, Tillotson-Pearson.
Alfab: aluminum seine skiffs, 58:66
Aliboats (Botswana): aluminum landing craft for British Red Cross, 100:4
Alicat Workboats, Ltd. (UK): collaboration with Tampa Yacht Manufacturing, 161:20
Alice’s Mirror (trimaran): 62:46
alignment: engine to the shaft, 159:36; shaft to its bearings, 159:36; optical vs. laser alignment, 159:36. See also Straight Line Marine
Allblom, Kenneth: on Fresh, Clean, and Clear and using household pipe alternative AluPex, 154:4, 155:4; on owning component failure, 142:4
allergies/allergic reactions: epoxy resins, 3:19, 42:62, 45:105; Multiple Chemical Sensitivities (MCS), 36:88, 38:6; sensitization, 48:104; teak wood, 75:72; vinyl ester resins, 42:62. See also worker safety/occupational health
Allied Fibers/Allied Signal Company: Spectra polyethylene fibers, 16:52
Allison Boats (Louisville, TN): profile of, 94:18; tunnel-hull raceboats, 94:18
Allison, Paul: raceboats, 94:18
All Points Boats (Fort Lauderdale, FL): profile of, 93:40, 157:102; custom valve testing apparatus, 157:102
alloys, marine-grade: galvanic/stray-current corrosion, 32:36, 32:39, 32:41, 33:28. See also specific alloys
Alls, Dennis (designer): Aleutian Yachts/Miss Lisa, steel motoryacht/Joe Artese, 117:8
Allweather Boats: efficient design, 17:4; fuel-efficient power cruiser, 79:10
Almar Boat Company: builder profile/Sounder sportfishermen/welded aluminum construction, 21:26; haulout/publicity, 20:8
Alnmaritec: aluminum workboats/challenging service requirements, 145:12; Air Support Vessels (ASV), 145:12
alodyne chrome: conversion coating/painting aluminum boats, 37:36;
Alpenglow Marine Lights: 87:80, 115:74
Alpex Wheel Company: Diamond Discs, 20:56
Alpha Inc.: Pemco 3011 fabric adhesive, 10:52
Alsberg Boat Works, Inc.: Alsberg Junior speedster, 60:11
Alston, G. Kevin: on R-12 phaseout/HFC-134a refrigerant, 17:4, 26:8
Alter, Hobart Laidlaw: inventor/designer Hobie Cat boats/profile and obit, 149:10
alternating current. See AC/shore-power electrical systems
alternative energy systems: wind generators, 80:22; Aquair 100 wind and water generator, 80:22
Alternatives Energies (Alt.En): electric ferries/La Rochelle, France, 122:12; hydrogen fuel cell system with hydrolizer, 144:10; range extender system, 144:10; real-time monitoring system, 144:10; solar-powered CREA 2000, 144:10; zero-emission craft/electric ferry, 144:10
Alubat Shipyard (France): Cigale 18, 64:64
Aleutian Yachts: Dennis Alls design motoryacht Miss Lisa/Joe Artese interior design, 117:8
Alumacraft: 69:52
Alumaprep: contaminant removal/painting aluminum, 37:36
sailboats, 148:46; structural characteristics, 147:24; tooling, 27:34; vs. welded aluminum, 72:22; yield and stress properties of, 72:22
aluminum anodes: vs. Zinc and magnesium anodes, 157:94
Aluminum Boat Solutions Team: aluminum corrosion problems and Alcoa, 96:65
Aluminum Boats, Inc.: worker training, 13:54

American Challenge Technology: fighter-jet style boat, 77:10
American Clamping Corporation: Bessey Auxiliary Angle Clamp, 24:62; Bessey ES Irregular Angle, 18:54; Bessey KP framing system, 5:58; Bessey three-way C-clamp, 24:62; Blovac 484, 8:54
American Colors: shrink-wrapping tips, 18:33
American Composite Manufacturers Association: continuing education classes/The Boat School (Eastport, ME), 137:12
American Custom Yachts: building over rigid steel jigs, 61:10; custom steel jig for extending hulls, 66:11; profile/sportfishermen, 54:18, 101:38
American Expedition Yachts: start-up, 106:92; target boats for U.S. Navy, 106:92. See also Bayview Edison Industries.
American Gator Tool: Push—pull Tapper, 84:18
American Identification Products: warning labels, 21:12
American International Industries, Inc.: Marine Shaver, 27:70; Power-Plus respirator, 16:52
American Plywood Association (APA): industrial panel selection guide, 31:68; moisture threshold of wet-wood mechanical properties, 98:4
American Sail Advancement Program (ASAP): sailing industry revival, 30:48
American Society of Civil Engineers (ASCE): concrete-canoe contest, 31:68
American Society of Interior Designers: address, 7:5
Americans with Disabilities Act: impact on employers, 23:3, 23:13
American Trailer: custom tilt trailers, 135:58
American Water Ski Association (AWSA): boat-noise control/proactive approach, 43:75
American Waterways Operators (AWO): address, 4:20; programs/efforts/membership, 4:9
American Waterways Shipyard Conference (AWSC): efforts/membership, 4:9
American Welding Society (AWS): aluminum welding seminar, 43:17

Ames, Jon: Design Challenge/WWBD 26 sharpie, 135:36. See also de Souza, Paulo Alves.

Amistad: near replica tops'l schooner, 64:11

AMJO: UV “A” curing system, 18:17

amphibious vehicles: add-on wheels for boats/Sealegs, 156:12; DUKWs, 56:10, 57:13; Neoteric Hovercraft, 66:11

Amphistar U.S.A. Ltd.: Xtreme Xplorer, 57:15


A.M. Services: Cushman 20 sportfisherman/welded aluminum construction, 21:26

Anacostia Marina: closing of, 68:11

anaerobic adhesives: description/applications, 41:44

Anaglyph Ltd.: PlyMatch computer-aided lay-up software in realtime, 124:12; 127:8 analog gauges: on White Tornado/vintage Bertram Nautec boat, 162:76

Anbar Foundry: work for Edson International, 158:18

Anchorage, The: builder profile/Dyer 29, 28:72

Anchorage Marina: pearl finish, 20:56

Anchorage Marine Service, Inc.: services/facilities, 23:50

anchor cable. See cable, anchor

anchor light: MkIII FirstStar, 87:80; MultiStar tri-color, 87:80

Anchor Reinforcements Inc.: Ancaref reinforcement fabrics, 1:68

anchor rode: bungee/Hazelett Corp./hurricane preparedness, 30:8, 64:36, 113:4; bungee/Seaflex elastomeric rope, 53:64; cleat horns and chafing, 93:76; working load limits for, 93:76

anchors: stowage systems, 22:28, 22:29; 93:76

anchors, mooring: design/installation/performance (hurricanes), 30:8, 38:4; Dor-Mor, 30:8; Helix/helical, 30:8, 38:4, 53:64; load estimations, 64:36, 93:76; sources, 30:16

anchors, storm: aftermarket niche, 14:26, 14:32

anchors, types and weights, 93:76; load limits, 93:76

ancillary equipment. See components/ancillary equipment/accessories

Ancor Marine: Prova model CM-01 multimeter, 50:73

Anderosov, Steve, author: “One Man’s Modification to the Manufacturer’s Suggested Repair,” 103:26

Anderson, Art, Associates: Stolkraft hullform, 49:42

Anderson, Dick: naval architect, 62:63

Anderson, John: designer/motoryacht, 57:15

Andersons, The: Grit-O’Cobs, 36:78

Andoe, Graham: copper/nickel sheathing, 7:42, 9:5; on spraying epoxy, 43:5
Andrews, Alan: yacht designer/profile, 154:36; development of semi-submersible reef viewer, 154:36; turbocharging, canting-keel maxi racer/Magnitude 80, 154:36; ultralight displacement boat (ULDB), 154:36
Anmarkrud, Thomas: on repairing single-skin laminates, 68:5
Anspach, Ken: on photo-curing resins, 18:8
Anstey Yachts: racing sloop, 2:12
Ansur Fire Protection: Halon replacement inergen, 21:12
antennas, radio: lightning protection systems, 43:64
Anthony, James, Powerboat Company: 21' runabout, 3:11
anti-Coanda effect system, 91:10. See also Hanes, H.W.
antifouling coatings, environmentally friendly:
Epaint, 105:105; Max-Pro-Coat (vinyl ester), 19:59; water-based/performance/Rule 1106.1 amendment, 60:11
antifouling coatings/cleaners, biodegradable:
Boatyard Boss, 29:58; Omni-Gel, 10:52; Zebra products, 8:54
antifouling paints/coatings: roughness patterns/drag reduction, 59:5
antifouling paints/coatings, ablative:
applications, 31:10; Awlgrip AwlStar, 31:10; Interlux Micron CSC, 31:10, 47:66; monitoring system, 31:10
antifouling paints/coatings, copper-based (non-tributyltin):
Copper Coat, 1:68; Crystic CopperClad (Ferro), 2:12, 7:42, 7:48, 17:58; Copperlok, 8:4; Epco-Teck 2000, 9:56; moisture meter readings, 60:48; Pettit Paint ACP-50 (ablative), 16:52; Pettit’s Trinidad, 161:64; phasing out of/on recreational boats, 161:64; POX-E-COP, 7:42, 7:48; removal, 7:8; resistance to water permeation, 15:13; ultrasonic anti-fouling technology/transducers, 161:64
antifouling paints/coatings, graphite-filled: and moisture meter readings, 60:48
antifouling paints/coatings, removal/disposal:
environmental regulations/compliance, 31:10, 31:16, 31:18, 33:75, 34:59; magnetic hazmat containment curtain/Armstrong Marine, 152:36; water-based chemical strippers, 18:54, 31:10, 33:75. See also boatyard waste disposal/reduction/compliance; paint removal
antifouling paints/coatings, tributyltin-based:
disposal, 31:10; restriction/replacement of, 7:8, 7:42, 31:10, 105:106
antifouling system, electronic: Barnaclean, 46:50
antifreeze-delivery method, 131:54
anti-noise systems: electronic/MTU, 46:50. See also noise/vibration control
anti-pitch and roll: Puget Sound pilot boats, 67:90
anti-sabotage lacquer: Organic Products/torque seal, 113:10
anti-seize lubricants/compounds: Bostik Never-Seez, 1:68; graphite, 38:20, 39:4; for keel fasteners/galling/corrosion, 38:20, 39:4; nickel-based, 38:20; and motor mount threads/propeller nuts, 124:6, 126:6; thread-locking compounds, 126:6
Antonisa (sloop): 51:36, 51:52, 63:70, 70:58; Crest foam cushions, 82:8
Antrim, Jim: designer of Open 50, 65:24; *Duffy Voyager*, 61:52; electric speedboat design, 50:11; profile of, 76:60; swing-wing multihull, 76:60
Antrim 30: whipstaff tiller, 76:60
APA-The Engineered Wood Association: custom industrial plywood/information, 42:5
appliances, electrical. See electrical appliances
appliances, fuel-burning. See heaters, cabin; stove, galley
Applied Electronic Controls Corp.: Auto-Sync engine synchronizer, 2:70
Applied Poleramic: HT-1 SC high-temp epoxy resin, 59:76
appraiser, profession of: damage claims, 44:72, 50:80; qualifications/ethics/conflicts of interest, 59:89; 85:30
apprenticeships. See boatbuilding apprenticeship programs; training, of employees; training, vocational
*Apricot* (60' trimaran): 63:86
Aquachelle International: ceramic gel barrier coat, 17:11, 17:17
Aquadrive Systems, Inc.: anti-vibration system/isolators, 35:4, 38:55; Constant Velocity Torsional damping unit, 38:55; Fluidlastic engine mounts, 38:55
*Aqua Mania G3*, turbine-powered speedboat/Mystic Powerboats, 119:6
Aquasport: and Walt Walters, 132:36; 17' center-console, 3:27
*Aqua Quorum* (monohull): 62:46
See also honeycomb cores
aramid reinforcing fibers. See Kevlar arbitration: binding, 12:40, 12:47; resolving builder-owner conflicts, 12:40, 37:60. See also negotiation
Archer, Suart (designer): passagemaker for American Expedition Yachts, 106:92; Northwest 42 Fast Trawler, 106:92
Ardic: cabin heaters/carbon monoxide protection, 45:32
Ardox Corporation: Scot vacuum breaker, 43:44
Arenberg, Jason A.: on engine accessibility, 107:4
Arevalos, Jeffrey: on honoring those who build and repair boats, 83:4
Arey's Pond Boat Yard: Beetle Cat look-alike, 23:41; electric catboat, 137:6
*Arion*: first fiberglass auxiliary sailboat built, 157:16
Aristech Chemical Corp.: Acrysteel M acrylic sheeting, 11:20; Altair Plus, 11:20; thermoplastic construction, 10:34, 11:20
Ariston Technologies: optimization of laminates/Outerlimits Offshore Powerboats, 133:46, 60
Arkansas Traveler Boats: and Jack Riggleman, 128:8
Arm & Hammer: Armex baking-soda blasting media, 7:13, 12:60, 16:42, 31:10, 47:66
Armbruster Products: Blue Blower, 6:52
Armorcote IMC (In-Mold Coating): applications/performance/spraying technique, 1:68, 13:70
Armor Systems, Inc.: bookkeeping/payroll systems, 27:70; Excalibur accounting software, 18:54
Armstrong, James F.: on OEM mergers, 1:5
Armstrong Marine Inc.: fold-down landing-craft type bow/water taxis, 152:36; magnetic hazmat containment curtain, 152:36; maintenance barges, 152:36; profile, 152:36; Storm interceptor design, 152:36
Arneson, Howard: "Skater" offshore racing boat, 64:11
Aronie Concepts, Inc.: Drill-Mate caulking gun, 13:70
Aronow, Don: Donzi models, 3:27, 132:36; Formula 233, 3:27, 132:36
Artese, Joe: see also interior designers, independent.
Artisan Boatworks: Watch Hill 15 daysailer with pod drive auxiliary power, 137:6
Artisans School/College, The: vocational training program, 20:26
ASAP (American Sail Advancement Program): expanding sailboat market, 6:20; on lead tax, 30:54; sailing industry revival, 30:48
Asbestos: exposure/law, 35:52
Ashcroft System, 51:3. See also cold-molded construction.
Ashland Chemical Company: AME 4000 mold-release, 13:11; AME 4000 photo-initiated resin system, 18:8, 18:17; AME 5000 low-VOC resin, 21:60; ENVIREZ, bio-based resin/Campion Boats, 116:10, 143:52; FRP Supply health/safety/environmental manual, 20:8; greener polyester and epoxy formula developments, 125:8; Parabeam bidirectional woven fiberglass fabric, 19:59; Pliogrip 7700 structural adhesives, 29:8, 30:60; Rule 1162 development, 26:34
Ashland Specialty Chemical Company (Dublin, OH): co-sponsor of Solar Splash competition, 97:10
Associated Chemists Inc.: Templex 853-NB Resin Cleaner, 33:20
Astratec: battery capacity tester, 39:98; high-load battery testers, 39:98
ATC Chemical Co.: Baltek-Bond, 33:46; Core-Bond, 33:46; Core-Cell SAN foam core, 35:58, 45:86, 51:6, 51:22, 52:30, 53:4; Core-Cell Bead & Cove Planking System, 35:58; Poly-Bond, 42:5; putties/hot weather, 33:46
Atkins, David, designer of recreational hovercraft: 66:11. See also amphibious vehicles, hovercraft.
Atkins, Fred: on surveyors and boatyards, conflict of interest, 70:5
Atkinson, Tim: on epoxy air inhibition/secondary bonding, 20:4
Atlantic Veneer Corporation: marine-grade/custom-fabricated panels, 16:21
Atomic Four gasoline engine: replacement for, 2:70
Attwood Corp.: Ballistic high-performance propellers, 48:86; in-line fuel-surge protector, 44:54; Turbo 3000/4000 bilge blowers, 31:68
Aukerman & Associates: moisture meters, 19:8
Austral USA: Austal Ships (Australia) and Bender Shipbuilding & Repair (Alabama), 90:13; Australia: 49er racing skiff, 49:74, 51:6; jetsprint boats, 57:15; model basin/tank-testing, 54:43; Stolkraft hullform, 49:42. See also Duckworth, Arnie; Tasmania
Australian Maritime College: model basin/tank-testing, 54:43
autoclaves. See ovens/autoclaves
AutoDesk: AutoCAD, 52:12. 61:102, 66:90
Auto-docking system: at NQEA, 63:106
AutoHydro: hydrostatics software, 17:58
AutoKon: lofting/parts generation software, 7:18, 17:58
Automark Marking Systems: reverse-label maker/affixing HINs, 60:5
Automatic Equipment Mfg. Co.: PowerMover 7000 motorized dolly, 15:70
automotive industry products/equipment, marine industry applications/cross-over: acrylic urethane paint (Deltron), 19:12; Chris-Craft wooden boats, 115:142; at Harmony Yachts/Poncin Yacht Group, 115:142; FRP construction/Glasspar, 41:58, 60:116, 60:120; FRP recycling programs/U.S. and Europe, 60:82; polyurethane gelcoat, 43:5; RIM (reaction injection molding), 38:55; 3-D CAD models, 38:38
Autonnic Research Ltd.: Link Instruments, 21:60
autopilot: installation/Hunter Marine, 53:50; remote-controlled trimaran/circumnavigation, 54:18, 55:16; systems technician training/certification, 57:99
Autoplate: lofting/parts generation software, 17:58
Autopower for Windows: hull design software, 36:78; propulsion-analysis software, 36:78
Autoship Systems Corp.: Autopower for Windows hull design software, 36:78; Autopower for Windows propulsion-analysis software, 36:78; AutoShip design software, 8:35, 17:58, 63:106
Auto-Sync: engine synchronizer, 2:70
AutoYacht: design software, 8:35, 17:58
Avonite: countertop sheet material, 7:68; formstone Lite Preform panels, 34:28, 34:32
Avard Fuller, designer: yacht Jim Hawkins, 81:52
AvScope: illuminating periscope, 24:62
Awesome Yachts: power multihull/circumnavigation, 50:11
Awlbrite Quik-Fil: wood sealer, 98:12
AwlCoat TPC: spray-on lift-off protection film, 104:12
Awlgrip: applications, 60:27, 63:106; Awlfair, sandable epoxy, 126:18; Awlmix color
matching service, 150:72; AwlStar ablative bottom paint, 31:10; for gelcoat restoration, 15:44; for print-through prevention (SCRIMP), 31:42; on Rybovich sportfishermen, 25:42; spraying tips, 19:12, 19:20; use on Waterline Yachts steel hulls, 83:72. See also linear polyurethane (LP) paints
Axel Plastics Research: internal mold-release agents, 13:11
Axson Technologies: extrudable paste and sprayable silicone/rotary-head air gun, 128:8. See also Hexel Corp.
Azimut-Bennetti Yard (Italy), 108:62
Azko Chemicals: Trigonox 239A catalyst, 44:30
Aztec Inc.: Z-pinning reinforcement for mechanical fasteners, 92:6;

Baar, Lisa: on interior design/mock-ups, 9:28
Babcock, Dick: on boatyard management/education/training, 35:25, 35:30; on business/management education, 22:51
BACT. See best available control technology (BACT)
bad behaviour prediction software for powerboats: dynamic stability calculator/Donald L. Blount and Associates, 126:80
Bad Dust Containment Systems, 129:8
Baekelans, L.H.: development of laminated plastics, 38:30
Bagatelle, wood epoxy sailboat: power to weight ratio, 79:48. 159:10
bagged-laminate infusion process (BLIP): bags/films for, 30:25, 32:28, 32:34; with knitted/woven fabrics, 29:38; production vacuum-bagging applications, 30:18, 30:25, 32:28, 69:132. See also vacuum-bagging equipment/systems/setup; vacuum-bagging, applications/techniques
Bailey, Dylan, author: "Reading the Rust: A Surveyor's Notes on Chainplate Inspection," 159:50
Bailey Marine Hardware: watertight deck hatch latches, 150:72
Baja Marine Corporation: strain-testing program/Outlaw line, 79:102
baking soda: blasting media/equipment for, 7:13, 12:60, 16:42, 31:10, 47:66
Bakker, Peter: on electrical panel installation errors, 68:5
Bales, Bill: on interior design, 6:34, 6:39
Balfe, Mike: on megayacht market, 12:50
Ballenger Spar Systems, 94:8
Ballard Power Systems: PEM (proton-exchange membrane) fuel cell, 69:38
ballast, water: bulb design, 70:21, 126:56; Child series/offshore racing sailboat, 53:50, 53:61; limitations to, 64:64; and multihull heel angle, 62:46; vs. swinging hull, 64:64; use in re-righting overturned hull/Open-Class 50, 76:60
ballast keel. See keel, ballast
Balmar: DC systems supplier, 19:50, 19:55
Balogh Sail Designs: sailing kayaks (kaimaraks), 22:64
balsa core (end-grain), in cored/sandwich construction: Armor/balsa coated with proprietary polymer/I-Core Composites,

BaltekBond syntactic foam bonding putty: applications/performance, 31:34, 33:46
Baltek Corp.: AirLite PVC foam core, 51:22; AL 600 and 600/10 balsa core (presealed), 9:44, 17:58, 31:34, 52:30; BaltekBond, 31:34, 33:46; BaltekMat, 7:50, 7:62; on cored bottoms, 51:22, 51:26; DecoLite panels, 8:54, 13:43, 40:42, 40:52, 47:17; D-100 (resin-sealed), 13:43; development of Belcobalsa Countourkore, 115:100; DuraKore end-grained balsa core, 1:20, 9:36, 59:10; DuraKore strips, 15:34; pre-skinned balsa-core panels, 45:54. See also balsa core, in cored/sandwich construction
BaltekMat: print blocker, 7:50, 7:62
Baltic Yachts (Finland): Hetairos ketch, 141:50; profile of, 85:46
Bamboo laminated panels: Elektra Six-2 electric launch/Lamboo Technologies/Symphony Boat Co., 159:10
Bandy, Art: on raw-water strainer and marelon “Anti-Venturi” through-hull, 130:66, 132:4
Barbaric, Zoran: on 24-volt regulators, 77:5
bar code system: for labor/payroll, 33:36; for parts/inventory, 33:36
Barcos Deportivos, ship builders, Tarragona, Spain, 77:10
Barer, Brian: on core bonding, 9:36; on woven vs. stitched reinforcements/heavyweights, 29:38; X-weave trusswork patch, 36:34
Barka utility boat: Kazulin Boats, 141:6
barnacles: and effects of fuel consumption, 124:54
Barracuda Technologies. See Divilette bonding compound; Divinycell foam
Barracuda Yacht Design: two-crew sailing yacht, 70:21
Barrer, Malcolm: on heated storage for resins/coatings, 55:5
Barrie, Craig: Dragon powerboats, 92:6
Barrie, Richard: Western Boatworks, 58:13
barrier-avoidance test: ISO certification standards, 27:3
barrier coats: for blister prevention/repairs, 15:13, 17:11, 20:32, 48:86; formulations/systems, 17:11; Pettit Glass Flake epoxy, 23:54; testing/evaluating, 17:11. See also blister repairs/prevention, resins/coatings/techniques
barrier creams: Dermashield, 21:60; laminate quality/blister prevention, 15:13; review/sources, 3:19
Barry, Christopher D.: AutoCAD users’ group, 52:12, 54:18; AutoDesk Users Group International (AUGI) SIG, 59:10; CAD/CAM systems implementation/study, 58:13; on calculating flooded flotation limits, 142:3; on certification testing/passenger vessels, 39:4; on definition of professional engineering licence and impact on yacht design, 90:4’ on Engineers Without Borders Humanitarian Engineers Corp database, 94:4; on fatigue/free-standing masts, 57:7; on licensure, 51:6, 72:5, 76:4; on model testing, 58:6; time-share/large yacht market/First Chesapeake Powerboat Symposium, 116:40
Barry, Frederick, author: “Quick Docking System,” 152:6
Bartee, Robert J.: draft measuring tool, 44:5; on measuring weight/stability, 44:5
Bartels, Konny: on Nicola IV sailing yacht/deDood built boats, information request, 117:5
Bartkowski, Lee: on raw-water system/cooling-water supply indicators/flow detectors, 45:5; on through-hull installation, 10:4
Barton, Greg: on boat storage and additional suggestions, 124:6
basalt fiber, 91:20
Baseline (Baseline II): design/fairing software, 7:18, 17:58, 38:47
Baseline Technology: Baseline design/fairing software, 7:18, 17:58, 38:47
BASF Corporation/BASF Structural Materials: 5218 pre-preg, 20:56; Luran S, 34:59; resin photo-initiators, 18:8; Zone3 flotation foam, 34:59
bass boats: Allison XB-21 ProSport Sport Utility Boat, 94:18; pad V-bottom for, 94:18
New England–style/Lyman-Morse, 97:82
Bates Technical College: boatbuilding vocational training program, 20:21
bateau (skipjack): aluminum charter boat/high form stability hull, 139:54
Bateau Bleu Award, 101:12
lead acid batteries, 149:34; sealed, 35:58; sulfation/undercharging, 19:50, 20:4, 148:58; switches, 8:12, 20:50; temperature sensors, 134:54
Baudhuin, George: profile/Marine Travelift engineering, 59:133
Baumann, Hans V.: on blackened PVC foam core, 34:5; on cross-linked vs. linear PVC foam core, 56:5
Bavaria Yachtbau: profile of, 94:70
Baxter, Michael R.: on surveyors in the boatyard, 69:5
Bayer Corporation: Baytec RTM-081D RTM polyurethane resin system, 38:55
Bayless, Sandy: on acetone replacements, 33:26
Bayley, Greg: on analyzing accelerations, Part I, 141:4
Bayliner Marine Corporation: boat shows/marketing, 36:60, 36:64; Buccaneer Sailboat, 119:3; Classic express cruiser, 39:67; safety inspections/performance testing, 15:50; worker training, 13:54
Bay Ship & Yacht Company: builder profile, 20:8, 21:38, 31:68; redecking/restoration/Balclutha, 56:10; refit and maintenance, 53:28
Bayview Edison Industries: start-up, 106:92; Bayview Auxiliary Tug (BAT) drive mechanism, 106:92. See also American Expedition Yachts.
BCAM: Mannequin Professional animation software, 40:48
BC Research: hydrodynamic testing of 
*Puget Sound* scale model, 87:104
Beach cat: Nacra Formula 18/20, 127:94
Beach, David D.: on builders’ liability, 16:4; on professional licensure, 47:24
beams: PRISMA stringer preforms, 41:62
Beaney, Jim: on lack of mention of Aquadrive in thrust-bearing systems article/”Refine the Ride,” 122:6
bearing, Cutless: tool for removing, 48:86
Beckmann Ltd.: steam launch replicas, 18:20
Beckson Marine, Inc.: Vent-O-Mate air vent, 48:86
Beekman, Philip: on question of corrosion of zinc-plated valve cover bolt, 123:6
Beeldsnijder, Pieter, superyachts designer: and Flevo Jachtbouw, 132:18
Beetle Cat: builder profile/production methods, 23:32, 23:41
Begnaud, Donald J.: on fiberglass itch, 66:5
Berkshire Electric Cable Company, 55:99
Bennardi, Tom, Sr.: North End Composites/SCRIMP, 44:30
Bernstein, Robert G. (Bob): on power catamarans, 47:5
Berckmans, Bruce: on Hinckley sailboat feature/flaw/pulling engine to extract shaft, 150:4
Berkshire Electric Cable Company, 55:99
Bernard, Tom, Sr.: North End Composites/SCRIMP, 44:30
Bernstein, Robert G. (Bob): on power catamarans, 47:5
Bernstein, Robert G. (Bob), author: “Electronic Management,” 14:34
Berry, Arthur: on tooling for production, 3:34
Berta, Joe, author: “Surveying and Common Sense,” 120:80
Bertelsen, William D. (Bill): Hydromat composite-panel test fixture, 34:42, 35:4, 149:56; on epoxy vs. vinyl ester/carbon laminates, 55:5
Berthod, Cedric: on pricing/Nomex honeycomb core, 22:20
Bertram, Dick: Bertram 31, 3:27; founder/Bertram Yacht, 39:70
Bertram Yacht: aging fiberglass boats (laminates), 4:64; aluminum-fiberglass hybrid construction (58Cs), 17:19; Bertram 25 leaking fiberglass tank and newspaper in laminate, 132:36; Bertram 31 sportfisherman/deep-V hullform, 3:27, 39:70, 50:32; 132:36, 134:62; Bertram 31/effect of ethanol on fiberglass tanks, 109:6; carbon-fiber reinforcements, 28:18; early days/FRP development, 38:30,103:183; interior design, 6:34; marketing used boats, 10:2, 39:70; motoryachts, 39:70; polysulfide sealants, 28:27; profile/Lee Dana, 39:70, 43:5; raceboats, 39:70; specialty plywood panels, 16:21; White Tornado/restoration of racing powerboat, 162:76
best available control technology (BACT): for reducing VOC emissions, 10:8, 60:39. See also maximum available control technology (MACT)
Best, James R.: on Leon Slikkers of Tiara Yachts, 73:5; on reinforcements for closed molding, 92:4
Beta Marine: niche-market for diesel marine engines, 122:64; 127:30
Bethwaite, Julian: 49er racing skiff, 49:74
Betts, Jim: aluminum production boatbuilding, 129:40; and Alcan/defective aluminum/Jade aluminum sloop, 152:6; build of Paul Bieker Riptide boats, 152:6
Biddick, Ken, author: “Structural Repairs,” 97:174
Bieker, Paul (Rip Tide Design): conversion of USA 76 America’s Cup boat/Keefe Kaplan Marine, 140:22; Rocket Science/composite flat-panel construction, 45:54, 45:62; infused carbon 53’ performance catamaran/Fujin/Gold Coast Yachts, 155:10; integral water and fuel tanks in cored composite boats, 74:20; 3-D CAD modeling, 41:5; profile of, 74:68; redesign of Ultimate 30, 61:10, 116:40; Riptide 35 and 41 builds/Jim Betts, 152:6; Shearwater pocket-cruiser, 115:162, 116:40
bilge, oily/flooded, pumping: pumps/systems/techniques, 31:59, 57:48, 66:11; valves, 37:26, 38:4. See also bilge pumps
bilge blowers: Turbo 3000/4000, 31:68
bilge compartments: unsealed/design flaw of, 93:98, 115:88

Bill Lee Yachts: CFC-free marine refrigeration, 16:35

billing/billable work: boatyard/ marina management, 35:25; financial planning for small businesses, 1:38, 32:64; mission statements/quoting, 127:128. See also accounting; boatyards/marinas, management; payroll/wages; production boatbuilding, financial management/planning

Billings, Jono: on moisture meters, 23:42; on mooring anchor chain/swivel, 30:8; on osmotic blistering repairs/vacuum-drying, 9:50, 9:53, 16:42

Billings, Jono, author: “Repair (1990s Retrospective),” 60:27

Billings Diesel & Marine: boatyard fires/insurance, 1:50; wooden boat storage, 18:28

Bilodeau, Andre: foam-planked one-offs, 35:58

Biminis: custom-made/Dowco Marine, 116:10

Bingham, Bruce: Pacific Seacraft designs, 10:20, 10:31

Binks Poly-Craft (Binks Manufacturing Co.): Binks DX70 air-operated diaphragm pumps, 161:8; Clean Air Award, 26:34; early spray equipment, 38:30; fabric impregnators, 5:34; high-solids epoxy spray systems, 43:5; HVLP equipment, 26:34, 34:35, 161:8; Low Emission Laminator, and High Efficient spray booth Air Filters, 107:14; Mach 1 HVLP spray gun, 34:35; Model 7 spray gun, 38:30; Model 18 spray gun, 38:30, 45:76; Model 2100 spray gun, 122:12; plural-component systems, 38:30; Super Slave resin gun, 1:68; Thermal Spray heating system, 34:35; Unison catalyst-metering system, 23:54

binoculars: Steiner-Optik Commander Global’s no-fogging with digital compass, 154:12
Bio-Concepts, Inc.: Boatyard Boss
biodegradable cleaner, 29:58
biocomposites, 125:8
biodiesel (soy-based diesel fuel): ASTM
(American Society for Testing and Materials) standard for, 77:21; ASTM
D675 standard, 158:64; advantages and disadvantages of, 158:64; algae
formulation, 116:28; drawbacks to, 77:21, 116:28; E-Diesel vs. biodiesel, 116:18;
effect on FRP resins, 116:28; efficiency reduction, 158:64; engine manufacturer’s
suggested blends, 116:28, 118:4, 158:64; high-cloud and pour points of, 116:28;
production/applications, 34:55; 116:28; National Biodiesel Board seal of approval,
77:21, 22; vs. petroleum diesel, 77:21, 22, 158:64
bioresin boats: at Campion Marine, 143:52
Birchwood of Los Angeles, Inc.: marine-grade/custom-fabricated panels, 16:21
bird nest extractor, 111:12
Bird Boat-class: sloop Kookaburra, 140:18
Birkey, Paul: Belina Interiors, 97:108
Bish Marine International: 62:12
Bishoprick, Stan: Legendary Yachts, Inc., 58:13
Black, Paul: marine engineer/Pantawee
Marine, 128:62
Black, Richard: designer/Sparhawk 36 and 42/free-standing masts, 55:46
Black & Decker: Bullet drill bits, 2:70;
Industrial 12-gauge shears, 21:60; palm-grip sander, 3:60; Scorpion Anti-Slip bits,
15:70
black box: IST disaster data sensor-recorder, 52:43
Black Dog Propellers: Prop Scan, 42:74
Black Duck Boat Works: electric launches/canoes/kayaks, 43:17
Bladerunner raceboat: tunnel-hull design, 72:10
Blalock, William C.: on Hooked on Networks
and tinned, stranded conductors/ISO
standards, 158:4
Blair, Noel, Jr.: on powerboat builder Forest
Johnson’s Prowler hulls, 134:4
Blanchard, Bredt: on vocational training
Vancouver Island-style, 81:6
Blasco, Francisco: on bug in metric formula
for minimum airflow calculations, 115:6
Blasingame: vane-restraint technology, 57:88
blasting, applications/techniques: blister
repairs, 16:42; pressure cleaning with
recycled bottle glass/Dustless Blasting,
148:10; paint removal, 7:8, 12:60, 148:10
blasting system: Blast N’Vac, 15:70
blast media, for paint/gelcoat removal:
abrasive-grit, 16:42; baking soda, 154:12;
baking soda/Armex, 7:13, 12:60, 16:42,
31:10, 47:66; “black beauty,” 31:10;
corn/Grit-O’Cobs, 36:78; plastic, 7:8,
12:60, 16:42; EnviroStrip wheat starch/Biobased Abrasive Products,
154:12; reclaimer for/LAB 1 System,
12:60; steel/aluminum, 12:60
bleeder/breather material: for vacuum-bagging, 1:58, 1:64, 9:50, 30:18, 43:24,
45:68. See also vacuum-bagging
equipment/systems/setup
Blevins, Thomas: on dimpled bottoms, 57:15
blimps: American Blimp
Corporation/Lightships/airships, 58:13
“Bling My Boat” Contest: Donzi Hornet
makeover/Shipwreck Boats, 110:12
BLIP. See bagged-laminate infusion process
(BLIP)
Bliss, Jay: on In The Buffer Zone and lithium battery packs/wrecked automobiles, 150:4; on Pedal Boat Improved and NuVinci three-speed transmission/Fallbrook Technology, 154:4
blistering, carbon fiber/galvanic:
causes/symptoms/caveats, 57:30, 60:5; diagnosing, 57:30, 57:32
blistering, gelcoat/osmotic:
blistering, gelcoat/osmotic, testing/diagnosis:
blister insurance: Gelshield/Boat Care, 19:59
blister repairs: Gougeon manual/video, 21:60; InterProtect system, 19:59; protective gear (goggles), 19:8; warranties/liability, 16:42
blister repairs, gelcoat/laminate removal:
blister repairs/prevention:
resins/coatings/techniques:

blisters, paint/coatings: diagnosing/loupe, chisel, and tape, 52:55

blocking: guidelines/placement, 50:38, 58:79, 142:18, 144:4. See also boat stands/jackstands; boat storage blocks: carbon reinforcements/bearings, 45:105; Harken Black Magic Air Blocks, 45:105; Harken Ratchamatic, 45:105; Lewmar’s Sumcpr B;pcl. 78:12

blood clots: cautions/treatment/phlebitis, 41:55

Blount-Barker Shipbuilding: conversion of auto/passenger ferry Freedom to passenger-only ferry, 81:10;

Blount, Donald & Douglas: on powerboat performance tests and Series 62 hull resistance data, 81:10, 128:18

Blount, Donald L.: designer/Defiant 64, 57:123; designer/Rybovich sportfishermen, 25:42; on Destriero’s development program, 109:100; on Destriero’s sea trials, 110:50, 111:4; dynamic stability calculator software program, 126:80; on extension of technology for advancing vessel speeds, 115:6140:34; his book Performance by Design: Hydrodynamics for High-Speed Vessels, review by Dudley Dawson, 153:46; foreign-language versions of Juan Baader book, Cruceros y Lanchas Veloces and Motokreuzer und Schnelle Spoortboote, 111:4; powerboats going faster than hull speed/Series 62 (interview), 128:18, 130:6; profile, 45:3; propeller research, 46:52, 46:62; prototype Outrider 27, bow-ski boat, 78:12; Series 62/PBB interview, 128:18; on tuning twin-screw rudders/floating differential system, 47:5; on professional licensure, 47:24; on weight control, 29:8; on developing a small craft design book, 100:4

Blount, Donald L., and Associates: acquisition by Gibbs & Cox, 160:8; Express 42 (Rybovich Spencer), walkaround sportfisherman, 87:16; hundred knot yacht, 101:82; hydrodynamics testing/Carderock, 42:39; startup of tooling business, 66:110


Blount, Luther: aluminum-fiberglass hybrid construction, 17:19

Blount Marine: Hitech aluminum-fiberglass hybrids, 17:19; 192’ excursion vessel, 3:11

blower: Blue Blower, 6:52

blowgun: applications, 33:64

blow-molding: Prijon kayaks, 29:33

Blue Boat: French Nautical Industries Federation’s (FIN) LePrix du Bateau Bleu (Blue Boat Prize), 94:8

Blue Peter Marine: Hullform design/fairing software, 17:58

Blue Sea Systems: high-capacity DC systems/components, 38:55
Bluffton Millworks: CAD/CAM for interior joinerwork, 40:42
BluWav Systems: electric propulsion motors, 142:26, 144:4
Blyth, Andrew: on studied lac of depth and necessity of hydrostatic stability calculation for open ocean boat sailing, 140:4
Blyth, Andrew, author: “Why Standards Matter,” 129:72
BMP. See best management practice (BMP)
BMW Oracle: rigid wing sails, 133:70; tooling rudder mold and foil components/Turn Point Design, 137:12
boarding ladder: Garelick Manufacturing, 81:10; double-hooked ladder, 81:10
boat, leaving unattended: bilge pumping systems/installations, 57:48, 57:73
boatbuilders: Joe Kitchell, traveling boatbuilder, 153:8; traveling boatbuilder crews, 153:8
boatbuilders' association: Composites Industry Network, 21:12, 28:52
boatbuilding. See boatshops, small; custom/semi-custom/one-off construction; metal construction; production boatbuilding entries; wooden shipbuilding/restoration
boatbuilding apprenticeship programs: ABBRA, 36:74; The Apprenticeshop, 144:10; in New Zealand, 20:25, 54:43, 54:52, 100:24; and Nova Scotia Boatbuilders Association, 100:24; whole-boat training/Quadrant Marine Institute, 162:12; Winter Yacht Basin, 35:25
boat cable. See battery cables; wire/cable, marine
Boat Care Policies (USA) Inc.: blister insurance, 19:59
boat certification. See certification
boat covers: Stamoid Light/tearing and mold resistant covers, hoods, and biminis, 117:8
boat covers: cost/performance comparison, 18:36; Griffolyn TX-1200 polyethylene plastic sheeting, 38:55; shrink-wrapping, 18:28, 18:36, 21:12, 33:69; Transpac II, 26:54
Boatest CD Rom: repair estimate software for recreational marine industry, 81:10
boating activity: dollar value of, 111:120; keeping boating fun and vital, 135:72; Marina Economics website, 111:120; Recreational Marine Research Center/Michigan State University, 111:120
Boating Corporation of America: Stolkraft 4500, 49:42
boating laws: environmental vs. marine trade issues (manatees), 4:18, 5:7
Boating Magazine: powerboat performance testing, 87:4
boating safety: in advertising/marketing, 38:11, 38:12; boat fires, 137:12; boat noise and, 43:75; library, 38:51; lightning protection, 43:64; manual, 32:48; PFDs, 40:62; need for bash-proof keels, 101:128; standardized warning labels, 157:6. See also accidents, boat/marine; collisions; product liability; safety standards, for boats
boat covers: Galva Foam houseboat lift, 16:52;
boat motion analysis, 61:88
boat noise. See noise pollution; noise/vibration control
boat parts: database/BOAT/U.S., 30:54. See also inventory/parts, computer tracking; inventory/parts, purchasing/control
boat plans. See designs/plans
Boat Plans International: source for boat plans, 28:6
Boat Protection Act of 1996: design splashing/legislation, 45:21
boat recycling, 50:82, 160:3, 160:40; recycled fiberglass “concept “ boat/Ryds Batindustre AB (Sweden), 60:82, See also recycling programs, SMC (Sheet molding Composite), recycling programs
boat repair. See repairs/maintenance
boats: new vs. used, 110:118, 135:72;
keeping vital interest in boating, 135:72
boat safety. See safety standards, for boats
Boat Safety Act (1971), 128:8
boat salvage: Bootdump/Bram van der Pijll, 160:40; Salvage Direct, 102:14
Boat School, The (Eastport, ME), 112:10
boat sheds/shelters:Dura-Skrim fibert reinforced polyethylene covers, 155:4; heatable tent, 19:25, 21:12; heaters for,
36:4; heaters for/post-curing, 34:21; at Newcastle Marine, 130:28; polyethylene-roofed/condensation, 35:15, 36:4; PVC/Poly-Steel Shelters, 5:58, 21:12; sources, 35:17. See also boat storage; boat storage, dry; buildings, steel, pre-engineered; tents

boatshops. See boat sheds/shelters; production boatbuilding, plant/facilities; work space


boatshop safety. See worker safety/occupational health

boat shows: American vs. European marketing at shows, 113:12, 115:6; booth setup/staffing/boothmanship, 36:60, 36:64; Dusseldorf Boat Show, 113:112; Fort Lauderdale, 55:16; marine trade association involvement, 4:9, 113:112; marketing/sales at, 23:37, 36:60, 36:64; marketing trends/reader questionnaire analysis, 3:16; megayachts/Superyacht Northwest, 26:51, 34:55; Miami Boat Show/1950s, 57:152; sailboats/Sail Expo, 30:48

Boatside Services: steam-cleaning and contaminant removal, 66:11

boat slings: polyester (Poly-Gripper), 14:57

boat speed. See speed


boatyards/marinas, facilities/equipment; boatyards/marinas, management

boat storage, dry: car-storage Pal-It, 6:52; conditions on wood, 65:38; fire preparedness/prevention, 39:4, 44:18, 44:22; Unistack expandable buildings, 7:64

boat transport: custom tilt trailers, 135:58; equipment/Brownell, 22:32, 60:27, 63:54, 63:70; equipment/procedures/guidelines, 50:38; hydraulic trailers/haulers, 57:133, 63:54, 135:58, 136:4; keel basket trailer, 63:54; large yacht custom built road trailer/Nautor’s Yard, 84:52; shrink-wrapping, 18:28, 63:54; screw pad trailers, 63:54; superloads/overland/Perkins Trucking, 36:33; trailers/point loading/strakes, steps,
and chines, 58:79, 60:5. See also boat 
lifts/hoists

BoatU.S. (Boat Owners Association of the 
United States): complaint support services 
(Consumer Protection Bureau), 12:47; 
damage assessment, 25:18, 66:64; 
independent surveyors, 71:5; 
parts/plans/tooling database, 30:54

boatyard waste 
disposal/reduction/compliance: acetone 
replacements, 33:20, 3:69; 
benchmarking/environmental audits, 20:3, 
20:40, 27:8, 27:61; catalyst neutralizer, 
7:64; certification program, 28:54; 
checklist/resources, 27:8, 27:17; cleaner 
disposal guide, 31:68; compliant finishing 
guide, 15:70; epoxy, 45:105; 
gelcoat/laminate removal (blister repairs), 
16:42; information/customer education, 
31:16, 35:52; management 
strategies/systems/programs, 27:8, 37:66, 
55:26, 55:27, 61:10, 140:18, 144:48; 
manuals/guides, 15:70, 27:8, 27:17, 20:8, 
27:17, 28:48, 28:52, 34:59; paint 
removal/wastewater runoff, 7:8, 12:60, 
29:4, 31:10, 33:75, 44:54, 144:48; paint 
separator, 8:54; photo-curing resins, 18:8; 
pressure-wash systems, 31:10, 31:68, 
33:75, 44:54; runoff collection 
systems/tanks, 6:8, 7:8, 7:13, 7:28, 21:60, 
27:8, 31:10, 44:54; TCLP (toxicity 
characteristics leaching properties) tests, 
33:20; Ultramat, 21:60; with vacuum- 
molding/resin-infusion/SCRIMP 
See also acetone, replacements; air 
pollution; antifouling paint, removal; 
environmental concerns/protection 
measures; spills, fuel/chemical, 
cleanup/containment kits; VOC emissions, 
reduction/compliance; water pollution 
boatyards/marinas, facilities/equipment: 
blocking/jackstands/cradles, 50:38, 52:4, 
53:4, 54:18, 63:54, 130:28; Cut’s Edge 
Harbor Marina, 161:8; docks, 39:44; 
docks/bungee-mooring, 53:64; 
docks/floating/wave attenuator, 53:64; 
electrical service/GFI outlets, 44:18; 
hauling and storage, 63:70, 130:28; 
layout/fire preparedness/prevention, 1:50, 
7:28, 17:34, 26:18, 39:44; rack-and-stack 
storage systems, 161:8; safety/liability, 
52:4, 53:4; shore-power wiring/fire 
prevention, 44:18; yard boats, 42:34. See 
also boat lifts/hoists; boat sheds/shelters; 
fires, boatyard; insurance, property/fire; 
production boatbuilding, plant/facilities 
boatyards/marinas, management: 
accounting/cash flow, 35:25; berthing/fire 
prevention, 44:18; customer service, 2:80, 
3:5, 8:64, 12:40, 19:72, 20:8, 27:46, 
29:54, 31:80, 35:25, 70:120; do-it-
yourselfers/repairs/maintenance, 31:18, 
31:80, 44:18, 52:4, 70:120; electrical 
systems training/certification, 54:32; e-
mail address directory, 38:51; 
environmental compliance/pollution 
control, 27:61, 33:75, 140:18; 
environmental education/workshops, 20:8, 
24:58, 31:16, 35:52, 38:51; 
estimates/work orders/contracts/billable 
hours, 35:25, 37:60, 37:61, 57:74, 127:8, 
70:120; fire preparedness/training/ 
education/prevention/compliance, 1:50, 
7:28, 17:34, 26:18, 39:44, 44:18, 44:22; 
hauling and storage/boat lifting and 
blocking, 50:3, 50:38, 52:4, 53:4, 57:133; 
hauling and storage/contracts, 37:61; 
hauling and storage/decommissioning
inspections, 44:49, 50:38; hauling and storage/fire protection, 44:18; hurricane preparations, 27:18, 27:21; industry profile, 44:3; launching precautions/inspections, 50:38; management manual, 42:16; management skills/strategies, 35:25; management training/education programs, 22:51, 35:25, 35:30, 35:31, 35:52, 64:11; PierVantage web-based management system, 127:8; pumpout grant program, 35:52; purchasing/inventory, 35:25; scheduling, 35:25; subcontractors, 52:88, 54:5, 57:76; survival strategies/staying small, 46:72, 47:5; watch service, 44:18, 44:22. See also antifouling paints/coatings; antifouling paints/coatings, removal/disposal; boat owners/customers; boat yard; boatyard disposal/reduction/compliance; production boatbuilding, business of; production boatbuilding, financial planning/management; fires, boatyard; painting techniques; paint removal; production boatbuilding, management; production boatbuilding, plant/facilities; repairs/maintenance; repair techniques; Travelift; water pollution

Boehmer, Richard: Base Speed Concept in comparison to S number, 133:8; obit, 136:10

BOC Challenge: 1993/scantlings standards, 48:9, 50:5; shore team experience, 65:120. See also Around Alone Race

Boggs, Richard: on Praise for Big Props and effects of large slow-turning propeller vs. smaller, faster-turning propeller, 151:6

Boksa Marine: Carolina-style express sportfishermen/Calyber 35, 115:18

Bolger, Philip C.: comments on DownEast hullforms/Frost 34, 74:5; Fisherman’s Launch Sometime or Never, 120:3; Gadabout/patrol boat in a box, 158:8; on overpowered power boats, 80:4

Bolt Fast fatigue analysis software, 104:22 bolts. See fastenings

Bonar & Flotex, Inc.: Lobosport carpet, 21:26

Bona Sport: Rocket flaps, 34:59

Bonal Technologies: Meta-Lax, 2:12

Bond, John: on VOC regulations/compliance, 10:8


Bond Yachts (Poland): Motorcat 30/Jerzy Kostanski, designer, 86:14
Bonner, Jim: profile/Bonner Aero Marine, 60:10; seeking expansion for production shop, 61:10
Bonner Aero Marine: 28’ sport diesel, 60:11
Bontrager, John W.: on Rod Stephens’ affiliation with Sea Education Association (SEA), 121,9
Boolean operations: vs. feature-based modeling operations, 66:90
Boomeranger Boats Oy: practical impact-exposure testing, 142:52, 150:10
Boomsma: Flushline deck hatches, 34:59
Bootdump: disposal of and recycling boat parts, 160:40
boottop/covestripe: AutoCAD/waterline, 45:86
Bootz, Jeff: on honeycomb cores/applications, 21:4, 22:20
borates solution: for decaying wet cores, 96:16
borescope. See fiberoptic borescope
Borges, Phyllis: on custom castings/patternmaking, 42:46
Borrink, Andreas: on bedding contoured cores, 33:4; on polyester gelcoat/epoxy laminate compatibility, 44:5
Borror, Jim: on Rybovich accessories/hardware production, 14:26, 14:32
Bors, Kim: and Chris-Craft turnaround, 80:48
Bosch Power Tool Corp.: high-speed sanders, 1:68; high-volume dust extractor, 28:38
Boscoprene: 2402 neoprene adhesive, 46:38
Bosna, Alexander: on Copperlok, 8:4
Bostik Corp.: Never-Seez lubricant, 1:68; 920 polyurethane adhesive/sealant, 28:27
Boston BoatWorks: Cepheus IX/Carl Schumacher daysailer, 139:18; custom one-offs to series production, 99:66, 157:50; and Doug Zurn-designed motoryacht MJM34z, 99:52; through-panel penetration repairs, 97:130; tooling and hull/Reindeer V, 57:110; wet-preg epoxy composite construction, 157:50; robust safety program, 157:50
Boston Whaler: and Brunswick Corporation, 102:96; fire/rescue and commercial boats, 2:40; founder/obituary, 38:3; hull concept/construction, 2:38; Impact RIB/foam collar, 40:66; largest model/370 Justice, 130:10; marketing/advertising, 2:34, 2:37, 6:42, 37:48; owners’ manuals, 27:42; RAMCAP process, 102:96; state-of-the-art impregnator, 157:50; yard boat, 42:34
bottom paint. See antifouling paints/coatings; antifouling paints, removal
Botved Boats: Coronet 24/Walt Walters design, 132:36
Bouguere, Pierre: early hydrodynamicist/performance prediction, 60:66
Boulant, Gerard: on Kevlar laminate failure/coeffiecients of thermal expansion, 59:5
boulevardier’s boat: 64:11
Bouma, Sjoerd: Design Challenge/Vrimbo 39 outboard cruiser/Rob Tander, 127:20
Bounty: aging fiberglass boats (laminates), 4:64
bow platform: refit/redesigned bow, 45:86; design for two anchors, 93:76
bow railings: design considerations, 42:88; 114:30
bow rollers: anchor-stowage systems, 22:28; 93:76
bow ski: Outrider 27 prototype/Klem Flying Boats, 78:12
bowsprit, articulating: on custom-built Class 40/Maine Yacht Center, 155:58. See also Class 40
bow thruster: Dock & Go sideways maneuverability/Benetieu’s Sense 50, 130:10; Jet Thrusters with nozzles/Holland Marine Parts, 149:10; low-level short circuit in, 152:58; noise/vibration control, 5:42; on Proa 2000 motoryacht, 67:13; Quick Docking System (QDS) for sailing yachts, 152:6; in surface-effect ship, 65:84
Bower, Jim: on structural standards for recreational boats, 64:5
Bowers, Albert, author: “When Twin Engines Are One Too Many,” 79:128
Bowler, Russ: “The Large Green Sailing Yacht, Defined,” 116:46
Bowles, Jeffrey: response on definition of a totally green hybrid, 154:4
Braatz, Ernest F. (Ernie): on boat plans/parts/tooling database, 30:54; on damage assessment, 25:18; NFPA fire protection standard, 44:18; obit., 44:18
Bradfield, Sam: sail-driven hydrofoil, 139:108
Bradford Marine: painting, 52:54
Bradford, Sam: NF2 (Neither Fish Nor Fowl) hydrofoil-equipped trimaran, 75:14
Bradley, Dick: first chopper gun, 38:30
Brainerd, Alec: Artisan Boatworks/pod drive auxiliary power/Watch Hill 15 daysailer, 137:6
Bramhall, Dan: Cobalt Boats/builder profile, 28:32, 60:104; on cored construction/knitted reinforcements, 29:38; on tooling/fasteners for hull-to-deck joints, 60:104; on robotics for laminating, 20:8; stick-built deck plug, 28:8; on Xycon skincoat, 28:60
Brand, Christopher and Karen: on gelcoat peelers, 13:4
Brandis, Steven: causes of resin volatization and preventative controls, 132:50
Brandon, Bob: on usefulness of technology offered in Professional BoatBuilder magazine, 28:6
Branford Landing: Peel Away stripper, 33:75
Brangan, Adam: on g limits for hull design, 70:5; on structural design for high-speed craft, 72:5
brass: galvanic corrosion, 32:36, 32:39, 33:28; inline plumbing check valves, 120:80
Bray, Patrick, author: “Long Rangers,” 118:22
Bray, Patrick: reducing powering requirements of long-range motoryachts, 118:22
Brazil: Sterling Atlantic 43 motoryacht (SA42)/Greg Siewert, designer, 103:14; Amyr Klink, Brazilian sailor-explorer/Antarctic circumnavigation, 60:11
Brazilian boatbuilding manual: 67:13
breakwater: floating wave attenuator, 53:64; Breathe Easy air purifier, 132:6
Brer Technical Inc.: Turbo Shear face planer, 27:70
Bresnahan, Glen: on omission of Hutchings Manufacturing from dust control article, 85:4
Brewer, Ted: and George Cuthbertson, 92:48; on sailboat market/design, 7:5; on stern/stern configurations, 27:4; on the ideal blue-water cruiser/Jay Paris rendition, 75:5
Brewer Yacht Yard: boat moving/storage, 52:4; hurricane salvage, 20:6
Brierley, Ernest M.: Brierley 30, 44:49; DuraKore boat design, 1:20; Mandalay, 53:28; on manual lofting, 24:30; obituary, 41:3, 41:5
brightwork: materials/costs/time-saving tips for production boat models, 154:22
British Columbia Research Inc.: Ocean Engineering Centre/model testing, 56:26, 56:38
British Red Cross: aluminum landing craft for/Specialty Marine Contractors, 100:12
British Seagull motor handbook, 141:30
Brodie, John: response on China Sail Factory safety issues, 146:4
Brogdon, Capt. Bill: on concrete/moorings, 31:4
Bronstein, Jim, author: “The Price Is Right,” 70:120
Bronstein, Jim: on boatyard management, 35:25
bronze: keel fasteners, 38:20, 39:4; galvanic corrosion, 32:36, 32:39, 33:28
bronze, manganese: casting, 42:46; galvanic corrosion, 32:39, 33:28
bronze, red: casting, 42:46
Brooke, John: on emerging third-world economies and free-trade disadvantages for U.S. workers, 103:6; on hybrid marine power, 111:4, 143:6; on tuning twin-screw rudders, 47:5
Brookes, Doug, designer-builder: sailing catamarans/St. Kitts, 119:28
Brooks, Al: on DuraKore, 15:34
Brooks Marine Group: recruiting firm for marine industry, 149:84. See also Harrell, Neal, author
Broward Marine, Inc.: aluminum construction, 24:34; megayachts, 55:16
Brown, Allan: profile of, 104:100
Brown, Darrell: on interior design, 6:34
Brown, David G., author: “Priced Out,” 107:112
Brown, Jay: toolmaker/Bay Ship & Yacht, 21:36, 21:42
Brown, Jim: on International Executive Service Corps (IESC), 23:4; Searunner Catamaran/charter vessel, 36:74; WindRider/rotomolded trimaran, 52:12
Brown, Jim, author: “The ‘Cattlemaran’ and the ‘Kaimarak,’” 22:64; “Foil Train
Brown, Peter: on preparing for future, 1:5
Brown, Russell, designer: Design Challenge, 122:24; Eppler foil, 74:82; wood/epoxy power and sail boats, 130:52; plywood epoxy kit boats, 150:72; *Epoxy Basics* book, 150:72; podcast and outrigger powerboats, 130:52
Brown, Russell: Design Challenge, 122:24, 130:52
Brownell, Fred: building profile/Brownell Boat Works, 22:32, 63:54
Brownell, Tom: Brownell Boat Works/boat-handling equipment, 22:32, 22:36
Brownell Systems Inc.: submersible hydraulic trailers, 22:32, 63:54, 63:70
Bruckman Yachts: Abaco 40/Mark Ellis, 138:32, 139:74, 147:10; Buckmann daysailer, 139:74; diverse projects in time of 2008 recession, 139:74; Erich Bruckmann obit, 135:6; *Nepenthe*, Alan Gurney design, 152:4; Pilot 39/Mark Ellis, 138:32; and Ventana Motor Yacht, 138:32
Brunswick Technologies Inc. (BTI): 2415 binderless mat, 18:54; 3205 biaxial (0-90, 45/45), 18:54; 4815 (0-90), 18:54; 5608 quadraxial cloth, 44:30; CO-FIL Z-axis-stitched binderless mat, 17:11, 36:34, 37:48, 42:62
brush, tip-off: making/using, 8:52
brushes: for varnishing, 19:36
Bryan, Harry: on Halon-based fire extinguishers/environmental concerns, 17:4
BTM Corp.: plastic clamp, 24:62
Buchanan, Guy: on stacking sequence/laminate strength, 53:4
Buddingh, David S.: on marine and RV use/smoke alarms/CO detectors, 91:10
Buehler, George: on moorage fees, 24:4; on survey disclaimers, 38:4
Buehler, George, designer: custom aluminum trawler, 111:12
buffer/polisher: Polishmaster 2000, 20:56
buffing compound: Finesse-It, 19:36
buffing pads: for gelcoat, 15:44
bulb: bulb on bows/longitudinal center of buoyancy (LCB), 78:46
builder’s (product) liability. See insurance, liability, product/builder; product liability builder’s contracts/estimates/bidding: arbitration clause, 12:40; change orders, 12:72, 37:60, 37:61, 40:24, 40:36; change orders/weight, 44:5; and collections/deadbeats, 27:61, 29:54, 37:60; computer database/wooden ship reconstruction, 21:38; for custom/semi-custom construction, 12:72, 25:42, 44:30;
burns: medical supplies for, 8:54
Bury, Paul, designer: Unity 24
    motorcruiser/Seakeeper gyroscope stabilizer unit, 120:4
Bush Boake Allen: BBA Solvent F302, 33:20
business. See accounting; boatshops, small; boatyards and marinas, management; production boatbuilding, financial management/planning; production boatbuilding, business of
Butler, William L. III (Bill): on bilge pump systems/installations, 59:5; on galvanic isolators/capacitor vs. non-capacitor, 43:5; on marine hose installations, 51:6; on wet-exhaust systems, 46:5
Buzzards Bay 14 sloop: and Northwest School of Wooden Boatbuilding, 137:44
Buzzards Bay 30 sloops: restoration of three sloops by French & Webb, 115:184; whereabouts of additional original Buzzards Bay sloops, 115:184
Byington, Tracy: CAD/CAM systems implementation/study, 58:13;
    Byk Chemie: 740 additive (styrene suppressant), 8:28
Bynes, Graham: Design Challenge, 122:24
    Byrnes, Carla: on product quality/building standards, 5:7
cable ties: Cobra Cable Tie, 74:9; nylon/Strap-Loc, 6:52, 47:66
Cabo Marine/Cabo Yachts: cored bottoms, 51:22; Coremat applications, 7:50; profile of, 91:96
Cab-O-Sil: controlling resin drainout, 33:46, 42:62; for core closeouts, 97:130; Commuter 36/Magic hull bottom, 130:20
Cabot Safety Corporation: sound-absorption composites, 12:60
CAD/CAM (computer-aided design/computer-aided manufacture):
computer hardware/selection/sources/costs, 8:35, 9:5, 40:52, 40:53, 66:90, 71:106; computer integrated manufacturing (CCIM), 67:110; computer software/applications/sources/costs, 7:18, 8:35, 17:58, 40:42, 40:52, 40:53, 57:88, 61:106, 66:90, 71:106, 90:13, 159:60; control station/ergonomic analysis, 48:66; design mock-ups, 40:42, 40:48, 65:97; 137:12; for DuraKore strip construction, 15:34; for fabric cutting/stitching/tailoring, 57:88; Faro Arm measurement data device for modifying existing boat dimensions, 78:94; for fiberglass tooling, 61:102, 71:106; FiberSIM software, 85:10; Finite Element Analysis/panels/loading, 45:62; implementation study, 58:13; initial graphics exchange specification (IGES), 159:60; laminate kits, 35:58, 85:10; laser-scanning technology, 159:60; Macintosh vs. MS-DOS operating systems, 8:35, 9:5; MaxSurf, 159:60; for metal construction, 38:38, 63:145; modifying designs of existing boats/Owen Clarke Design (U.K.), 159:60; for outfitting (harnesses/rialing/piping), 40:50; Naval Designer integrated hull-design workshop, 90:13; parametric design, 40:42; planar sheer, 27:4; problems/divergence/interiors, 40:24, 97:10; for small boatyards/builders, 13:43, 58:3, 58:66; 3-D Modeler, 7:64; 3-D modeling/cabinetry, 13:43; 3-D modeling/metal construction, 38:38; 3-D modeling/right-of-way/outfitting, 40:24, 40:50, 71:106; Solidworks software/use of at Owen Clarke Design, 159:60; theodolites, 159:60; tooling, 66:110, 137:12; training/resources, 7:25, 38:14, 38:47; at Turn Point Design, 137:12; use at Southampton Institute, 61:26; for stability analysis, 150:88; for waterline/striping patterns, 45:86; WinDesign velocity performance wind prediction program, 159:60; for wood interior joinerwork/cabinetry, 13:43, 40:42, 40:52, 40:53. See also computer hardware, for CAD/CAM; computer software, hull design/fairing; computer software, lofting/parts generation; lofting; metal construction, CAL/NCC (computer-aided lofting/numerically controlled cutting); numerically controlled (NC) lofting/cutting
CADKEY: design software/interiors/cabinetry, 13:43, 40:52
Cady, Blake: Freedom 36/38 bow redesign, 45:86
Cain, Jerry: on drivetrain fundamentals/aligning couplings, 73:5
Calcutta Marine: Calcutta powercat and Calcutta 480, 162:12
CAL/NCC (computer-aided lofting/numerically controlled cutting):
Calder, Nigel: on advertorial material from freelance writers, 156:4; on battery paralleling/charging/cycling, 41:5; Boatowner's Mechanical and Electrical Manual/review, 43:83, 138:6; on boatbuilding in advanced economies vs. economically undeveloped nations, 102:120, 103:6; Cape Dory 28 refit/Paul Calder, 138:6; on controllable pitch propeller/diesel-electric efficiency, 111:4; response on connecting lithium cells, 124:6; response on cost of existing lithium battery packs and Battery Management System (BMS), 122:6; on DC wiring/cable selection, 22:4; on differences between lithium-ion and NiCad batteries, 121:9; on double-clamping/marine hose installation, 51:6; on galvanic isolators, 33:4, 43:5; response on hybrid conundrum and permanent magnet DC motors, 144:4; response hybrid propulsion, 143:6, 144:4; on isolation transformers and whole boat ground fault protection, 105:4; on the NMEA 2000 power systems, 99:4; response on Praise for Big Props and mismatch between propeller curves and engine fuel maps, 158:4; response on safely run over-propped engine/wide open throttle limitations, 151:6; response on requirement to use turned cables in either ABYC or ISO standards, 158:4; on specificity of heat from various liquid substances for marine refrigeration, 92:4; on “Systems Audit at Pacific Seacraft,” 61:5; profile, 43:83; on refrigerant phaseout/retrofitting, 18:4, 28:6, 30:54, 31:4; response on using lithium battery packs from wrecked automobiles for boat
use, 150:4; “Running the Numbers,” 120:52; on salvaging drowned engine, 47:5; on sizing electrical cables, 37:4; on testing ground wire circuits, 102:4


Callahan, Steven, co-developer of The Clam, folding rigid inflatable boat (FRIB): 71:6; 130:6; revamped Tencara 43 cat, 127:56

Callan Marine: Callan 55, high-speed boat, 66:11; Tencara 43 catamaran raceboat, 119:6

Calpyso Inflatables: trademark conflict, 14:2

CAM (computer-aided manufacturing). See CAD/CAM (computer-aided design, computer-aided manufacture); CAL/NCC (computer-aided lofting/numerically controlled cutting); metal construction, CAL/NCC (computer-aided lofting/numerically controlled cutting) applications; numerically controlled (NC) lofting/cutting equipment

Camarc Design (Scotland): composite fast patrol boat for African navy, 147:10

Cambridge Wire Cloth Company: Poly-Gripper boat slings, 14:57

Cameron, Murdo: advanced composites replica P-51 fighter, 128:8; composite program at North Idaho College, 148:10; composite vintage outboard replicas, 144:10; Miss Spokane Unlimited-class hydroplane replica, 128:8

Camille Data Acquisition system: styrene emissions testing, 40:17, 40:18

Camp, Robert C.: Benchmarking, 20:40

Campbell, John: on lightning protection systems/dissipators/impulse suppressors, 43:64, 46:5

Campbell, Lorne F.: Bladerunner, tunnel-hull design, 72:10; on Crouch’s formula/estimating speed, 53:4; on dynamic instability, 34:5; on stepped hulls, 65:5; 93:4

Campion Marine: bioresin/biodiesel boats, 143:52; fibertoon pontoon boats, 143:52;
green technology/materials/market trends, 143:52
Canada: model basins, 56:26, 56:38. See also British Columbia; Newfoundland; Ontario
Canada Metal Pacific (CMP): cadmium-free aluminum and magnesium anodes, 157:94
CAN (Controller Area Network): CANbus wiring system/three-cable boat, 98:50; vs. Victron’s V.E. Net, 98:50; EmpirBus, 98:50
Cancro, Nick: on LED interior lights/Sensibulb with thermal control circuit, 117:5
candela: vs. lumens, 87:80
Cannella, Anthony: on transmission thrust bearings, 121:9
Canning, Wayne: bucket-and-roller laminating/lobsterboat hulls, 45:76
canvaswork: design/airflow/carbon-monoxide back-drafting, 45:32; patterning for dodger, 29:54
capacitor starting system: Micron PowerPak, 153:8. See also Micron Corporation
capacity: jet boats, 36:50, 38:12; safety standards, 36:50, 38:11
Cape Dory 40: underwater exhaust for, 90:34
Cape Dory Yachts, Inc.: auctioning of, 13:70; and Carl Alberg, designer, 77:104
Cape Fear Community College: boatbuilding vocational training program, 20:18; catalyst measuring system, 29:51
Cape Horn 65, steel trawler yacht: Nova Scotia Boatbuilders Association, 77:10
CapeLine, fully automatic convertible canvas top for flybridge, 108:16
Capi1 distributed power systems, 131:46
Capi2 distributed power systems, 119:38
Capolupo, Frank: Rule 1162 development, 26:34
Capri Sailboats: purchased by Catalina Yachts, 61:10
Caprio, Dennis, author: “Lyman-Morse,” 97:82
capsize: capsize waterline, 139:54; Didi 38 (Black Cat) capsize/Dudley Dix, 149:20, 153:52; E4 motoryacht/capable of 360° rollover/Elling Yachts, 158:54; knockdowns and inversions, 140:4, 149:20; loss of ballast and, 23:24, 23:26; righting moment/stability, 23:24, 23:26, 139:54, 140:4, 149:20, 153:52; survival at sea, 23:24. See also stability, dynamic
Cape to Rio Race (2014): capsize of Didi 38 (Black Cat)/Dudley Dix, 149:20
Carbide Corp: drill bits for sample cutouts/plugs, 49:25
Carbodur strip: pre-cured beam material, 61:34
carbon and Corecell P and M foam hull/Inoui, 162:14


carbon filament: hull construction, winding filament around a mold, 61:10


carbon monoxide detectors/alarm systems: ABYC standards/"What to Do When the Alarm Goes Off," 117:18; as a standard on theEdge motorsailer/Hunter Marine, 116:10; Nest Protect Smoke and CO detector via smartphone app, 151:12; requirements for CO detectors, 137:22; using chemical/electrochemical sensors, 45:32; using Figaro semiconductor, 45:32; Fireboy/Xintex, 45:32; Marine Technologies, 45:32; nuisance/false alarms, 45:32; types, 39:90, 45:32
carbon tapes: for structural reinforcement/flat-panel construction, 45:62

Carbospars Ltd.: AeroRigs, 60:11; survival pod, 54:18


Carey, Merritt, author: “Law of the Yard,” 103:34

Cargocaire Engineering Corporation: dehumidifier/blister repairs, 16:41
car lift, hydraulic: ClearLift for use in small-craft repair, 71:6

Carlson, Larry: on Prop Scan/propeller pitch, 42:74

Carnell, David: on propane refrigerant, 27:4; on vacuum-drying, 10:4

Carolina Skiff: two new lines/Sea Chaser Bay Runner and Tunnel Skiff Series, 149:10

Car Pal, Inc.: Car-Pal-it/car storage in boat dry-storage areas, 6:52

carpet, marine: Alpha, 6:52; Fiberton electrostatically shot carpet fibers, 77:10; installation/runners for, 32:15; Lobosport, 21:26; MBX Metal Blaster tool for, 85:10

Carrier, Steve: on affixing hull identification numbers, 59:5

Carroll, Barry: Summit 40 and Summit 35 sailboat racers, 123:10


Cartwright, Bob: on Merritt’s Boat and Engine Works, 63:5

Carver, Hugo: comments on boat supports and oversized propeller and engine manufacturers, 159:4; on Show Your Work, Not Your Business Card and being a NAMS or SAMS member, 162:6

Cascade Pacific Industries: custom industrial plywood/Boat Ply, 16:12, 27:42

Casciani-Wood, Jeffrey N.: on sizing zinc anodes, 34:5: on question of laminate density and quality affecting meter readings, 104:4

CASDE Corporation: VARTM fabrication, 48:35

Cassidy, Jim, author: “Insuring the Ethanol Transition,” 102:33

Cassidy, Jim: on Sparkman & Stephens Designer’s Recognition Rendezvous, 75:5

Cassis, Frank: Rule 116 development, 26:34
Castro, Tony: Elan Power 35 boat, 85:10
Castrol North America: Super Clean engine cleaner, 38:55
Caswell, Chris: on Windward Passage and memory of water skiing/Rolex Big Boat Series race, 152:4
Catalina Yachts: builder profile/product development/ancillary equipment, 35:34; interior design, 6:34; purchase of Capri Sailboats, 61:10; Rule 1162 compliance, 25:8; sailboat market, 30:48, 65:11
catalogs, components: interface data/descriptions, 47:80, 49:4. See also PILOT catalogs, industrial safety: Tennessee Mat Co., 23:54
catalogs, tool. See tool catalogs
catalogs/product brochures, builders’: for boat shows, 36:60; for canoes/We-no-nah, 49:40; interactive, 38:51; low-budget, 23:37; photorealistic/animated alternative, 40:48; production tips, 3:16, 4:50, 6:5; and product liability, 38:11, 38:12. See also product literature
catalyst, paste: benzoyl peroxide (BPO), 33:46

Caterpillar Marine Power: engine supervisory system (ESS), 14:34; footwear, 53:12; Web site, 43:17 cathode: hot and cold fluorescent lighting, description of, 87:80
Caudwell Marine Axis Drive: through-the-transom drive system, 117:8
caul plate, 123:32
caulk. See adhesive/sealants; sealants; silicone caulk
caulkers: job market, 21:42
caulking/reaming/reefing tools: BoatLIFE Hot Knife stripping tool, 10:52; caulking gun/Drill-Mate, 13:70; caulking gun/pneumatic, 33:64; custom fabricated/ship reconstruction, 21:42; oscillating caulking cutter, 45:105; panel saw/power-reaming, 21:60
caulk remover: Sika Sealant Remover, 2:70
Cavanaugh, J.E.: on internal vs. external mix equipment, 2:4
cavitation, propeller: noise/sound control, 5:42, 67:70; surface drives and, 2:52
CBTF (Canting Ballast Twin Foils) boats: hydraulic ram, 92:6
C-class boats: aerodynamics and geometry of wing sails, 133:70. Canaan and Alpha, 133:70, 134:42, 151:110; Fill Your Hands dual daggerboard, 151:110; L-, J- and S-shaped daggerboards, 151:110; lifting foils, 151:110;
C-Dory: 22' planing dory, 23:41
CE (European Certification): ABYC’s seminar “Exporting to Europe,” 84:18; boat export compliance standards, 63:38; compliance with electrical installations, 75:22; ignition protection, 75:22; rulefinder.net online service, 100:4
Celanese Corporation. See Hoechst Celanese
Center for Marine Vessel Development and Research (CMVDR): model-towing tanks, 64:11
Center for Naval Analyses: Russian internships, 35:52
Centurion 45: Berret Racoupeau Yacht Design, 77:10
Ceramco New Zealand: Bruce Farr design, 61:66
CeRam-Kote, Freedom, Inc.: ceramic-epoxy coating, 54:18
Cerasia, Ed: on paint booth engineering, 42:24
Cerny Island Trail 22 design: one off construction/Cerny Yacht Design/Design Challenge, 135:36
Cerritos College: vocational training program, 21:12
Cetrek, Inc.: Dataline integrated navigation system, 6:52
CFCs (chlorofluorocarbons),
- phaseout/restrictions/replacements:
  - flotation foam, 2:28, 2:31, 24:62; R-12 refrigerant, 16:35, 17:4, 18:4. See also flotation foam; R-12 refrigerant
CFRP (carbon fiber reinforced plastic). See carbon fiber laminates (CFRP)
Chabot, Randy: on outsourcing/quality control, 35:4; on through-hull installation, 10:4
chafing gear: hurricane preparedness, 30:8
chain, anchor: swivels for, 30:8
chain hoists, pneumatic: applications, 33:64; Gardner-Denver P2 Series, 41:62
chainplates: carbon-fiber reinforcements, 28:18; corrections for under-sized chainplates, 160:4; dye penetrant/thermal imaging testing, 159:50; failure and correction for forestay chainplate defects, 157:112; and fiberglass decks/Malo Boats, 82:58; inspecting and replacing, 159:50; polyurethane bedding compound to stop corrosion, 159:4; repair of, 82:22, 159:50; stainless steel bushings for, 157:112; stainless steel vs. titanium, 159:50
chairs, ergonomic: Aeron chair, 34:31, 34:32
Challenger Marine: Dudley Whitman obit, 133:12; early days/FRP development, 103:186, 104:100, 133:12; Crystaliner boats/Don Mucklow, 105:4; failure and correction for forestay chainplate defects, 157:112; Marco method production boat, 103:186; stainless steel bushings for, 157:112
Chamberlain, Nancy: on acetone replacements, 33:20, 33:26
Chamberlain Group, Inc., The: Polishmaster 100 buffer/polisher, 20:56
Chance, Britton, Jr.: on computer lofting/fairing, 25:4; MacSurf design software, 8:35; obit for, 141:6; 65' sloop Amoco Procyon, 6:20, 10:42, 37:66
Chance, Jim: on SOLAS (Safety of Life at Sea) requirements, 78:7
Chandler, Dick: on C. Raymond Hunt hulls, 112:4
Chapin, Bart: on original Hampton boat model/Dick Pulsifer/Charles Gomes, 108:6
Chapin, E. Barton III, designer: company address change, 65:11; four-way hatch hardware, 64:11; on reminisces of associations with Jay Paris, Dave MacPherson, and Paul Coble, 91:12
Chapman, Michael J.: on catalytic heaters, 8:54; on fabric impregnators, 7:5
Charger 40, electric cruiser: conversion to semi-planing hull, 77:82; propulsion battery tanks for, 77:82
charging systems; . See alternator, high-output; batteries, marine; voltage regulator, stepped/smart
Charles Industries: Intelligent Marine Charger (IMC) programmable DC output charger, 135:6
Charles Marine Products: ISO-Boose transformers, 45:105; ISO-Transformer, 45:105; SmartBoose circuitry, 45:105
chartering/charter boats: catamarans, 36:74, 45:120, 47:5; cored bottoms, 51:22; regulations, 27:80, 37:34, 59:44; sailboat market, 30:48; T-boats/Passenger Vessel Safety Act, 37:4; trimarans, 52:12. See also flats-boat market/flats skiffs; passenger vessels
chart tables: design considerations, 11:9, 11:19
Chase, Eric: *Cogito* construction, 39:30
C-Hawk Boats. See Tri-State Custom Fiberglass
*Cheers* project, 122:40
Chemco Mfg. Co.: floor protector, 14:57
Chem-Grate Corp.: anti-slip products, 23:54
Chemical Compliance Consultants Corp.: maintaining OSHA standards/VOC limits, 1:30; Responsible Marine Program, 28:54; water pollution prevention/regulations/compliance, 31:10, 31:18; worker training programs, 13:54, 13:65
chemical hazards. See hazardous materials; worker safety/occupational health
chemical reactions: monitor/Accucure, 52:12
chemical resins, 3:19, 42:62, 45:105; to polyester resins, 36:88; Multiple Chemical Sensitivities (MCS), 36:88, 38:6; to vinyl ester resins, 42:62. See also worker safety/occupational health
chemical spills. See spills, fuel/chemical, cleanup/containment kits
chemical storage: buildings, 4:58, 27:8; drum containers (Enviropac), 9:56; plant layouts, 17:34; resins and gelcoats, 15:13; vinyl ester tanks, 6:10
chemistry: boatbuilder as cook, 10:64, 14:2, 14:57; product quality/work safety, 6:64; technical assistance/process control (resin manufacturers), 39:27, 42:52, 43:96. See also catalyst, mixing/metering; resins
Chem-Tech: Dualite microsphere fillers, 11:52; Redimix gun, 6:52
Chem-Trend, Inc.: Mono-Coat RPM mold release, 5:26, 12:27
Cheoy Lee: 58' and 70' sportfishermen, 1:22; Hin Lee Shipard (Doumen, China), 128:38; *Mazu* hull No. 5,000, 128:38; steel built tug boat, 103:112; profile of, 103:112
Cherubini Yachts: profile of, 112:28; Cherubini 44 ketch, 112:28; composite trawler yacht *Independence*114:20; and Molokaʻi Strait series motoryachts 114:20
Chesapeake Sailing Yacht Symposium, 82:8; Hugo Myers/speed prediction of sailing yachts, 121:50
Chiboucas, Pete: on battery recharging, 19:50
children and boating, 118:80
China: production boatbuilding, 103:72, 128:38; ABYC’s International Standards Summit, non-participation in, 104:96; domestic boat market, 128:38; Flying Eagle Boatbuilding, 119:6; High Modulus B3 Smart Pac box kits, 121:100;
sailmaking competition/technology, 145:66
China Sail Factory, 109:156; 145:66; safety/nap roller issues, 146:4; sail
hardware, 145:66; sailmaker's sailmaker, 145:66;
chines: defects in, 70:92; Didi Mini Mk3
radiused chine, 152:16; FRP construction,
58:79, 60:5, 70:92; hard/design software,
33:69; point loading/trailering, 58:79, 60:5;
stepped, 46:16; 58:79
chisel, floor: modified for laminate repair,
23:20
chisel, impact: applications, 33:64
Chittum, Hal: epoxy compatible resins and
Chittum skiffs models, 139:30. See also
Hell's Bay Boatworks.
chlorine in freshwater tank, 130:66
chlorofluorocarbons. See CFCs
Choate, Dennis: profile/Dencho Marine,
126:56
chocks: installation/hurricane damage, 30:8
chopper guns: calibration/controlling resin
content, 59:30, 71:38, 74:30;
evolution/selection/applications, 3:54,
38:30, 71:38; Gemini-VR, 10:52, 31:68;
maintenance, 3:54, 15:13. See also
fiberglass fabrics/reinforcements,
chopped-strand (chop, roll mat)
Chris-Craft Mahogany Runabout
Corporation: CAD/CAM applications, 7:18,
8:35, 40:42; the cachet of Chris-Craft,
80:3; Cobra model, 80:3; composite
stringers/PRISMA, 41:62; FRP
construction, 38:30; pressure-treated
industrial plywood/lab testing, 27:42;
Golden Age of, 80:48; Outboard Marine
Group (OMG)/revamping, 80:48; print-
through control, 7:50; restoration of 1965-
vintage Commander 27/JB, 156:54;
Roamer restoration, 4:30; 24' runabout,
2:12; 22' Tournament Fisherman
model/Pacific 22/Wayne Mooers, 98:12
Christensen Yachts/Shipyards: ABS
classification, 39:80; megayacht
construction, 2:42, 12:50
Christian, Andy: on isolation transformers
and trip thresholds, 105:4; on
Whisperprop propulsion system, 99:4
Cristos, Jose: on method to display hull
identification numbers, 61:5
chrome: chromate paints/aluminum boats,
37:36; residue/hazardous waste disposal,
37:36
Ciba Composites: epoxy pre-pregs, 25:59;
Nomex honeycomb core, 22:20, 32:21,
Cichanowski, Mike: builder profile/We-no-
nah Canoe, 49:36, 49:40
Cigarette 18 (fast offshore cruiser): 64:64
Cigarette Racing Team, Inc.: honeycomb
cores/applications/techniques, 22:8,
22:20; hull-to-deck joints/shoebox
construction, 60:104; in-house machine
shop, 48:56; Kevlar/carbor-fiber
reinforcements, 28:18, 61:34; laminate
bulker/print blocker applications, 7:50;
profile/management, 12:10;
quality/construction details, 12:10, 12:18;
38' speedboat, 1:20; supercharged gas
inboards, 17:44; 20' Cigarette, 37:66;
tabbing procedures using Flexi-resin,
65:84; using steps to increase
speed/Michael Peters, 127:56; vinyl
esters, 28:18, 42:52; workers’ comp
premiums, 24:11; worker training, 12:10,
13:54; woven reinforcements, 29:38. See
also Jenkins, Valentine (Val)
CIGNA Marine Loss Control Services:
damage assessment/repairs, 25:18
CIM (computer-integrated manufacturing):
Perception financial planning/production software, 23:50

Cinderella II: hull bottom repairs, 126:18


circumnavigations: Antarctic, 60:11; in custom aluminum trawler/Ben Gray, 111:12; record under power, 50:11, 55:16; record under sail, 55:16; research vessel Starship, 57:123. See also Around Alone Race; Millennium Round the World Race; Trophee Jules Verne; Whitbread Round the World Race

city ship. See floating city ship.

Clam, The: folding rigid inflatable boat (FRIB): 71:6

clamp, E-: Original English E-Clamp, 10:52

clamp, universal: Boa-Constrictor, 33:75
clamping: vs. vacuum-bagging, 1:58
clamping, vacuum (pressure). See vacuum (pressure) clamping

clamping jigs: for laminating frames, 13:8
clamps, aluminum: for handling carbon fiber, 47:34

clamps, angle, auxiliary: Bessey, 24:62
clamps, bar: pistol-grip/Quick-Grip, 1:68, 49:79

clamps, C-: Bessey three-way, 24:62; COX Solo 100, 24:62
clamps, custom fabricated: for wooden ship restoration, 21:42
clamps, four-way: Bessey K framing jig, 5:58; Dyna-Pressure, 12:60; Equi-Pressure Clamp (edge-gluing), 2:70
clamps, hose: ABA Sure-Seal, 9:56
clamps, irregular angle adapter for: Bessey ES, 18:54
clamps, irregular/open design: Crab Clamp, 41:62
clamps, one-hand: Clamp-It, 15:70; Solo clamp, 33:75
clamps, pipe: PowerPress, 49:79
clamps, plastic: BTM, 24:62
clamps, stainless steel: Asian-built boats using mild-steel P-clamps, 152:58
Clark, Roger H.: on boat moving/storage, 52:4
Clark, Steve: Cogito/C-class catamaran, 39:30
Clarke, Damian P.: on moving up to a 24-volt DC system, 77:5
Clarke, Dean Travis, author: “Why Aren’t More Manufacturers Building Power Cats?,” 45:120

Class C Catamaran, Cogito, 61:34

Class 40, shorthanded ocean raceboat, 155:58; Akilaria RC, 155:58; articulating bowsprit, 155:58; safety record, 155:58
Class 950 raceboat, 152:10; Basic Rules, 152:10

Classic Yacht: Copper Coat antifoulant, 1:68

Classico Boats: digitally imaged, fade-proof surfaces for deck and interior decorative panels, 02:14

classification: ABS/LR codes, 39:86, 39:88; ABS superseded by ISO/small yachts, 48:8; certification/aluminum construction,
clips, metal: Clinch-Fast, 10:52
closed-molding. See laminating techniques, closed-molding
cloth. See fabrics, marine/upholstery;
   fabrics, specialty; fiberglass
   fabrics/reinforcements entries
cloth, laminating. See fabrics, specialty
   (laminating); fiberglass
   fabrics/reinforcements
clothing, work/protective: air-cooling vest,
   29:58; fabric/static/dust and, 22:12;
footwear, 3:19; for foundrywork, 42:46; for
   welding work, 85:4; in hot weather, 29:58,
   33:46; protective suits, 3:19, 4:58, 23:54,
   33:46, 64:5. See also goggles; gloves;
   personal protective gear; suits, Tyvek
cloud-based systems: Wheel House
   Technologies, 137:34
CNC (computerized numerical cutting). See
   numerically controlled (NC) lofting/cutting
Clymer Publications: British Sea Gull
   Service-Repair Handbook, 141:30; Pro-
   Series handbooks, 141:30
coal-fired steamboats, 134:6
Coastal Climate Control: ozone-clean marine
   refrigeration systems, 26:17
Coastal Cold Molding: customer
   education/workshop, 24:58
Coastal Motor Boat: load-carrying stepped
   hull boat/Sir J. I. Thornycroft, 85:76
Coastal Prop Technology: Prop Scan, 42:74
Coastal Zone Management Act: non-point-
   source pollution regulation, 18:64, 27:8
CoastDesign: Autoplate/Autoship/Autoyacht
   software, 8:35, 17:58
Coast Guard, U.S. See U.S. Coast Guard
   coatings, drag-reducing: Sea-Slide, 14:57
   coatings, for metal buildings: Kynar, 26:18;
   Galvalume, 26:18
coatings/paints: adhesive films, 57:88; Basic
   No-Blush epoxy, 86:14; defensive painting
   techniques, 52:54, 52:55; Fire Deer fire-
   resistant epoxy coating/Progressive
   Epoxy Polymers, 86:14; heated locker for,
   52:81; LTC 38/Progressive Epoxy
   Polymers, 86:14; underwater epoxy,
   86:14. See also antifouling
   paints/coatings; electrochromic coatings;
   epoxy paint; gelcoat; linear polyurethane
   paints; paint; paints/coatings, exterior;
   paints/finishes, interior;
   varnishes/varnishing; etc.
Cobalt Boats: builder/construction profile,
   28:32, 60:104; closed-molding shop,
   90:84, 113:28; cored construction/knitted
   reinforcements, 29:38; deck plugs/tooling,
   28:10, 60:104; hull-to-deck joints, 60:104;
   safety-related design, 15:50; ventilation
   system/plant layout, 28:32, 35; 113:28;
   Xycon skincoat, 28:60
cobalt naphthenate: introduction of, 38:30;
   promoter for vinyl ester resin, 6:16, 35:4,
   44:30
Coble, Paul Valen: on keel fasteners/galling,
   38:20; obit, 149:10; profile of, 88:46;
   propeller nut installation protocol, 149:10;
   surveyor tricks, 149:10
Coble, Paul Valen, author: "Respect Where
   Respect Is Due," 14:64
Cobra Cable Ties, 74:16, 76:10
Cockburn, Conrad: on navigating a Sea of
   Standards and scantling standards, 155:4
Cockerell, Sir Christopher: hovercraft
   inventor obituary, 61:10
Cockey, David: on seated eye height
   comparison to overall height of male and
   female U.S. Army personnel, 143:4
cockpit: design considerations/safety, 42:88,
   48:66, 48:79, 93:98; design
considerations/small power cruiser, 39:67, 93:98; drainage systems/ABYC standards, 117:18. See also dashboards; seats/seating; wheelhouse
cockpit soles: encapsulated plywood vs. fiberglass, 40:54, 41:5
Cocquyt, Andre: and Advanced Composites Training program, 110:12; on resin chemistry use in closed molding process, 68:5; Stuart Catamarans, 50:11; on developing results for Hydromat (ASTM D6416) testing, 71:5; GRPguru.com, 78:12; temperature-controlled molding (TCM) and controlled radical polymerization (CRP), 125:54
Code casa (Italy), 108:62
code (numeric control code): “Breaking the Code,” 61:104
Codega, Lou: engineer/Hines-Farley 63, 54:56, 54:62; on model testing vs. computer prediction, 55:32; on molded integral grid systems, 46:28
Codega, Lou: design requirements for Advanced Composite Riverine Craft (ACRC), 146:24; engineer/Hines-Farley 63, 54:56, 62; on model testing vs. computer prediction, 55:32; on molded integral grid systems, 46:28
Coecles Harbor Marina & Boatyard: heatable storage tent, 19:25
coefficients of thermal expansion (CTE): distortion of steel and fiber composites, 136:56; and Kevlar laminates, 59:5; tooling-material choices, 136:56
coeextrusion: of thermoplastics, 10:34, 11:20, 34:59
Coffay, J. Brian: on speed prediction/Wyman’s vs. Keith’s formula, 57:7
cold-forming machine: Blue Wave portable machine, 104:22
Cold Jet dry ice blast medium, 141:6
Ullberg-designed sportfisherman, 81:10.
See also fabric impregnators; vacuum-bagging; wood laminates
Cole, Jack: Rule 1162 compliance/Skipjack Boats, 25:8
Cole, Stephen A., author: “Paddling to Profitability,” 4:34
Coleman Company: Ram-X canoe, 4:34
Colin, R., Construction Inc.: pre-engineered metal buildings, 42:24
Collamore, John: on core bonding, 9:36
Collins, Mike: on owning component failure/policy for owner-supplied parts, 143:6
collisions: occupant protection, 34:13; litigation, 50:18. See also accidents, boat/marine
color, hull: and gelcoat blistering, 15:13; and heat distortion/print-through, 2:6, 14:45, 14:55, 45:76, 64:22, 99:104; and post-curing, 14:45, 14:55, 64:22; seasonal freeze-thaw cycling of/data logger testing, 109:170. See also heat distortion temperatures (HDT)
color, interior: design update, 6:34
Colotti, Bob: on hot-weather FRP boatbuilding, 33:46, 33:57
Colvic Craft PLC: Farr Millennium 65, 59:10; plug/80' motoryacht, 60:11
Colvin, Thomas E.: on numerically controlled cutting of hulls/steel hull construction, 85:4
Combatant Craft Department, Carderock Division, Naval Surface Warfare Center, 52:42; 140:34.
Combridge, Wayne: on exhaust system fundamentals and formula for waterlock mufflers, 91:10
Combridge, Stuart, Wayne: on Making and Testing Laminate Samples and better sequencing of materials, 159:4
Combs, Merrill: on low-styrene resins, 2:4
COMITT (Conference on Marine Industry Technical Training): workforce concerns and needs, 116:112
Commanche, maxi ocean racer: all-carbon prepreg construction/Hodgdon Yachts, 153:20
commercial vessels: aluminum-fiberglass hybrids, 17:19; aluminum construction/boat kits, 43:83; Boston Whaler, 2:40; carbon fiber laminates, 58:36; chemical carrier/CATUG/Hargrave, 43:36; design/engineering/licensure, 47:24; excursion catamarans, 3:42, 14:8, 45:120, 47:5, 47:16; fire protection regulations, 51:11, 62:78; marine trade associations, 51:11; NQEA, 63:106; plywood skiffs, 23:37; propeller matching, 46:61; resistance prediction, 56:26, 58:26; safety standards/regulations, 8:24, 59:44; seaworthiness/crew/litigation, 36:74; small excursion/T-boats, 36:22; overland transport, 36:33; weight/stability standards, 42:2, 110:68, 54:98; welded aluminum construction, 21:26; vs. yachts/marketing/finish standards, 40:24, 40:28, 40:36, 40:40. See also catamarans, power; dive boat; excursion boat market; ferries; fishing boats, commercial, construction
 commuter: Long Island Sound, 58:13; plane-multihull hybrid/Xtreme Xplorer, 57:15; prototype Commuter 36/Magic/Reuel Parker, 130:20; superyacht/Vitters
Shipyard, 58:13. See also powerboats, motoryachts

comuter-cat: semi-wave-piercing
motsailer, 76:60

COMO EA runabout: iPad speed controls, 137:12

companionway:
design/manufacturing/liability issues, 32:11; 118:30

compartments. See
bulkheads/compartments;
subframe/compartments

compasses, marine: dash-mounted, 2:72;
double-reading magnetic plastic
compass/Plastimo, 149:68; Faria flux-gate, 11:52; Suunto Design Line, 8:54

Competition Composites: boat and custom
fabrications, 142:8; stich-and-glue MiniMax
Sea Flea hydroplane, 142:8

component failure, 141:80, 142:4, 143:6

components/ancillary
equipment/accessories: aftermarket
niches, 14:26, 14:32; catalog interface
data, 47:80, 49:4; contracts/warranties,
41:15; discount/Tidewater 21:12; EC (EU)
certification, 41:38; in-house vs.
outsourcing, 35:34, 37:16, 39:70, 46:16;
in-house product testing, 46:16; layout/3-
D CAD models, 40:50; kitting, 39:70; lock-
in accessories attachment system/Tallon
Marine, 115:18; organizing/standardizing
product specifications, 49:96, 55:3,
112:88; quality control, 32:64, 35:4,
112:88; weight control, 44:38. See also
outsourcing; systems; specific items of
equipment

composite boats: Custom Composite
Technologies, 103:54; hybrid composite
sandwich boat/Symphony Boat Co.,
146:10; seasonal freeze-thaw cycling
monitoring of, 109:170; vintage outboard
replicas/Murdo Cameron, 144:10

composite construction. See cold-molded
construction; composite flat-panel
construction; fiberglass construction,
cored/sandwich; laminates, marine;
laminates, marine, advanced-composite;
resin-infusion molding; resin-transfer
molding; roto-molding; SCRIMP; vacuum-
bagging, etc.

Composite Design Technologies: FiberSim
stitching software, 57:88

Composite Engineering, Inc.: carbon fiber
laminates/fittings/galvanic blistering,
57:30; free-standing rotating
wingmasts/Project Amazon, 55:44, 55:46;
profile/composite racing shells/kayaks,
41:28, 41:30; satin weave glass fiber in
racing shell, 106,112; triaxial
braiding/carbon fiber spars, 47:44

composite flat-panel construction:
applications/materials/techniques, 45:54,
45:62, 45:68, 63:162, 96:36, 103:54;
carbon-fiber pre-pregs/class C catamaran,
39:30; carbon-fiber/PVC foam core/fast
catamaran, 54:44; fabrication
tips/warping/co-curing/release agents,
45:68, 48:4; Mantex composite sheets,
64:11; vs. plywood, 45:54, 142:8;
reinforcements for, 45:54, 45:62; using
SCRIMP laminating process, 65:84;
shaping/torturing/integrating panels,
45:54. See also fiberglass construction,
cored/sandwich, flat-panel

composite foam barrier: for sound insulation,
5:42

Composite Materials Handbook, by SP
Systems: 61:116

composite panels/sheet material: Avonite
Formstone Lite, 34:28, 34:32; DecoLite,

See also composites testing, panel testers/test fixtures

composites testing, non-destructive (NDT): carbon fiber sailing yacht/Marine Survey Bureau, 133:104; fiberoptic borescopes, 35:42, 35:50; infrared thermography, 25:18, 35:42, 133:104; limitations of, 133:104; moisture meters, 19:8, 16:50, 23:42; Smart Hammer, 47:57; ultrasound, 17:58, 35:42, 133:104; workshop, 47:57.

See also surveying techniques/tools/equipment, non-destructive


compounds: for electrical systems, 8:12; for keel fasteners, 38:20. See also anti-seize lubricants/compounds; buffing compound; epoxy compound; fairing compound; fillers; polyester compound; sealant; silicone caulk; thread-locking compounds

compounds (polishes) for gelcoat restoration: types/applications, 15:44. See also gelcoat finishes

Compozitex: print blocker, 7:50, 7:62

compressed-air (pneumatic) tools/systems: equipment/applications/shop techniques, 33:58, 33:64; for spray systems/hot-weather, 33:36. See also air coolers; air dryers; blowgun; caulking gun, pneumatic; chain hoists, pneumatic; chisel, impact; drill, air; hammer, air-impact; pumps, diaphragm; ratchet, air; sander, pneumatic DA; shears, pneumatic; vacuum cleaner, air-powered

compressed natural gas (CNG): boat fueled by, 44:49

compression test: using ASTM D664, 87:62

compressors (for air conditioning/refrigeration): Dometic
SmartStart start-up control, 132:6;
electronic starters for, 37:26
compressors, reciprocating (for pneumatic
tools/systems): Ingersoll-Rand T-30,
33:58; types/selection/applications, 33:58
compressors, rotary-screw (for pneumatic
tools/systems):
types/selection/applications, 33:58
Compromiss Composites consulting firm
(Netherlands), 132:24
COMPSYS Incorporated: PRISMA
preforms/composite stringers, 41:62,
48:48
computational fluid dynamics (CFD): camber
shapes for lifting/planing surfaces, 97:164;
drag/wavemaking prediction/Olin
Stephens, 60:66; ISIS CFD software,
121:50; MICHLET computer program
analysis, 74:54; rear foils in hydrofoil-
supported catamaran application, 157:68;
on semi-displacement yacht at
anchor/Van Oossanen, Peter van/velocity
prediction program; VEEM Interceptor
strips for propellers, 119:6
computer-aided design/computer-aided
manufacture. See CAD/CAM
computer applications. See CAD/CAM
(computer-aided design/computer-aided
manufacture); CAL/NCC (computer-aided
lofting/numerically controlled cutting);
computer software; engines, marine,
computer applications; metal construction,
CAL/NCC (computer-aided
lofting/numerically controlled cutting)
applications; systems
computer applications, online (Internet):
bulletin boards, 32:48; Diosa
Yachting/Macintosh database/forum,
38:51; e-mail address directory, 38:51;
information, 40:80, 41:58; information
database/services, 15:70;
information/marketing/Canoe & Kayak,
40:62; Internet Waterway, 40:62; marine
industry directory/YachtWorld’s Boating
Yellow Pages, 44:49; marketing/Web
sites, 38:51, 40:62, 41:58; Outdoors
Online, 40:62; PBB Online, 32:48, 33:69,
36:74; PierVantage yard management
system, 127:10; Unix-based software
business management system/Stingray
Boats, 127:30; VesselVanguard, 139:18;
vocational education/Composites
Technology Center, 39:90
computer hardware: insuring, 7:28;
protection/hurricanes, 27:18, 27:21
computer hardware, for CAD/CAM:
Intergraph, 8:35, 17:58; 3-
D modeling
capability/interior joinerwork, 40:52;
workstations, 8:35, 9:5, 40:42
Computer Methods Corporation:
electronically managed
engines/diagnostic systems, 20:8
computers. See computer hardware
computer software, 3-D modeling/graphics:
Accurender/photorealistic
rendering/raytracing, 40:24; Femap pre-
processing software/finite element solver
(Nei/Nastran), 133:46;
Mannequin/ergonomics, 48:66;
microstation models, 66:90; RevWorks,
78:94; Rhino/photorealistic scrapbooks,
57:15; Solid Edge program Origin: 66:90;
SolidWorks, 66:90, 78:94; SolidWorks
and AutoCAD compatibility, 66:90, 68:5;
3-D WorkShop (Mac), 32:52; vs. 2D CAD,
66:90
computer software,
accounting/inventory/estimating/managem-
ent: Alpha 4, 50:59; Armor, 27:70;
AutoCAD, 28:32; Business Planning &
Control System software (BPCS)/Cruisers Yachts, 114:68; cloud-based vessel-maintenance management software, 137:34; custom, 57:74, 57:80; Excalibur, 18:54; Lotus 1-2-3/spreadsheet, 21:38, 50:59, 57:74; Microsoft Excel, 57:74; Peachtree, 57:74; Perception, 23:50; relational database vs. spreadsheet, 50:59; Sextant Systems, 3:60; spreadsheet, 57:74; Windows Access 95, 50:59. See also bar code system; inventory; inventory/parts, computer tracking; inventory/parts, purchasing/control; payroll/wages

computer software, animation: Mannequin Professional, 40:48


calendar software, hull design/fairing:

calendar software, hydrodynamics/performance prediction: vs. model testing/sea trials, 55:32, 58:26

calendar software, hydrostatics/stability/weight: Autopower, 36:78; CAL/NCC integration (metal construction), 38:47; custom/limited-edition sportfisherman, 54:62; Microsoft Excel spreadsheet/weight estimating, 42:26; Ship Hull Characteristics Program (SHCP), 17:58; Shiphull 2000, 17:58

calendar software, laminate properties: GENLAM, 47:53

calendar software, laminate schedules: analysis/Coredes, 53:4; stacking sequence, 53:20

calendar software, lofting/parts generation:
  ABS Construct, 8:35; AutoCAD, 48:66, 52:12; AutoKon, 7:18, 17:58; Autoplate, 17:58; Baseline, 7:18, 38:47; Boolean operations capability, 38:38, 40:42; CADKEY, 13:48, 40:52; expanding/unfolding capability, 38:38; Intergraph, 8:35, 17:58; for interior joinerwork, 40:42, 40:52; for Macintosh systems, 9:5, 17:58; McDonnell-Douglas, 7:18, 8:35; for metal construction, 38:38; Nautilus, 24:26; parametric surface equation/Fairline/1 [CAD], 79:8; parts-nesting programs, 38:38; reverse engineering of existing tools/Rhino 3D software/Turn Point Design, 137:12; ShipCAM, 17:58, 38:47; sources, 24:32, 38:49, 40:53; 3-D modeling capability/interior joinerwork, 40:42, 40:52;
Unigraphics/parametric, 40:42. See also CAD/CAM (computer-aided design/computer-aided manufacture); CAL/NCC (computer-aided lofting/numerically controlled cutting); metal construction, CAL/NCC (computer-aided lofting/numerically controlled cutting) applications


computer software, relational database program: Alpha 4, 50:59; for tracking production/materials/labor, 50:59; Windows Access 95, 50:59

computer software, spreadsheets (flat-file database): for design analysis, 49:8, 64:52; limitations vs. relational database/production tracking, 50:59; software/weight estimating, 42:26; for speed prediction, 59:56

computer software, temperature monitoring: epoxy laminates, 42:62
computer software, testing/data acquisition: Camille Data Acquisition system/styrene emissions, 40:17, 40:18; Sierra Touch and Test System (STATS) electronic diagnostic tool, 141:30

computer software, 3D modeling/graphics: vs 2D CAD, 66:90; CATIA software brands/Dassault Systemes, 113:10; MicroStation modeler, 66:90; photorealistic still pictures/Luc Vernet/Vietnam, 113:10; SolidEdge 2D drafting program, Origin, 66:90; SolidWorks, 66:90, 113:10; SolidWorks and AutoCad compatibility, 66:90, 68:5

Comtex Development Corp.: composites testing, 4:22

Concept Boat 2002: transportable boats contest, 75:14

custom designs: Blohm & Voss Shipyards (Hamburg, Germany) 364’ motoryacht, 145:12; Tony Castro Design (Southamton, England) 136’ flybridge ketch, 145:12; Ivan Erdevicki Naval Architecture & Yacht Design (Vancouver, BC) ER175 yacht, 145:12

Concordia Company, Inc.: Beetle Cat production, 23:32; bow redesign/Freedom 36/38, 45:86; yard boats/tugboat, 42:34


Condon, Bill: on chopper guns, 3:54 conductors. See wire/cable, marine, conductors

Conyplex (The Netherlands): laminating techniques/vacuum infusion, 108:18
Conner, John: outdoor model testing on *Gentry Eagle*, 78:22


Connolly, Desmond: on keel attachment/fasteners, 40:4; on real vs. personal property, 51:6

Concealing valuables: furniture and fixtures. See also Marcali Yacht Brokerage & Consulting

Consolidated Yacht Corporation: builder profile, 47:34; Egret flats skiff, 47:40, 120:62; Extender fairing system, 27:70; Norship Composite Yachts, 120:62; sportfisherman/DuFLEX panels, 59:10, 63:162

consultant, marine, profession of: qualifications/ethics/conflicts of interest, 59:89. See also Game, E. Charles (Charlie); International Marine Consulting Associates (IMCA); Pike, Dag, Associates


contracts. See builder’s contracts/estimates/bidding; merchant’s contracts

Control Products, Inc.: waterproof switch, 5:58

control station: design/layout, 48:66, 48:79, 80:12, 141:62, 142:3; HelmView LCD customizable display, 112:10; SIMRAD’s electrostatic paper mock-ups for instrument display placement, 80:12. See also cockpit; dashboards; instruments/instrument panel; navigation instruments/systems; navigation station; seats/seating; wheelhouse conversion kit: for LED lights (StarChip), 87:80

Conveyor and Drive Equipment Co.: Material Mixer, 21:60


Cook Paint and Varnish: Armorcote In-Mold Coating, 1:68

Cookie Too, sportfisherman: tuna tower, 76:80

Cookson Boats: mega catamaran/PlayStation, 58:13, 60:11, 63:10; profile/New Zealand builder, 55:58 cookstove, galley. See stoves, galley

Cool Corporation: Supercool refrigeration subassemblies, 7:64

coolant recovery bottles: in sea trial tests, 145:56

coolers, air. See air coolers

cooling systems: Gridcooler keel coolers, 2:70; intercooler, aftercooler, and reduction-gear coolers, 111:66; keel
coolers for metal hulls/dual heat exchanger cooling, 111: 16; outdoor air-conditioning/Misters Unlimited, 89:8; R.W. Fernstrum & Co. keel coolers, 111:66; tank or shell keel cooling, 111:66; tubing for, 111:66; Walter Keel Cooler, 111:66

Cooper, Gordon: NASA astronaut/Mercury Project/powerboat racer, 155:20

Cooper Power Tools: Brewer-Titchener latch kit (for lifting hook), 12:60; Gardner-Denver pneumatic chain hoist, 41:62; Pivex replaceable-bit pivot driver, 44:54

Cooper, Richard: on Navigating a Sea of Standards, 159:4; and one discharge remote shutoff valve, 159:4

Co-Plas: on internal mold-release agents, 13:11

copper-based antifouling paints/coatings. See antifouling paints/coatings, copper-based (non-tributyltin)

CopperClad: antifoulant, 2:12, 7:42, 7:48

Copper Coat: antifoulant, 1:68

Copperlok: antifouling coating, 8:4
copper sheathing, applications: adhesives with, 9:5; copper alloy (Mariner 706), 7:42, 7:48, 9:5, 23:4; copper/nickel foil, 7:42
cordless tools. See tools, power, hand-held


Core Composite: state-of-the-art fabric impregnator for Boston Boatworks, 157:50

Corecork, 120:4

Core outgassing: 87:62
cored laminates. See core bonding;
fiberglass construction, cored/sandwich
cored panel penetration: repairs to, 97:130, 99:44
cored/sandwich construction. See composite flat-panel construction; fiberglass construction, cored/sandwich

Corel 45: one-design racer, 61:66

Coremat: print-through control, 7:50, 7:62; weight savings, 3:27

CoRezyn: vinyl ester resin, 6:10
cork composite: Marinedeck 2000 decking, 41:62, 125:20

Corkery, Steve: on Bill Tripp’s boats, 109:6

Cornelius & Gump Woodworks: outsourcing/boat kits/Gold Coast Yachts, 37:16, 37:18


Coronet, schooner yacht: restoration in see-through shed at International Yacht Restoration School, 101:24

Correct Craft: buyout of PCM Marine engines and Crusader Engines, 153:8; cruise control, 54:18; founding of company, 1925, 153:8

Correia, Lou: Viking builder profile, 46:16

Correll, Tom: on surveyors and boatyards, conflict of interest, 70:5
counterfeiters/defensive manufacturing, 103:134


coupling flange. See propeller shaft

court, Ken: on racing yacht scantlings/floating-frame construction, 50:5

courtauld’s coatings/courtauld’s aerospace: nontoxic bottom paints, 31:10; report on blister causes/repairs, 16:42; urethane/silicone hybrid sealants, 28:27; Veridian 2000 foul-release system, 31:10. See also Interlux Yacht Coatings; Products Research & Chemical Corp.

couto-laine, gonzo: on correcting roll instability/ventilating rudder clarity, 86:4

cove system (CoRe-veneer-EpOxy): for ultralight composite construction, 55:79

cover (guard): flame-retardant protection system, 64:11

covey island boatworks: westernman 51, 56:10, 57:13, 63:86, 100:24; J-class racing sloop Ranger replication, 67:13; Maggie B wood epoxy schooner, 100:36; Sparkman & Stephens AeroRigged cruising sloop Barbara Ann, 67:13, 100:36; and Nova Scotia Boatbuilders Association apprenticeship program, 100:24

cowl ventilators: reduction of Katrinka refit/Brooklin Boatyard, 138:48

cox, Robert O.: on dealerships, 11:5

cox, thomas M.: on CAD/CAM technology, 8:4

cox north america/pc cox: Solo clamp, 33:75; Solo 100 C-clamp, 24:62

coyle, Jay, author: “True Yacht Designers Wear Many Hats,” 9:64

crane materials international: TimberGuard UV-resistant polymer encapsulation for dock pilings, 109:17; GatorDock/aluminum piers/gangplanks,
109:17; ShoreGuard/composite and aluminum seawalls, 109:17
Crane, Stephen: on DCPD laminate repairs, 52:67; on fiber-to-resin ratios, 59:30; on standardized lab testing, 50:46; on switching to thermoplastics, 10:34; three-point load deflection tests on laminates materials, 114:52
Crane, Stephen, author: “Early Glass,” 38:30
Cranes. See boat lifts/hoists
Crawford, Roger: on Rule 1162 development, 26:34
Crealock, William: Pacific Seacraft designs, 10:20, 10:31, 59:21; obit, 124:12
Creative Extruded Products: non-metallic trim stabilizers, 35:58
Creative Systems: General Hydrostatics System hydrostatics software, 17:58
Crestliner, Inc.: welded aluminum boats, 4:42
Crestomer 1152 PA: resin, paste, adhesives brand name, 67:5
crew-friendly yachts, 115:88
Crichetto brake, clutch, and torque limiter coupling, 113:10
crimping tools, 143:22, 147:6
Cripps, David: Composite Materials Handbook, 61:116; profile/carbon fiber composites, 58:36; on low-temp pre-preg construction, 64:82
Cristos, José: on displaying hull identification numbers, 61:5
Croatia: Vladimer Nazor passenger ship conversion to yacht Seagull I, 100:4
Crocker, S.S.: yard tugboat, 42:34
Crocker, Sturgis: yard tugboat, 42:34
Crosslink 3: roto-molding technology (Old Town Canoe), 10:34, 11:20
Crouch, George: Crouch’s formula/estimating speed, 51:6, 53:4, 54:96, 126:38
Cruisair: M2 closed-loop air-conditioning system, 32:52
Cruisers Yachts (Wisconsin): profile of, 114:68
Cruising Club of America (CCA) rule: 61:77
Cruising Design Inc.: feathering propeller, 13:70
Cruising Equipment Company: DC systems supplier, 19:50, 19:55
Crusader Engines: 350XL gas inboard, 22:56
Crystaliner boats: Challenger Marine/Don Mucklow, 105:4
C. Tremblay & Associates: PC-SHCP, 17:58
Culler, Pete: on designing yard tug, 42:37; tug-ette yard tug, 42:34
cumene hydroperoxide: hot-weather catalyst, 33:57, 44:30; Tigonox 239A, 44:30
Cummins Engine Co. Inc: quality service manuals, 157:14
Cummins MerCruiser Diesel (CMD): MotoTron/SmallCraft networked communications system for electronic engine control, 106:42; Skyhook Electronic Anchor, 106:42
Cummins Engine Company, Inc.: Flight Saver System (FSS) monitoring system, 14:34; Zeus drive system vs. Inboard Performance System (IPS), 106:42
Cuneo, Joseph: on P.E. (Professional Engineer) licensure, 73:5
curing. See cross-linking; post-curing; resins, curing/exotherm cycle
Curnow, Gene: on gelcoat application/troubleshooting, 11:42
Current Designs: kayaks/We-no-nah, 49:36
Currie, Sackville: on lithium-ion batteries and characteristics of the wet-cell nickel cadmium batteries, 121:9
Currier, Rich: on Coast Guard’s experimental “rubber band” mooring, 113:4
curtain: magnetic hazmat containment curtain/Armstrong Marine, 152:36
curtains: modernizing interiors, 32:15;
Shapco self-pleating system, 32:15
Cusanelli, Dominic, author: “Stern Flaps,” 70:81
cushions. See upholstery/cushions
Custom Composite Technologies (Maine): profile of, 103:54
Custom Steel Boats: building of Moloka’i Strait MS75 Hercules vessel, 114:20; murder of Richard and Rosa Flowers, owners, 82:8
customer support, 147:80; at Marine Concepts, 151:68; at Saunders Yachtworks, 148:38


Cuthbertson, George: founding of C&C Yachts, 92:48; scimitar-shaped rudder, 142:8

Cuthrell, J.H., Co.: pre-engineered steel buildings, 17:34, 26:18

Cutler, James W., Jr. (Jim): on battery cables/connections, 22:4; removing broken screws, 24:58; on wiring specifications/selection, 36:4

Cutless bearing: seized, 156:54; tool for removing, 48:86

Cutting Edge, Inc.: automated cutting machinery, 21:60

cutting tools: Dormer Tools/Elect S high-temp drill bits, 131:12; self-cleaning holesaw/transom drill/carbide-tipped 3-wing drill, 105:12

Cut’s Edge Harbor Marine: profile, 161:8

Cuyuna Engine Company: personal watercraft engine, 5:26

C.W. Paine. See Paine, C.W. (Chuck)
cyanoacrylate adhesives:

description/applications, 41:44

Cyclone Power: external-combustion steam engine, 134:6

Czap, David: drive systems for solar yachts/Naval DC, 161:48; solar-powered Czeer MK1 launch, 161:48; user interface for solar boats, 161:48

Dagger: roto-molded polyethylene kayaks, 29:33

Dahlgren, Jeff: on Airtech vacuum valves (frogs), 45:5

Daily, Mark: on Prop Scan/propeller pitch, 42:74; on Porsche speedboat, 116:4

Daimen Corporation: air conditioners, 2:70

Dali foils, 162:52. See also Dynamic Stability Systems (DSS)

Dalinger, Rudy: Viking product line, 46:16, 46:26


Dalzell, Steve: on The Landing School’s design program, 102:4

damage, major: assessment/repairs, 25:18, 57:74. See also blister repairs, delamination; hurricanes/major storms; insurance, boat/marine; repair techniques; surveying techniques/tools/equipment; surveyors/surveying, profession/judgment

damage, minor: composite repairs assessment, 82:22

damping materials. See vibration, engine/propeller, control

Dana, Lee W.: on bilge pumping systems, 57:48; on engine room ventilation, 37:26; on E10 (ethanol) gasahol and degradation of fiberglass and metal fuel tanks/Bertram Yachts, 103:6; profile/Bertram Yacht, 39:70, 43:5; on shaft seals, 32:4

Dana, Lee W., author: “Lower Tier Licensure,” 98:112; “A Marine Engineer’s Casebook,” 93:98; “Solving the Station-
Wagon Effect,” 39:79”’What’s Wrong With This Picture?” 112:120

Danfoss: DC-powered refrigerator compressor, 26:8


response on biodiesel vs. distillate fuels, 118:4; response on bonding basics, 139:5; response on a case for complexity, 139:5; response on custom sea chest with monel filtering screen, 139:5; response on low-drag intake with integral strainer capability, 132:4; on nontoxic antifreeze for winterization, 155:4; response on Oil Change Delayed/centrifugal spinner systems, 146:4; response on Plumbing The Depths and two bilge-pump-wiring systems, 149:04; response on Plumbing The Depths and T-fittings/light vs. buzzer alarm for bilge pump failure, 149:04; on policy of owner-supplied parts/components, 143:6; response on The Power and Peril of Stainless and distinction between pitting and corrosion, 148:4; on securing your training investments, 145:4; response on raw-water strainer design, 130:6 (see also Dean, Paul); responses on a relay switch for large capacity pumps; installed backwards switch, 148:4; response on scoop-strainer equipped engine seacocks on sailboat and anodic protection for metal strainers, 128:6; response on Service Manual Lament/diagram installation/installation of nut, 158:4; response on shaftling alignment/do-it-yourself alignment tool kits /using a laser light, 161:3; response on Trial By Water and backing high knot boats down, 147:6; on water tanks/check valves/composite aluminum PEX plumbing, 155:4; response on ZDDP additive and oil analysis, 144:4

Dark Matter Composites: advanced training courses, 144:10; portable and bench dust-extractors, 144:10; step-sanding tool kits, 144:10; dashboards: console cutouts, 49:24; design/color/layout, 42:88, 48:66, 48:79; outsourcing, 37:16; safety/liability, 15:50

Dashew Offshore: semi-custom sailboats, 30:48, 139:86; downwind sailing set-up, 139:86

Dashew, Steve: on steering system fundamentals/ABS rule for keel structure and rudders, 100:4

Dashew, Steve and Linda: Beowulf VI/Norm Riise, 124:12; motoryacht/computational fluid dynamics analysis capability, 89:8; Fast Patrol Boat 64, long-range cruiser, 113:10, Windhorse/"unsailboat," 117:26

Dassault Systems: Catia CAD/CAM engineering software, 57:88,113:10; data acquisition hardware/heating source/software, 139:40; depth retrieval, 139:40; data loggers, 109:170, 119:38, 127:8

Data Tag: Motorola identification chip for boats in the U.K., 71:27

Daubert Products Inc.: Tape’n Drape, 3:60

Daugherty, Colin: on fuel systems for pleasure craft, 85:4

David Taylor Model Basin. See Taylor, David, Model Basin

Davidson, Ken: model testing/performance prediction, 60:66

Davidson, Laurie (New Zealand boat designer): 71:70

Davies, Richard: on surveying and ethics/judgment, 110:4

Davies, Roger: on trailering/point loading, 60:5

Davis, Jr., Carson “Buddy,” obit, 130:20. See also Davis Yachts.


Davis, Greg: osmotic blister database, 53:4; on seaworthiness/crew/litigation, 36:74; on seaworthiness/survey reports, 34:55; on smoke/CO detectors for boats, 91:10


Davis, Judy Bell-. See Bell-Davis, Judy.

Davis, Lincoln: vintage outboard engines, 92:68

Davis Yachts: Carson “Buddy” Davis, Jr., obit, 130:10

worker training, 13:54

Dawson, Dudley: on Benetti navigation simulator, 110:4; on boatbuilding to a single standard, 105:4; on chartered boat/T-boat, 37:4; on Ernest Brierley, 41:5; on Jack Hargrave, 41:5; on hauling and launching safety, 52:4; on laminate strength/stiffness/resin content, 56:5; on model testing vs. computer prediction, 55:32; on new committee establishment by SNME for professional engineer (P.E.) licensure issues, 72:112; on Once More, With Feeling.the importance of good customer support, 148:4; on photography for marine surveyors, 80:4; on resistance/shallow-water effects, 60:5; on propulsive efficiency/turbulence/slip, 46:5; on standardized warning labels and suggestion to instead include in owner’s manual, 157:6


Daytona Plastix, Inc.: Marine-Tuff Polymer, 20:56

DBE (dibasic ester) solvent: in acetone replacement/performance, 6:10, 10:8, 10:17, 33:20; replacement for (emulsifier), 20:56; in water-based stripper, 33:75

D.B. Follansbee. See Follansbee, D.B., Inc.

DC electrical systems/equipment: compact distribution panel for all high-current switches, breakers, and fuses, 89:29; design/engineroom layout, 37:26, 73:102, 97:148; grounding, 23:4, 30:38, 30:44, 33:28, 94:84; high-capacity/components/charging


DC tester: pen-sized/Santronics, 34:59

DCM Clean Air: dust control tools/systems, 87:10


DC-to-DC converters: for driving LED lights, 87:80, 115:74; vs. linear voltage regulators, 115:74; and radio frequency interference, 115:74

Deal, D. Scott: on flats-boat market, 30:4

Dean, Paul: on fiberglass itch, 64:5; on soldering stainless steel flat bars on flush-mount bronze through-hull/raw-water pickup, 130:6
deBethune, Chris: on fastening ballast keel, 38:20

DeBord, Frank, author: “Repower,” 116:80
decibel meters, hand-held: for testing soundproofing, 5:42
deck, tooling for: stick-built plug, 28:10
deckbeams, 119:50
deck coverings/coatings, nonskid. See nonskid deck coatings/coverings
deck hardware/fittings, installation/bonding:
  - acrylic adhesive/X-Serts for, 18:4; chocks, 30:8; cleats, 30:8; for carbon fiber laminates/galvanic blistering, 57:30; for cored laminates, 15:21, 32:44, 34:52, 36:78; epoxy-potted fasteners, 15:21, 32:44, 36:78; hurricane damage and, 30:8; loading/cored construction, 52:40; 3M 5200 sealant for, 15:21, 28:27, 29:4
deck hardware/fittings, manufacture: in-house vs. outsourcing, 35:34; quality control/defects, 54:79. See also hardware, marine; rigging, stainless steel
deck hardware/fittings, used:
  - salvaging/recycling/Sailorman, 60:82
deckhouse: sliding-top, 54:18. See also pilothouse; wheelhouse; windows
deck light: Hellamarine halogen reflector lamp, 40:66
deckplate: rebedding/water-saturated flotation foam, 37:48
deck repairs: redecking/Balclutha restoration, 56:10; scarfed-seam/FRP, 37:48; teak, 1:46; waterlogged plywood, 32:44, 52:40. See also caulking/reaming/reefing tools
decks, carbon fiber:
  - composite/Consolidated, 47:34
decks, digitally imaged, 102:14
decks, FRP: controlling print-through, 7:50; part fit/fiber-to-resin ratios, 59:30; scarfed-seam repair/deteriorated flotation foam, 37:48; tooling/hull-to-deck joints/part fit, 60:1204; turning/Posi-Turner, 10:52. See also hull-to-deck joint
decks, plywood-cored/FRP sheathed: vs. fiberglass/loading, 40:54, 41:5; finishing, 40:61; vs. foam core/loading, 52:40; lobsterboat work deck, 45:80; waterlogged/repair, 32:44, 52:40
decks, teak: cork and PVC as replacement for, 125:20; 128:6. See also Esthec; Flexiteek; Marinedeck; NuTeak; PlasDECK; SeaDek.
decks, wood planking: power-reaming, 21:60; teak/laid, 45:47; teak/prefabricated, 5:26, 51:114; teak/reconstruction, 1:46. See also caulking/reaming/reefing tools
deck sealants: urethane, 41:44
DecoLite: core for cabinetry, 13:43, 40:42, 40:52, 47:17, 57:110; source, 8:54
Dee, Rick (boatbuilder): boulevardier’s boat (sportfisherman), 64:11
Deep Creek Design Inc.: LED lights, 87:80
Deere & Co.: Ammarine 404 marine diesel engine, 19:28
defects, latent, 130:66
DeFever, Arthur: trawler yacht designer/obit, 144:10
dehumidifiers, 122:52
deknatel, John: on Ray Hunt/deep-V hullform, 50:32
Delcam: software for multiaxis turning equipment, 106:10
DeLillo, Michael: on Lee Dana/Bertram Yacht, 43:5
Delta International Machinery Corp.: bench saw, 1:68; Dust Collector/Sweeper, 20:56; miter saw, 3:60; portable bench saw, 45:105; profile of, 94:32; radial drill press, 11:52; Sidekick Saw Stand, 45:105
Delta Marine Industries: CAD/CAM applications, 8:35; fiberglass megayachts, 2:42, 64:52; hull molds, 94:32; 126’ expedition yacht, 70:21; transition/commercial fishing boats to yachts, 40:24, 64:52
delta shape circuit racers, 135:26
Delron automotive acrylic urethane paint: alternative to linear polyurethanes, 19:12
DeMarco, Peter: Integrated Entry Surface Effect Ship hullform, 96:6; obit, 114:10
Dencho Marine: profile/Dennis Choate, 126:56
Denick, Tom: Island Marine/Wilbur 34 redesign/lifting strakes, 45:86
Denison Marine: hurricane-recovery assistance, 20:8; megayacht market, 12:50; Roamer restoration, 4:30
Denman Marine (Tasmania): wooden boatbuilding and repair, 160:8
Denmark: yacht restoration, 52:12
Densmore Associates Inc. (DIA): Modular Marine/aluminum kit boats, 43:83
Department of Homeland Security: small vessels security threat scenario, 112:40; America’s Waterway Watch Program, 112:40
De Plessis, Hugo: on the first large fiberglass production motoryacht, and Tarantula high-speed yacht, 115:6
DePlume, Norm, author: “Knowing When to Jump,” 51:128
depthsounder: internally mounted transducer/drag reduction, 45:29
Derecktor Gunnell Inc.: aluminum-fiberglass hybrids, 17:19; consolidated as subcontractor, 47:34; yard boats, 42:34
Derecktor, Robert E., boatbuilder: profile of, 75:126
Derecktor Shipyards: ABS classification, 39:80; Dennis Kozlowski’s ex yacht, 82:8; 105’ motoryacht, 1:20; Mariner 12 meter, 75:126; motoryacht Starlight, 64:82; plasma-cut parts/outsourcing, 42:74; Thunderhead ocean racers, 75:126
Dermashield: barrier cream, 21:60
Derrer, Tom: Eddyline Kayaks/Carbonlite 2000, 60:11
desalinator. See watermaker
Deschamps, Laurent: on designing and building in wood/composite construction, 70:5
drawings/drafting/models; designer/naval architect, profession/responsibility; designs/plans; displacement hulls; model testing; performance prediction; planing hulls; product liability; product lines; speed, estimating; stability, dynamic/positive; weight (hull), controlling/reducing

design/engineering schools: composites engineering, 58:104; licensure and, 47:24, 58:104. See also education; Landing School of Boat Building and Design, The; Westlawn Institute of Marine Technology
designers, interior. See interior designers
drawings/drafting/models

Design Systems and Service: Fast Yacht software, 7:18, 18:4
De Souza, Paulo Alves: Design Challenge, WWWBD 26 Sharpie, 135:36. See also Jon Ames
De Stille Boot (Netherlands): solar-powered recreational launch, 161:48
Destriero: Donald L. Blount and Associates, 102:4; 109:5, 100; 113:4; sea trials, 110:50, 111:4; speed/length ratio, 126:38; trim tabs, 111:4; vs. Moonraker, 126:38; and Virgin Atlantic Challenger Blue Riband Award, 135:26
Det Norske Veritas: advanced-composites research, 47:57; safety standards/testing cored composites, 34:42, 34:45, 63:38, 68:32, 142:40; type-approved materials/data and scantlings standards, 142:40

Detroit Diesel Corp.: DDEC electronic management system, 14:34, 14:38; electronically controlled/low-polluting engines, 27:61; megayacht engines, 12:50

Devcon Environmental Products: spill prevention/control brochure, 21:60
DeVilbiss Ransburg Industrial Coating Equipment Co.: HVLP spray systems, 34:35, 37:42; IGHU-530 spray gun, 37:42; Maximizer HVLP spray gun, 34:35; OMX spray gun, 37:71; profile, 37:71; spray-finishing manuals, 26:54; spray-finishing workshop, 28:54

Devlin, Sam: Edward S, Dawson Sockeye 45 design, 85:10; Design Challenge, 122:24; Godzilla tugboat, 85:10
Devlin, Sam, author: “Spraying Linear Polyurethanes,” 19:12
Devlin, Sam: Design Challenge, 122:24
Devlin Designing Boat Builders: CAD/CAM applications, 7:18, 8:35
De Vries Scheepsbouw (Aalsmeer, Netherlands): composites fabrication of hatches and hatch rings, 132:24; “concurrent painting,” 77:52; D. Bonsink Trading Company fairing putty machine, 120:38; pre-preg temperature and cure cycle monitoring, 132:24; profile of, 77:70; in-house composites skills, 132:24
DeWalt Industrial Tool Co.: cordless drill/driver, 48:86; extra-long, high-speed twist drill bits, 35:58
DeWalt, Peter: on damage tolerance, 82:4
Dexter Corp.: Frekote Aquiline GP-100 (water-based), 19:59; Frekote 44NC, 59:76; Frekote polymeric mold-release, 12:27, 13:11; tooling maintenance/troubleshooting video, 25:59
Dherlin, Roger: on trademarks, 14:4
DIAB: expanding production in foam cores, 62:12; Divinycell core material for flying boats, 154:12; Divinycell H-grade for PVC foam cores, 70:44; Grid Score Thin (GST) core materials, 138:6; International Sandwich Symposium, 102:14; MX 10-8 foam core/strength to weight ratio, 138:6; ProBalsa Plus, 52:30; One Directional Cut (ODC), 138:6; and SP Systems, 61:116, 70:44
diacetone alcohol (DAA-FRP): non-acetone resin cleaner, 25:59
Diagrams: for electrical and plumbing systems, 132:80
diamond abrasives. See abrasives, diamond diamond-grit saw blades. See saw blades
Diamond Machining Technology: flat-file sharpener, 19:59; whetstone sharpener, 1:68
Diamond Saw Works: Sterling saw blades, 12:60
Diana Yacht Design: megayacht construction/market, 12:50
diaphragm pumps. See pumps, diaphragm
DiaShip: megayacht construction/market, 12:50
DiaTrim Tools Ltd.: Diavac dust extractors, 4:58; dust collectors/extractors, 28:38, 28:46, 28:47; Festo air-driven sanders and cutters, 5:26; Portavac dust collector, 34:59
dibasic ester. See DBE (dibasic ester) solvent
Dibber: handheld laminating tool, 154:12
Dickes, Geoff: designer/Boomer sportfisherman, 57:110
DICKEY-john Corp.: Custom Instrumentation Package, 21:60
Dickison, Dan, author: “Two of the Many,” 87:26
Dickman, Michael W.: on environmental protection (manatee) vs. recreation, 5:7
dicyclopentadiene. See DCPD (dicyclopentadiene)-blended, low-styrene resins
diesel fuel: asphaltine contamination, 112:100, 115:112, 122:52, 126:30; and biocides, 115:112, 122:52, 158:64; compression ignition (CI) principle, 115:112; demulsifiers, 126:30; E-Diesel, 116:28; filters for, 126:30; fuel dyes, 115:112; fuel filters/centrifugal separators, 115:122; fuel polishing system for, 112:100, 115:112; grading/cetane measurement of diesel, 115:112; high-pressure injection system, 158:64; high surfactancy fuels test, 158:64; hydro-desulfurization, 158:64; large cylinder vs. small cylinder engines efficiencies,
diesel heaters: diesel hydronic heater, 141:16; fan-speed control, 141:16; KB 20 furnace/Kabota, 141:16; Scheer, 141:16
Diesel, Rudolf: replica of 1908 engine/MAN Engines (Nuremberg), 157:26
diesel waterjet outboard engine: 70:21
diffedef, Rich: Gold Coast Yachts/outsourcing, 37:16, 37:18. See also Gold Coast Yachts
differential-scanning calorimeter (DSC): for monitoring cure rate, 14:48
digital technology: operating systems, 98:3; and three-cable boat, 97:148
digitizers. See numerically controlled (NC) lofting/cutting equipment
Dijkstra, Gerard (designer): profile of, 89:50
Dildelian, Ira: development of woven roving, 38:30
Dill, Bob: designer/land yacht, 60:11
DiMateo, Nick: on cored borroms, 51:22
dimethylanilene (DMA): accelerator for vinyl ester resin, 6:16, 44:30
dinghies: catamaran with symmetrical hulls/Jerry Burkett, 75:14; Paper Jet 14/Dudley Dix, 110:26
dinghies, sailing: International 14, 134:42, 142:62; International 141 double-trapeze sailing dinghy, 134:42; Laser racing dinghy/Bruce Kirby; market for, 6:31. See also sailboat market/industry; sailboats, racing skiffs/daysailers; Bruce Kirby
DIN-rails: requirements for Recreational Craft Directive/electrical panel breakers, 154:56
Dinsmore, Dan: on marine wiring, 9:5
dioxolanone. See propylene carbonate (PC)
direct current. See DC electrical systems/equipment
dispensing pumps/systems: for catalyst/resin, 1:6, 30:57; for putties/adhesives, 31:68; Gougeon Brothers/crank-operted, 76:80; Patriot SSB System/Magnum Venus Plastech, 111:12
Disposal of End-of-Life Plastic Boats: publication by the Nordic Council (2013), 160:40
58:26, 59:56, 60:66; weight/propulsion, 44:38, 59:56
Di Sesa, David: on Trial By Water and backing high knot boats down, 147:6
Ditmore, Stephen: on secondary bonding replacement for carrying high loads in critical areas, 20:4; on lofting/planar sheer, 27:4; on the China trade and skilled boatbuilders, 105:4; on Lake George, NY excursion boat (Ethan Allen) loss and U.S. Coast Guard jurisdiction, 101:4; on professional engineer (P.E.) licensure, 72:5; on resin formulations/engineering information, 20:4; on tooling for DuraKore, 16:4
Ditmore, Stephen, author: “Re-examining the Stem and Stern of the Modern Sailboat,” 25:55
dive boat: power catamaran, 59:10; rigid-hull-not-inflatable, 52:12; waterjet-driven, 65:11
diversification/sidelines: Admiral Marine/carbon fiber components for aircraft, 51:11; Brownell/boat stands, 22:32; carbon fiber laminates, 58:36, 58:52; Competition Composites, Inc./fabrication parts, 142:8; Composite Engineering, 41:28; Consolidated, 47:34; fabrications for Disney World/Disneyland, 54:18, 60:116; Fabrication Specialities, 56:40; Hood, 33:40;
Luke/accessories/hardware, 14:26, 14:32; North End/SCRIMP, 44:35; Padden Creek/shower-tub units, 37:16; Rybovich/accessories/hardware, 14:26, 14:32; TPI/exercise pools, 33:36; as survival strategy, 9:13, 12:4, 13:80, 46:72, 47:34; trends, 7:17; USWatercraftm 147:38; ZF Marine/gearboxes and transmissions, 134:18
Divilette: bonding putty (foam cores), 9:36, 9:44, 31:34
Divinycell (cross-linked/thermoset PVC) foam, for FRP sandwich construction: contour-cutting, 9:36; core material for flying boats, 154:12; for cored bottoms, 51:22, 51:26; core bonding/installation, 9:36; H-grade, 70:44, 142:8; in catamaran configuration, 63:106; megayachts, 1:22, 3:5; for Shearwater power cruiser, 115:162; structural core material, 52:30, 54:62, 142:8
Dix, Dudley: Didi Mini Mk3/Didi 950 kit, 152:10; Didi 950 and DidiMini/plumbing for stability, 153:52; Didi 38 design (Black Cat)/capsize of, 149:20, 150:4, 153:52; on floating-frame construction/ABS classification, 52:3
Dixon, Bill (designer): custom carbon/epoxy Baltic 70 sailing Yacht, 85:46
DMA. See dimethylaniline (DMA) document- and boat-management proram, 122:52. See also SeaKits.
Dodge, L.E. (Duffy): profile, 45:3, 97:3 dodger: patterning/canvaswork, 29:54
doghouse: turret-style invicta centerboard yawl/Pearson Yachts, 105:56
dolly, motorized: Power Mover 7000, 15:70
Dometic Marine: Breathe Easy air purifier for air conditioning ducts, 132:6, 141:6;
SmartStart single-phase compressor motor start-up control for start-up current surge, 132:6; SailVac Compact toilet unit, 132:6; WhisperFan controller/pulse width modulation for smoother electrical current, 135:6
Donzi Marine: Don Aronow and Allan Brown, 104:100; fuel-flow meters, 26:54; and Walt Walters/Wyn-Mill racer/Donzi 16, 132:36
Donzi Yachts: line-boring for bolt-on propulsion system (BOSS)/Seatorque, 128:8
door locks: One Look-One Lock designs/Southco Marine, 112:10
doors: aluminum/Freeman Marine, 41:62
Donardo Marine: PT boat-like fiberglass workboat, 74:9
Dor-Mor: mooring anchor, 30:8, 30:16
Dorworth, Louis C. (Lou): on laminate repair, 66:78; low-temp pre-pregs, 64:82; non-destructive inspection/phased-array UT, 124:26; pre-pregs workshop, 47:57
Dorworth, Louis C. (Lou), author: “Why So Steamed?,” 60:103
dory, planing: C-Dory, 23:41; Nexus Marine, 23:37, 23:41
Dos Santos, Alejandro, author: “The Runner-Up,” 109:30
Double Barrel Marine: jetsprint boats, 57:15
Dougherty, Bob: designer for Boston Whaler, 2:34, 2:38, 102:96
Douglas, Gerry: builder profile/Catalina Yachts, 35:34; on interior design/Viking, 6:34, 6:39; on owners’ manuals/product-liability litigation, 27:46
Douglas-fir: marine-grade plywood panels, 16:12, 16:20, 28:8, 40:54, 42:5; prefabricated decking/panels, 11:52, 18:54
Douglas Marine: designer-builder Peter Hledin/Skater catamaran performance boats, 109:80
Douglass & McLeod: profile/heated locker for resins and coatings, 52:81
Dow Chemical Company/Composites Laboratory: Derakane epoxy vinyl ester resin/DCPD laminate repairs, 52:67; Derakane epoxy vinyl ester resin/SCRIMP additives, 44:30; Rovel plastic, 34:59; styrene emissions study/test enclosure, 40:17, 41:5; vinyl ester fabrication manual, 44:36
Dowco Marine: custom-made covers and biminis, 116:10
Dowie, Chris: Design Challenge, 129:18
Downs-Honey, Richard: developments in UV-cured pre-pregs, 131:28; High Modulus/New Zealand advanced composites supplier/engineer, 55:58, 121:100, 158:54; laminate samples/preparing suitable test specimens/What to Test, 158:54

Dr. LED (Seattle, WA): LED replacements for common marine halogen lights, 115:74

draft: canoe body/offshore racing yacht classification, 48:9, 50:5

draft, shallow/shoal: interchangeable keel/Interkeel, 37:66; and surface propellers, 2:52; vs. deep draft, 139:54

draft marks/freeboard: measuring/stability test, 47:63; measuring tools, 42:32, 4:5


DragonFlyer sailing dinghy, 148:18

Dragon Powerboats: Dragon 39 all-epoxy boat with carbon and Kevlar reinforcements, 92:6

drainage: reducing drainage area requirement calculations, 114:4

drawer slides: Accuride ball-bearing slides, 107:14

drawings/diagrams: for owners’ manuals, 27:46. See also design drawings/drafting/models

dredging: ship channels/ACE policy, 51:11

Dreyfus, Tom: on woven roving/cored construction, 29:38

drill, air: applications, 33:64

drill bits: auto-reversing tapping head, 60:104; Bullet, 2:70; for cutting sample coupons/plugs, 49:24, 49:25; extra-long, high-speed twist, 35:58; Scorpion Anti-Slip/drywall screws, 15:70

drill press: Delta 32” radial, 11:52; metal-drilling, 48:56

drills: auto-reversing tapping head for, 60:104; DeWalt cordless drill/driver, 48:86; Drill-Mate caulking gun, 13:70; right-angle, 10:52; solid-grip/hammerdrill, 1:68

Drip-Free Packing: stuffing box packing, 29:14, 29:21

driver, pivot: Pivex replaceable-bit, 44:54

drive systems. See propulsion/drive systems
dropcloth: Tape’n Drape, 3:60. See also painting supplies

Drott Manufacturing: Marine Travelift acquisition, 57:133

Drum (monohull): 62:46

drums, resin/gelcoat/chemical: Barrel Harness, 8:54; containers for (Enviropac),
9:56; Drumroll leak-control system, 26:54; storage/inert-gas cap, 15:13
dryers, air. See air dryers
dryers, hot-air: for drying water-saturated flotation foam, 37:48
dry ice: use for cleaning and removal of contaminants/Cold Jet, 141:6
dry storage. See boat storage, dry-stack
Dubois, Ed, N.A.: obit, 162:12; 12-meter Victory, 162:12
du Plessis, Hugo: book Fibreglass Boats/modular moldings/emergency repairs, 79:8; on DCPD laminate repairs, 55:5; on English or Metric Units, 103:6; on moisture meters, 66:5; on safety aspects of boats built with modular moldings, 79:8
Du Pont: DBE (dibasic ester), 6:10, 10:8, 10:17, 33:20; development of polyester resin, 38:30; 50P isocyanate-free enamel, 15:70, 19:8; FE 241, 30:60; HFC-134a refrigerant, 16:35; Kevlar cutting/machining manual, 43:54; MP 39 refrigerant, 22:56, 26:8; MP 66 refrigerant, 26:8; Nomex Decore, 51:114, 52:4; R-M 858 compound (for gelcoat), 15:44; R-12 (Freon) refrigerant, 16:35
Du Pont Imaging Systems: Quantum QFT-2 ultrasonic scanner, 17:58
Duckboats: 56:10; safety concerns, 63:10
Duckworth, Arnie: developer of DuraKore, 15:34; DuFLEX panels, 59:10, 63:162; on smarter, faster tabbing/WOMBAT Junior tape-impregnating machine, 121:9
Duclos, George: Gladding-Hearn/T-boats, 36:22
Duffy Electric Boat Company: electric speedboat, 50:11; Duffy Voyager, 61:52, 76:60; trial of fuel cell powered water taxi, 75:14
Duffy Voyager: wave-piercer, 50:13, 61:52, 76:60
DuFLEX: blasa-cored composite panels, 59:10, 63:162
Duggar, Rodney: on video production, 16:22, 22:42, 22:45
DUKWs, amphibious vehicle: 56:10; 63:10
Dumond Chemicals: Peel Away Marine Safety Strip, 18:54, 31:10, 33:75; Recyclean pressure-washing/vacuum-recovery systems, 33:75
Duppenthaler, Vic: and Sunbird Yachts (China), 103:72; 128:38
Duppenthaler, Vic: on blister repairs, 16:42; on bottom prep/environmental compliance, 31:10, 31:16; on diversification/Padden Creek Marine, 37:16; on gelcoat maintenance/restoration, 15:44
DuraCraft: 69:52
DuraKore end-grained balsa, strips: costs, 15:34; joining end-to-end, 15:34; Ocean Surfer/Dick Newick, 122:40; one-off applications, 1:20, 2:12, 15:34, 34:18, 34:21; print-through/post-curing, 34:18, 34:21; strength/stiffness, 15:34; strip-planked construction, 34:18, 34:21, 77:82; strip-planked construction/tooling, 15:34; tooling for, 16:4; vs. foam core, 15:34. See also balsa core (end-grain), in cored/sandwich construction; Baltek Corp.
Duramold: hot-molding process/Spruce Goose wood airplane/Howard Hughes, 151:6
DuRant, Suzi, author: “Prop Re-Pitching Made Easier,” 119:6

Dura-Skrim: fiber reinforced polyethylene covers and tarps, 155:4. See also Hall, Thomas


Duroboat: interlocked aluminum boats, 4:42

Duroometers: See Barcol hardness tester; Shore tester

Dusseldorf Boat Show, 115:128


Dust, wood: controlling/Blovac air gun, 8:54; controlling/Bad Dust Containment Systems, 129:8; exposure limits/1989, 1:30. See also dust collectors, for air-driven sanders and cutters; dust-collection/extraction systems

Dust-collection/extraction systems: anti-static gun/Nuclejet, 48:86; benefits/types, 28:38, 28:47, 84:10, 84:10, 87:10; Bad Dust Containment Systems/centrifugal air current, 129:8; for bottom prep, 31:10; centralized systems, 28:38; Delta Dust Collector/Sweeper, 20:56; Diatrim’s heavy-duty air saw trimmer with dust extractor, 84:10; Dustcontrol/Transmatic, 28:38, 28:46, 28:47; exhaust, 28:38; Hutchins Manufacturing Company surface sanding equipment, 85:4; ionizing blow-off guns/The Neutralizer, 129:8; Portavac, 34:59; in Scandinavia, 2:67; separators, 28:38; sources, 28:46, 87:10; for vacuum-bagging, 28:38. See also vacuum cleaners/systems; ventilation systems, shop

dust collectors, for air-driven sanders and cutters: AirWall, 13:70; Dust Muzzle, 19:59, 66:5; Festo/Diatrim, 5:26; pollution control, 29:4; Powermatic Artisan 73, 18:54; Sand Trap 73505, 20:56; sources, 87:10; Vacuum Sanding Systems, 20:56

dust control: sanders, 84:10, 87:10; through-the-pad vacuum sanding/Hutchings Manufacturing Co., 85:4

Dustcontrol/Transmatic: dust extractor shrouds, 28:38, 84:10; dust-collection systems, 28:38, 28:46, 28:47, 84:10

dust mask: improved, 3:60

dust, wood: Oneida Air Systems dust collection, 87:10

Dutch Carbon Yachts (Netherlands): D Carbon 36 carbon constructed sailboat, 104:12

Dutch Sea Rescue Organization (KNRM): NH 1816 model rescue boat/Damen Shipyards, 147:10; 149:48

Du Toit Yacht Design (South Africa):

expedition power catamaran, 143:10
dye penetrant testing, 111:26; 113:4

Dyena’s Acceleration Recorder device, 142:8, 144:80

Dyer 29: center console with cuddy cabin, 82:8

Dykem machinist’s dye: for sanding/fairing plug, 59:76

Dykstra Naval Architects: Gerard Dykstra, 89:50, 141:50; Dream Symphony/world’s largest private sailing yacht, 141:50; Hetairos, 219’ ketch/Baltic Yachts, 141:50; J-Class Yachts, 141:50, 143:40; never built yachts, 141:50; 152’ Windrose of Amsterdam/Holland Jachtbouw, 143:40
Dyna: welded aluminum yacht and Morag Mhor. 86:4
Dynabrade, Inc.: air router with dust extractor/Dark Matter Composites, 144:10; DA pneumatic sander, 33:58, 33:64; Dynaline finishing sander, 42:74; Dynorbital random-orbit wet-sander, 17:58
Dynaloy, Inc.: Dynasolve M-30 solvent replacement, 20:56
dynamic mechanical analysis (DMA) testing: 87:62
dynamic stability. See stability, dynamic
Dynamic Stability Systems (DSS): retractable horizontal hydrofoil/shifts lift to leeward, 157:14, 162:52; Dali foils/appendages design, 162:52
dynamometer: composites testing, 48:16, 56:26
Dynamote Corp.: inverter supplier, 25:34, 25:40
Dynaplane Design: model-testing, 160:66; stepped planing boat, 97:164; 116:40
Dynarig: furling system for/Gerard Dijkstra design, 89:50
DynaYacht Inc.: builder profile/DynaFlyer 40, 47:17; canting ballast/twin foil, 76:10; merger with Reichel/Pugh, 76:10
Dynel: applications, 11:5; 85:10

East Carolina University: Center for Applied Technology/boatbuilding association, 21:12
East Coast Interiors: motoryacht MJM34z interior modules, 98:28, 99:52; yacht interior components, 97:10, 98:28
Eastport Yacht Co.: Eastport 32 utility-style luxury powerboat, 12:10; twelve boats a year business plan, 123:10
Echlin, Bill: on marketing and publicity, 6:5
Echtermeyer, Andreas: advanced-composites research, 47:57
ECI: Extender putty delivery/fairing system, 27:70
economic development: outsourcing for company expansion, 63:29
economic downturn/recession: advice for career continuation/recreational marine industry, 124:72, 135:72, 137:4; at Bruckmann Yachts, 139:74; business strategies for service yards and boatbuilders, 121:62, 127:30; at Campion Marine, 143:52; financial management, 9:13, 11:34, 12:2, 13:26; at Cable Marine, 121:62; Dennis C. Choate, 126:56; at Gold Coast Yachts, 124:42; at Huckins Yacht Corporation, 121:62; James Betts, 129:38; at Keefe Kaplan Maritime, 121:62; marketing/advertising, 7:72, 11:34, 117:54; R&D/product development, 45:120; 117:54, 127:4; “Refresh, Not Refit”/ Knight & Carver Yacht Yard, 127:42; retrofitting molds/San Juan powerboat/San Juan Composites, 121:62; at Stingray Boats, 127:30; at Trinity Yachts, 121:62; at Westport Shipyard/Pacific Mariner, 121:62; at Willis Marine, 121:62
economics, impact on marine industry: mid-1970s devaluation/embargo (American

Eco-Wolf: Seacast/pourable recycled fiberglass, 134:6. See also SeaWolf

Eddyline Kayaks: thermoformed hulls/Carbonlite 2000 polycarbonate acrylic alloy, 60:11

Eddy Products: Mark IV heat gun, 12:60

Edensaw Woods: lumber inventory variety, 135:6; thirtieth anniversary 151:12

Edey & Duff: 27' guide fisherman, 3:11

Edinger, Bill: on reverse-osmosis watermakers, 68:5

Edmund Scientific: borescopes/fiberscopes, 35:42

EDS: Unigraphics parametric CAD system, 40:42

Edson AnBar: patternmaking/custom castings, 42:46

Edson International: Anbar Foundry acquisition, 158:18; Bone Dry 120 high-capacity diaphragm pumps, 44:54; bronze spline weights for drafting and lofting, 97:10; new 15th anniversary catalog, 114:10; gallon-a-stroke manual diaphragm pump, 158:18; Green Team environmental awareness program, 24:58, 38:51; Model 282 Pump-Out Cart, 29:58; NavCom tower for FLIR thermal-imaging night vision equipment, 113:10; pumpout boat service/equipment, 158:18; radial-drive steering system, 158:18; wormgear steering systems, 158:18

Edson, Jacob: founder of Edson International, 158:18


Edward’s Boatyard: yard boat, 42:34

Efficient Spray Technology: SATA HLVP Jet 95 sprayer, 37:42; SATA HVLP paint system/air-fed mask, 23:54

Eggerts, Fritz: on mold release, 12:27

Egg Harbor Yachts: outsourcing/laminate kits, 35:58; acquisition of Predator Custom Yachts, 87:16, 102:86; Egg Harbor 37 lobsterboat, 102:86
Egret Boat Company: Egret Offshore boat, 71:6
Eichinger, Chuck: on jet boat design, 36:50
EIFO (Easily Identified Flying Object):
carbon fiber racing trimaran/Hydrosail, 75:14
Eikenberry, Peter D., Sr.: on reverse-label
makers for affixing HINs, 60:5; on
professional engineer (p.e.) licensure, 102:4
Eiland, Brian: on diesel electric
technology/permanent-magnet DC
motors, 144:4; on radical custom
sportfishermen boats, 103:6
Ek, William J. ("Bill"): recreational boat
companies/sales and marketing/obit for, 158:8
Ekelmann, Tom: on lightweight, reliable
diesel engines vs. larger HP-per-ton
types, 126:6
Elan Marine (Slovenia): Elan Power 35 boat, 85:10
ELCI (equipment leakage circuit interrupter), 117:18
Elco: 24’ electric launch, 3:11; electric
launch replicas, 18:20; electric motor
repowering, 135:6, 137:6; EP-1200 three-
phase AC motor, 135:6; interior design, 6:34; wooden runabout replicas, 18:20
electrical appliances, AC: battery charging, 19:50, 39:56; grounding, 30:38, 30:44;
maintenance manual, 43:83. See also electrical loads
electrical appliances, DC: maintenance manual, 43:83. See also DC systems/equipment; electrical loads
electrical cables: arcing faults, 134:54;
excess wire lengths, 152:58; fire-resistant
cables/Belden Next Generation, 109:17;
Molex, 156:4; protective boot for DC
positive feed wire to starter motor, 152:58;
sizing/safety standards, 35:18, 35:19,
sizing/AWG vs. AWG, 37:4; stray-current
corrosion/prevention, 33:28, 94:84,
134:54; tinned cable, 82:58, 134:54,
135:4, 138:3, 139:5; thermoset vs.
thermoplastic insulation, 55:99; untinned
wire, 138:3; wire splices/crimping, 134:54;
wiring/overcurrent protection, 36:41, 38:4,
57:48, 94:84, 135:4, 138:3. See also
battery cables; cable sheathing; cable
ties; grounding; wire/cable, marine
electrical loads: battery selection, 18:44,
18:47, 111:82; DC-to-AC inverters, 25:30,
25:38, 39:56, 57:100; genset
selection/installation, 37:26. See also
electrical appliances
electrical panels: AC vs. DC, 8:12; Cantilupi
designed and built (Viareggio, Italy),
108:62; location, 11:9; outsourcing, 37:16,
82:40; Palawan, 82:40;
waterproof/Newmar Seaproof, 45:105;
wiring considerations, 8:12, 70:35; 82:40
electrical power: actual cost of, 120:52
electrical service: for machine shop, 48:56
electric shock: causes/prevention/grounding, 30:34, 94:84; marina swimming
death/cause of, 94:84; silicone rubber for
sealing electrical connections, 104:4
electrical systems: 1990s retrospective, 60:27; bilge pump wiring, 57:48; bus bars, 36:44, 38:51, 64:5, 134:54; bus bars/high-
current/shop-made vs. manufactured,
59:21, 62:7; cranking circuit/slow-blow
fuse, 134:54; Controller Area Network
(CAN), 99:82; Digital Signal Rocker
Switch/Cole Hersee Co., 86:14; digital
switching electrical systems, 105:78,
electronic temperature measurement. See also thermocouples.
electronics: components/catalog interface
data, 47:80, 49:4; controller area network (CAN), 156:24; wireless local area networks (WLANS), 154:24; See also navigation instruments/systems
electronics: options/systems, 87:46
elevator: for wheelchair-accessible yacht, 57:15
Elgin outboard motors, 121:9
Eliasson, Rolf, author: “STIX,” 81:128; “Case Study,” 104:42
Elling E4 motoryacht: Neptune Marine Shipbuilding publicity run to meet EU Category A ocean classification, 156:12
Elling Yachts: E4 motoryacht/capable of 360° rollover/Frank Mulder, designer, 158:54; hydraulic pivoting mast, 158:54; profile of, 158:54
Elliot, Henry: cored parts, 136:56;
profile/advanced composites, 56:40;
profile/advanced composites/Cogito, 39:3, 39:30, 47:57; on fabric impregnators, 5:34, 39:3; honeycomb cores/sheet adhesive, 36:78; on integrating carbon fiber skin plies, 61:34; and Composites Technology Program at IYRS, 136:10; on post-curing, 14:45, 14:48
“Urethane Gelcoats for Epoxy Laminates,” 49:60
Elliot Bay Boatworks: steam launch replicas, 18:20
Elliot Bay Design Group: 3D structural model of Moloka’i Strait MS75 Hercules vessel, 114:20
Elliot Corporation: WebCore, 52:30
Elliott, Bill: builder profile/Bay Ship & Yacht Company, 20:8, 21:38; on estimating, 21:38
Elliott Associates: honeycomb core installation, 36:78
Elliot Bay Design Group: CAD/CAM applications, 7:18; CAL/NCC integration, 38:38, 38:47; kit boats/3-D CAD models, 40:24
Ellis Boat Company: Ellis 36 Express cruiser, 67:70; UltraJet waterjets, 67:70
Ellsworth, Robert: on fuel-injected gas engines, 12:4
Elsevier Advanced Technology: Data Book of Thermoset Resins for Composites, 25:59
Elsherif, Moustafa: drafting of Rule 1162, 26:34
Emarine Training program: and Professional BoatBuilder magazine, 96:6
emergency craft: The Clam, folding-rigid inflatable boat (FRIB), 71:6
emergency flotation system: Yachtsaver II, 13:70
Emplo Products Corp.: single-phase compressor, 33:58
emissions: diurnal emissions control/phase-in, 121:72; evaporative emissions rule, 121:72; charcoal absorption system for small shop, 73:26, 28; European Union and allowable carbon dioxide emissions, 158:88; for recreational vessels, 157:40; IMO compliance deadline, 157:40; implementation of IMO Tier 3/EPA Tier 4 and phase-in, 157:40; Marine Engine Testing and Emissions Laboratory testing/Maine Maritime Academy, 161:8; nitrogen oxides, 157:40, 158:88, 161:8; selective catalytic reduction, 157:40; test cycles within ISO 8178-4 and CFR Title 4, 157:40; urea/conversion for nitrogen oxide emissions, 157:40; Volkswagen diesel cars/emissions software rigging, 158:88; emission solutions/Alternatives Energies (Alt.En), 144:10. See also fumes, removal.
EMMA (easily manipulated mechanical arm), 118:16
Empacher, Dieter: Comet, retro commuter, 97:82; design ratios booklet/Understanding Your Boat Using Design Ratios booklet, 51:11; 70’ center-cockpit ocean cruiser/Brooklin Boat Yard, 84:36
EmpirBus, 97:148; 98:50; NMEA 2000 switchover, 131:46; multifunction navigation devices, 131:46
employees. See work force (employees) emulsifiers. See resin emulsifiers/cleaners
Encompix: materials requirements planning system software, 96:52
Endeavor Catamaran Corp.: offering sea stainer, 61:115
Endeavour, J-class sloop: Gerard Dijkstra & Partners, 89:50
endless shelf life: EcoPoxy resin, 123:10
end-of-life boats, 111:12
engine beds: fiberglass boat recommended dimensions for, 72:46; problems with hollow aluminum, 72:46; rebuild of 1965-vintage Chris-Craft, 156:54; steel I-beam vs. aluminum, 46:16
engine chuck: high-precision, 5:58
engine cleaner/degreaser: Super Clean, 38:55
Engine Connection, The: remanufactured gas engines, 44:54
engine-control systems, electronic: Micro Commander, 1:68; Volvo/smaller engines, 57:15
engine-control systems, mechanical (push/pull): wire chases/dragging tools, 28:14, 30:4; Solo low-drag control cable, 29:58
engineer. See designer/naval architect/engineer, profession/responsibility
engineered wood. See hardboard substrate engineering. See design/engineering considerations/parameters; designer/naval architect/engineer, profession/responsibility
engineering consultants. See International Marine Consulting Associates
Engineering Plastics, Inc.: custom-engineered plastic components, 35:58
engine exhausts: back-pressure/horsepower ratings, 59:56, 89:66; maintenance/corrosion, 45:5, 45:32; exhaust gas bubbles ascension rate device/ Kiko Villalon, 114:94;


drystack exhaust pumps, 112:48; for reducing noise/vibration, 5:42, 34:22, 34:26, 34:27, 36:4; suppliers, 34:27. See also vibration control, engine/propeller

engine oil: changing/Reverso pump oil-change system, 40:66; bypass filter system/manufacturers, 144:24; centrifuge oil filter systems, 146:4; coking/sulfation, 144:24; crankcase oil/engine storage, 122:52; dissecting oil filters, 143:62; field oil analysis tool, 144:24; oil analysis/prediction, avoidance for mechanical failures, 143:62; oil analysis program offer/Volvo Penta of the Americas, 149:10; oil cooler, 85:130; oil sampling valve, 143:62; permanent filters, 49:79; purifier, 3:60; puraDYN bypass filter heater, 144:24; synthetic oil, 144:24; synthetic oil change intervals, 144:24; ZDDP additive, 143:63, 144:4
engineroom fires, 137:22
engineroom layout: accessibility allowances for/good vs. poor layout, 124:32;
batteries/charging, 39:56;
design/construction/Rybovich, 25:42; Boat Engine Integration Center/services for
design layout, 115:32; design/long-range
cruiser/Sparkman & Stephens, 59:44;
design/size/layout, 37:26, 37:30, 37:34,
46:16; fixed fire extinguishing systems,
125:24, 137:22; Integral Engineroom
Cooling & Ventilation System/Vripack
designed yachts, 108:44; temperature in,
145:56; ventilation control system, 137:34
engines, marine, CNG (compressed natural
gas) fueled: Honda, 44:49; repowering of
33 Bertram/diesel vs. gasoline engine,
116:80
engines, marine, combined diesel and gas
turbine (CODAG): horsepower
ratings/speed prediction, 59:56
engines, marine, computer applications:
diagnostics/performance software, 13:38,
14:34, 14:38, 20:8, 45:105, 54:62;
electronic fuel injection (EFI), 11:52, 12:4,
14:34, 36:46; engine management
systems, 14:34, 14:38, 162:96; over-
reliance on electronic computer-generated
data, 162:96; pre-purchase engine
surveys, 162:96; SmartEngine engine-
monitoring software, 45:105. See also
engine-control systems
engines, marine, cruise control: for ski
boats/Correct Craft, 54:18
engines, marine, diesel: ABS/LR
classification, 39:80; Atlas Imperial
engine/1890s-vintage tug Elmore, 150:50;
biodiesel soy-based fuel, 34:55; bolt-on
transom bracket/Yanmar, 133:12; bonding
systems, 33:28; Caterpillar, 14:34; Caterpillar 3500C series ACERT
makeover, 95:6; Cobra sterndrive, 14:34;
control-station design/layout, 48:66,
48:79; Cummins, 14:34; Cummins
MerCruiser Quantum, 90:13, 111:42;
Detroit Diesel, 12:50, 67:5, 126:6;
diagnostics/borescope, 35:42;
diagnostics/Wyman’s formula, 54:96,
55:5, 57:7; diesel outboard reliability and
efficiency, 151:128; digital
diagnostics/repair, 14:34, 14:38, 20:8;
drowned/salvaging, 43:52, 46:5, 47:5,
48:4; early German and French diesel-engine submarines, 157:26; electronic
management systems (EMS), 14:34,
14:38, 17:52, 20:8, 57:15, 67:5; engine-
cranking battery, 39:56; fuel
consumption/efficiency, 44:38, 44:43,
49:8, 53:28, 59:56, 95:6, 151:128; fuel-flow meters, 26:54; high-speed four stroke engines/commercial/recreational, 157:26;
horsepower ratings/speed prediction,
59:56; injectors, 47:5; low-polluting, 27:61,
95:6; Lugger four-cycle, 11:52; for
megayachts, 12:50; Man Engines and
RDI Marine, 157:26; MerCruiser D-Tronic
V-8, 60:11; Mermaid Turbo-four, 15:70;
MTU, 14:34, 14:38, 95:6; Murray &
Tregurtha (M&T) diesel outboards,
151:128; noise/vibration control/engine
mounts, 34:22, 34:26, 34:27, 35:58,
38:55; noise/vibration
control/soundproofing, 5:42, 5:49, 17:19,
53:28, 70:21, 109:140; OMC, 14:34;
power/propulsion analysis/efficiency,
126:6, 150:50; power vs.
structure/offshore powerboats, 49:54,
126:6; propeller matching, 46:52; Rand
Cam/leading-edge, 57:88; raw-water
propeller-shaft stuffing box, 29:14; weight reduction in, 64:52. See also engineroom, layout; engines, marine, noise/vibration control
engines, marine, magnetic levitation (maglev) technology: development of, 59:56;
engines, marine, outboard:
acoustic/performance testing, 52:43; grounding/bonding systems, 23:4, 33:28; high-performance propellers for, 48:86; Honda fuel-injected, 22:56; Mariner/specwar, 52:43; mufflers/silencers/boat-noise control, 43:75
engines, marine, steam: Rankine-cycle/silent/multi-fuel capability/Harry Schoell, 160:16; Titanic, 53:12
engines, marine, turbine: horsepower ratings/speed prediction, 59:56; power vs. structure/offshore powerboats, 49:54; Textron-Lycoming TF40B, 12:60. See also engines, marine, diesel
engines, marine, twin: 79:128
engine performance: Janelle’s PowerMate System/new vs. used engine comparison, 79:48
engine synchronizers: Auto-Sync, 2:70; Electro-Sync, 7:64
England: carbon fiber/production boatbuilding, 58:36; pedal punts, 55:16; RORC debate/cored-sandwich-construction scantlings/offshore racing yachts, 43:96; Royal National Lifeboat Institution (RNLI)/motor lifeboats/carbon fiber, 58:36; 2HO/cored structural laminate, 52:30; Wolfson Unit/University of Southampton (England)/model testing facility, 58:26. See also Carbospars Ltd.; Colvic Craft PLC; Irens, Nigel; Pike, Dag; Southampton Yacht Services; SP Systems; Sunseeker International; Vosper Thornycroft; Wise Handling Ltd.
Enholm, Gustaf: on Scandinavian hybrids; Mereth Oy Silver line of boats, 19:4
Englehard Industries/Electrocatalytic: galvanic isolators, 41:21
ENP (Estaleiros Navais de Peniche) Shipyard (Portugal): catamaran ferry/Nigel Gee and Associates, designers, 114:10
Entec West: plug-in generator, 7:64
See also air pollution; boatyard waste disposal/reduction/compliance; CFCs; Clean Air Act/Amendments; Environmental Protection Agency (EPA), regulations/guidelines/compliance; Halon; Halon, replacements for; HCFCs; recycling programs; spills, fuel/chemical, cleanup/containment kits; VOC emissions, reduction/compliance; water pollution

Environmental Container Corporation: Enviropac containers (for drums), 9:56; Spill Cleanup Kits, 20:56

environmental control booths: for dust control, 28:38

environmental health: clinics/resources, 38:6; illness/allergies, 36:88, 38:6. See also chemical sensitivities/allergies


EnviroStrip wheat starch blast media, 154:12

Envision Boats: marine insurance program, 30:54

Epaint: environmentally friendly antifouling paints, 105:106


Epifanes: destruction of Aalsmeer, Netherlands, factory, 66:11; nonskid deck coating, 1:68; profile of new plant, 95:6

E-Plex: E-Logic software package, 98:50; touch screen, 97:148

epoxy, hydrophobic: AdTech ES-211/tooling surface coat, 60:96

epoxy adhesives: for cold-molding, 51:36; description/applications, 41:44; for...

Professional BoatBuilder INDEX • 101
pressure-treated lumber/plywood, 23:50, 27:42. See also epoxy resins; pre-pregs

_Epoxy Basics_ book by Russell Brown, 150:72, 152:4


epoxy bondcoat/tiecoat: Duratec, 49:59, 51:6

epoxy compound: Redimix gun, 6:52

epoxy foam: expandable two-part epoxy foam/PRO-SET for filling sailboat appendages, 139:18, 140:4; for RTM tooling, 6:52. See also epoxy syntactic tooling foam/slurry/putties


epoxy paints/coatings: application, 52:54; ceramic/Ceram-Kote, 54:18; epoxy chromate/aluminum boats, 37:36; in-mold application, 49:59, 51:6; strippers for, 33:75


epoxy putty: for bedding floatation foam, 37:48; cure cycles/secondary bonding, 39:27; for repair of plywood-cored deck, 32:44. See also epoxy syntactic tooling foam/slurries/putties


epoxy syntactic tooling foam/slurries/putties: foam core bonding, 9:44, 31:34, 31:39, 33:46, 55:5, 70:92; and print-through, 6:52, 7:50; resin drainout, 33:46; sprayable, 7:50, 83:84; secondary bondline contamination, 39:19; temperature/humidity, 33:46. See also putties, syntactic

Equipment Engineering: Paint Pig, 8:54

Equipment Sales Co.: plasma-arc cutting equipment, 24:34

Erdevicki, Ivan (designer): Erdevicki 64 expedition ketch, 85:10

ergonomics: chair, 34:31, 34:32; hand tools, 37:71; head arrangements, 5:50; helm station, 114:30, 115:36; high-performance seats, 70:66; nav stations, 11:9, 65:33, 115:36. See also mock-ups, interior, as sales/design tools

Eric Goetz Custom Sailboats. See Goetz Custom Sailboats


ES Manufacturing Inc.: catalog of laminating tools, 25:59

Escalera, Dwight: “Lithium-Ion Batteries: Handle With Care,” 136:80

Esposito, Lorenzo: on laminate repair, 66:78; on standardized lab testing, 50:46

Essex Island Marina: three-legged hoist, 36:20

ester oil: lubricant (refrigerator compressor), 16:35

Esthec, composite deck material, 125:20, estimating/bidding. See builder’s contracts/estimates/bidding

ETAP Yachting: sailboat/resin-transfer molding, 50:11

Ethernet: advantages over Controller Area Network (CAN) cable system, 98:50

Etsell, Richard W. (Rick): on designers’ association, 7:5; on simplified stability/inclining tests, 44:5

Etsell, Richard W. (Rick), author: “CAD/CAM Software Is Improving All the Time,” 17:58

Euromere barrier coat: vs Spraycore barrier coat products, 113:4

Europe: blistering problems/repairs, 16:42; cooperative boatbuilding ventures in, 23:4, 26:51; European Community/European Union, 55:87, 60:82; FRP recycling programs, 60:82; resin-transfer molding in, 26:44; trade exhibition (Marine Equipment Trade Show), 55:3; U.S. and European wiring oversights, 152:58; yacht restorations, 52:12. See also specific countries

Europe, model-testing facilities. See model basins/tank-testing facilities and programs, Europe

Europe: competition in powerboat building trade, 74:96

European Union Directive: on whole body impact and vibration, 142:52

European Union (EU): CE marking/European exports, 129:8, 154:56; standards for exporting boats to, 63:38; 81:128, 84:18, 129:72, 142:8; STIX, Stability Index, 81:128; and Tier 3/Tier 4 limits for emission standards, 157:40


Eurostyle: interior design, 6:34

Evans, Chris: on designing for production, 2:60; on design mock-ups, 9:28

Evans, Frank: on photo-initiated resins, 18:8, 18:17


Evolution Company, The: lip-type shaft seal, 29:14, 29:21

excursion boat market: Blount Marine 192-footer, 3:11; catamarans, 22:64, 30:48, 45:120, 47:5, 57:15; dinner-cruise/gaming vessels, 36:22; marine trade association, 4:9; NQEA, 63:106; sailing kayaks, 22:64; Subchapter T boats (small passenger vessels), 36:22; Westport Shipyard 95-footer, 51:11. See also ferries; passenger vessels

Exeltech: inverter supplier, 25:34, 25:40


exhaust system. See engine exhausts; engine exhaust system, dry; engine exhaust system, wet; mufflers/silencers

Exley, Chris: on sportfishermen tower pod, 104:4

exotherms: “bucket effect,” 108:100; exothermic reaction/cross-linking/catalyst ratios, 1:6, 50:46, 108:100; “the hot hut” fireproof disposal site/Viking Yachts, 131:54; monitoring/photo-curing resins, 18:17; resin shrinkage/open- vs. closed-
molding, 45:68, 50:46; resin shrinkage/tooling, 21:50; runaway exotherm/controlled cure, 125:54; specific heat/laminate table/warped panels, 45:68. See also resins, curing/exotherm cycle.


exporting: to Europe, 41:38, 55:87, 63:38, 129:72

Extend-a-Yacht: American Custom Yachts’ custom steel jig for extending hulls, 66:11

extensometer: tensile testing on laminates, 87:62

extrusion molding. See coextrusion

Exxon Valdez, 127:104

fabric, polyester. See Trevira polyester fabric

fabric adhesive: Pemco 3011, 10:52

Fabrication Specialties: diversification, 56:40

fabric cleaner: Super Clean, 38:55

fabric flotation collars: Wing Inflatables, 65:97


fabrics, fiberglass. See fiberglass fabrics/reinforcements

fabrics, marine/upholstery: design mock-ups, 9:28; Nautelex vinyls, 6:52; photorealistic studies, 40:48; performance boat seats/Outerlimits Offshore Powerboats, 133:84; Stamoid Super Light, 34:28, 34:32; Sunbrella, 32:15; UltraSuede, 3:60, 6:34, 6:39. See also upholstery/cushions

fabrics, release. See Peel Ply/peel ply

fabrics, sailcloth: Vectran, 41:58

fabrics, self-adhesive: Saerfix, 129:8 fabrics, specialty (laminating). See carbon fiber; Kevlar; Spectra (polyethylene) fibers/fabric; Trevira polyester fabric


face shields: 3M W-8100 Whitecap II, 7:64; review/sources, 3:19

Facilon: reinforced-vinyl tent fabric, 19:25


fairing batten: for compound curves, 28:10

fairing compound: Awl-Fair, 23:54

fairing putties. See putties, fairing

fairing problems, prevention of: 67:49
fairing software. See computer software, hull design/fairing
fairing techniques: aluminum battens and angle-iron screeds, 77:52; “concurrent” fairing at De Vries Scheepsbouw, 77:52; parametric surface equation/Fairline/1 CAD, 79:8, defensive painting, 52:55. See also putties, fairing
fairing tools: foam pad, 60:27; PowerBoard, 24:62; 3M Hookit Rigid Fairing Board, 102:14
Fairline: hull-design software, 7:18, 8:35, 17:58, 79:8; Version 2.85, 12:60
fair market value: appraisal of, 85:30; pre-loss value, 85:30
Falcao, Francisco A.M.: on metric conversions, 69:5
Falcon Marine/Falcon Maritime Ventures: aluminum fabrication system/convex-curved plating, 24:39; demise/420-passenger catamaran, 57:15
Falcon Safety Products, Inc.: Push-Button Signal Horn, 7:64
Falls, Bruce, author: “The Basics of Engine-Control Technology,” 17:52
Falzarana, Jeffrey, author: “What We Know About Porpoising,” 31:28
Family Boatbuilding Week: Alexandria Seaport Foundation and WoodenBoat Magazine event, 83:14
fan: Air Cyclone, 25:59
Fanello, Guiseppe: C24 metal boat, 133:40; Design Challenge, 129:18. 133:40; Piero M, mini-trawler yacht, 129:18;. See also Xanthakis, Jannis.
fans, circulating: operation in high temperature conditions, 81:110
Faria Marine Instruments: Battery-Condition Monitor, 21:60; Chinese counterfeits, 103:128; “Dress White” instruments/control panel, 11:52
Farinholt, Ned: on Campion Marine’s use of Efusion electric outboard/test boat run, 145:4. See also Caouiette, Pierre.
Faro Arm, computerized measuring device: 78:94; 81:42
Farr, Bruce (designer): cored Kevlar/S-glass laminate/Baltic 60 yacht, 85:46; Millennium 65, 59:10, 71:70; profile, 61:66; and computer modeling technology, 61:66
Farr Yacht Design: and Young America hull failure, 65:66; boat design for Oracle Racing Inc., 69:13; and finite element analysis (FEA) modeling, 78:29
Farrow, Paul: Walden Paddlers/kayak market/outsourcing, 37:16
Organic Products/torque seal, 113:10; Spiralock’s 30-degree wedge ramp, 104:22; Stage 8 retainers for fastener heads, 104:22; structural adhesives for, 18:4, 32:52, 41:44, 69:70, 97:130; Tenax self-locking canvas fasteners, 141:6; thermoplastic materials, 86:62; Threadsize Calculator application, 151:12. See also specific fastener types; nails; rivets/riveting; screws entries

fasteners, acrylic-adhesive-mounted: Click Bonds/X-Serts (adhesives/applications/installation), 18:4, 32:52

fasteners, nuts: Nylok elastic stopnuts/keel fasteners, 38:20; Southco captive nuts/electronics, 41:62

fasteners, removal, tools for: Drill-Out bolt/stud extractor, 46:65; Fuller plug cutter/wood screws, 23:20; Invis magnetic field device for fastening and detaching parts/panels, 79:10; Pivex pivot driver, 44:54; T & L extractor/wood screws, 24:58


fasteners, synthetic: nylon nails, 51:36; plastic nails, 9:57, 31:68

fasteners, through-bolts: alternative to (blind fastening/epoxy annulus), 15:21, 118:52; and electrolytic corrosion, 88:46; epoxy-potted (keelbolts), 51:36; epoxy-potted (plywood-cored transoms), 32:44. See also fasteners, removal, tools for fastenings. See fasteners

FastCats Ferry Service: advanced-composite SES high-speed ferry, 75:78

Fastmount Ltd.: panel-mounting systems, 104:22; expanded line of concealed attachment systems, 133:12

FastShip: Proteus Engineering surface modeling program, 61:66

fathometer/speed indicator: Bruntons Propellers/IonGuard sacrificial anode, 115:128; fatigue resistance, of laminates: resin toughness, 28:18, 49:54; resin quality/knitted reinforcements, 29:38; secondary bonding/skin-to-core bonds, 49:54, 70:92, 75:58; standardized testing, 2:42, 4:22, 4:64, 34:42. See also carbon fiber, strength/loading/stiffness/impact tolerance; ductile material; laminates, marine

fatigue limits of steel and aluminum, 137:56

Fatula, George: on HVLP spray equipment, 29:8; on respirator use and safety, 16:4

Fatula, George, author: “Increasing Transfer Efficiency with HVLP,” 34:35

faucets, marine: Scanmix, 30:60

faux bois finish: John Alden schooner Summerwind/GMT Composites, 146:40

FB Design: 66:11; Interceptor 70, 69:13; memoirs (Progetarre per Vincerre), 134:36; profile of, 133:84; Nighthawk/stepped hull prototype, 133:84; Red EPTCesa powerboat, 133:84;
134:36; STAB hull/inflatable sponsons/guards, 133:84, 134:36; start-up of High-Speed Research Facility, 93:10; Tecno G10/G12 modular seat, 70:66; 3Tab System, 134:36
Fazekas, Amy: on *Young America’s* structural design, 64:5
FE 241: Halon replacement, 30:60
Feadship (First Export Association of Dutch Shipbuilders): 63:123; De Vlijt yard, 77:70; and New York Boat Show 1953, 77:70; anti-roll tanks, 93:30; ship motion simulator, 67:13, 77:70, 93:30; stabilizing systems/*Heather II*, 77:70
Feadship motoryacht: restoration/repair of, 63:123
Fearn, Bob: on 100 knots yacht speed prediction, 104:4
Feigenbaum, Stanley: on Whisperprop propulsion system and additional weight, 101:4
Fein Power Tools: angle grinder, 36:78; auto-reversing tapping head, 60:104; dust collectors/extractors, 28:38, 28:46, 28:47; Mini Angle Grinder, 21:60; oscillating caulking cutter, 45:105; portable vacuums, 84:10; triangular sander, 6:52
Felkay, Thomas: on Podcat Catamarans, 133:6
Felker Boat Company: rowing shells, 4:30
Femenia, Jose: licensure exam, 47:24, 86:4
Fenner Manheim: PowerTwist V-belt, 5:58
ferries: advanced composite high-speed, 75:78; aluminum/Hargrave, 43:36; aluminum high-speed, 65:84; fast/catamarans, 45:120, 47:5, 53:12, 57:15, 59:10, 63:106; Madras Ferry test model, 34:45; marine trade association, 4:9; NC cutting applications, 42:74; *Lake Empress/Austal USA*, 90:13; NQEA’s high-speed ferries, 63:106; Panamanian passenger ferries/Joe Kitchell, 153:8; *Ranger* and *Patriot* aluminum catamaran ferries/Bruce Marek, 106:22; resistance/power options, 58:26; solar-driven ferry/Alternatives Energies (Alt.En), 144:10; small/T-boats, 36:22; stability, 42:26, 65:102; transport, 36:33; trimaran ferry hull/North West Bay Ships, 95:6; 48’ water taxi, 4:30; yacht hull, 40:24. See also catamarans, power; commercial vessels; excursion boat market
ferrocement boatbuilding: Allan Vaitses, 71:99; *Boatbuilding With Steel*/Gilbert Klingel, 83:3
Fexas, Tom: Aleutian Class 64, 69:13; aluminum-fiberglass megayacht/shoebox joint design, 17:19; classic 125’ fiberglass motoryacht, 65:11; Core-Cell cored motoryacht, 35:58; on cored bottoms, 51:22; on design process, 49:8; expedition class steel yacht, 67:13; *Midnight Lace* retro express motoryachts, 106:10; on model testing/megayachts, 56:26; on wet balsa core, 98:4; obit, 106:10
Fiat Powertrain Technologies: and Fabio Buzzi, 134:36, 141:6
fiber and resin high-tech parts, 130:52
fiberglass, recycled: disposal of and two processes, 160:40; GLS products, 37:66; hull-recycling programs/U.S. and Europe, 60:82
fiberglass-aluminum hybrid construction: applications/construction, 17:19, 19:4
fiberglass (FRP) construction, damage assessment/survey techniques: moisture content/water intrusion, 60:48, 96:16, 97:4; non-destructive, 25:18, 35:42, 88:62; survey haulout, 30:72; test coupons/repair patches, 36:34. See also moisture meters; surveying techniques/tools equipment; surveying techniques/tools/equipment, non-destructive
construction, damage assessment/survey techniques; laminates, marine, repair techniques
fiberglass construction, cored/sandwich:
fiberglass construction, cored/sandwich, damage assessment/survey techniques: decks, 27:61; non-destructive, 25:18, 35:42, 43:54; survey haulout, 30:72; tap-testing, 43:54; test coupons/repair patches, 36:34, 49:24, 49:27. See also core bonding, materials/techniques; delamination; surveying techniques/tools/equipment, non-destructive
impregnator applications, 5:34, 54:44; knitted heavyweight reinforcements, 29:38; for megayachts, 2:42
fiberglass construction, cored/sandwich, repairs: hull-drying techniques, 9:36; patching techniques/materials, 36:34, 108:100, 111:82, 113:4; plate glass tests for skincoats, 111:82; Sea Ray Boats, 96:16. See also fiberglass construction, cored/sandwich, damage assessment/survey techniques
Fiberglass Fabrication Association (FFA): training programs, 13:54, 13:65
Fiberglass Fabrications: hull plug construction, 16:7
lines, 20:32, 114:52; for single-skin bottom laminates, 51:26, 51:85, 71:38, 120:18; spray chop vs. infused bi-axial, 119:50. See also chopper gun


fiberglass fabrics/reinforcements, woven: Ancaref/polymer, 1:68; vs. boat cloth, 58:36; fiber orientation/taping and tabbing, 29:38, 29:45, 39:19; panel stiffness, 51:22; as pre-pregs, 24:18; vs. recycled, 37:66; vs. stitched/knitted, 29:38, 31:4, 32:4, 51:85, 58:36; stitched vs. knitted/fiber-to-resin ratios, 59:30; Super 317 Woven Roving, 25:59, 107:70; ZPREG/resin-inserted material/Advanced Composites Group, 80:12

fiberglass fabrics/reinforcements, woven bidirectional/hollow core: Parabeam, 19:59

Fiberglass Industries: development of woven roving, 38:30; Super 317 Woven Roving, 25:59

fiberglass tapes: chopped-strand alternative/secondary bonding, 20:32; fiber orientation/laminate schedules/taping and tabbing, 39:19. See also fiberglass fabrics/reinforcements, taping and tabbing

fiberoptic borescope: for non-destructive surveying/visual inspection, 35:42, 35:50; rentals/sources, 35:42, 35:50
fiberoptics: BritePak Fiber Tubing, 34:28; for interior lighting, 34:28, 34:32; sensors/"smart" composites, 46:45
fiber orientation. See carbon fiber; fiberglass fabrics/reinforcements; Kevlar fiberscope. See fiberoptic borescope
FiberSim software: for fabric cutting/stitching, 57:88; 85:10
fiber-to-resin ratios: 66:78
Fibertron, spray-on carpet" 77:10
fibre Bragg gratings (FBGs): deflection-induced loads/optical fiber sensing, 97:10
Fibreglass Boats: author Hugo du Plessis/emergency repairs, 79:8
Fielden, Barney: Sea Sled restoration, 51:11
Fife, Alyn: on Nautor’s Sawn and fuel systems for pleasure craft, 86:4; on hawsepipes in composite construction, 107:4
fighting chairs: aftermarket niche (Rybovich), 14:26, 14:32
Fighting Lady sportfishermen boat, 139:128, 140:4
filament winder: for axi-symmetric structures/Entec, 58:36
file, flat: diamond-coated sharpener, 19:59
filing: pneumatic Super Hand 100 A tool, 10:52
fillers: blister repair, 48:86; delivery/fairing system (Extender), 27:70; impact-resistant (SeaWolf), 12:60; microspheres, 11:52, 15:13; polyester (Quick Fill), 18:54; mold-release, 12:27, 12:28; storage of, 15:13. See also microspheres/microballoons; resin thixotropes
fillets/filleting: inside corners/chines, strakes, steps, and transom corners, 58:79. 60:5; inside corners/fillet radius, 29:43, 29:45; putties/taping and tabbing/secondary bondlines, 39:19, 42:5, 68:64
Filippone, Claudia: on Registro Italiano Navale and Green Star standard and Green Passport, 119:3
film, drag-reduction (DRF): applications, 57:88, 60:5
film, masking. See masking film/paper film, plastic. See plastic film
film, prismatic/light: Scotch Brand Parallel Light Film, 34:28, 34:32
film, vacuum. See vacuum bags/film
film adhesive: for carbon-fiber pre-pregs, 39:30
films. See video production; videos films, adhesive: replacement for spraypaint, 57:88
films, engineering, textured high-temperature: Quick Draw (VARTM), 32:28
Film Technology Inc.: Quick Draw film (VARTM), 32:28
financial planning. See accounting; economics, financing resources; impact on marine industry; inventory/parts; production boatbuilding, financial management/planning
financing resources: 63:29
Findon, Ed: and large scale projects at Baltic Yachts, 85:46
SP Systems and SPRINT products, 79:114
Findon, Ed, author: "Building A Curing Oven," 82:22
Finestkind Boatyard: depthsounder installation/drag reduction, 45:29
finite element analysis (FEA): ANSYS at Delta Marine Industries, 94:32; application for composite-built Schumacher 77,
fires, boat: aluminum hulls, 53:31; carbon sandwich/PlayStation, 60:11; fire protection regulations, 51:11, 53:31; and engineroom ventilation/safety, 137:12; fire protection and FRP construction, 62:78.; protective investigative procedures for, 71:27. See also fires, electrical; lightning protection systems; National Fire Protection Association (NFPA) standards/compliance


fires, dock: FAST ATTACK foam rig, 69:13

fires, electrical, causes/prevention: electrical cables, 35:18, 55:99; overcurrent protection, 36:41, 36:45, 57:48; wiring/DC systems, 20:50. See also electrical systems; wiring, marine

first aid: burn dressings/supplies, 8:54. See also accidents/injuries; worker safety/occupational health

Firth, Keith: on usefulness of technology offered in Professional BoatBuilder magazine, 23:4

Fischer, John: comment on ZDDP oil additive/aluminum piston vs. steel piston, 144:4

Fischer Panda: Aziprop, diesel-electric sailboat, 109:140; Bavari 49 diesel-electric sailboat; DC-AC Power System (DAPS), 92:12

Fischer, Robert: boatbuilder/performance composites/France, 103:142

Fisher 17’ flats boat, 2:12


fishing boats, commercial, construction: aluminum-fiberglass hybrids, 17:19, 17:31; changeover/luxury yachts, 40:24; fiberglass lobsterboats, 45:76; propeller matching, 46:61; welded aluminum, 21:26, 58:66, 59:71. See also powerboats, sportfishermen; powerboats, offshore sportfishing yachts

fishing rod holders: backing plates for, 127:84, 139:96; GEM Products “Bluewater” rod holder, 139:96

fittings. See deck hardware/fittings; rigging, stainless steel

Fitz, Frank, 143:3


Fitzgerald, Mark: designer/model testing, 55:32; prototype for Fitzgerald 36 design, 71:6


Flacksenhae, John J., Jr.: on marine common-rail systems fuel leaks, 89:4

Flagler, David: Cape Fear Community College program, 20:18; catalyst mixing system, 20:18, 29:51, 30:57; Clean Marine Solutions/wastewater treatment, 120:4, 134:6; Marine Education and Training Center, 46:10, 105:12

Flanders, Scott: Egret flats skiff, 47:40
flat-bar: vs. T-bar/framing systems/aluminum boats, 24:34, 26:4
flat-panel construction. See composite flat-panel construction; fiberglass construction, cored/sandwich, flat-panel
flats skiffs/flats-boat market:
Consolidated/Egret flats skiff, 47:40;
Fisher, 2:12; hull-to-deck joints, 60:104;
Maverick/market niche, 29:3, 30:4
Fleenor, Bill: on cored panel penetrations, 101:4
Fleming, Tim: RIB market/Zodiac-Hurricane Technologies, 48:50
Fleming, Tony: on Aquadrive engine vibration isolator, 35:4; founder of Fleming Yachts/career/profile, 151:96
Fleming Yachts: MAN 6-cylinder diesel engines/65 series repower, 157:26
Fletcher, Grant: Modular Marine/aluminum kit boats, 43:83
Fleming Yachts: Fleming 55 line/build list, 151:96; owner’s manual/eFit iPad, 159:22; profile, 151:96
Fleury, Paul: on battery cables/terminals, 22:4; on crimped vs. soldered terminal connections, 13:4, 2:4; on galvanic isolators/stay-current corrosion, 33:4, 41:21, 43:5; on marine wiring, 8:12, 9:5; on Wet Wiring Autopsy and crimping wires vs. soldering, 147:6
Flevo Jachtbouw: deck first build process, 132:18
Flexible Products Company: The Eliminator self-clearing foam gun, 11:52; HFC-134a flotation foam, 24:62
Flexi-resin: in minehunters, 65:84
Flexiteek, sandable PVC composite, 125:50; vs. PlasTEACK/PlasDECK, 126:6. See also NuTeak.
float switch: Rule non-mercury switch, 107:30
floating city ship: FreedomShip, 71:6; ResidenSea, 68:11
floating restaurant: Celestial, 62:12
flock, fibrous: for bonding polyester gelcoat to epoxy laminate, 49:59
floor coverings/mats: anti-fatigue, 23:54;
anti-slip, 23:54; fire-retardant protector, 14:57
floor structure: for RIB raceboat, 46:38. See also framing/framing systems/structure
flopper-stoppers. See stabilizer system
Florida Board of Professional Engineers: professional engineer (p.e.) licensure decision, 114:4, 115:6, 116:4, 117:88
Florida: Keys ecology/fishery, 29:3, 30:4;
environmental stewardship program/Tampa BayWatch, 44:49;
manatee protection efforts, 4:18, 5:7; St. Lucie County manufacturer incentive program, 32:48; sales tax/10 to 90, 37:66;
subcontractors in boatyard, 54:5. See also heat/hot-weather boatbuilding
Florida Dynamics, Inc.: Sea Torque enclosed propeller-shafting system, 36:78
Florida Institute of Technology: boatbuilding vocational training program, 46:10
Florida Keys Community College: vocational training program, 23:50
Flo-Scan Instrument Co.: fuel-flow meters, 26:54
flotation: design considerations/sinkability, 23:24, 23:26, 65:24; Ping-Pong balls as, 59:5
flotation foam, CFC/HCFC: EPA rule/exemptions, 28:54
flotation foam, guns/dispensing equipment: solvent-free, 2:28, 11:52
flotation foam, non-CFC: BASF/PRISMA

flotation foam, urethane, block:
installation/protecting, 57:42; water absorption/testing/compliance, 57:41, 57:42

flotation foam, urethane, blown-in:

flotation system, emergency: Yachtsaver II, 13:70

flow coaters: Glas-Craft, 27:70; Little Willie, 27:70; MACT point values, 60:39; sources, 27:70; types/technology/applications, 25:58, 55:26; waste reduction, 55:26

flow detector. See raw-water pumps/systems

Flowers, Richard and Rosa: owners of Custom Steel Boats (Stonewall, NC) murdered, 82:8

Fluke Corporation: brochure series, 36:78; brochure/multimeter testing for corrosion, 36:78; Fluke 23 multimeter, 44:54; Fluke 867 multimeter, 44:54

fluorescent lighting: 87:80

Flyak: hydrofoil kayak, 98:12

fly-by-wire: analog vs. digital, 73:120; integrating basic engine functions with systems management, 73:120; flying bridge: safety/liability, 15:50; MicroCommander, 73:120; raking height allowance, 69:92; SmartCraft, 73:120, MagicBus, 73:120.

flying boat: Gunboat’s G4 catamaran, 156:88; futuristic results, 156:88; wing in ground (WIGS, 154:12. See also DIAB

“flying I-beam": Goetz Marine Technology, 61:11

flying inflatable boat (FIB): introduction of, 59:10

foam. See flotation foam; foam, syntactic; foam cores; polyurethane foam; soy-based form, 143:52; urethane flotation foam

foam, closed-cell: Ductile, 10:52; for icebox insulation/R value of, 90:64; Softlite/ionomer plastic, 40:66; SeaDek, 125:20; use in Hy-Lite Powerboat construction, 66:11

foam, syntactic. See epoxy syntactic tooling
foam/slurries/putties; polyester syntactic foam; putties, syntactic

foam barrier, composite: for sound insulation, 5:42, 12:60

Follansbee, D.B., Inc.: Raske three-way valve, 7:64
Fontaine, Ted, Design Group: purchase of Ted Hood Design Group, 78:12
Footprint Boats: glued together catamaran/camper hybrid boat, 137:12, 139:5
Force 10 Marine Ltd.: galley stoves/oxygen-depletion sensors, 45:32
Ford, Bruce: on LeClercq Marine/transition to yachts, 40:24
Foresight Products: Duckbill cable anchor, 36:4
Forespar Products: Forespar Sea Valve, 33:75; Lightning Master dissipator, 43:64
forklift: Mariner F65, 19:59
Formica: facing for foam plug/Cogito, 39:30; facing for Styrofoam plug/plastic-faced-plaster (PFP) tool, 60:96, 60:103
Formica Corporation: development of plastic laminates, 38:30; Granulon, 34:28, 34:34; Nuvel, 34:28, 34:32
Formula Cruisers (New Zealand): switch from polyester to new epoxy laminate, 71:6
Formula 40 catamaran and carbon unidirectional reinforcements used in, 61:34; spectator appeal of, 72:84
Formulas for Stress and Strain: engineering handbook, 72:22
Fornaro, Dave, author: “Fine-tuning with FEA,” 133:46
Forpak Ltd.: plastic fastenings, 9:57
Forster, Bob: on survey reports, 30:26
Fortson, Charles Baird: on ultrariverine and mitigation of wave impact/hull delamination, 148:4
45 Degrees South: Bruce Farr design, 61:66
Fosset, Steve: round-the-world race/mega-catamaran, 58:13
foundries/foundrywork:
    patternmaking/custom castings, 42:46, 42:48
Fountain, Reggie: Fountain Powerboats/plant layout, 17:34
Fountain Power Boats: epoxy syntactic foam-cored tooling, 6:52; Fidelity sportfisherman/George Bush, 54:18; fire insurance/preparedness, 1:50, 26:18; plant layout/rebuilding after a fire, 17:34, 26:18; waste reduction/management, 28:48
Four Winns: Armorcote In-Mold Coating, 13:70; Posi-Turner applications, 10:52; shrink-wrapping (transport/storage), 18:28; switch to non-CFC foams, 2:28; videos production/marketing applications, 16:22, 22:42, 22:45, 22:49
Fowler, Glen: on negative aspects of reduced gelcoat, 21:4
Fox, David: propeller-matching program/analysis, 46:62
Fox, John: on epoxy resins, 42:52, 42:59; on SI units, 55:5; on structural core materials, 54:5
Fox, Uffa, designer: Firefly dinghy/hotmolded hull/Fairey Marine, 147:64, 151:5. See also Industrial Shipping Co.

Foye, Lenny: on turnaround at Chris-Craft, 82:4

FP Diesel: diesel replacement parts, 22:56

Frahm tank: 67:90

Fram, Mori: spray gun development, 38:30

frame-and-fabric shelters, 80:12


franchises: choice of law provisions and franchise statute, 150:20; dealer-builder relationship, 150:20; license and community of interest, 150:20

Franklin, Ian (New Zealand boatbuilder): profile, 71:73


Franzen, Iver C.: Pride of Baltimore II/Thomas C. Gillmer, 126:8; USS Constitution, 126:8


Fred’s Boat Shop: wheeled crane, 36:20

Frederickson, Paul: on T-bar strength, 29:4 freeboard. See draft marks/freeboard

Freedom Opportunities, L.L.C.: 4,320’ Freedom, 51:11

FreedomShip: floating city vessel, 71:6

Freedom Yachts: advertising, 31:80; carbon fiber masts, 57:7; Freedom 36/38 bow redesign, 45:86; Freedom 40/early FRP, 60:116; Freedom 44/free-standing rigs, 55:46, 57:7; interior design, 6:34; sailboat market, 30:48
Free Enterprise Systems, Inc.: Barrel Harness, 8:54
Frees Inc.: air quality management systems, 87:10
Freeman Marine Equipment Inc.: profile/aluminum marine closures (hatches/portlights/doors/windows), 41:62
Freeman, Rolland S. “Bud”: on surveyors in the boatyard, 71:5
Freon. See R-12 refrigerant (Freon)
Freers, German (Argentina): Swab sailboats, 84:52
freshwater systems: systems technician training/certification, 57:99. See also pumps; water tanks
Friedman, Norman: U.S. Small Gunboats/review, 52:3
Friedman, Phil, author: “Large Yachts, Light Construction,” 24:34
Frigast: 12-volt dimmer switch, 55:99
frog: vacuum inlet part, 79:114
Fronius welder, 116:52
Front Street Shipyard: profile of, 143:3, 28
Frost, Will: designer of Jonesport Island (Maine) lobsterboat, 73:3; great grandsons/Even Keel Marine, 79:10
Froude, William: early hydrodynamicist/performance prediction, 60:66
FRP. See fiberglass (FRP) construction
FTZ Industries: Crimp’N Seal connections, 10:52
fuel capacity: design analysis, 49:8. See also engines, marine, fuel efficiency
fuel cell generator: 69:38
fuel cells: 69:38; direct methanol fuel cell/Smart Fuel Cell AG, 98:12; marine fuel cell, 98:12; Max Power MT-C100 fuel cell for sailboats, 98:12; water taxi powered by fuel cells/DCH Technology, 75:14
fuel consumption: and barnacle-fouled propeller, 124:54; boat speed, 124:54, 144:4; comparisons for conventional diesel propulsion/battery-powered hybrid diesel-electric, 142:26; comparisons for three power boats/Neo 41, 151:44; data for mid-size powerboats, 117:54; and design efficiency for passagemakers, sportfishermen, and other deep-water motoryachts, 118:22, 129:18; with oversized propeller, 150:50
fuel efficiency: of electrical generators, 113:56; 114:4; Elling E4 motoryacht, 156:12; of inboard performance system (IPS) units, 115:32, 150:34; in LDL yachts, 147:18; Outerlimits Offshore Powerboats, 133:60; pilot boats and pod systems, 150:34; sequential planing hullform/Jerry Burkett, 115:18; Shearwater pocket-cruiser/Eric Jolley/Paul Bieker, 115:162; single-engine, single-outrigger powerboat/Russell Brown, 130:52
fuel-fill systems: bonding wire/soldering, 94:104; marine hose installation, 51:6;
threaded fittings for, 94:103; flaws in, 94:104
fuel filters: Duplex fuel filters, 85:130; ethanol-compatible, water separating filters, 102:26; in-line/plastic vs. metal, 51:6; specifications/high-pressure common rail (HPCR) system, 158:64
fuel-flow meters: FloScan, 26:54
fuel hose: EC (EU) certification, 41:38; EPA-compliant low-permeation hose, 121:72; hose clamps, 85:130, 94:104; Parker Hannifin 221FR, 33:75; types/standards, 49:16, 85:130, 94:104
fuel leaks, detecting: Safe-T-Alert gas sniffer, 7:64; Spectroline detection system, 8:54
fuel pump: Walbro Series 6000, 26:54
fuel spills. See spills, fuel/chemical, cleanup/containment kits
fuel system: antisiphoning protection, 85:130; Code of Federal Regulations (CFR) and gas engine vessels, 84:82, 85:4,130; description in owner’s manual, 27:54; EPA carbon canister proposal, 97:200; fittings/galvanic corrosion, 52:18; fuel polishing systems, 112:100, 113:4; legal requirements, 84:82; open-to-shut vall valve/German Toplicht Catalog, 156:4; remote fuel shut-off valves, 85:14, 154:56, 156:4, 159:4; Vetus Splash-Stop, 85:130
fuels. See compressed natural gas (CNG); diesel fuel, soy-based; gasoline; marine engines, diesel; marine engines, gas; propane
fuel surge protector: in-line/Attwood, 44:54
Fuji Color (60' trimaran): 63:86
Fuji Electric: process-control unit/vacuum-bagging, 39:30
Fuji 40: water weeping from rudder, 151:12, 153:8, 154:4
Full-foiling keelboat: Quant 23 with T-foil rudder, 157:14
Full, Giffy: on survey reports, 30:26
Full, Giffy, author: "The Pros and Cons of Bonding," 65:49
Fuller, W.L., Inc.: Fuller plug cutter, 23:20
fumed silica: for controlling resin drainout, 33:46, 42:62, 59:30
fumes, removal: Worbst vacuums, 87:10; charcoal absorption system for small shop, 73:26, 28. See also emissions.
Funny Car, pre-preg fiber racing car body, 133:60
furling systems: GMT Composites PowerFuel booms, 141:6; Hydraulic Sea Furl, 2:70
furnace. See heaters/ heating systems, boatshop
furniture, interior: design updates/weight-saving techniques, 6:39, 34:28, 92:76; divinycell foam-cored/Gunboat International boat, 144:58; Lazzara Yachts/American Quality Furniture Co., 90:13; RTA (ready-to-assemble) applications, 40:42. See also interiors, arrangements/decoration; interior joinerwork/cabinetry
fuses: current ratings, 37:4; for high-capacity DC systems, 38:55; ignition-protected, 38:55, 41:38; labeling/documentation, 132:80; sources, 36:45, 37:4; types, 36:41
Fusion Sailcraft: bonding hardware/fastenings, 18:4
Futura Coatings, Inc.: Ultrachrome instrument panels, 9:56; Ultrachrome 4005, 49:59, 49:60

GAF Chemicals Corporation: ShipShape Resin Cleaner (acetone replacement), 4:58
Galaxy Boat: builder's liability lawsuit, 15:50
Galpin, Dave, author: "Selecting Structural Adhesives," 41:44
Galva Foam Marine Industries: houseboat lift, 16:52
galvanic series. See corrosion, galvanic galvanizing: of steel, 33:28
Gandino, Gino, yacht designer, 108:16
gangplanks: manufactured by NEB, 81:90
Gannon, Tom, author: "Workable Safety Gear," 3:19
gantry system, temporary: for one-off megayacht, 32:18

Garden, William: Askov trawler-yacht/Waterline Yachts, 83:72; on designing for production, 2:60; on survey disclaimers, 32:4; trawler yacht designs/Willard Marine, 153:58; and Vic Franck Boat Company, 64:96; Yacht Designs II/review, 21:68


Gardiner, Jim, author: “Why Some Dark Boats Blister,” 64:22

Gardiner, Jim: builder profile/Consolidated Yacht, 47:34; and Egret Boat, 71:6; and Gougeon Brothers Inc., 125:36

Gardner, Dick: Glas-Craft/early spray equipment, 38:30

Gardner, Paul N., Company: battery-operated tensile tester, 131:54; resin scales/mixing equipment, 30:57; scratch testers (gelcoat hardness), 5:23

Gardner, William: Ventnor Boat Works, 76:10

Garalick Manufacturing: double-hooked boarding ladder, 81:10; fighting chairs and coaming bolsters, 81:10

Gar Wood: first FRP production boat, 38:30; wooden runabout replicas/restorations, 18:20

Garzke, William: on professional engineering licensure, 47:24


gasoline: alcohol-to-fuel law, proposal for revocation, 161:3; benefits of biodiesel vs, ethanol, 160:54; ethanol (E15) and ban on use in marine engines, 160:54; ethanol usage in Brazil, 109:6, 160:54; oxygenated/tank corrosion, 37:48; phase separation/galvanic corrosion, 160:54; reformulated gas (ethanol/E10), problems of in marine engines, 107:46, 160:54; Renewable Fuel Standard (RFS) and renewable volume obligations (RVOs), 160:54; storage of ethanol blended gasoline, 160:54

gas sniffer: Matheson-Kitagawa Toxic Gas Sampler, 7:64; Safe-T-Alert, 7:64

gate valves: problems with, 38:4

gauges, engine. See instruments/instrument panel; navigation instruments/systems

gauges, strain: used in “smart” composites, 46:45Geer, Abbot M.: on ABYC history/development, 37:4

Gazelle: computer modeling program, 63:10

"G-code" (numeric control code): “Breaking the Code,” 61:104

gearbox: Fabio Buzzi’s gearbox design, 71:123; multi-ratio gearboxes, 71:123; two-speed gearboxes, 71:123; 80:76

Geared Up Systems: single engine, twin drives, 122:12

Geary, E.S., Capt.: letter on hurricane damage on island of Grenada, 92:4


gelcoat blistering. See blistering, gelcoat/osmotic; blister repairs
gelcoat cleaners: types/applications, 15:34, 15:44

gelcoat finishes: Awlgrip, 15:44, 19:12, 19:20; compounds (polish/rouge), 15:44; copolymer wax, 15:44; Crystal TopCoat, 15:44; polishing paste, 20:56

Gelcoat Peeler Ltd.: robotic peeler, 3:60
gelcoat peelers/planers/shavers: applications/techniques/concerns, 3:60, 12:4, 13:4, 16:42, 22:51; Gelcoat Peeler, 3:60; Gel-Pac planing system, 10:52; Marine Shaver, 16:52, 27:70; micro-cracking and, 22:51; Turbo Shear, 27:70, 31:10. See also blister repairs, gelcoat/laminate removal
gelcoat removal. See blister repairs, gelcoat/laminate removal

Gel-Pac Ltd.: Gel-Pac gelcoat planing system, 10:52

GelPlane: gelcoat planer, 150:72; ProScraper, 150:72

Gel-Strip, Inc.: gelcoat-stripping services, 22:51
gel-time retarder: 2,4-pentadione (acetylacetone), 44:30
geltimer: determination of working time for, 95:16; for testing catalyst ratios, 1:6; Skyodo geltimer, 95:16; source, 1:18
gel times: blister prevention, 15:13; catalyst ratios/temperature/testing, 1:6, 2:6, 29:51, 33:46, 50:46; core bonding, 9:36, 33:46; gel-time retarder (2,4-pentadione), 44:30; inhibitors, 113:22; initiator ratios, 113:22; metric mixing to accurately catalyze resin, 113:22; promoters/accelerators (vinyl esters), 6:16, 35:4, 44:30; retarding gelation (polyester, with impregnators), 7:5; styrene emissions/reduction, 20:40, 40:17, 40:22; temperature/hot weather, 33:46, 35:4, 50:46. See also catalyst, exotherms; resins, exotherms/curing cycles

Gem Products: Gemlux electrochemical polishing process/stainless steel, 49:79

GenCorp Polymer Products: Naulex marine vinyls, 6:52

General Automotive Specialty Co.: Rotoswitch, 27:70

General Hydrostatics System: hydrostatics software, 17:58

General Plastics Manufacturing: Last-a-Foam, 54:5
generator, DC: Polar Power 22-kW permanent magnet DC generator, 148:58; rewinding stator for voltages at slower engine speeds, 148:58
generator, wind. See wind turbines/generators/ blades
engine, 77:28, 115:136; with DC-to-AC inverters, 144:4
GENLAM: laminate analysis software, 47:53
Genmar Holdings: Virtual Engineered Composites (VEC) infusion process, 69:3, 101:62
Genmar Industries: aluminum boats, 4:42; sailboats, 6:34. See also Crestliner, Inc.; Hatteras Yachts; Triumph Yachts
Genoud, Alexandre, boatbuilder, 127:8
Georgia-Pacific: FiberStrate-MR hardboard, 35:58; SeaFrame laminated Southern pine panels, 23:54
German Lloyd’s (Germanischer Lloyd): safety standards/testing cored composites, 34:42
Germany: recycling movement/FRP recycling programs, 60:82
Gerr, Dave: calculation formula, scantling methods vs. ABS formula, 105:32; on surfboat dynamic stability, 33:4; on air cushion in-tank venting, 87:4; on drivetrain fundamentals/aligning couplings, 73:5; response on fundamentals of steering systems, 101:4, 102:4; on fuel systems for pleasure craft/stainless steel tanks approved for diesel, 89:4; on keel and rudder engineering and construction, 98:4; on laminate thickness tolerances, 107:4; on metric units for pressure consistency, 95:4; Nancy Lakin shoal-draft cruiser, 100:36; on professional engineer licensure, 74:5; on standards for powerboat stability, 113:4
Gerrard Design (Ancaster, Ontario): styling and design for Southport Boat Works, 95:38
Gessford, James D. (Jim): on honeycomb cores, 24:4; on paper honeycombs, 32:52
G.F. Equipment, Inc.: Capsizer rotating unit, 17:58
Gibbens, Andrew: on Ping-Pong balls as flotation, 59:5
Gibbs & Cox: acquisition of Donald L. Blount and Associates firm, 160:8
Gibco Flex-Mold: obit for Gibs Slaughter, founder, 146:10; RTV silicone nonskid covering, 37:48, 62:12
Gibson, Jason, author: “Process Control,” 74:30
Gideon, Tony: on water pH in blistering, 17:17
Gilbert, Alan: engineer/on Sparkman & Stephens, 59:48; on Palmer Johnson, 53:28
Gilbert, Alan, author: “Speed Predictions,” 59:56
Gilbert, John, Associates: NC lofting/cutting, 7:18
Gilding, Tim: Design Challenge, 129:18
Giles Olllier Design Team: large racing multihulls, 90:50; 91:154
Gillmer, Thomas C., naval architect and marine historian: obit., 126:8
Gilman, Lew (Old Town Canoe Co.): roto-molding, 4:40; thermoplastics development, 11:20
Gilman Corporation, The: Softlite closed-cell plastic ionomer foam, 40:66
Guitana: de Rothschild raceboats, 78:12
Glacier Bay Catamarans: diesel-electric powered moorings, 108:82; Ossa Powerlite generators, 108:82
Glacier Bay Refrigeration Systems: HFC-134a-compatible marine refrigeration, 16:35, 17:4, 26:8, 90:64; Barrier Ultra-R panels, 90:64; bushless DC motor (BLDC), 92:12; holding plate heat absorption capability, 91:34; permanent-magnet AC generators, 92:12
Glas-Craft, Inc.: FRP specialty tools/accessories catalog, 18:54, 20:8; lightweight internal-mix flow coater, 27:70; LI Series FRP (spraying) System, 6:52; Spartan II PLC automatic touch screen control, 108:26
Glasply: hullform with hydro-sponsons, 120:4
glass: and deck profiles/designs in boats, 109:180; Durashield marine glass/Whispershield acoustic-rated glass, 129:8; I-Shades, 84:18; electrochromatic glass, 81:42; mineral glass/history and processing of, 81:42; roll-up Strataglass/motoryacht MJM34Z, 99:52; tempered glass for boats, 81:42; structural adhesives for, 41:44
Glass Boat Works: boatyard fires/insurance, 1:50
glass fiber. See fiberglass
Glass Marine: boatyard fires, 1:50
Glasshape Ltd.: wraparound windshield/motoryacht Bliss, 129:8
Glasspar: early fiberglass, 41:58, 60:116, 60:120; 132:6;
Glen-L Marine: affiliation with Ken Hankinson/design plans, 150:10; profile of/Glen L. Witt, 150:10
global economy and sustainability, 123:26
global positioning system (GPS): placement for system, 152:58
globalization: boatbuilding in advanced economies vs. economically undeveloped nations, 102:120, 103:6
Globe Marine Products: replacement impellers/raw-water pumps, 53:89
Glover, James, author: “Duty of Care Afloat,” 144:80
gloves: fitted with LED lights, 158:48; importance of, 60:5; review/sources, 3:19
Glowacki, Edmund: on admeasurement/aluminum construction, 26:4
GLS Corporation: environmental services, 33:69; recycled fiberglass, 37:66
glue gun, hot-melt: Maximatic, 20:56
gluing. See adhesives entries; secondary bonding
gluing, edge-to-edge: clamp for, 2:70
GMT Composites: ballast tanks for Alvin, research submersible vessel, 141:6; carbon composite rudder, 119:6; carbon fiber rig for Lark (daysailer)/Brooklin Boat Yard, 141:6; carbon fiber spars for Summerwind schooner/John Alden
design, 146:40; furling booms, 141:6; PowerFurl Boom, 146:40
GMT Decking Systems: teak decking, 5:26
Goad, Dean: on Peel Ply/polyester resins/secondary bonding, 19:48
Godfrey Marine: use of PT industrial plywood, 27:42
Godwin, Chad: on Whisperprop diesel electric propulsion system and Solomon Technologies system “Electric Wheel,” 102:4
Goeb, John: on soldering terminal connections, 14:4
Goeb, Capt. John H.: on surveyors and boatyards, conflict of interest, 70:5; recollection of Bob Derecktor, 77:5
Goetz, Eric: on building America’s Cup contenders, 53:50; on computer lofting, 24:26; on honeycomb cores, 22:20; on post-curing, 14:55; on pre-pregs, 24:18, 24:25; on vocational programs, 22:51
Goetz, Eric, author: “Custom Boatbuilding (1990s Retrospective),” 60:27
Goetz, Eric, co-author (with Jonathan Patton): “Medic!” 72:38
Goetz, Eric and Patton, Jonathan: properties of resin systems/WESTSYSTEM ® and Adhesive Technologies Ltd, 73:5
Goetz Custom Sailboats: Ark technical library, 50:11; Child series, 53:50, 53:61; collaboration with Bruce Farr, 61:66; fabric impregnator applications, 5:34, 39:3; history and start-up of, 73:54; honeycomb cores, 2:20; one-off tooling, 10:42; post-curing, 14:55; pre-pregs, 24:25, 89:78, 95:16; repairing Young America, 65:66, 72:38; Resolute rowing shells, 54:18, 61:34
Goetz Marine Technologies: carbon fiber laminates/galvanic blistering/isolation from metal fittings, 57:30; carbon fiber masts/spars, 3:42, 10:52, 47:44, 66:11; carbon fiber shower stalls, 66:11; carbon-fiber yacht wheels, 6:52; fabric impregnator applications, 5:34, 39:3; and Derecktor Shipyards, 73:54; “flying I-beam,” 61:11; post-curing, 14:45, 14:55; pre-pregs, 24:18, 64:82; 73:54
goggles, safety: for blister repairs, 19:8; importance of, 60:5; review/sources, 3:19
Gold Coast Yachts: and closed-molded composites, 124:42; composite wing masts, 14:8, 119:28; excursion catamarans, 3:11, 22:64; Fujin, infused carbon catamaran, 155:10; outsourcing, 37:16, 37:18, 74:54; Spirit of Kauai sailing catamaran, 124:42; passenger-carrying powercat, 124:42
Golden Delicious, Jack Sarin design: 62:26
Goldhirsch, Douglas: on VOC emissions in small shops, 71:5
Goldring, Jeff: on biodiesel’s primary weakness vs. distillate fuels, 118:4; on dry exhaust/resilient mounts/noise isolation, 114:4; on limited stability of biodiesel for most boats, 118:4; on M80 Stiletto/Dept. of Defense Office of Force Transition, 129:3; on propeller nut installation/NeverSeez/thread-locking compounds, 126:6; on stepped laminate repair, 113:4
Goldsworthy, Brandt: father of pultrusion process, 122:12
Goodrich, B.F.: MA 429 film adhesive, 39:30
Goodwin, John D.: on solution in checking short-circuit current, 104:4
Good Turns: Turncouple firtting for easy connect and disconnect, 93:10
Goodwin, John: on nano particles problem, 108:4
Gorski, Dick: Letters Etc. obit, 73:5
Goudy and Stevens Shipyard: 70:58. See also Hodgdon Brothers/Hodgdon Yachts.
Gougeon, Jan C.: obit, 142:8
Gougeon, Meade: on DuraKore, 15:34
Gould, David F. III: response to In Search of Remediation for a Bad Rap, 94:4
government regulations. See Environmental Protection Agency (EPA); environmental regulations, government; OSHA (Occupational Safety and Health Administration), regulations
Gowens, Bob: on management/customer service, 29:8
Graco, Inc.: Compliant Finishing Guide, 15:70; Optimiser HVLP spray gun, 26:54; variable-mix ratio-proportioning system, 28:60
Grady-White Boats: air-assisted airless spray equipment, 28:48, 28:52; cross-training/team-building/productivity, 13:54, 29:29; and C. Raymond Hunt Associates, 139:18; power catamaran/F-26b Tigercat, 45:120
Grainger, W.W.: modular shelves, 17:34 gram scale. See resin (gram) scale
Granata, Peter: deck design/plug construction, 28:10; interior design/Cobalt, 28:32; on product safety/liability, 15:50; on retrofit program, 18:4; runabout design/Marine Design Resource Alliance, 51:11
Granata, Peter, author: “Beating the Look-Alike, Perform-Alike Syndrome,” 17:8
Granata Design. See Granata, Peter
Grand Banks Yachts (American Marine Ltd.): builder profile/mid-’70s financial crisis,
INDEX

19:28, 19:32; hatch design/safety/liability, 15:50

Grand-Craft, Inc.: wooden runabout replicas, 18:20

Granholm, Lars: on EC (EU) certification, 41:38


graphics, computer. See computer software, 3-D modeling/graphics

graphics, decals/striping tapes: Graphics 2000 video, 23:54; Mark IV cutting-and-assembly system, 13:70; removal (Scotch-Brite discs), 16:52

graphics, inlaid: for interior laminate surfaces, 34:28, 34:32

graphics, painted-on: Cigarette Racing Team, 12:18

Graphics 2000, Inc.: graphics video, 23:54; Mark IV cutting-and-assembly system, 13:70

graphite hulls: 32’6” hydroplane, 2:12

graphite lubricants: for stainless steel fasteners/corrosion potential, 39:20, 39:4

Graul, Timothy (Tim): on ABS rules, 38:4; on bilge pumps and tunnels, 46:5; on drivetrain fundamentals, 74:5; on hose regulations, 78:7; profile of, 110:68

gravity, longitudinal center of (LCG). See longitudinal center of gravity (LCG)

Gray, Ben: globe circumnavigation in custom trawler, 111:12

Gray, Lysle: on galvanic corrosion/bonding, 8:44; on safety standards, 8:24; on through-hulls/sea valves, 8:42

Green, Bill: founder of Green Marine/obit, 153:8


Green, Jeff: on design mock-ups, 9:28

Green Marine (U.K.): carbon composite sailboats, 123:32; ex-aerospace autoclave for large components, 162:14; high-temperature tooling, 136:56; obit for founder, Bill Green, 153:8; RAN II/Judel/Vrolijk-designed IRC72, 123:32, 153:3

Green, Robert: on professional Engineer licensure, 86:4

Greene, Eric: on SOLAS (Safety of Life at Sea) requirements, 78:7


Greene, Eric: Marine Composites book, 59:10; on fire-restrictive ceramic coatings, 64:5


Greenwood, Dana: builder profile/Consolidated, 47:34

Greenwood Forest Products: Select Boat Panels (custom industrial plywood), 9:56, 16:12; XL10 pressure-treated panels, 27:42; XL50 marine decking panels, 11:52, 27:42

Greiner, Capt. Kurt: on seaworthiness, 34:55


Griffin, Nancy, author: “Marine Trade Associations,” 4:9

Griffon Hovercraft Ltd: passenger-carrying hovercraft, 96:52

Grimes, Paul: on bonding fastenings, 18:4

Grimnes, Martin: on heavyweight reinforcements, 18:54

Grimnes, Martin, author: “Fast Forward,” 54:112

Professional BoatBuilder
grinders, disc: for blister repair, 16:42; Cyclone, 14:57; Fein angle grinder, 36:78; Festo (DiaTrim) air-driven, 5:26; Makita, 15:44, 27:70; Mini Angle Grinder, 21:60; Tercoo/rubber disc tipped with tungsten carbide studs, 141:30

grinders/polishers, discs for: aluminum oxide, 26:54; diamond abrasive, 12:60, 20:56, 25:59; Rx-Cut depressed-center, 40:66


grinding pads: lubricant for, 37:36

Grinnacle Import Export Pte. Ltd.: teak supplier, 54:18

Grob, John: on repair contracts/deadbeats, 27:61

GROCO (Gross Mechanical Laboratories):
Hydromatic sea strainer, 61:115; as emergency bilge pump, 61:115; SSA (Strainer Service Advice) alarm system, 131:12

Grogin, Scott: on marketing/advertising, 6:42

Group, Gregory G.: on wet balsa core, 97:6

Groupe Finot: profile, 64:64; and Giles Ollier, designer, 90:50; Quest 30/Zach de Beer, 83:50

grounded vessel: damage/keel repairs, 38:20, 39:4, 82:80; litigation, 50:20


Grove, Stephen, Dr.: on SP Systems Resin Infusion Technology and heated tooling, 81:6

Grow Group: Stop-Katt catalyst neutralizers, 7:64

GS Manufacturing: dispensing systems, 31:68; early days/FRP development, 38:30; Gemini-VR chopper gun/proportioner system, 10:52, 31:68; Gemini-VR variable-ratio pumps, 31:68; Little Willie Extrusion System, 31:68; Little Willie RTM system/slave pump, 17:58

Guardian Marine International: 85' Fast Patrol Craft, 60:11

Guertin, Jed, author: "Inadequate Standards?" 114:120

Guest: lighting manufacturer, 87:97


Guilford, Charles, author: "Case History of an OSHA Inspection," 92:30

Gulbrandsen, Oyvind: on hybrid propulsion/matched propeller/fuel efficiency rules, 144:4

Gump, Roger: Bluffton Millworks/CAD/CAM for interior joinerwork, 40:42. See also Cornelius & Gump Woodworks

Gun Boats International: conditions and costs/boatbuilding/South Africa, 144:58, 146:4; G4 foiling catamaran, 156:3, 156:40; Gunboat 55/infused carbon fiber
hull, 144:58; racing technology cruising catamarans, 144:58
Gunert Refrigeration: HFC-134a air conditioners, 21:12
Gunnell, Skip: aluminum-fiberglass hybrids, 17:19
Gustafson, Neil William: on honoring those who build and repair boats, 83:4
GWIL Industries: granite gelcoat, 34:28, 34:32
gypsum cement: for plastic-faced-plaster (PFP) tool, 60:96, 60:103; for RTM tooling, 27:34
gyrostabilizers: Seakeeper gyro, 113:72, 120:4, 146:10; Sperry Gyroscope Co., 113:72; Mitsubishi Anti-Roll Gyro, 113:72
Haesche, Steve: on marine advertising/marketing, 6:42
Haft, Jay Sturat, Co.: Lavac Zenith marine toilet, 8:54
Haines, Drew B.: on professional engineer licensure, 86:4
Hale, Phillip: on hurricane damage/planning/insurance, 27:18
Hale, Thomas (Tom), author: “Point Counterpoint,” 69:95
Hale, Thomas (Tom): on ABYC standard/galvanic isolators, 33:4; on ABYC standards development, 36:46, 36:48, 36:50; on carbon-monoxide alarms, 45:32; on flotation foam, 37:58; on NFPA standard/fire protection, 44:18
Hall, Eric: rig/spar design innovations, 6:20, 47:44
Hall, Frank, Boat Yard: advanced-composite repairs, 43:54; fire protection, 44:18
Hall, J.T.: on Placid Boatworks and high-performance recreational canoes, 99:4
Hall, Jack: Pantawee Marine/profile, 128:62
Hall, John: on fire protection, 44:18. See also Hall, Frank, Boat Yard
Hall, Peggie: on holding tanks/sanitation system design, 52:4
Hall Spars: carbon fiber beams/spars/Cogito, 39:30, 134:42; carbon fiber spars, 47:44; carbon mast, 65’ Park Avenue boom, 124:12; fabrication of carbon gooseneck fitting in rigging application, 61:34; pre-pregs, 24:18; seamless carbon rigging/SCR 35, 119:6
Hacker Boat Company: wooden runabout replicas, 18:20
hacksaw, air-driven: Super-Saw, 25:59
Hadley, Robert O. (Bob): profile/Sea Hydro hydroplanes, 59:10
Hall, Thomas: boatshed covered with Dura-Skrim, fiber reinforced polyethylene, 155:4
Hallberg, Carl: on propeller nut sequence variations/Never-Seeze, 124:6
Hallberg-Rassy Yard (Orust, Sweden), profile of, 82:58; and distributed power systems, 131:46
halocarbons: phaseout/restriction, 2:31. See also Halon; Halon, replacements for halogen lighting: 87:80; Dr. LED replacement for common marine halogen lights, 115:74; Lopilight LEDs, 115:74; replacement 1-amp halogen bulbs, 99:20
Halon: phaseout/restriction/replacements, 2:31, 17:4, 26:3, 30:60, 60:27
Halon, replacements for: FE 241, 30:60; inergen, 21:12
Halvorsen, Nils (loftsman)L Sparkman & Stephens designed 12-meter Intrepid, 88:46
Hamberger, Sylvan "Ham": Tracker Marine/obit for, 158:8
Hamilton, John G.: on carbon fiber, 26:4
Hamilton Ferris Company: electrical supplier/Creative Energy Challenge, 28:54
Hamlin, Frank: on marine wiring, 8:12
Hammer, air-impact: applications, 33:58, 64
Hampton boat model: Dick Pulsifer/Charles Gomes, 108:6
Hancock, Brian, author: “A Dream and Variations,” 141:24; “Vendee Evolution,” 162:52
hand cleaner: RC Hand Cleaner, 21:60
Hand, William (designer): Handy Billy fiberglass version/Southport Island Marine, 109:17
Handcraft Mattress Co.: marine mattress, 6:52
handicapped-accessible boats: power catamaran/Multimarine Composites, 119:6; enAble trade show, 119:6; Surf/C.Raymond Hunt Associates, 81:90
handicapped-accessible yacht: John Anderson/Tim Nolan design, 57:15
hand layup. See laminating techniques, hand layup/open-molding
handrails: safety/liability, 15:50
hand tools. See tools, power, hand-held/portable
Hankins, Mike: team-building seminar, 24:58
Hankinson, Ken: small boat plans/affiliation with Glen-L Marine, 150:20
Hankinson, Ken, Associates: 46' tunnel-slot speedboat, 4:30
Hanna, Tom: on acetone replacements, 33:20, 33:26
Hannifin, Parker. See Parker Hannifin
Hansen, Mark: on RIB market/Zodiac-Hurricane Technologies, 48:50
Hanson, Bill: utility design/SAFE Boat, 52:50
Hanse Yachtzentrum: profile, 91:136; increasing production output, 106:10
Harbor Boat Company: 28’3: pocket cruiser, 2:12
Harbor Wing Technologies: unmanned sailing drone/Stiletto 30 catamaran, 133:96; X-1 Concept vessel, 133:96; X-2 Concept, 136:10
hardboard substrate: FiberStrate-MR, 35:58
hard-chine hulls: Hard-Chine BoatDesign software/online access, 33:69. See also chines
Hardcore Composites: SCRIMP, 31:42
hardeners: high-temperature, 33:57; ratios for epoxies, 1:6, 33:57
hardness testers, for checking fairing layers: 67:49
Hardwood Plywood & Veneer Association (HPVA): plywood buyer’s guide, 23:54
hardwood-veneer laminates: Oberflex, 35:58
Hardy, Kevin: on through-hull/underwater lights, 117:4
Harford, Ken: on components/catalogs/specifications, 49:4
Hargrave, Jack: on designing for production, 2:60; Hatteras/river patrol boat design, 57:7; Hargrave 41 convertible/GlasCoat, 103:183; induction to North American Designers Hall of Fame, 113:10; motor yacht Alexis refit, 85:96; obituary, 41:5, 43:36; profile/design career, 43:3, 43:36; book/biography/American Classic: The Yachts and Ships of Jack Hargrave, 99:30
Harken: Black Magic Air Blocks, 45:105; Ratchamatic block, 45:105; traveler-car, 3:60
Harken, Peter and Olaf: 12-Meter Regatta, 50:11
Harken’s Air Winches, for solid wing sails, 162:12
Harley, Howard: SES hullform/sportfisherman, 48:6
Harley Boat Corporation: SES hullform, 48:6
Harman, Anthony: Design Challenge, 122:24
Harmon, Geoff: on galvanic corrosion/oxidation/tinned copper wire, 60:5
harness boards: for wire-harness manufacture, 35:58
harnesses: safety/Ronstan genoa track-fitted with shackle cars, 150:72; 3-D CAD model, 40:50
Harper, Dr. Virginia: on Show Your Work, Not Your Business Card and bias of article, 162:6
Harrell, Neal, author: “Waging a War for Talent,” 149:84
Harrigan Hoists: electric chain hoists, 26:54
Harris, Brian, author: “The Pit-Crew Perspective,” 65:120
Harris, Brian: on bottom prep/environmental compliance, 31:10, 31:16, 31:18
Harris, John: and Chesapeake Light Craft, 152:24
Harrison, John, Sr.: Harrison Maritime Collection/antique outboard motors, 119:66
Harrow, Ed: on Machinery’s Handbook and lack of propeller nuts topic, 122:6
Hart, Kevin: *Professional BoatBuilder* magazine as lifeline reference source for island isolation, 91:10

Hastings Marine: stern-gear tools, 48:86
hat section stiffeners, 77:9; 78:7
hatch cover: four-way hatch hardware, 64:11; production/open-molding vs. RTM, 27:34
Hatch, Jack: on odor-removing efficiency of HeadBuster head cleaner and BilgeBuster, 90:4
Hatfield, Roger: on composite wing masts, 14:8; economic downturn/Gold Coast Yachts, 124:42; *Nube Volante* charter cat, 124:42
Hatteras boat, 61:5
Hatteras Yachts: CAD/CAM applications, 9:28; design mock-ups, 9:28, 37:26; early days/FRP development, 38:30, 103:186, 154:12; development of PropSmith, 62:12; handrail safety, 15:50; Hargrave designs, 43:36, 99:30, 104:100; and Howard Abbey, 104:100; *Knit Wits* Hatteras 41/largest U.S.-built recreational powerboat, 160:8; lightning protection systems, 43:64; obit for co-founder David Parker, 154:12; plant layout/management tools, 17:34, 28:48; 72-footer motoryacht, 106:10; structural adhesives, 28:27; vocational training, 20:18; waste management, 28:48; yacht repairs/retrofits, 57:76
Havilland Mosquito fighter/bomber: balsa core material, 150:4, 151:6
Havsted, Jim: software designer/fabric flotation collars, 65:97
Hawkes, Grahame: deep-diving probes/small subs, 55:16
Hawkes Ocean Technologies Inc.: deep-diving probes/small subs, 55:16
Hawkeye Industries: Duratec polyester epoxy bondcoat, 49:59; Duratec vinyl ester primer, 34:21
Hawk Marine Power: supercharged gas inboards, 17:44
Hawley, Chuck: on ozone-clean marine refrigeration/service, 26:17
hawsepipes: anchor-stowage systems, 
22:28, 22:29; cutting and choosing fittings, 
105:26; hawseholes, 106:4; water 
intrusion and structural failures of, 105:26; 
Hayash, Edward: on strength testing of 
cored laminates, 8:4 
Hayden, Sterling: on saloons, 57:15 
Hanes, H.W.: anti-Coanda effect system, 
91:10; on plum hulls, bubbly flows, and 
drag reduction techniques, 91:12 
Hays, Bruce N.: on FastShip surface 
modeler, 68:5 
Hayter, Rebecca, author: “Factory Tour,” 
94:70 
Hazard Communication Standard: chemical 
ha
hazards/workers’ rights, 1:30 
hazardous materials: hurricane 
protection/preparations, 27:21; 
management systems/strategies, 27:8, 
140:18; OSHA regulations/1989, 1:30. 
See also chemical sensitivities/allergies; 
spills, fuel/chemical, cleanup/containment 
kits 
hazardous waste. See boatyard waste 
disposal/reduction/compliance 
Hazelett, Bill: Hazelett Corp./bungee 
mooring anchor rod, 30:8, 16, 111:30; 
boat leveler, 111:30 
Hazelett Corp.: bungee mooring anchor r 
de, 30:8, 30:16, 111:30 
HBI (Hard Bottom Inflatable): RIB 
designs/product line, 47:16 
H-Boats: diesel fuel systems/Code of 
Federal Regulations for, 84:52 
HCFCs (hydrochlorofluorocarbons): in non-
crution foams, 2:28, 2:31, 24:62; 
phaseout/impact on marine industry, 
26:51; phaseout/restriction (refrigerants), 
26:8 
head, arrangements/design: 
Dometic/Sealand VacuFlush and holding 
tank system, 104:12, 132:6; holding 
tanks, 50:69, 52:4; layout/cruising boats, 
5:50; layout/small power cruisers, 39:67; 
systems technician training/certification, 
57:99. See also holding tanks; plumbing; 
toilets, marine 
Headhunter, Inc.: Royal Flush marine toilet, 
27:70; tank sentries, 31:68 
headliners: mock-ups for tooling, 9:28. See 
also liners 
Healey, Bill: builder profile/Viking Yacht, 
46:16, 46:26 
Healey, Bob: builder profile/Viking Yacht, 
46:16 
health, occupational. See Occupational 
Safety and Health Administration (OSHA), 
regulations; worker safety/occupational 
health 
hearing: anti-noise headsets, 36:78; noise 
perception/physiology, 5:42, 78:104 
hearing protection: Aden QT-100, 8:54; anti-
noi
path protection, 78:104; ear plugs 
and earmuffs, 78:104; shop 
safety/practices, 3:19. See also 
nose/vibration control 
Heart Interface Corp.: inverter supplier, 
25:30, 25:34, 25:40 
Heart Inverter: AC/DC grounding conductor, 
82:80 
heat, specific: laminating table/exotherm 
cycle/panel warping, 45:68 
heat/hot-weather boatbuilding: catalyst 
formulations/alternatives, 2:6, 15:13, 
33:46, 33:57, 42:62, 44:30, 50:46; 
compressed-air spray systems, 33:36; 
epoxy/two-part/tropical formulation, 42:62, 
43:5; FRP laminating techniques, 33:46, 
33:57; resin systems, 35:4, 42:62, 43:5,
50:46, 64:22. See also temperature, of boatshop
heat-cured composites: oven/temperature-control system for, 39:30. See also ovens/autoclaves
heat gun: Mark IV, 12:60
heat lamps: for drying water-saturated flotation foam, 37:48; quartz/infrared thermography, 35:42
epoxy, 14:45; on water permeation/osmosis, 15:60. See also System Three Resins
Hendrickson, Ray: on dragging hose/cable, 30:4
Henwood, William: on boatbuilding/boat handling skills, 34:5
Herex foam: cross-linked/high-density, 23:54, 74:68
Herion Inc.: solenoid-operated valves, 3:63
Heritage Industries: Sanding Sticks, 35:58
Hermans, Bob: on linear polyurethane paints/techniques, 21:26
Herreshoff, L. Francis: Buzzard’s Bay 14 sloop/Northwest School of Wooden Boatbuilding, 137:44; on yacht-construction equipment/techniques, 45:76, 69:156, 104:3; Marco Polo design, 81:58
Herreshoff, N.G.: on ballast keel bolting, 40:4; half models, 54:82; metal construction pioneer, 53:31; model testing, 55:32; Buzzards Bay 30 sloops/restoration by French & Webb, 115:184; universal rule/J-Class yachts, 141:50
Herreshoff Manufacturing Company: aluminum construction/America’s Cup boats, 53:31; conversion of boats from wood to fiberglass/Paul Coble, 88:46; diagonal strapping, 51:36; half models/design process, 54:82; references/plans, 54:82, 54:92; refinement of Alerion sailboat/Carl Schumacher, 139:18; restoration of Buzzards Bay 30 sloops/French & Web, 115:184
Herreshoff Marine Museum: half-model room, 54:82
Herreshoff, Sidney: Arion/first fiberglass auxiliary sailboat built, 157:14
Hertzler, Sharon: on custom castings/pattermaking, 42:46
Hewson, Roger: profile/growth of Sabre Yachts, 11:34, 11:39
Heydenrych, Albertus: on conditions and costs of boatbuilding in South Africa/Gunboats International, 146:4
Heyman, Gabriel: Design Challenge, 133:40; Celeste Neo sailing yacht, 133:40
Hexel Corp.: Kevlar-fiberglass fabric, 32:21; on post-curing epoxy, 14:45, 14:48; Hexel, France/Axson Technologies, 128:8; Axson SVB20 two-part sprayable silicone, 128:8
HFC-134a: blowing agent/flotation foam, 24:62; recovery/recycling, 26:8, 26:17; replacement for R-12 refrigerant, 16:35, 26:8, 26:17, 30:54, 31:4, 154:28. See also air conditioners; marine refrigeration
HF Interiors: and Knight & Carver Yacht Center, 127:42
Hi Build Systems: Extender putty-delivery/fairing system, 27:70
Hi Tech Marine Systems: gelcoat compound/polisher, 15:44
Hickman Sea Sled: design, 49:42, 119:66; restoration, 51:11
high density foam plugs, 162:14
B3 Smart Pac box kits, 121:100, 133:114, 142:40; core kits/SmartPacs for Sunbird Yachts (China), 103:104; impact testing various single-skin and sandwich options, 120:18, 121:100; repair of Play Station, 63:10; repair of Team Adventure, 72:38; setup of office in U.S., 153:20; XSR48 stepped hull superboat/Fabio Buzzi, 110:12; weighing fabrics, 142:40

High Seas Yacht Service: founding of Straight Line Marine, 159:36; mobile marine-repair, 159:36

High Speed Boat Operations (HSBO) Forum: speed at sea for search-and-rescue crews and fast patrol boats, 150:10;

high-speed craft:

hiking seats, articulated: 65:11

Hile, Theodore: on Last-a-Foam, 54:5

Hill, Bob: on NC lofting/cutting, 7:18

Hill, Ruth, author: "DragonFlyer 3.2," 148:18; "One Jig to Build Them All," 162:66

Hilliard, Gary: Rybovich/builder profile, 25:42; on weight reduction, 29:8;

Hillis, Dave: studies on FRP waste reduction, 55:26, 55:30

Hinckley Company, The: air tool system, 33:58, 33:64; bedding contour-cut foams, 31:34, 31:42; Bermuda 40/Bill Tripp, 105:56; canvas bag storage for shrouds and headstay furler, 127:8; color-coded telltales winterization idea, 127:8; CopperClad applications, 7:42; design mock-ups, 9:28; drying techniques/blister repairs, 16:42; Hinckley DS42 diesel-electric sailing sloop, 92:12; JetStick/36' Picnic Boat, 57:110, 113:72, 146:10; joystick controls, 146:10; Kevlar reinforcements, 28:18; mold-release systems, 12:27; Picnic Boat design/Vicem Yachts, 102:34; pulling engine to extract shaft, 150:4; repairing severely damaged boats, 25:18, 25:25; resin infusion/SCRIMP/emissions reduction, 31:42, 38:3; Turbo Shear/blister repairs, 27:70; vacuum-bagging, 30:22; varnishwork, 19:36; workers’ comp premiums/safety program, 23:13, 24:11; worker training, 13:54


Hines-Farley Offshore Yachts: closing of, 145:12; cored bottoms, 51:22; Double Dog sportfishermen, 101:38; longest and
fastest 63 Sportfishermen extension build, 145:12; "number one sportfishing boat" by Robb Report, 65:11; profile, 54:3, 54:56, 54:62
hinges: stainless steel/electrochemical polishing process, 49:79
Hinterhoeller, George: and C&C Yachts, 92:48
Hinterhoeller Yachts: Niagara 35/Niagara 42/Mark Ellis designs, 138:32, 139:74; Nonsuch series/free-standing rigs, 55:46
Hitachi Power Tools: electronically controlled routers, 1:68
Hi-Tech Hose, Inc.: Techflex HTR hose, 45:105
Hi-Tek Chemical Corporation: Epco-Tek 2000 epoxy antifouling coating, 9:56
Hledin, Peter, designer-builder: profile of/Douglas Marine, 109:80
Hobbs, Bob: stepped powerboat designs, 5:52
Hobie Cat-Hobie Outback: Hobie beach cat, 149:10; obit for Hobart Laidlaw Alter, inventor/designer, 149:10; pedal-powered kayak, 54:18
Hoch, Wes: on mold-release systems, 12:27, 13:11; on Polylite Profile tooling resin system, 16:52
Hodgdon Brothers/Hodgdon Yachts: all-carbon prepreg and tooling preparations for 100’ Commanche sloop, 153:20; business excellence award, 70:58; Commanche, sloop/tooling and build, 153:20; expansion and diversification, 153:20; hatch installation, 21:58; infrastructure and attention to details, 153:20; large cold-molded sloop/ Antonisa, 51:52, 63:70, 70:58; Liberty, barrel-backed commuter, 51:52, 70:58; post-curing/print-through prevention, 34:18; profile, 70:58; resin-infused superyacht tenders/Michael Peters design, 153:20; Yorel, traditional motoryacht, 70:58; Scheherazade, ketch, 70:58.
hoists. See boat lifts/hoists
Hoke, Michael J. (Mike): Abaris Training, 47:57, 52:67; on impact tolerance/aramid (Kevlar) vs. carbon fiber, 45:5; on ply orientations/scarf ratios/advanced-composite laminate repairs, 45:5, 52:67; on ultrasonic inspection/survey techniques, 35:42; on working with Kevlar, 56:61
Hoke, Michael J. (Mike), author: “Repairing Heavily Loaded, Advanced-Composite, Single-Skin Laminates,” 43:54
holding tanks: aluminum/stainless steel, 54:5, 162:38; anti-siphon vent, 52:4, 162:38; baffles/fittings/venting, 162:38; discharge hose, 50:60, 52:4; Dometic SailVac single compact unit, 132:6; Dometic/SeaLand 28HTS-VG system, 104:12; joker valves, 52:4, 72:73; polyethylene (PE) tanks, linear vs. cross-linked, 162:38; Raske three-way valve, 7:64; simplified design, 50:69, 52:4; steel/flexible bladders/polyethylene (PE)/fiberglass-reinforced plastic (FRP), 162:38; systems technician training/certification, 57:99; tank sentries, 31:68; treat-and-discharge system, 52:4,
72:73; vacuum/three-in-one, 55:99; ventilation, 49:16
hole punch: hydraulic, 2:70
holesaws: cutting techniques for
use in wing mast, 61:34
Hood, Bob: on Little Harbor paint booth, 42:20
Hood, Richard B. (Rick): builder profile/diversification, 33:36
Hood, Ted, Design Group: Geronimo expedition yacht, 81:90; megayacht Anakena, 45:47; Nomad high latitude cruising yacht, 81:90; profile, 33:36; purchase of by Ted Fontaine Design Group, 78:12; St. Roque pilothouse ketch, 81:90
Hood, Ted, Yacht Builders: outsourcing/quality control, 35:4; profile, 33:36
Hood Enterprises, Inc.: diversification, 33:36, 33:40; Navy contracts, 30:18, 33:36; production vacuum-bagging, 30:18
Hood Ocean Systems: tracked crane, 36:20
Hood Sailmakers: Vectran mainsail/Endeavour, 41:58
Hood, Ted: obit, 145:12
Hood Yacht Systems: builder profile, 33:36; Hydraulic Sea Furl, 2:70
Hook Appropriate Technology, The: Pintite stainless-steel hose clamp, 35:58
Hoquiam Boat Shop: transition/fishing boats to yachts, 40:28; vocational training, 20:21
Horizon Yachts of Taiwan: infusion and transportation of two 130’ hulls, 107:14
Horn, Kevin A.: on blistering/vinyl esters, 12:4
Hornbeck Boats: profile, 97:60; lightweight canoes, 97:60
Hornell Speedglas Inc.: Speedglas auto-darkening welding lens, 39:98
Horner, John C., “Jack”: ABYC board chairman, boat reviewer, obit, 148:10
Horvath, Paul, author: “Posi-Turner,” 10:52
hose reel: manual-rewind/Rapid Reel, 48:86
hose: Good Turns Turncouple fitting for easy connect and disconnect, 93:10
HotVac Hull Cure Ltd.: 69:13
Houghton, Charles G.: on growth of electric boat companies, 78:7
houseboats: re-defining term “vessel”/houseboat vs. floating home, 145:120; Sharpe Houseboats (KY), 105:12. See also Lozman v. City of Riviera Beach, Florida.
hovercraft: 50-mph, 2:12; heavy duty ramp for/C. Raymond Hunt Associates, 139:18; Neoteric Hovercraft, Inc., 66:11; passenger-carrying hovercraft/Griffon Hovercraft Ltd, 96:52; SES
hullform/catamaran hybrid, 48:6; inventor, Sir Christopher Cockerell, obituary, 61:10
HoverDynamics: 50-mpg hovercraft, 2:12
Howarth, Michael: Cat Harbor Boats, 20:8; Pacific Seacraft, 10:20, 25:8
Howell, John: on restoration renaissance on early fiberglass boats, 136:4
Hoyt, Garry: Freedom Yachts/advertising, 31:80; Freedom Yachts/early FRP, 60:116; on sailboat design/market, 6:20; on spar design/technology, 3:42; Waterbug/ pedal powered boat, 153:8
Hoyt, John G. III, author: “On Becoming Savitsky,” 126:64
Hoyt offset rig, 126:8
H2ube: extruded aluminum tubes for holding canvas enclosures, 103:14
Hubbard, Mark: depthsounder installation/drag reduction, 45:29
Hubbard, Ron: Marco Polo series/Mazu/Cheoy Lee Yard, 128:38
Hubble, E. Nadine: propeller research, 46:52, 46:62
Huber, J.M., Corp.: alumina trihydrate (ATH) plastic/polymer filler, 25:59
Huckins Boat: vintage Huckins Corinthian motoryacht retrofitted with pod drives, 129:54
Huckins Yacht Corp.: cored bottoms, 53:4; recession business strategies, 121:62; Sportsman 40 cruiser/replica market, 18:20, 20:4
Hudson Marine Plywood: marine decking panel, 27:42
Hughes, Homer: on designing efficient boats, 17:4; on hoeshot hulls, 113:4
Hughes, Ken: on propane as refrigerant, 28:6
Huisman Shipyard. See Royal Huisman Shipyard
hull, turning/rolling: 64’, schooner, 58:13. See also boat lifts/hoists; hull lifting/rolling/turning systems
hull color. See color, hull; color, interior hull vane: Van Oossanen & Associates, 154:12
Hullform: design/fairing software, 17:58
hullforms. See design/engineering considerations/parameters
Hull Identification Numbers (HIN): affixing, 59:5, addresses of manufacturers, 60:5; displaying, 61:5; European Certification rules for, 63:38; fraud and criminal misdirection of, 71:27; and hidden HIN, 69:70; legality of, 69:70; Mighty DataDot, alphanumeric identification code, 71:6; reverse-label makers, 60:5; U.S. Coast Guard requirements, 31:62, 35:52; use in damage assessment repairs, 97:174
hull lifting/rolling/turning systems: Antonisa, 63:70; Capsizer, 17:58; Posi-Turner, 10:52; rotating units/West Marine Products and Services, 60:11; rotating unit/Delta Marine Industries, 94:32; shop-
built/C-shaped jigs, 58:13. See also boat lifts/hoists; roto-molding

hull liners: flexible Impact liner, 109:17


hull-to-deck joint, aluminum-fiberglass hybrid construction: extruded aluminum gunwales, 17:31; shoebox joint/Tom Fexas, 17:19; structural adhesives, 41:44


hull-to-deck joint, polycarbonate acrylic alloy: structural adhesive/Plexus methacrylate, 60:11; two-part adhesive/no fasteners, 115:142

hull tool: at Lazzara Yacht shop, 67:110

humidity: and blistering, 4:22, 4:27, 15:13, 15:60; and core bonding, 9:36, 33:46, 42:52; and laminate quality, 3:27, 33:46, 75:78; and secondary bonding, 15:13; shrink-wraping caveats, 18:28; and static discharge, 22:12. See also condensation; moisture

Humphrey, John: on Hobie Alter obit photo correction, 149:12, 150:4


Hunt, Jim: on Boston Whaler, 2:38


Husick, Charles (Chuck): builder of prototype sea strainer, 61:115, 106:10; on advanced technologies and research composites engineering, 68:5; on heat and UV radiation/halogen lamp vs. incandescent lamps, 90:4; mechanical stop control for engine, 64:5; on simple, effective 24-volt power bus, 77:5

Huss, Rowland: on secondary bonding preparation/problems/troubleshooting, 39:19; on taping and tabbing/laminate schedules, 39:19

Hutchins, Al: inventor, Hutchins Manufacturing, 87:10

Hutchins Manufacturing: random orbit sander, 87:10

HVLP spraying equipment. See spraying systems/equipment, high-volume, low-pressure (HVLP)

Hybri-Chem: polyester-urethane hybrid resins, 21:60, 28:60


Hybrid Marine (UK): external electric machine/hybrid propulsion/Graeme Hawksley, 127:30

Hydra: Hard-Hull, 29:33; roto-molded polyethylene kayaks, 29:33

HydraPower Systems: retractable thrusters, 6:52

HydraTech Boats: epoxy/vacuum-bagging, 53:20

hydraulic dinghy lift, 130:44

hydraulic fin stabilizers, 122:52

hydraulic mini jack: 63:10

hydraulic launches: U-shaped, sling, and hydraulic lift trailers, 72:10. hydraulic power systems: 68:81

hydraulic press: at Baltic Yachts, 85:46

hydrochlorofluorocarbons. See HCFCs

HydroComp, Inc.: EasyProp 1.0 propeller software, 5:58; NavCad propulsion design software, 17:58, 26:54, 46:62; SmartEngine engine-monitoring software, 45:105

hydrodynamic peeling, 80:40

Hysol Engineering Adhesives: Maximatic hot-melt glue gun, 20:56
Hysucat Marine (South Africa): high speed craft/hydrofoil supported catamaran, 150:10, 157:68

IBEX U: introduction of region specific seminars, 76:10
ice-class ships: MS Endeavour ice-class ship, 89:16; tank-testing/Canada, 56:26, 56:38. See also polar voyage
ICI (Imperial Chemical Industries): refrigerant market, 16:35, 26:8
ICI Advanced Materials: Verton RF nylon composite, 12:60
I-Core Composites: structural core materials/PlyScrim 100/Armor/corrite, 110:12
i Float: marine leisure affiliate marketing website, 133:12
Iguana 29 amphibious: topside opening panels deploy tank treas, 157:14

iLAN Voyager (70’ trimaran): 63:86
ILC Dover: Drumroll, 26:54
ILC 40, construction of by Westerly Marine, 61:52
Illinois Tool Works (ITW): purchase of DeVilbiss, 37:71
Imaginocean Yacht Design: Design Challenge/Silver monomaran, 129:18; Imbert, Laurent: on sprayable lightweight core/Euromere’s barrier coat products vs. Spraycore barrier coat products, 113:4
IMCA. See International Marine Consulting Associates
IMCI. See International Marine Certification Institute (IMCI)
IMOCA. See also International Monohull Open Class Association
impact injuries: data/terms/units for, 149:48; linking exposure levels to injury risk, 149:48; measuring impacts, 149:48, 150:10; whole body vibration, 149:48, 150:10
impregnators (wet-pregs). See fabric impregnators (wet-pregs)
impulse suppressors: lightning protection/electronics/PolyPhaser, 43:64
IMREX. See International Marine Repair & Refit Exhibition & Conference (IMREX)
Imron (LP paint): spraying tips/performance, 19:12
IMS. See International Measurement System
Imtra Corporation: DC-to-DC converters, 115:74; Frigast 12-volt dimmer switch, 55:99; Frensch Resolux fluorescents and TouchLEDs, 87:97
Inboard-powered boats: rudders and steering systems for, 98:76
Inboard Propulsion System (IPS): Volvo Penta 400 and 500 IPS, 93:20
Incat: 298’ high-speed ferry, 53:12; wingcraft ferry prototype, 64:11
Indmar Products Co., Inc.: gasoline inboard engines, 17:44; 285 V-8 engine, 14:57
Industrial design: need for in marine industry, 92:88, 103:14, 109:180
Industrial Finishing Technologies: GEO RDA HVLP spray system, 32:52
industrial plywood. See plywood, custom industrial
Industrial Quality Inc. (IQI): infrared thermography/thermal-imaging systems, 25:18, 35:42
Industrial Shipping Company (Nova Scotia): hotmolded runabout hulls, 147:64;
International 14/Charlie Bourke-design/51 Bourke, 150:4; Yellow Jacket Boat Company purchase of hull shells, 147:64
inergen: Halon replacement, 21:12
Infinity Yachts: 50′ raceboat/DuraKore strip-planked construction, 15:34
inflatables. See rigid inflatable boats (RIBs)
information exchange: design/engineering/construction, 6:5, 17:11, 33:88; environmental compliance/benchmarking, 20:40, 27:61; pricing/profit, 9:13, 33:88; surveying, 37:80. See also computer applications, online (Internet)
Ingalls Shipbuilding: VARTM fabrication, 48:35
Ingersoll-Rand Co.: Cyclone grinders, 14:57; stitching machine/laminate stacks, 57:88
inhibitors, resin. See resin inhibitors injection molding: with Luran S, 34:59; and production increase, 65:11. See also Resin Injection Recirculation Method (RIRM)
Inland Plywood Company: custom industrial plywood/Special Boat Panel, 28:8
Inlet, Inc.: Original English E-Clamp, 10:52
Innovative Lighting Inc.: 87:97
instability, dynamic: causes/cures/high-speed planing boats, 31:20, 31:28, 33:4, 34:5, 44:38, 64:64; 84:26, 93:62. See also stability, dynamic/positive
instability, yaw (bow steering): tuning/twin-screw rudder installation, 45:96
Insta-Foam Products: Insta-Flo solvent-free foam gun, 11:52
installations: systems-installation errors, 152:58
International 505 racing dinghy: Mark Lindsay/Boston BoatWorks, 157:50
International Yacht Restoration School: Composites Technology Program, 136:10; marine systems certification program, 120:34
Institute for Marine Dynamics: Offshore Engineering Basin/model testing, 56:26, 56:38
Instrumental Sensor Technology: black box sensor-recorder, 52:43
instruments/instrument panel: ABS/LR classification, 39:80; access for maintenance, 48:66; assembly station,
54:43; DICKEY-john modular system, 21:60; engine-mounted instrument panel for Caterpillar 3500C series, 95:6; ergonomic design, 65:33; Faria Battery-Condition Monitor, 21:60; Faria “Dress White,” 11:52; Gaffrig gauges, 36:78; Link, 21:60; mounting/wiring/installation, 11:9, 34:22, 48:66, 48:79; Ultrachrome, 9:56; VDO Vanguard, 21:60. See also dashboards

insurance, soundproofing. See soundproofing insulation

insurance, boat/marine: coverage/contract negotiation, 35:72, 44:72, 63:54, 81:146; damage assessment/repairs, 25:18, 44:72, 57:74, 59:89; damage claims/expert witness, 56:53, 59:89; damage claims/inflated, 50:80; damage claims/subrogation, 35:72, 44:72, 50:18, 50:20, 50:80; engineering standards/composites testing, 34:42, 48:8; ethanol and vulnerable fuel tanks/system components/exclusion of, 102:33; Knox Marine consultants' Yacht Claims Conference Workshop, 74:9; maintaining to class, 48:8; major damage/"total loss" classification, 25:18, 57:74, 81:146; program/Envision Marine, 30:54; safety standards, 5:64; surveyor’s ethics/integrity/role, 5:64, 24:72, 30:26, 44:72, 50:80. See also accidents, boat/marine; surveyors/surveying, profession/judgment

insurance, liability, surveyor:

coverage/selection, 59:89

insurance, property/fire/builder’s risk:

ABBRAGARD program, 29:54; coverage selection/negotiations, 1:50, 7:28, 12:4, 29:54, 37:60; fire protection compliance/claims, 44:18, 44:22; site audit/hurricanes, 27:18, 27:21. See also fires, boatyard

Insurance Service Organization (ISO): risk assessment data, 81:146

insurance, workers’ compensation:

classification/experience-modification rating, 24:11; insurance brokers, 23:13; premiums/cost control, 23:13, 24:11, 24:17; resources, 24:16; as state statute/federal regulations/Longshoreman’s Act, 81:146

Intense Boats: high-performance surface effect hullform, 96:6, 114:10

Intergraph Corp.: Intergraph design/lofting hardware/software, 8:35, 17:58


interior designers, independent: HF Interiors and Knight & Carver Yacht Center, 127:42; Joe Artese Design, 17:8, 123:46; profession/design approaches/sources, 6:34, 6:39, 7:5; relationship with builder, 6:34, 40:24, 87:46

Interior lighting for yachts, 87:80

Lyman-Morse, 97:82; at Nautor’s Swan, 84:52; at Platypus Marine, 85:96; RTA (ready-to-assemble) techniques/applications, 40:42
countertops; fabrics, marine/upholstery; furniture, interior; interior joinerwork/cabinetry; paints/finishes, interior; upholstery/cushions interiors, paints/finishes. See also
countertops; fabrics, marine/upholstery; furniture, interior; interior joinerwork/cabinetry; paints/finishes, interior; upholstery/cushions interiors, paints/finishes. See also
countertops; fabrics, marine/upholstery; furniture, interior; interior joinerwork/cabinetry; paints/finishes, interior; upholstery/cushions interiors, paints/finishes. See also
countertops; fabrics, marine/upholstery; furniture, interior; interior joinerwork/cabinetry; paints/finishes, interior; upholstery/cushions interiors, paints/finishes. See also
countertops; fabrics, marine/upholstery; furniture, interior; interior joinerwork/cabinetry; paints/finishes, interior; upholstery/cushions
InterMarine USA: UV-PPG fabrication, 48:35
International 14s: Bruce Kirby designs, 142:62, 151:24; double-trapeze sailing dinghy, 134:42; Object2 Skiffworks, 134:42; Paul Bieker designs, 74:68; similarity of body plan to Windward Passage/Alan P. Gurney design, 151:24; Stuart Morris/Prince of Wales trophies, 142:62
internationalism of marine industry: cooperative boatbuilding ventures, 23:4, 26:51; marketing/trade exhibitions/boat shows, 55:3, 55:16. See also Europe, exporting to; international market/exporting
International Association of Marine Investigators (IAMI): development of, 71:27
International Electrotechnical Commission (IEC), 156,24
International Marina Institute (IMI): boatyard management program, 35:52; environmental workshops, 38:51; pollution-control manual, 33:75
International Marine Industries: spar market/design/technology, 3:42
International Marine Repair & Refit Exhibition & Conference (IMREX): 62:12
International Marine Standards Summit, 104:96
International Maritime Organization (IMO): chemical carrier standards, 43:36; inclining experiments for certification, 162:24
international market/exporting: CE (European Certification), 63:38; certification standards/testing, 27:3, 28:54; market trends/’90s, 29:8; owners’ manuals, 29:4. See also certification; Europe, exporting to
International Monohull Open Class Association (IMOCA): racing sailboats/ever-changing rules, 162:52; Vendee Globe, 162:52
International Offshore Rule (IOR): and Cruising Club of America (CCA) rating rule, 162:24; impact on bow/transom design, 25:55; impact on cruising yacht design, 30:48, 76:60; measurement rules/cruising-racing yachts, 30:48, 152:10; measurement rules/offshore racing yachts, 60:66; Quarter Ton Class, 142:62; sail area changes, 154:36; standing rigging requirements, 55:44; ultralight displacement boat (ULDB 70), Alan Andrews, 154:36. See also Bruce Kirby.
International Paint (USA) Inc.: Superyacht 800 customized paint system, 5:26
International Rule, 61:76
international units of measurement: Systeme Internationale d’Unites (SI units), 55:5
International Women in Boating (IWB): market research/workshops, 23:54, 24:58, 28:54
International Yacht Restoration School: restoration of Coronet schooner yacht/see-through shed, 101:24; yacht restoration program, 101:106

Internet. See computer applications, online (Internet)


Inventive Machine Corp.: Air Strip system (plastic-media blasting), 7:8; Blast N’Vac system, 15:70; Mad Mac blast-cleaning system, 47:66; Sand ‘N Vac, 9:56

inventory/parts, computerized tracking: bar code system, 33:36; bill of materials/relational database, 50:59, 62:26; disadvantages, 39:70; Global Solutions Business Planning & Control System software (BPCS)/Cruisers Yachts, 114:68; parts keyed to design/AutoCAD, 28:32; parts keyed to design/CAL/NCC, 38:47

inventory/parts, purchasing/control: bill of materials, 50:59, 87:46; discounts, 35:25; just-in-time (JIT) manufacturing, 12:10, 18:54, 26:20, 28:32, 29:22; kanban system, 29:22, 38:47, 41:28; for megayachts, 32:18; metal/casting vs. NC cutting, 42:46; quality vs. profit, 32:64; technical resource (American Product Inventory Control Society), 12:10. See also inventory/parts, computerized tracking


IOR. See International Offshore Rule (IOR)

Iosso Products: Marine Polishing Paste, 20:56

iPad speed controls: on COMO EA runabout, 137:12

Irens, Nigel: Design 027 traditional weekender yacht, 80:68; gaff cutter Eleanor Mary, 56:10; Gunboat 55 sailing catamaran, 138:6, 144:58; Gunboat 60 sailing catamaran, 144:48; 115’ power trimaran design, 50:11, 55:16; profile, 63:86; foil trimaran prototype SCAT, 75:14; Maggie B/Covey Island Boatworks, 100:36; Westernman cutter, 100:24


Irish Boat Shop, Inc.: Fein vacuum for dust control, 84:10; recession business strategies, 121:62; structural damage to FRP boats, 97:174

Irwin, Ted: racing sailor and boatbuilder/obit, 155:10

I-Shades: windows using current for light transmission, 84:18; 131:54. See also electrochromatic glass.

Island Marine: Wilbur 34 redesign/lifting strakes, 45:86

Island Packet Yachts: dealership strategies, 117:54; EC (EU) certification process, 41:41, 68:54; FRP waste reduction/good
manufacturing practice, 55:26, 68:54; Hoyt Jib Boom, 126:8; outsourcing vs. in-house assembly, 37:16, 68:54; profile/handling rapid growth, 11:34, 11:39, 68:54; sailing catamaran market, 30:48; SP Cruiser/Bob Johnson design, 117:54
Island Style Custom Yachts: Island Style 42 Express semi-custom Sportfish/Scott Quaintance, 125:8
Island Technology, Inc.: No-Strike lightning dissipator/protection system, 31:68, 43:64
Islander Yachts: Bob Perry designs, 97:28
ISO. See International Standards Organization (ISO)
isolation transformers: for AC shorepower systems, 45:105; applications/installation, 30:38, 41:21; vs. galvanic isolators, 45:105; ISO-Boost/ISO-Transformer, 45:105
isolators, galvanic. See galvanic isolators
isolators, vibration. See noise/vibration isolators
Italy. See Malingri, Doi; Nuvolari/Lenard Naval Design
ITC Marine: Contemporary portlight, 5:58
ITT Jabsco: Centri-Max centrifugal pump, 29:58; Ray-Line 255SL searchlight, 7:50
ITW Adhesive Systems: Plexus methacrylate adhesives, 26:56, 27:70, 29:8, 42:5, 52:81, 60:11, 60:104; spray finish training workshop/Owens College, 75:74
ITW Fluid Products: Accu-Clean, 20:56
Ives, Frank: FRP spray equipment development, 38:30
J. & A. Enterprises Inc.: noise/vibration control, 34:26, 34:27
J Boats, 98:28, 157:50; elevated work platforms, 113:10
Jachtwerf Neptunus b.v.: mild steel powder-coated fuel tanks, 158:54; sliding-top cabin cruiser, 54:18
jacking carriage: for resetting keels, 4:6
Jackson, Gifford, designer: Marisol skiff, 105:120
Jackson, Tom, author: “Anti-splashing Protection Has Arrived,” 83:103
jackstands. See boat stands/jackstands
Jacobs, Jim: on gelcoat patch repair, 65:5; on structural repairs, 99:4
Jacobsen, Bjorn: on owners’ manuals/European market, 29:4
Jacobson, Clayton: on Applying Savitsky and using concavity for lift vs. prismatic solution, 149:04
Jacops, Peter: on boatbuilding to a single standard, 106:4
James Anthony Powerboat Company. See Anthony, James, Powerboat Company
James Betts Enterprises, boatbuilders: building an Open 50, 65:24
James, Peter: on networking the three-cable boat and NMEA 2000 systems, 99:4
Jamestown Boat Yard: osmotic blister repairs, 9:50, 16:42
Jamestown Distributors: Website, 63:10
Janice of Wyoming, 130’ sloop, 103:17
Janicki: high precision tooling, 136:56
Jankel, Robert: 105’ schooner, 2:12
Jannace, Charlie: on cored bottoms, 51:22
Jansen, David: five-axis milling machine/Janseneering, 90:13
Japan: hull recycling programs, 54:43; kaizen/management, 39:52, 39:55; kanban inventory system/CAD/NCC,
38:47; kanban inventory system/circular manufacturing, 29:22, 41:28; poka yoke assembly aids (CAL/NCC), 38:47
Japanese Craft Inspection Agency (JCI):
standards for exporting boats, 63:38
Jarvis Newman Company. See Newman, Jarvis, Company
Javes, Art: designer profile, 53:12; rigid-wing sailing trimaran, 53:12, 55:16
Jaworski, Michael: on EcoPoxy Systems, 125:6
Jay Stuart Haft Co. See Haft, Jay Stuart, Co.
J-Class Yachts, 124:12, 141:50, 143:40; hybrid power system for Rainbow, 143:46; new J-Class rules, 141:50, 143:40
J/24 keelboat, 98:28; 147:38. See also USWatercraft.
J.D. Power and Associates: recreational boat industry survey, 73:136
Jefferson Yachts: Nida-Core applications, 36:78
Jenkins, Valentine (Val): on building chines, strakes, steps, transom corners, 58:79; on carbon fiber/Kevlar, 28:18; and Chris-Craft turnaround, 80:48; on Foil Fix and stern-mounted hydrofoil benefit, 161:3; on working with carbon fiber, 61:34; on honeycomb cores/applications/techniques, 22:8, 22:20; on hull-to-deck joints/FRP shoebox, 60:104; on in-house machine shop, 48:56; production engineer/Tampa Yacht Manufacturing, 161:20; profile/managing production, 12:10, 80:48, 95:38, 161:20; on sportfishermen layouts, 78:56; and Southport Boat Works, 95:38; on workers’ comp, 24:11; on woven vs. knitted reinforcements, 29:38; on vinyl ester resins, 28:18, 42:52. See also Cigarette Racing Team, Inc.
Jeanneau America: Jeanneau Sun Odyssey 409 and Harken winches, 132:6; Sun Fast 3200 sailing sloop, 119:6
Jeanneau North America: cruising catamarans, 30:48; Lagoon Power 43/cat without a stick, 86:14
Jensen, Arild: on ground faults and galvanic isolators, 101:4
Jensen, Niel: on slide valve for crossover between water-cooled mufflers, 93:4
Jerow, Jeanne: on survey reports, 30:26
JetCo: jetsprint boats, 57:15
Jetcraft: builder profile/welded aluminum construction, 21:26
jet propulsion/jet drives: fighter-jet style boat, 77:10; Hamilton jet drives, 96:52; Hinckley JetStick/36’ Picnic Boat, 57:110, 67:70; Stolkraft/Sea Sled/power prediction, 49:42; Turbodrive, 8:54. See also jet boats/jet skis
jetsprint boats: racing/Pacific Northwest, 57:15
Jetter Corporation: Jet-Pro pressure washer, 2:70
jigs: adjustable jigs for multiple builds, 162:66; for aluminum construction, 26:20; for Beetle Cat, 23:32; for clamping, 13:8; for cold-molded building over rigid steel, 61:10; for framing/Bessey KP system, 5:58; for interior joinerwork/CAD/CAM, 13:43, 40:42; for joining DuraKore strips, 15:34; for laminating (frames), 13:8; for making templates, 23:20; for scarfing, 13:43; for turning hull, 58:13
Jim Gardiner: Comp Millennia/advanced-composite structures, 120:62
Jim Smith Boats: boat cloth and epoxy, 62:62
J & J Marine Fabricating Inc: profile of, 104:78
job-cost system: Townsend Bay Marine, 68:44
“JockeySeat,” shock-mitigating seat: 70:66
Johannsen, Anders: on ozone-clean marine refrigeration/service, 26:17
Johannsen, Tom: on Airex/Core-Cell, 35:58; on one-off tooling, 10:42; on Poly-Bond/structural adhesives, 42:5; on standardized testing/cores, 34:42; on syntactic foam putties/hot weather, 33:46
John, Frank: on electric motors replacing conventional diesels, 139:5
John, Thomas (Tom): on environmental air permit exemptions for combustion-powered heater for curing ovens, 83:4; on VOC regulations/compliance, 10:8
Johnson, Bob, author: “Kiko, Bob, and Slim” 117:54
Johnson, Bob: on Elgin outboard motors, 121:9; on the short fin-keel problem vs. longer keel design, 103:6
Johnson, Bruce, author: “Thomas C. Gillmer: 1911-2009,” 126:8
Johnson, Charles F.: career of Jack Hargrave, 43:36
Johnson, Don: paint removal (plastic media blasting), 7:8
Johnson, Eric: on ABYC Standard H-29 revision for seacocks, 115:6
Johnson, Forest: Prowler boats, 134:4
Johnson, Jay: Glas-Craft/early spray equipment, 38:30
Johnson, Jeffrey V., author: “Stress in a Production Setting,” 39:52
Johnson, Robert (Bob): on EC (EU) certification/harmonization, 41:41; on Fuji Rudder Forensics and What’s The Rush?/observations and comments, 154:4; profile/Island Packet Yachts, 11:34, 11:39, 37:16
Johnson, Rod: designer/Sea Pearl, 55:46
Johnson Controls: Dynasty marine gel battery, 10:52
Johnson Supreme Marine: paint removal (plastic media blasting), 7:8
Johnston, Dan: Falcon fabrication system/convex-curved aluminum plating, 24:39; profile/demise of Falcon Marine, 57:15
Johnston, Greg, co-author: “Working-Class Wing,” 140:60. See also Johnston, Patrick, co-author.
Johnston Industries Composite Reinforcements Inc.: 69:13
Johnston, Patrick, co-author: “Working-Class Wing,” 140:60. See also Johnston, Greg, co-author.
Johnstone One-Design, 98:28
Johnstone, Peter: founder of Gunboat International, 98:28, 144:58
Johnstone, Rodney: J-90/L-Keel, 54:18; on sailboat market, 30:48, 98:28; mini Transat Acadia, 103:54 See also J-Boats Inc.
Johnstone Yachts: thermoplastic construction, 11:20. See also J-Boats Inc.
joiner/shaper: Stanfield JS1010, 11:52
Jolley, Eric: 3-D CAD modeling, 41:5; conversion of Ultimate 30 sailboat to lightweight powerboat/Shearwater pocket-cruiser, 115:162, 116:40; Design Challenge/PT Skiff design, 122:24, 130:52
jon boat, aluminum: efficiency, 16:4
Jones, D.E. and Associates: profile of, 149:56. See also Jones, David E., author; Jones, David E.
Jones, David E., author: “Single Skin or Sandwich?” 99:104; “Six-Step Program,” 112:88
Jones, David, E: on building chines, strakes, steps, transom corners, 58:79; composites engineering affiliation with Lazzara Yachts, 149:56 on fiber-to-resin ratios, 59:30; flexural testing of solid laminate skins, 149:56; on gelcoat peelers, 16:42; on knitted reinforcements, 29:38; multi-mission combatant craft prototype, 149:56; on secondary bonding/shop testing, 39:19; on shock mitigation, 149:56; on solution to hydrodynamic peel and fracture in laminate shell, 91:12; on standardized composites testing, 34:42, 50:46; testing polyurethane adhesive/sealants, 28:27; on wet balsa core, 98:4; on wiring/mounting bilge pumps, 44:26
Jones, Ivor: on fiberglass, 14:2
Jones, James: on SP Systems Resin Infusion Technology and PVC foams in elevated-cure applications, 81:6
Jones, Roger: stick-built deck plug, 28:8
Jones, Roger, author: “Used Boat Nation,” 110:118
Jones, Ron: Composite Technologies/32’6” hydroplane, 2:12; profile/Fabrication Specialties/Unlimited hydroplanes, 56:40; Outrider 27 bow-ski prototype boat, 78:12
Jones, Ted: on Bill Tripp custom-design boat, 217 deDood Nicola IV, 107:4
Jones, Tony: on motorboat performance testing, 90:4
Jones-Goodell Yachts: fiberglass megayachts, 2:42
Jonsson, Sigurda Olafs: aluminum fishing boat/ Design Challenge, 122:24
Joseph, David: on vacuum pumps, 87:4
Joughin, David, author: “Core Transitions,” 110:96
Jowi Sailboat Support Systems, Price Design Inc.: folding boat cradles, 54:18
Joyce, Peter: on battery terminal connections, 26:3
J.R. Overseas Co.: moisture meters, 19:8
junk, sailing: Jockey Club Huan/Cheoy Lee, 103:112
Juska, Thomas: advanced-composites research, 47:57, 58:36; profile/carbon fiber fabrication, 58:36
just-in-time (JIT) manufacturing: Cigarette Racing Team, 12:10; inventory control systems, 12:10, 18:54, 26:20, 28:32, 29:22; with pre-pregs, 24:18; production flow, 12:10, 26:20. See also inventory/parts, purchasing/control
Jutson, Scott, designer: aluminum research vessel/Jutson and Armstrong Marine, 151:12; power catamaran for Kodiak Brown Bear Center, 151:12; 75, 152:36; maxi yacht Brindabella/Sidney to Hobart Yacht Race, 151:12; M2 60 high-performance luxury yacht/fuel efficiency, 151:12; work with Armstrong Marine, 152:36

K&M Yachtbuilders: Bestevaer aluminum cruising boats, 141:50
Kaidy, Robert S.: on boat guys/”lifers,” 107:4; redesign of Tempest 35 and 60 boats, 161:20; and Tampa Yacht Manufacturing, 161:29
Kaidy, Robert, author: “Ethics for the Naval Architect,” 159:80
Kaiser, Bruce A.: on lightning dissipators, 46:5; on lightning protection and streamer-delaying air terminals, 88:4
Kalas Manufacturing Inc.: boat cable manufacturer, 51:69
Kal Kustom Enterprises: use of custom industrial plywood, 16:12
Kamen, Paul, author: “Is There a Surface Drive in Your Future?,” 2:52
Kamphius, Ryan: on MTU-issued guidelines for blends of fatty acid methyl esters (FAME) and current MTU engines, 118:4
Kamps, Ria, author: “Innovative Dutch Trihull,” 147:10
Kanter, Charles E.: on holding tanks/head installations, 52:4
Karafiath, Gabor, author: “Stern Flaps,” 70:81
Karcher, Alfred A.: compact high-pressure washers/steam-cleaning equipment, 20:56
Karver Rigging (Honfleur, France): hardware for sailboats/K-Evolution line, 95:6
Kasten, Michael, author: “Loftsm Liabability,” 38:14
Kaufman, Mike: on racing yacht scantlings/floating-frame construction, 50:5
Kazulin Boats Ltd.: Barka utility boat, 141:6; best marketing tool for, 80:4; introduction of all fiberglass runabout, Kavalk25/Sport Runner/Adriatic, 141:6; profile of, 65:52; restoration of Riva runabouts, 141:6
Kazulin, Veljko: obit, 145:12
Kays, Brian: on analyzing accelerations, 143:6
KCS International, Inc.: Rampage Sportfishing Yachts, 59:10
K.D. & S. Engineering: roto-molded polyethylene utility skiffs, 11:28
Keehnp, Patricia: on NFPA fire-protection standard, 44:22; on surveying damaged boats, 25:18
Kecsmar, John: response on fabrication failures in aluminum and cracking, 139:5
Keefe Kaplan Maritime: dedication to safety and regulatory standards, 140:18; electro-coagulation treatment system, 140:18; large capacity temporary shelters, 140:18; recession business strategies, 121:62; re- conversion of America's Cup boat, USA 76, 140:22; storm-water treatment, 140:18;
keel basket trailer: 63:54
keelbolts: basic design condition for, 96:72; boring machine for, 84:52; epoxy-potted, 51:36; galvanic corrosion, 15:23, 38:20, 39:4; knockdown situation, 96:72; range of materials for, 156:70. See also keels, ballast
keels, ballast: articulated/canted wing/winged, 6:20, 10:42, 37:66, 60:66, 95:76; attachment/fasteners, 15:23, 23:24, 38:20, 39:4; ballast stability/Didi 38 (Black Cat), in knockdown, 149:20; beavertail bulb, 96:72, 118:22; bulbous/lead, 23:24, 30:4, 49:45, 65:24, 156:70; ; bulbous/NAB (nickel-aluminum-bronze), 54:18; canting ballast twin foil (CBTF), 47:17, 95:76; canting keel on Aqua Quorum, 62:46; canting keel on Baltic 78; canting keel on KingFisher, 70:38; canting keel on SpeedDream, 141:24; canting keel on Ultimate 27, 76:60; carbon fiber and wood-epoxy keel, Bagatelle, 96:72; Islander 34 wing keel,

Keene, Hank: on custom castings/patternmaking, 42:46
Keene, William: on Landing School marine systems training, 77:5
Kehren, Bert: on pros of using whole-boat or dockside ground fault protection in addition to GFCI’s on boat electrical outlets, 105:4
Keizer, Marc: on boat shows/marketing, 36:60, 36:64
Kelley, D.N., & Son: stretched schooner/Arabella, 53:12; celebrates 135 years in operation, 61:10
Kelley, Steve: No-chem Paint Stripping (plastic media blasting), 7:8
Kelley, William H.: on fire/property insurance, 7:28
Kellogg, Mark: preservation of boat plans, 21:12
Kelly, John: on interior design, 6:34, 6:39
Kelsall, Derek: on balsa vs. pvc foam sandwich construction, 101:4; on contour-cut vs. sheet foam/cored bottoms, 55:5; on difference between tortured plywood and Kelsall Swiftbuild Sandwich (KSS) system, 139:5; on formula for performance prediction for catamarans under power, 130:6, 133:8; Great Britain II/Alan Gurney design, 154:4; Kelsall Cat Rigs, 136:10; Kelsall Swiftbuild Sandwich (KSS) system, 50:11, 91:12, 124:6, 136:10; on Peel Ply/secondary bonding, 36:4
Kelsey, Mike: on aluminum-fiberglass construction, 17:19; on manual vs. computer lofting, 24:30, 53:28; on megayacht market, 12:50, 53:28; profile/Palmer Johnson, 53:28, 95:3; on welded aluminum construction, 24:34, 53:20
Kelton, Jeff: on Stolkraft hullform, 49:48
Ken Hankinson Associates. See Hankinson, Ken, Associates
Kendon Group, Inc.: Sea-Slide hull lubricant, 14:57
Kennedy, William: on changed workplace and work force, 77:5
Kent, Jeff: on pre-pregs, 24:18, 24:21
Kenyon Galley Products: Adler/Barbour Cold Machine, 22:56, 26:8; HFC-134a/MP 39
planing hull design for waterjet propulsion system, 67:70

King, Bruce, author: "Large-Scale Cold-Molding: Engineering Structure," 51:36

King, Dan: profile/Pacific Skiffs/CAL/NCC welded aluminum construction, 59:71


King, David C. (Dave): on megayacht construction/Admiral Marine, 32:18; on one-off molds for megayachts, 3:5

Kingdon, John J.: on ABS scantling rules, 37:4

King Plastic Corp.: StarBoard polymer sheet material, 7:64, 21:26; StarBoard recycling program, 35:58

Kingsbury, Robert: on recycling fiberglass boats to use as artificial reefs, 135:4

Kirby, Bruce: cartop dinghy, 142:62; and IOR/Quarter Ton Class, 142:62; Laser racing dinghy, 142:62; Nightwind 35’ centerboarder cruising boat, 142:6; profile of, 142:62;


Kit Systems: NC lofting/cutting, 7:18

Kitchell, Joe: traveling boatbuilder, 153:8; turning a mold into an oven, 153:8

kiteboats: kite-powered foiling catamaran/Don Montague, 162:12

kite-flying motor cruise, 133:6

kites/skysails, 109:17; 117:26

KiteShip, 109:17

kits, boat (NC lofting/cutting):
  aluminum/Modular Marine, 43:83;

kits, spill containment/cleanup. See spills, fuel/chemical, cleanup/containment kits

Kittredge, Stephen: on Dynal, 11:5; on fire protection in marine composites, 64:5

Kiwi Magic: FRP 12-meter, 61:66

Klaha, Kim: on fundamentals of steering systems and terms of force and pressure, 102:4

Klegecell (cross-linked PVC) foam, for FRP sandwich construction: core bonding/installation, 9:36, 129:40; for cored bottoms, 51:22, 51:26, 94:18; structural cores, 52:30; tooling for one-offs, 10:42; vs. Airex, 3:34

Klegecell (cross-linked PVC) foam, for wood sandwich construction: Stave Rander/Schooner Creek/COVE system, 55:79

Klegecell Polimex. See Polimex Klegecell

Klein Tools: cable cutter, 12:60

Klem Flying Boats (Virginia): Outrider 27 bow-ski bpat, 78:12
Kleinberg, Al: on requirements for performance of 100-knot yacht, 102:4
Klingel, Gilbert ("Gil"): on identifying corrosion, 15:23; steel boatbuilding, 85:4
Klink, Amyr: Brazilian sailor-explorer/Antarctic circumnavigation, 60:11
K-Lite: bedding putty (foam cores), 9:36
Klopman, Jonathan: on vintage speedboats, 82:4; on The Power and Peril of Stainless and stress corrosion cracking, 148:4
Knight & Carver Custom Yachts: 400’ floating drydock, 127:42; gelcoat restoration, 15:44; M80 Stiletto hull design (M Ship), 97:10; one-off tooling, 10:42; painting, 52:54; power multihull/circumnavigation, 50:11; profile of, 127:42; 70’ sportfisherman, 1:20; varnishwork, 19:36; workers’ comp premiums, 23:13, 23:14
Knit Wits, Hatteras 41 convertible/refit, 160:8 knitted directional fabrics. See fabrics, knitted directional
knotmeters: Speedmate, 44:54
Knowles, Tony: on survey haulouts, 30:72
Knox Marine Consultants: Yacht Claims Conference Workshop, 74:9
Knox, Stephen: on personal watercraft safety, 46:10; research on sales of undamaged boats vs. damaged boats, 107:14
koa, Hawaiian hardwood, 123:46
Kobelt Manufacturing Co.: help pump, 6:52
Kobayashi, Roy: obit, 94:8
Kochman Reidt and Haigh: NC lofting/cutting, 13:43
Kody, Paul: on Hitting the Ethanol Blend Wall and proposal to revoke the alcohol-fuel law, 161:3
Koebke, Ralph: on metric units for pressure and English (imperial) units for pressure, 95:4, 101:4; on Florida’s landmark licensure decision, 115:6
Koelbel, Joseph G., Jr.: history of stepped hulls, 85:76; on end-fixity coefficients for panel design bending moment, 69:5; and ferrocement boat design, 71:99; on
structural calculations for hull design loads, 70:5
Konkol, Janusz: Haber Yachts, 148:4; sail straight boats, 148:10
Kopcsak, Pete: on fuel polishing, 113:4
Kopr-Shield: compound for marine wiring, 8:12
Koroknay Marine Woodworking: spraying varnish, 19:36
Kortchmar & Willner: arbitration, 12:40
Kotzebue, Paul, Marine Enterprises: computer-generated 3-D model, 24:62
Kouyoumdjian, Juan, designer: Juan Yacht Design, 127:92, 145:78; Star-Class boat, 127:72
Kozel, Al: on Detroit Diesel engine management system, 14:34, 14:38
Kozloff, Alex, author: “Let’s Debunk a Myth,” 67:136
Kozloff, Alex: chain plates, 146:10; Duffy Voyager, wave-piercer, 61:52; electric speedboat design, 50:11; obit, 146:10; profile/FRP sandwich construction engineering course, 58:13; Young America’s mishap, 64:11
Kozlowski, Dennis: 150’ aluminum super-sloop/Derektor Shipyards, 82:8
Kozlowski, Fred: wheeled crane, 36:20
Kozuls, Aivars, designer-builder: Blesser runabouts, 101:12
Krautkramer Branson: USD10 ultrasonic flaw detector, 40:4
Kremer, Charles E.: on Onan exhaust manifold nipples, 45:5
KROS (Kite, Rowing, Ocean Planning, Solar Energy) project boat, 115:6
Krueger, Wolfgang: on water-reducible coatings, 22:55
Krygsman, Martin: on the Foil Fix and importance/safety of directional control, 162:6
Kulka, Harv: electronically managed engines/diagnostic systems, 20:8
Kull, Marcia M.: builder’s liability lawsuit, 15:50
Kullman, Birger: designer of patrol/rescue boat, 61:10
Kuriyama of America, Inc.: ABA Sure-Seal Clamps, 9:56
Kuuaskoski Oy (Finland): boat recycling company, 160:40; Finnboat boat disposal initiative, 160:40
Kvartet Ltd. (St. Petersburg, Russia): noise test on Russian engineers, 83:14
Kvichak Marine: Alcan/defective aluminum, 152:6; Chinook, self-righting pilot boat, 68:11; contract to build Response Boat-
medium patrol boats for U.S. Coast Guard, 121:78; design of quieter whale-watching boat, 63:10; fireboats for Los Angeles Port Authority, 81:10; foil cat, 81:10; merger with Vigor Industrial, 156:12; profile, 69:114, 96:52; use of environmentally friendly Epaint, 105:106; virtual-reality welding training/VRTEX 360, 133:12

Kydex: thermoplastic alloy (acrylic/PVC), 10:40

La Baronessa: 62:12, 76:36

La, Jimmy: L&B Technologies vs. Out Island Sport Yachts lawsuit, 93:112; Seaview 36 Express, 93:112

labor: tracking and expenses, 146:18. See also payroll/wages, work force.

Lacovara, Bob: on CFA styrene emissions study, 40:17, 41:5; on resin chemistry use in closed molding process, 68:5; on worker training, 13:54; on VOC regulations/compliance, 10:8


Lagner, Richard M.: on prop nut sequence, 123:6

Lake, Susan, author: “Core Transitions,” 110:96

ladders: design/occupant protection, 34:13, 69:92; double-hooked/Garellick Brothers, 81:10. See also staging

Lambers, Tom: on design mock-ups, 10:4

Lamboo Technologies: laminated bamboo panels, 159:10

Lamerdin, Babe: remembrance/obituary, 51:11

laminar and turbulent flow: drag reduction/dimpled bottoms, 59:5, 60:11; model testing/resistance/performance prediction, 58:6, 58:26, 60:66

lamine bulkers: BaltekMat, 7:50

lamine/core bonding. See core bonding, materials/techniques; fiberglass construction, cored/sandwich laminates, inlaid screen-printed: Wilsonart, 34:28, 34:32

laminating fabrics. See fabrics, specialty; fiberglass fabrics/reinforcements
laminating frames: adjustable clamping jig, 13:8
laminating techniques: airflow/styrene emissions, 40:17, 40:18, 40:22, 108:18; blister prevention, 15:13, 50:46; blister repair, 17:11; core repair, 97:130, 82:22; at Gold Coast Yachts, 124:42; for keel stub/floors, 38:20; for small parts, 13:70, 73:79; reducing solvent use, 20:40, 21:18; repair patches, 36:34, 82:22; setting up an appropriate vacuum distribution system for, 83:34; for test samples, 50:46; work area, 17:34, 73:79, 108:18. See also fabric impregnators; laminating techniques, closed-molding; laminating techniques, hand layup/open-molding; spraying systems/equipment; robotics; styrene emissions, monitoring/reduction/compliance; vacuum-bagging; VOC emissions, reduction/compliance
laminating techniques, advanced composites: training, 41:58, 42:5, 47:57, 58:104. See also laminates, marine, advanced-composite
laminating techniques, closed-molding:
fabrics/reinforcements; laminates, marine; laminating tools
laminating tools: Dibber handheld laminating tool, 154:12; catalogs of, 18:54, 20:8, 25:59; cleaning/blister prevention, 15:13; foam pads, 60:27; Magnum wet-out gun, 71:52; work area, 17:34. See also Barcol Hardness Tester (durometer); brush, tip-off; geltimer; resin pumps; resin (gram) scale; roller brake; rollers/bubble-busters; squeegee
lamp, quartz. See heat lamp, quartz
Land Rover Ben Ainslie Racing: and Owen Clarke Design, 159:60; WinDesign velocity performance wind prediction program, 159:60
land yacht: three-wheeled/Iron Duck, 60:11
Lane, Ken: on CAL/NCC implementation/training, 38:47; on RTA/interiors, 40:24
Lang, Richard: on use of Polyumac’s Aircell Polyester Foam/All Points Boats, 94:4
Langan, Michael, “Bill”: on carbon fiber vs. aluminum spars, 47:44; designer/on Sparkman & Stephens, 59:48; on megayacht market, 12:50; obit, 130:10
Lanning, Bruce: holding tank design, 50:69
Lantor Plastic: Coremat (print-through control), 7:50, 7:62
Lapworth, C. William, designer: obit, 104:12
Larson, Pete: on acetone replacements: 33:20, 33:26
Larson Boats: acetone reduction/replacement, 33:20, 33:26; custom industrial plywood, 16:12; dust-control systems, 28:38; 25’ Senza Spectre, 5:52, 7:5;
Larsson, Lars: author, Principles of Yacht Design, 148:10
Lascelles, Graham: on using people in estimating weight/stability, 44:5
Lasdrop: mechanical face shaft seals, 29:14, 29:21
Laser Boat: refinement of wing-sail on, 63:10
laser cutting vs. CNC routing, 115:162
laser welding: Precision Light Systems hybrid Laser/Gas Metal Arc Welding process, 103:44; steel sandwich panels, 103:44
Lash Brothers: boatyard fires/insurance, 1:50
Latham, Bob: profile of, 130:44
Latham Performance Products: steering system, 130:44; cooling unit for CNC lathe, 130:44; transom-mounted hydraulic dinghy lift, 130:44
lathe: in-house machine shop, 48:56; South Bend, 48:56
Lathrop, Tom: Pamlico skiff/Powerboat Design Challenge, 122:24
Laudeman, Bill: on plywood structure, 41:5; on survey reports, 32:4
launching: traditions, 51:11. See also boat lifts/hoists; boatyards/marinas,
facilities/equipment; boatyards/marinas, management; hauling and launching

Lawrence, Charles: on Fairey Marine and its boat productions, 151:6

Lawrence, Charles, author: “Fairey Marine,” 147:64

Lawrence, Jack: on team building, 13:54


Lawrence Productions: video production, 22:42


See also builder’s contracts; legal issues; merchant’s contracts

lawyer: selecting/builder’s contract, 37:60. See also lawsuits/litigation

Lazarra Yachts: 62:62, 67:3, 67:110; balsa-cored boats, 96:3; and American Quality Furniture Co., 90:13; composite construction/affiliation with David E. Jones, 149:56; installation of inboard performance system (IPS) pods on LSX75 express cruiser, 115:32; interior design award, 81:10

Lazarra, Vince: founder of Lazzara Yachts, 67:123, 149:56

Lazarus, Paul: correction on “0 to 60” article, 154:4

<table>
<thead>
<tr>
<th>Topic</th>
<th>Page</th>
</tr>
</thead>
</table>

LCG. See longitudinal center of gravity (LCG)

Leach, Jim: on ABYC jet boat safety standards, 36:50

lead: cast-lead production sailboat keels/Mars Metal Co., 156:70; environmental constraints, 156:70; Sonalead soundproofing, 21:26; use with antimony, 156:70. See also keels, ballast

Leadership 44’ sailboat. See also Luders 44.
Leading Edge Tool Co.: Squeeze-Wrench, 14:57; Tight Fit Tool Kit, 10:52
leak detectors: AudioTech Probe, 19:59; moisture meters as, 3:60; ultrasonic (Panorama), 2:70; as tool for infusion, 88:26
lean manufacturing methods, 148:4
leases, boatyard: negotiations, 3:48; cost analysis, 69:114
LeClercq Marine: transition/commercial fishing boats to yachts, 40:24
LED (light-emitting diode): 87:82; 115:74; color temperatures/color rendering index, 115:74; current regulating device/drivers, 115:74; DeWalt flexible work lights, 158:48; Dr. LED replacement for common marine halogen lights, 115:74; glove fitted with LED lights, 158:48; Imtra LEDs, 118:8; Lopo light, 115:74; Lumitec lights, 118:8; Sensibulb with thermal control circuit, 117:5
Lee, Bill. See Bill Lee Yachts
Lee, June: on additional information for curriculums for yacht designers/naval architects at University of Southampton and beyond, 103:6
Lee, Richard W.: on pump types/selection, 26:4
Lee, Steve: Westerly Marine/Rule 1162 compliance, 25:8
Lee Engineering Co.: Presto scissor-lift tables (for plywood), 22:56
legal issues. See arbitration; builder’s contracts; lawsuits/litigation; lawyers; leases; liability; libel; merchant’s contracts; product liability; product warranties; patents; trademarks
Legendary Yachts, Inc.: rolling hull/64’ schooner, 58:13
Leichtung, Inc.: Equi-Pressure Clamp, 2:70
Leisure Life Ltd.: thermoplastic construction, 10:34, 34:59
LeMieux, Richard (Bud): profile/Northern Marine, 57:123, 58:9. See also Northern Marine
Lemsteraaks, 143:40
Lenan Corp.: Recyclit SR 80 solvent recycler, 16:52
Lenci, Mark: response on chemical conversion/failure of lithium technology, 157:6
Lenci, Mark, author: “Chemical Conversion,” 155:46
Lent, Dane E.: on Windsor Craft hulls for replica molds for fiber-reinforced plastic boats, 19:4
Leo, Jake: on quality control, 35:4
Lester, Russ: on prop nut sequence in propeller installation, 121:9
Letcher, John: on AeroHydro/Fairline software, 7:18, 8:35; on CAD/CAM applications, 8:35; on CAD/CAM applications/wood interiors, 40:42; Geometry of Ships, 125:50; on numerical fairing and lofting, 79:8; profile of, 125:50
level: electronic digital/SmartLevel, 14:57, 42:26, 42:32, 44:5
Designs, 135:26, 137:4; Salpa 28.5 Gran turismo powerboat, 127:8; Ram-Wing 100 design, 135:26; reverse-tricycle geometry, 135:26; Taxi racing cat/racing drive and propeller design, 137:4; Virgin Atlantic Challenger II, 135:32, 136:32


Levin, Morton S.: on anti-galling compounds, 39:4; on circuit breakers/current ratings, 37:4; on survey reports/descriptions, 31:4; on surveying an electrical system, 72:5

Levitt, Michael, author: “Derecktor’s Way,” 75:126

Lewit, Scott M.: on composite-panel tester, 36:4; on composite stringers/PRISMA, 41:62; on infusion technology patents, 70:5; on knitted fabrics, 32:4

Lewmar Marine: megayacht winch, 6:52; Synchro Block, 78:12

Lexan: adhesive for, 26:56; cleaner for, 55:99

liability: designers and, 9:64, 65:11; surveyors and, 5:64, 30:26; worker safety/training, 13:54. See also product liability

Liba Max 3: CNC multi-axial stitch-bonding machine, 69:13

libel: litigation/yacht design/John Walker, 39:90

Libra-Plast A/S: boatshop/environmental safety measures, 2:67

licensure. See designer/naval architect/engineer, profession/responsibility

Ligard, Halsey: sailmaker, 62:46


lighting, interior/cabin: 87:80, 89:4; design, 6:39; energy-efficient, 36:74; engineroom, 37:26; fiber optics, 34:28, 34:32; mock-ups and, 9:28; nav stations, 11:9; overcurrent protection, 36:41, 38:4; prismatic film/Scotch Brand Parallel Light Film, 34:28, 34:32; Sensibulb/self-
governing thermal control circuit, 117:5; 12-volt dimmer, 55:99
lighting, shop: for curing photo-initiated resins, 18:17; for paint booth, 37:42, 42:20
Lightning Class: sloop Blitzen, 74:44
lightning dissipators (static): Lightning Master, 43:64, 46:5; No-Strike, 31:68, 43:64
Lightning Master: static dissipators, 43:64, 46:5
Lightning Performance Products: gas inboard engines, 17:44
lightning protection systems:
lights, running. See running lights
light spectrum: and photo-curing resins, 18:8, 18:17
Lillebo, Arne: on environmental/boatshop safety, 2:67
Lillistone, Ross: Design Challenge, 129:18
Lilly, Wesley C.: on use of washer with nut for prop nut sequence in propeller installation, 121:9
limber holes: and flooded foam-filled compartments, 37:48; premolded limber holes, 117:74; sealing a frame’s core from bilge fluids, 117:74
Lincoln, James F.: Incentive Management/Lincoln Electric Company, 41:72
Lincoln, Spencer: on designing for production, 2:60; on T-boat conversions, 36:32; Nova Scotia fishing boat hulls, 100:36
Lincoln Composites: carbon fiber laminates/galvanic blister prevention, 57:30
Lincoln Electric Company: incentive management, 41:72; VRTEX 360 virtual-reality welding training system, 133:12
Lindsay, Mark: hardware bonding, 15:21; polyester gelcoat/epoxy laminate compatibility, 43:5, 44:5; on post-curing, 14:45, 14:55; start-up of Boston BoatWorks, 157:50; stronger, faster, lighter craft expertise, 157:50; Tornado catamarans, 15:21
Lindstrand, Leo: on To Heat and To Hold and winterizing choices for marine water heaters, 154:4, 155:4; on Reading the Rust and undersized, poorly designed chainplates, 160:4
linear polyethylene, high-density (HDP): for ancillary boat parts, 29:37; vs. cross-linked/kayaks, 29:33; vs. cross-linked/tanks, 52:18; for kayak hulls, 29:33; for fuel/water tanks, 52:18
gelcoat restoration, 15:44, 84:52; Imron, 19:12, 53:31; for interiors, 19:12; Interthane, 19:12; Sterling, 19:12, 21:26; types/performance, 19:12. See also Awlgrip


linear polyurethane (LP) paints, alternative: automotive acrylic urethane/Deltron, 19:12; Awlgrip 2/less toxic, 45:5; in-mold coatings, 49:59, 51:6


Lipke, Paul, author: “Through-Hulls and Sea Valves,” 8:42

Liquid Control Corp.: Variable-Ratio Mini Machine, 15:70

Lite Cylinder: recall of propane gas tanks, 145:20

litigation. See builder’s contracts; lawsuits/litigation; product liability

Little America’s Cup: C-Class catamarans, 133:70, 134:42; design/construction/Cogito, 39:30; Formula 18 beach catamaran, 134:42; wing (solid) sails, 133:70

Little Harbor Custom Yachts: profile, 33:36

Little Harbor Marine: paint booth, 42:20, 42:24; profile, 33:36; refastening keel, 38:20

Little River Industries: Poly-Steel (PVC) Shelters, 5:52

Liverick, John: on professional engineer licensure, 104:4

Livesay, Mark: on photo-initiated resins, 18:8, 18:17; on photo-initiated resins/Carderock project, 50:5; on Rule 1162 development, 26:34; on spraying/dust-coating PVA, 41:50

Livesay, Mark (Sunrez Corp.), photo-curing resins/applications: air-inhibited (secondary/core bonding), 19:8; pre-pregs (UV-PPG), 18:8, 48:35, 50:5; resin-infusion molding (UV-VARTM), 32:28, 48:35, 50:5; Styblock (VOC-reduction) system, 18:8

Livorsi Marine Inc.: Gaffrig gauges, 36:78

Lloyd’s, German. See German Lloyd’s


loans, low-interest: for small marine businesses, 63:29

lobsterboats: Carroll and Royal Lowell, builders, 73:88; Bunker and Ellis, builders, 109:208; FRP/fast/Holland’s Boat Shop, 45:76; Generic 38/Nimbus/Frost, 73:88; hullform/basis for sportfisherman design, 51:96; Hunt hullform, 50:32; Jonesport Island (Maine) torpedo stern/Will Frost Design, 73:3; Wild Wild West roll and crash/Maine lobsterboat competition, 126:80

lobster yacht, 109:208

lockers: for flats boat, 47:40

Lockhart, Susan: on interior design, 6:39

Lockhart, Susan: on interior design, 6:39

Lockheed Fort Worth Co.: ergonomics program/tools, 37:71

Lockheed Martin: SWATH hullform, 65:102

Lockie, Martin: on managing high current DC circuits/short circuit advice, 91:12


Logic Marine Corp.: profile/world’s largest LLPDE boats, 56:10

Loh, Richard (Rick): on builder’s liability, 15:50; Grand Banks Ltd./builder profile, 19:32

Loibner, Dieter: on fiberglass folkboats, 99:4

Loisel, Tim: on seats and seating on high speed craft, 142:4

LOMOcean: PlanetSolar globe circumnavigation design, 124:22

Long, Henry A., Jr.: on longboard: replacement/PowerBoard, 24:66; on Palawan VI major refit, 83:4

Long, S. Tracy: on inaccuracies in article about Flexiteek and PlasTEAK/PlasDECK products, 126:6

Longino, Frank: on turnaround at Christ-Craft, 80:48, 82:4; Southport Boat Works, 95:38


Loomes, Craig: designer of wave-piercer powercat, 54:43, 54:44; 68:11; 74:54; toe-in and toe-out rudder design for sportfisherman, 74:54

Lord, Lindsay: monohedron/parallel buttock lines, 103:150; stepped powerboat designs, 5:52


Loscombe, Robin: on defining end fixity (EF) in panel-design bending moment, 69:5; self-certifier scantling assessment tool, 136:6

Loudon, Blaine: on honeycomb cores/applications, 22:20

Lougheed, Mark: Modular Marine/aluminum kit boats, 43:83

Lougheed, Mark, author: “Standards for Shock Mitigating Seats,” 146:80

Louisiana Shipbuilders and Repairers Association (LSRA): address, 4:20; efforts/membership, 4:9

Lovelace, Jeffrey: on Securefill, 87:4

Loven, William E.: on secondary bonding preparation/adhesives, 42:5

Low Tech Innovations, Inc.: Dust Muzzle, 19:59

Lowell, Carroll: DuraKore boat design, 1:20; Even Keel Marine, 79:10

Lowell, Pete: on wet exhaust riser and standpipe design/Cummins B300 turbo exhaust, 91:10
Lozman v. City of Reviera Beach, Florida. See also houseboats.

LP paints. See linear polyurethane (LP) paints

LPI Inc.: pneumatic-hydraulic scissor-lift platforms, 44:54

LPU paints. See linear polyurethane (LP) paints

L.R. Oliver & Co., Inc.: Karbide Kutzall SSG circular saw blades, 11:52

LTC-PPG (low-temperature-cured pre-pregs). See pre-pregs

lubricants, anti-seize. See anti-seize compounds/lubricants

lubricants, hull: Sea-Slide, 14:57

lubricants, oil: WD-40, 24:62; WD-40/drowned engine, 43:52

lubricants, refrigerator compressor:
  alkylbenzene oil, 26:8; ester oil, 16:35; PAG (polyalkylene glycol) oil, 16:35

Lucander, Nils: on aluminum/steel tanks, 54:5; on designing efficient boats, 16:4; on design trends/myths, 30:4; on displacement speeds, 8:4, 30:4; on lofting/CAL vs. manual, 39:4; profile/obituary, 60:11; on propulsive efficiency/turbulence/slip, 46:5; on T-bar/aluminum construction, 26:4

Lucander, Nils, author: “Eyeing the Pump Effect, 26:31

Lucas, C.W., Inc.: RIB builder/Hurricane

Ludwig, Richard: on “Applying Science to Sail,” 60:66; on “Bill Tritt and Early Fiberglass,” 60:116; on early fiberglass boat building, 61:8

Luders 44'/Leadership 44' sailboat: infusion build/Morris Yachts, 133:114. See also U.S. Coast Guard.

Luders Marine Construction Company: engine mounts, 36:4; tribute, 36:74

Lufte Yachts (Denmark): closed-molding/Bodotex Composites, 126:8


Luke, Paul E., Inc.: accessories/hardware/ancillary equipment, 14:25, 14:32

Lukich, Ray: on mold-release agents, 12:27, 12:28

lumber: corrosion problems in pressure-treated wood, 91:20; selection/storage (Rybovich), 25:42. See also wood; wood construction; wooden ship building/restoration

Lumileds Lighting LLC: LED lights, 87:97

Lund Boats: riveted aluminum construction, 4:42


Lundstrom, Russ: The Anchorage/Dyer 29, 28:72

Luran S: flotation foam, 34:59

Luxeon LEDs, 87:80


Lyman, Cabot, author: “Dare to Say No,” 122:80
Lyman, Cabot: on boats for older sailors/Landing School, 55:16. See also Lyman-Morse

Lyman-Morse Boatbuilding: Building #11/energy and environmentally conscious shop, 115:56; Maine Island 46/Doug Zurn design, 100:42; 55' SCRIMP-infused motoryacht, 55:16; Finot Open 50 SCRIMP-infused cruisers, 64:64; profile/Boatbuilders’ Olympics, 58:13, 97:82; Sparkman & Stephens Seguin model, 97:82

Lynch, John: on TIG welding without protective clothing, 85:4

| A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z |
| MACC (Multi-Agency Craft Conference): | 70:66 |
| MacCausland, Kathy: on advertising/marketing, 6:42 |
| MacDonald, Jack: on Yacht and Marine Design course/The Art Institute of Fort Lauderdale, 103:6 |
| MacGregor, Roger: Rule 1162 compliance, 25:8 |
| machine shop: in-house/setting up equipment, 48:56 |
| machining: CAM applications, 23:50. See also machine shop |
| MacLane, Duncan: designer Cognito/C-class catamaran, 39:30; on America’s Cup technology, 61:66; Guitana X, 78:12 |
| MacLean, Walt: on professional engineer licensure and other engineering fields, 199:4 |
| MacNaghten, James: on short-fin-keel problem/modeled external keel vs. internal one, 104:4 |
| MacNaughton, Dan: on product quality, 23:50 |
| MacNaughton, Thomas A. on boatyard survival strategy, 12:4; on payment/customer satisfaction, 29:54; on surveyor qualifications/NAMS, 38:4 |
| MacSeal Inc.: Excalibur mechanical shaft seal, 29:14, 29:21 |
| MacSema: button memory modules, 57:88 |
| MACT. See maximum available control technology (MACT) |
| Mad River Canoe: lightweight canoe, 34:55; manufacturer’s award, 34:55; marketing/dealerships, 42:16; marketing/manufacturing, 4:34; marketing to women, 42:16; videos used in marketing, 16:33 |
| Madden, Herb Sr.: rolling boat cradles, 54:18 |
| magazines: Boating for Women, 40:62; Good Old Boat, 56:10; periodical index (boat design/construction/safety), 36:74; Powerboat Reports, 8:9; Practical Sailor, 8:4; Professional BoatBuilder/10-year retrospective, 60:3, 60:27, 60:136 |
magic formula: and boat design internet forums, 130:80
MagLift System, 114:10
magnesium anodes: vs: aluminum and zinc anodes, 157:94
magnetometers: Autonnic, 100:4
Magnum Industries: flow coaters, 25:58; pressure-fed resin rollers, 28:32
Magnum Venus Plastech: precision dispensing system for polyester, vinyl ester, and methacrylic resins/Patriot SSB System, 111:12
Mahogany Company: pre-cut fiberglass kits, 10:52, 35:58
mahogany runabouts: 62:12
Maillian, Jeffrey: on economic impact of large yachts, 112:4
Maine: banning of jet skis, 59:10; boatbuilder profiles/Mount Desert Island, 57:110; boatbuilding heritage, 81:168; environmental protection/regulations/emissions reduction, 27:8, 31:42; licensure/engineer, 56:53; lobsterboat hulls, 45:76; marinas/bungee-mooring system, 53:64; temperature-controlled molding (TCM)/thermally adjustable tooling, 125:54; waste management manual, 27:8; workers' comp premiums, 23:13
Maine Advanced Technology Center, 115:14; and Temple Allen Industries' easily manipulated mechanical arm (EMMA), 118:16
Maine Boatbuilders Show. See Portland Yacht Services.
Maine Employers' Mutual Insurance Company (MEMIC): 92:36
Maine Maritime Academy: Marine Engine Testing and Emissions Laboratory/emissions testing/fuel-related products, 161:8; vocational training program, 20:26, 22:51
Maine Maritime Museum Apprenticeship: vocational program in restoration, 21:12
Maine Yacht Center: distributor for Akilaria (Class 40), 155:58; refit and repair work on Class 40s/Open 60s, 155:58
maintenance: cigar box genio/boat maintenance check, 154:80; systems/owners’ manuals, 27:46
Maiorana, Tony: jetsprint boats/JetCo, 57:15
Makita: disc grinder, 15:44, 27:70
Mako Marine International: boat shows/marketing, 36:60, 36:64; obit for founder Robert Schwebke, 158:8
Malaz, Omer: on shipyard conditions in Turkey, 104:4
Malcolm Baldridge National Quality Award: quality management, 19:72
Maldives: tsunami destruction of workboats, 107:14
Malingri, Doi: flying inflatable boat (FIB) developer, 59:10
Mamba Marine: Mamba 350 sportfish powercat/Hysucat hydrofoils, 124:12
management. See boatyards/marinas, management; production boatbuilding, management
manatee: protection efforts, 4:18, 5:7
Manchester Marine: fire/property insurance, 7:28
MAN Engines (Nuremberg): first direct-injection, diesel-powered truck, 157:26; world's first diesel engine, 157:26; profile, 157:26; research and development,
157:26; state-of-the-art education/MAN Engine Academy, 157:26
Mangia Onda: M-shaped hull/40’ sportfisherman, 80:12
maneuverability: bow instability/tuning twin-rudder installation, 45:96; tank-testing, 42:39; testing/certification, 27:3
Mannerberg, Jussi, author: “Practical Impact-Exposure Testing,” 142:52
Mannerfelt, Ocke: designer/B-28 runabout, 57:15
man-overboard module: MOM8 kit, 69:92
man-overboard retrieval system; on Puget Sound pilot boat, 67:98
Mantex composite sheets: for flat-panel construction, 64:11
Manufacturing Corporation: Master Mark Boat Heater, 6:52
Marada Powerboats: B-28 runabout, 57:15
Marcali Yacht Brokerage & Consulting: custom hiding places for valuables/furniture/shelving, 150:10
Marchant, Anthony: on hybrid use of Kevlar, 58:6
Marchem Corporation: MistaMixer PFG air-purge foam gun, 11:52
MARCO Shipyard Seattle: steel boats for San Francisco Bar Pilots, 70:21
Marean, Parker III: obituary, 52:4; on T-boat rules/conversions, 36:22, 36:32
Marek, Bruce: and builder Jim Betts, 129:40; on exemption for yacht designers on Florida law, 471.003 “Qualification for practice exemptions,” 100:4; Ranger and Patriot aluminum catamaran ferries, 106:22
Marelon: for sea valve, 33:75
MAREX, New Zealand Boatbuilders Association, 83:50
Marhevko, Thomas: on National Marine Manufacturers Association’s (NMMA) use of ABYC standards for their Boat & Yacht certification program, 94:4
Mariah Boats: use of PT industrial plywood, 27:42, 40:54
Maricomp: engineering analysis/canting ballast keel, 47:17
Marie, J.J.: on Zodiac Group’s CAD/CAM and welding technology, 67:5
Marietta Corp.: CO2-blown polyisocyanurate foam, 24:62
MARIN (Marine Research Institute Netherlands): model testing facility, 49:42; 93:30, 107:82, 121:50
marinas. See boatyards/marinas, management
Marinco: easily-engaged lock (EEL) shore-power cord, 138:6; 150BBI Inlet battery charger, 33:75; SaltWater wire, 23:54
marine accessories. See ancillary equipment/accessories
Marine Air: HFC-134a/R-22 refrigeration systems, 26:8
Marine Concepts, Inc.: builder profile/FRP boat shoe, 46:10, 114:94; computer-aided design (CAD) and plug-cutting capacities, 151:68; customer support, 151:68; holding company/JRL Ventures, 151:68; Sea Pearl 28/free-standing rigs, 55:46; Porsche speedboat, 114:94, 116:4; and Jack Riggleman, 128:8
Marine Corporation of America: Star Powr diesel, 9:56
Marine Design Resource Alliance: Concept Boat Program, 74:9; grade-school design contest, 64:11, 74:9; tracking consumer trends, 51:11
Marine Education and Training Center (METC): boatbuilding vocational training program, 46:10
Marine Equipment Trade Show (METS): European trade exhibition, 55:3
Marineering Inc.: performance evaluation, 56:26,56:38
Marine Industrial Fiberglass: 53’ target craft, 3:11
Marine Industries Association of South Florida (MIASF): address, 4:20; efforts/membership, 4:9, 4:18
marine-industry directory: online/YachtWorld’s Boating Yellow Pages, 44:49; PILOT program, 49:96, 60:136
marine law enforcement: variances from state to state, 71:27. See also International Association of Marine Investigators
Marine Muffler Corp.: Dapars muffler, 15:70
Marine PILOT Catalog Series. See PILOT (Product & Information LOCator Tools)
Marine Power, Inc.: EFI (electronic fuel injection) training programs, 27:61; gas inboard engines, 17:44; marinated aircraft engine, 3:60; 6.5-liter diesels, 22:56; Turbodrive jet drive, 8:54
marine repair: Boatest CD rom/repair estimate software, 81:10
marine repair training: in United States, 79:77; Quadrant Marine Institute (Sidney BC), 79:77
Marine Services. See Fleury, Paul
Marine Survey Bureau: non-destructive testing (NDT) on carbon fiber sailing yacht, 133:104
Marine Technologies: custom tilt trailers, 135:58
Marinetech, Inc.: 64:11
Marine Technologies Corporation: overcurrent protection supplier, 38:8
marine toilets. See toilets, marine
marine trade associations: addresses, 4:20; programs/efforts/membership, 4:9, 36:78
Marine Theft Bureau: database and networking for, 71:27. See also International Association of Marine Investigators
Marine Travelift, Inc.: largest mobile boat hoist, 68:11
Marine Vibrations: vibration monitoring equipment, 74:85; designer’s perspective/Dave Gerr, 74:89
Mariner F65 forklift, 19:59; profile/development of Travelift, 57:133. See also boat lifts/hoists
Marinescu, Horia: on ground faults, 98:4
Marino, John: response on EcoPoxy’s claim as non-toxic, 124:6
Marisol skiff: day cruiser design/Gifford Jackson, 105:120
Maritime and Coast Guard Agency (MCA), U.K.: fire protection standards, 62:78
Maritime Applied Physics Corp.: HYSWAS (hybrid hydrofoil), 49:42
Maritime Outfitters: 28’ workboat, 4:30
Maritime Wood Products Corp.: Speed Strip strip-planking system, 46:65
markers: Marine PrepPen, 33:75; Nissen ballpoint writing tubes, 8:54
market, boating. See specific boat markets marketing tools: CAD 3-D modeling, 24:62, 40:48, 57:15; CAD photorealistic
market research: for catalog development, 4:50; customer database, 26:64; International Women in Boating (IWB), 23:54, 24:58, 28:54; in market downturn, 7:72, 12:4; for marine systems technician work/training, 57:98; for production boats (designing for production), 3:27; trends, 3:16, 7:17, 12:4. See also specific boat markets
Mark’s Standard Handbook for Mechanical Engineers: engineering handbook, 72:22
Marlow, Dave: on EC (EU) certification process, 41:38, 41:41
Maroussis, Anthony: designer/Navtech, 59:71
Marples, John: Design Challenge, 133:40; DC-3 Trimaran, 133:40; on Praise for Big Props and engine instrumentation upgrade for over-safe engine/prop combinations, 151:6
Marples, John, author: “High Fiber,” 154:48
MARS Craft: See also Mayflower autonomous Research Ship.
MarsKeel Group: draft reduction service, 156:70; structural and design services, 156:70
MarsKeel Technology: cast-lead keels, 156:70
Mars Metal Company: integral cast bulb keel, 156:70; lead brick and lead sheet products, 156:70; L-Keel/bulbous fin keel,
54:18, 96:72; largest keel produced, 156:70; profile of, 156:70: MarShield Specialty Casting division, 156:70
Marshall, Andrew: Composites Basics, 22:20; on core materials/composites, 40:62
Marshall Marine (Padanaram, MA): repairs and refits, 75:112
Marshall, Ted: on simple test for grounding circuits, 102:4
MarTech: Nomex Decore interiors/techniques, 51:114; off-axis composites testing procedure, 36:4
Marten Marine: closing of boatyard, 97:10; profile/New Zealand one-off construction, 55:58, 55:61
Marten Spars Ltd: Icon cruising boat (Bob Perry design), 97:28; operations continuance, 97:10
Marten’s Vineyard Shipyard: hurricane damage/planning/insurance, 27:18; Martha’s Vineyard Shipyard: wastewater containment system, 31:10
Martin, Chris, author: “Optimizing the Design,” 89:85
Martin, Dave (designer): cockpit motoryacht (CMY) design, 103:160; and Egg Harbor Yachts, 102:86, 134:6; Efficient Boat Designs DVD, 134:6; profile of, 103:160; sportfishermen design, 103:160
Martin, David P.: on designing for production, 2:60; on Praise for Big Props and using motor more efficiently, 158:4
Martin, David P., author: “Believe It or Not,” 29:72
Martin, J.B., Co./Texitek: X-weave patching material, 36:34
Martin, Jim: bagged-laminate infusion molding/Lincoln canoe, 32:28
Martin Pultrusion Group, 122:12
Martin Tooling & Laminates: Paddle Lite infusion process, 32:18
Marukyo U.S.A. Inc.: plastic fastenings, 9:57
MAS Epoxies: Cell-O-Fill silica substitute, 115:18; Flexbond 5000, one component hybrid polymer, 115:18; Gluzilla polyurethan adhesive, 115:18
Masciarotte, Mark T.: on custom boat line, 2:4
Mashantucket Pequot Tribal Nation/Pequot River Shipworks/fast ferries, 57:15
masking film/paper: for prepping aluminum hulls, 37:36; Hand-Masker, 31:10. See also tape, masking masks. See dust mask; respirators
Mason, Andrew: on NC lofting/cutting, 25:4

Professional BoatBuilder INDEX • 184
Mason, Andrew, author: “Loftsman’s Liability,” 38:14
Masonite: for one-off tooling, 10:42
Massachusetts Institute of Technology:
Haffenreffer-Herreshoff Collection, 54:82, 54:92
MasterCraft Boat Company: acetone reduction/replacement, 33:20, 33:26;
videos production/marketing applications, 16:22, 22:42
Master Power, Inc.: Hawg compressed-air vacs, 16:52
MasterVolt: cell-balanced lithium-ion battery, 119:6; DriveMaster Ultra, 7.5 kW electric motor, 127:30; parallel hybrid system, 127:30; pod drive auxiliary power for Watch Hill 15 daysailer/Artisan Boatworks, 137:6; 2.5-kw Master Drive System for catboat, 137:6
mast. See sealant
mast pod: cabintop-mounted/flat-panel engineering, 45:62
mat, roll. See fiberglass mat/chop
material safety data sheets (MSDS): CD-ROM access system, 23:54. See also worker safety/occupational health
Materials Sciences Corporation: finite element analysis (FEA) software, 148:26; heavy-duty specialized testing rigs, 148:26; laminate calculations for large-deflection-type boat panels, 146:24; programs with Seemann Composites, 146:24; structural designer for Advanced Composite Riverine Craft, 146:24
Matheson-Kitagawa: Toxic Gas Sampler, 7:64
Matthew Turner, brigantine: traditional construction of using near zero environmental impact, 157:14
Matlack, Mike: on accessories/hardware (Rybovich), 14:26, 14:32
Matrix Applied Computing: industrial finite element analyses, 78:26; Nastran FEA software, 78:26
Matrix Masts: profile/New Zealand sparmaker, 55:58
Matthews, Steve: sportfisherman powerboats/hull alterations, 144:36; training and early professional experience, 145:4
Mattson Spray Equipment: Atom-miser ColorCan 2+, 9:56
Matzat, Gregory: designer/Sparkman & Stephens, 59:44
Maverick Boat Co., Inc.: acetone reduction/replacement, 33:20; flats-boat market, 29:3, 30:4; team-building, 24:58; vs. American Holdings and Blazer Boats/splashing, 138:64
Maxco Industries: galley cookstove, 1:68 maxi-boats. See sailboats, offshore racing/performance
Max Power (France): MFC 100 fuel cell for sailboats, 98:12
Maxwell, Joan (author): “A Penny Gained,” 63:29
Maxwell, Owen and Joan: Regulator Marine plant/layout, 17:34, 19:8
Mayher, Bill, author: “Large-Scale Cold-Molding: Building the Boat,” 51:52
Maylotte, Don H.: on flammability of resin systems used in boats, 85:4

Mazza, Robert: on Core-Cell, 51:6; on core materials/tered bottoms, 53:4, 56:6; on Fairey Marine and hot-molded sailboat production, 150:4; on linear vs. cross-linked foam cores, 56:5; on Passage Maker and Alan Gurney design Nepenthe, 152:4; on plywood vs. fiberglass stringers, 42:5; on wet balsa core, 99:4
Mayflower Autonomous Research Ship (MARS), 158:8
MBX Metal Blaster: metal components cleaner, 85:10
McAfee, Roger, author: “Around and Around Vancouver,” 156”16; “Driven!”, 143:52
McAllister, Charles: on results of lack of attention to design manufacturing, installation, and maintenance, 139:5
McBeath, Gary Morris: on lobster yachts and other boat term misnomers, 111:4
McCall, Rusty: on boat engine testing, 87:4; on testing outboards fairly, 83:4
McCartney, Kim I.: on navigating a Sea of Standards and the National Fire Protection Association 302 committee, 155:4
McClaskey, Charlie: Rule 1162 development, 26:34
McClendon, Zach: SeaArk Marine/Boats/profile, 42:16
McClintock, Scott, author: “Rio Hondo 40S,” 112:22
McCormick, J.J., Company: M Liner custom industrial plywood, 28:8
McCoy, Jack: hybrid diesel electric charter boat, 118:40
McCrory, James: on the other stray current, 108:4
McCrory, James, author: “Not All Hull-to-Deck Joints Are Created Equal,” 33:19
McDell Marine Ltd.: recyclable boats, 54:43
McDermott, Joseph S.: on beginnings of fiberglass industry, 39:4; on EPA jargon, 54:5
McDevitt, John: on smoke alarms and NMMA and ABYC’s lack of collaborative interest for, 91:10; “Smoke Alarm Update,” 101:12
McDonald, Ron: on RTA/CAD/NCC/cabinetry, 40:24
McDonnell-Douglas: lofting/parts generation software, 7:18
McDougal, Dan H.: on specificity of heat from various liquid substances for marine refrigeration, 92:4
McFaden, Jeff: on Bayliner Buccaneer sailboat/Slim Sommerville, 119:4
McGowan, Barby: on professional public relations, 4:5
McIvor, Shelley, author: “Developing a Strong Boatbuilding Community,” 162:12
McKeough, Don: on polypropylene water tanks, 20:56
McKesson, Chris: on hybrid marine power, 108:4; on professional engineer (P.E.) licensure, 72:112
McKnight, John: on CFA/NMMA styrene emissions testing/exposure limits, 41:5, 41:58, 42:5
McLean, Rick: on blister prevention, 4:5; on catalyst dispersal, 2:4; on wet strength of composites, 6:5
McMaster Carr Supply: Adhesive-Backed Paper Tape Rule, 42:74
McMullen & wing: profile/New Zealand builder, 55:58
McNalley, Tom: transatlantic voyage in 3’11” boat, 53:12
McNally, Steve: on Clean Air Act/Amendments/allowable pollution/styrene emissions, 40:17
McNeel, Robert, & Associates: Accurender CAD raytracing software/photorealistic rendering, 40:48; Rhino software/3-D renderings, 57:15
McNeill, Doug: on custom industrial plywood/structure, 42:5
McTavish, Bob: Pro Circuit surfboard replicas, 28:54
McTighe Industries, Inc.: wastewater collection system, 6:8
Meadowlark, L.F. Herreshoff design: composite boats with foam ribs, 91:178
Mearl Corp.: Mearlin Bright White Pearlescent Pigment, 20:56
measurement rules. See International Measurement System (IMS); International Offshore Rule (IOR);
tonnage/admeasurement laws
measurement systems: international units of, 55:5; metric system, 29:4, 29:51
Medalist M&S: MS60 Douglas-fir decking panels, 18:54
Medeiros, Al. See Medeiros Boatworks
megayachts: advanced components for/Rhebergen, 96:36; aluminum/Palmer Johnson, 53:28; aluminum/Royal Huisman, 45:47; aluminum-fiberglass hybrids, 17:19; boat show/Suppyacht Northwest, 26:44, 34:55; cash flow/reorganization of builder, 59:10; cored fiberglass, 2:42, 3:5, 3:11, 32:18, 32:21; design justifications/concerns, 16:64, 17:4; finish standards, 40:24; Freedom/4,320' 30-story international community, 51:11; Hargrave designs, 43:36; interior design mock-ups, 9:28, 9:34, 10:4, 45:47; inventory/purchasing/workforce for, 32:18; market for, 12:50; masts for, 47:44; model testing, 56:26; refit/Rybovich Spencer, 51:11; resin-infusion/SCRIMP applications, 44:30; structural fire protection requirements for, 62:78; tooling for, 32:18, 47:34. See also custom/semi-cutout/one-off construction
MEK (methyl ethyl ketone): MACT standards, 34:40; solvent wipes/secondary bonding, 20:32
Mele, Andre (Andy): on interior design (Elco), 6:34, 6:39; on noise pollution/jet skis, 43:75; Polluting for Pleasure, 19:8, 43:17, 43:75
Mele, Andre (Andy), author: “It’s Time to Look Beyond the Obvious,” 15:70
Melillo, David: FIB flying boat, 59:10
Melvin, Pete: on carbon-aluminum core galvanic interaction/PlayStation, 59:5; on composite flat-panel construction/core materials, 45:54; profile, 72:90. See also Morelli & Melvin Design and Engineering memory modules: MacSema, 57:88
Menorquin Yachts (Spain): MY 160 cruiser, 106:10
Mercer: aging fiberglass boats (laminates), 4:64
merchants’ contracts: components and ancillary equipment/warranties, 41:15
Mercier, Larry: on integrating/implementing CAL/NCC, 38:38
Mercury Marine: Cummins MerCruiser, 111:42; OptiMax, 111:42; SmartCraft, 97:148, 98:50; tracking of stolen outdrive units, 71:27; Verado four-stroke engine, 111:42
Mercury Marine High Performance: galvanic isolators, 41:21, 41:25; supercharged gas inboards, 17:44
Mercury Motors: Mark 55 4-cylinder Thunderbolt, 92:68; vintage motors/Lincoln Davis, 92:68
Mercury Vacuum Presses: vacuum-bag system, 13:48; vacuum systems (boatshop dust); vinyl vacuum bags, 15:70
Mereth Oy: aluminum-fiberglass hybrids, 19:4
mergers/buyouts: in market downturn, 9:13, 29:8; of OEM suppliers, 1:5; Rybovich merger, 14:26; selling to venture capitalists/Munson Manufacturing, 58:66; of Southern California builders, 25:8. See also production boatbuilding, business of Merlin, Santa Cruz 70 and Transpac Race, 1977, 161:8
Merriam, Robert W.: on DC wiring, 23:4
Merrifield, John: on computer lofting, 24:26, obit 99:120
Merrifield-Roberts Inc.: fabric impregnator applications, 5:34; 52' sloop, 1:20; post-curing epoxy, 14:45, 14:55; resin-transfer molding (RTM), 27:39
Merrill-Stevens Dry Dock: megayacht market/repairs, 12:50
Merritt, Roy: on cored bottoms
Merritt’s Boat and Engine Works: adherence to laminate quality, 149:56; cored bottoms, 51:22; 62:3; profile 62:62
metacentric height: small-craft stability, 54:98
metal boats, damage assessment/surveying techniques: non-destructive surveying/ultrasonic, 35:42; Flevo Jachtbouw/deck first construction, 132:18
Metal Boat Society, The:
  membership/activities, 18:4, 35:52, 43:17
metal buildings, pre-engineered: coatings for, 26:18; design/construction/sources, 26:18
metal cleaner: MBX Metal Blaster, 85:10; SuperClean, 38:55
Metal Corrosion in Boats (Nigel Warren, author): Paul Coble surveying tip, 88:46
Metal oxide field effect transistors (MOSFETS), 99:82. See also MOSFETS
Willard Marine hybrid RIB for U.S. Navy, 67:13
Metal mast Marine: spar technology, 3:42
metal polish: Marine Polishing Paste, 20:56
metals, bonding: to FRP/structural adhesive, 41:44; to metal/structural adhesive, 41:44, 69:5; to plastic/structural adhesive, 41:44
metal sealer: for tools/Top Cote, 24:62
metalworking: in-house composite skills/De Vries Scheepsbouw, 132:24; setting up in-house machine shop, 48:56
Metan Marine: remanufacturing Sea Craft boats, 102:14; restoration on old SeaCrafts and Boston Whalers, 132:6
METCO: bus bars, 36:44, 38:51
methacrylate adhesives: description/applications, 41:44; for mounting plates, 145:48; glued together catamaran/camper hybrid/Footprint Boats, 137:12; pull-testing, 100:80; structural adhesives/Plexus, 26:56, 27:70, 29:8, 42:5, 52:81, 60:11, 60:104, 75:58, 102:14
metric system: English-metric conversions, 90:112, 102:4, 103:6; catalyst measuring system, 29:51; international market/owners’ manuals, 29:4
METS USA: 68:11; 120:38; 124:3
METYX Composites: opening of new tooling center, 135:6
Miami Boat Show: ConnectFest/navigational electronics, 97:148
Michael Peters, (designer and boatbuilder): 66:3, 66:52
Michael Peters Yacht Design: Hy-Lite Powerboat Green Wing II, 66:11; profile, 66:52; modified-V/Deep-V/Stepped-V hullforms/weight studies, 126:38; Magnum 80, 126:38; performance catamaran/Outerlimits Offshore Powerboats, 133:60
Michalczuk, Paul: on sizing electrical cables, 37:4
Michaud, Jay: on technique of dye penetrant testing, 113:4
Michel, John: on vacuum-bagging, 30:22
Michigan: boating-safety law/boat noise, 43:75
MICHLET computer program: viscous drag analysis, 74:54
Micro Commander: engine control system, 1:68
Micron Corporation: capacitor starting system/Micron PowerPak, 153:8
Microsoft: Excel spreadsheet software/weight estimating, 42:26; Windows Access 95/relational database/tracking labor and parts, 50:59
microspheres/microballoons: in antifouling copper coating, 8:4;
applications/performance, 60:27; delivery/fairing system (Extender), 27:70; Dualite filler, 11:52; in laminate bulkers/print blockers, 7:50; storage, 15:13; thermoplastic/Spherecore SBC core material, 39:98. See also BaltekMat; epoxy syntactic tooling foam/slurries; resin thixotropes
Microstation modeler: modeling software program, 66:90
Micro-Surface Finishing Products Inc.: Micro-Gloss, 12:60; Micro-Mesh, 12:60
Mid-Coast School of Technology: vocational training program, 22:51
Middle East and recreational boat facility start-up: Tampa Yacht Manufacturing, 161:20; redesign of Tempest 35 abd 60/Robert Kaidy, 161:20
Middleton, John: Hinckley Co./SCRIMP, 31:42
Midget Ocean Racing Club (MORC); Wolverine racer/Alan P. Gurney design, 151:40
Mid-Jet Manufacturing, Inc.: profile/welded aluminum construction/Sea Master line, 21:26, 40:36; transition/commercial boats to yachts, 40:36
Midwest General Corporation: Clear-Stick adhesive, 20:56
Mighty DataDot: alphanumeric identification code, 71:6
Mighty Midget: benchtop forming/bending machine, 67:13
Migeotte, Gunther, author: “Hydrofoil-Supported Catamarans,” 157:68
Midget Ocean Racing (MORC): rating system for small boats, 154:36; and Alan Andrews, yacht designer, 154:36
Migueis, Ronaldo Fazanelli: Niteroi wave-piercing powerboat/Design Challenge, 122:24
mildew: shrink-wrapping caveats, 18:28
Miler, Phillip: on volksboat, 18:4
mil gauges: for gelcoat application, 11:42
military standards for composite structures: 63:38
Millennium Round the World Race: Farr/Colvic one-design, 59:10
Miller Electric Manufacturing Co. (Wisconsin): CoolBand and CoolBelt for welding helmet, 126:8; Invision 352 MPa Plus MIG Runner Dual Wire Feeder system, 126:8; Millermatic 350 P System, 118:8
Miller, Herman: Aeron ergonomic chair, 34:31, 34:32
Miller, Paul H.: Leadership 44 trainers/Infusion specifications, 133:114; on professional engineer licensure, 86:4, 100:4; and SailBots/U.S. Naval Academy/World Robotic Sailing Championship, 126:8; on structural design and bottom slamming on high-speed powerboats, 70:5
Miller, Raymond L., Jr.: on vacuum-bagging, 46:5
Miller, Capt. Richards T.: on Vamarie mizzenmast prop, 70:5
milling machine: Bridgeport, 48:56; buying used, 48:56; computer-controlled, 66:90; Ferretti Group five-axis machine, 100:4; Five-axis MR Gantry Milling System/PaR Systems, 116:10; Five-axis milling machine/mouldCAM tooling shop, 145:78; in-house machine shop, 48:56; Janseneering/five-axis milling machine, 90:13, 84
Mills, Mark: *Quokka IV*, 52:30; *King 40*, 123:10; *60M luxury sailing yacht* /collaboration with Donald L. Blount, 123:10; *Summit 35*, 123:10
Milne, Alex, Associates Ltd.: Zebra biodegradable products, 8:35
Milne, Kevin: integrally cast bulb (ICB) technology, 96:72; Mars Metal/L-Keel, 54:18
Milner, Craig, author: “Second Generation,” 116:60; “Systems Ed,” 120:34
Milwaukee Electric Tool Corp.: drill, 23:20
Mincher, Rod: on Fairey Marine and famous hot-molding processes/Hydrolite and Duramold, 151:6; *Spruce Goose* wood airplane/Howard Hughes, 151:6
minimalist cruising sailboat, 156:12
Miner, Jay N., author: “Controlling Weight in Large FRP Yachts,” 64:52
Miner, Jay: on Bill Tripp designed boats, 107:4; on Delta Marine/transition to yachts, 40:24, 94:32; obituary for naval architect John J. Schubert, 65:5
Minesweepers: Bill Luders, Philip Rhodes, and Sparkman & Stephens, 88:46
Mini-Craft of Florida, Inc.: reverse-label maker/affixing HINs, 60:5
Mini 6.50, advanced composite singlehanded ocean racer, 109:40
Minnnesota Yacht Repair: gelcoat maintenance/restoration, 15:44
Mirage Marine: methacrylate adhesives, 26:56
MirroCraft: Ultra Pro AL aluminum-fiberglass fishing boats, 17:31
mirrors: in interiors, 6:39
Miser, Scott A.: on subcontractors in boatyard, 54:5
Miss America VII Garwood design speedboat replica, 81:72
Miss Austria (schooner-yacht): refit at Rybovich Spencer, 69:13
Miss Delson: dayboat cruiser with composite membrane panels/bottom, 150:22
Mission Marine: aluminum workboats, 100:4
Missouri: boating-safety law/boat noise, 43:75
Mister Blister: diamond abrasives, 12:60; micro-cracking study, 22:51
Misunas, Gvidas: on resistance speed graphs on Series 62 hulls, 130:6
Mitchell, Chris: on Ericson bilge pump/flow rates, 60:5
Mitchell, Robert, photographer: “New Yard, Old Site,” 70:58
MITEC (Marine Industry Training and Educational Council): career awareness/cataloguing of training programs, 116:112;
mixer-dispenser: Variable-Ratio Mini Machine, 15:70. See also catalyst, mixing/metering
MIXPAC Equipment: DX Series dispensing system, 100:4
MkIII FirstStar, anchor light, 87:95
MK V SOC (Mark-Five Special Operations Craft): Carderock Combatant Craft Department, 52:42
MMC: engine control system, 1:68
MNK Enterprises, Inc.: MNK Honeycomb Process, 32:52; sailboards/honeycomb cores, 24:4; Tricel paper honeycombs, 32:52
model basins/tank-testing facilities and programs, Australia: Australian Maritime College, 54:44
model basins/tank-testing facilities and programs, Europe: FB Design's High-Speed Research Facility (Italy), 93:10; Maritime Research Institute of the Netherlands (MARIN), 49:42, 58:26; Wolfson Unit/University of Southampton (England), 58:26
model testing: consistent conditions and large geographic area, 140:34; combined with computational fluid dynamics (CFD), 60:66; vs. computer analysis/performance prediction, 55:32, 58:26; custombuilt data logger for, 160:66; vs. design analysis, 49:8; Dynaplane design, 97:164, 160:66; fresh vs. salt water, 59:56; vs. full-scale testing (sea trials)/limitations of laminar and turbulent flow, 58:6, 58:26, 68:32; model construction/size/cost, 55:32, 56:26, 58:6, 60:66; Moloka'i Strait MS75 Hercules, 114:20; outdoor test method vs. indoor test tank facilities, 78:22; for

molder/planer: portable (Williams & Hussey W-7), 12:60

molding: power sander for, 42:74


Molinaro, Ralph: on the Necessity of Straight and providing fixed points/shaft alignment using masonry string, 161:3

Mollica, Jason: on CNC tooling/Mollicam, 67:5

Mollica, Jason and Jeremy: Mollicam's CNC machining, 63:5

Mollica, Jeremy: on CNC tooling/Mollicam, 67:5; foam models/Mollicam, 55:32

Mollicam: CNC machining, 67:5; robotic tooling equipment/foam models, 55:32

Moloka'i Strait: long-range motoryachts/Eric Sponberg designs, 114:20; MS75 Hercules/bulbous bow/model testing, 114:20

Moltschaniwskyj, Andre, author: “Planet Solar,” 124:22; 139:18

molybdenum disulfide grease: CV joints, 120:42

Momany, Ned: grillage structure, 48:4

Monarch Manufacturing: industrial-grade embossing system for hull identification numbers, 63:5

MonArk. See SeaArk Marine/SeaArk Boats

Monaro planing hull model; get-home power system, 140:4

Monel (nickel/copper alloy): and galvanic corrosion, 32:39, 33:28, 84:82; stopnuts/stainless steel keel fasteners, 38:20

Monfort, Platt. on boat shelters/condensation, 36:4; Clamp-It, 15:70

Monk, Dan: computer design, 57:15, 87:46

Monk, Ed, Jr.: profile, 57:15; on tooling/hull stretching techniques, 2:42; and Nordlund Motoryachts, 87:46; Ocean Alexander-style motoryacht, 64:96; sportfisherman, Kona Concept, 61:52; and Westport Shipyard, 62:27

Monk, Russ: on specialty plywood panels, 16:12

monocoque grid system, 133:60

Monroe, Robert H. (Rob): on composite wing spars, 14:8; on epoxy-gluing PT industrial
plywood, 27:42; on hardware bonding, 15:21; on vacuum-bagging, 1:58
Monsanto Chemical Co.: Centrex plastic/cracking, 34:59; Centrex theroplastic resin, 14:57
Montana Boatbuilders: drift boats, 91:20
Montgomery, Gene: on LP hazards/safety gear, 20:8
Montreal Protocol: phaseout of CFCs (R-12 refrigerant), 16:35, 17:4, 18:4, 26:8
moorage: fees, 24:4
Moore, Charles W., author: “Consciousness Raising,” 36:88
Moore, Joe: on advanced composites in the Adirondacks, 99:4. See also Wilson, Charlie
Moore, Lewis: aluminum-fiberglass Aluminewman, 17:19
Moor, Mike: on owning component failure/possible resolution for warranty ills, 142:4
Moore, Ron: and Ballenger Spar Systems, 94:8; Grindel ultralight, 129:40; Moore 24 sloops, 93:10
Moores, Jim: profile of, 109:60; Trumpy boats, 109:5, 60; 142:18
Moore’s Marine: Trumpy boats, 109:5, 60: 142:18; blocking procedures/travelift use, 142:18; whiteboard for tracking labor, 146:18
moorings: anchor design/performance (hurricanes), 30:8, 31:4, 38:4, 64:36; cable/chain/scope/rode/lines, 30:8, 53:64, 64:36; concrete, 31:4; pennant, 30:8; marina/bungee-mooring system, 53:64. See also anchors, mooring
Moose Boats: aluminum power catamarans, 79:10; fire/rescue boat, 121:78; port security vessel, 121:78
Morabito, Margaret and Michael: retro 1900 outboard motorboat/ Design Challenge, 122:24
Morabito, Michael: response on Savitsky’s lift-equation for prismatic deadrise hulls, 147:6; stepped planing hulls/Daniel Savitsky, 126:64; 128:3
Morabito, Michael, author: “Applying Savitsky,” 145:30
Moran, Wally, author: “A Plea for A Nautical Model T,” 135:72
MORC. See Midget Ocean Racing Club.
Moreland, Daniel D.: passenger-carrying sailing barque, 52:12
Morelli, Gino: on commercial market/power catamarans, 45:120. See also Morelli & Melvin Design and Engineering
Morgan, Charles E., Jr.: and start-up of Morgan Yachts, 135:14; Out Island series boats, 135:14
Morgan, Peter J.: on international units of measurement (SI units), 55:5; on “Peters On(Fast)Powerboats,” Parts 1 and 2/Reyes speed formula/Crouch’s formula, 127:6; on running lines of the winner of the Design Challenge, 122:6; on ventilated stepped hull, 88:4; on working with epoxy in wooden boat construction in New Zealand, 73:5
Morganroth, Peter: on cockpit drainage and boat stability, 114:4
Morris, Jackie L.: on the Trumpy Specialists and Destriero, 113:4
Morris, Tom: profile/Morris Yachts, 57:110; 116:60
Morris Yachts: acetone reduction/replacement, 33:20; core kits M-Series daysailers, 116:60; Ocean Series IMF and PHRF racing yacht, 116:60; profile/Reindeer V, 57:110; Chuck Paine/flush-deck double-ender sailboat, 92:30; SmartPac box kits/Leadership 44 trainers/U.S. Coast Guard Academy, 133:114; yard safety profile, 92:30
Morse Overland Marine: custom-built hydraulic trailers, 135:58. See also Myco Trailers, American Trailer, Marine Technologies.
Mota, Oscar: on Malo 46 cruising sailboat characteristics and tests, 110:4
Morton, Steve: on HVLP spray equipment, 29:8
Mosher, Bill: on Leisure Furl booms, 117:4
Mosher, Phil: on vinyl ester resins, 6:10
MOSFETS (metal oxide field effect transistors), 99:82.
Mostro: 62:12

Motion: analysis 61:82; control, 61:82; sickness, 61:82
MotoRing Technical Training Institute, 120:34
motors, DC: wiring considerations, 8:12
motoryachts. See powerboats, motoryachts
MotoTron, SmartCraft: networked communications system for electronic engine control, 106:42; Skyhook Electronic Anchor, 106:42
mouldCAM Tooling Shop: Commanche hull plug for Hodgdon Yachts, 153:20; profile of, 145:78; direct-to-mold no-male-mould plug, 145:78
Mouline, Jean-Pierre: CCP/Cray Valley, 50:11
mounting plates, 145:48
Moyer, Skip, author: “Have Training Program, Will Travel,” 69:184
MP 39 refrigerant: conversion to, 22:56, 26:8
MP 66 refrigerant: conversion to, 22:56, 26:8
MSDS. See material safety data sheets (MSDS)
M-shaped hull: Mangia Onda sportfisherman/Knight and Carver Yard, 80:12
M Ship Co.: M80 Stiletto hull design, 97:10; open-water testing (FLOWT) platform/Rapid Empirical Innovation (REI) program, 136:10;
MTU of North America: electronic engine management system, 14:34, 14:38; improved M94 Series 2000 engine/Yacht & Brokerage Show, 119:6
Mucklow, Glenn: on Challenger Marine/Crystaliners/Don Mucklow, 105:4
Mudie, Colin (designer): aluminum-hulled junk design for Hong Kong-based Youth Organization, 76:10
Mueller, Ron: videotape production, 16:33
Muenzinger, Paul: on drivetrain shaft failures due to fatigue, 76:4
Muffett, Jessica: YachtWorld’s Boating Yellow Pages, 44:49
mufflers/silencers: boat-noise control/bypass switches, 43:75; Dapars, 15:70; fiberglass Super ll Vernatone, 6:52; linear vs. in-line/engineroom layout, 37:26, 46:16; multiple exhaust stacks, 112:48; plastic Vetus, 46:5; Vetus lift-type, 49:16, 51:6. See also engine exhaust systems, dry; engine exhaust systems, wet; engine exhausts
Mulder, Frank, designer: E4 motoryacht/Elling Yachts, 158:54
Mull, Gary: on designing for production, 2:60; on racing measurement rules, 60:00; Allan H. Vaitseas/corrugated deck sample/Star Boat Fleet, 91:178
Mullen Advertising: marine advertising/marketing, 6:42
Multimarine Composites (UK): handicapped accessible power catamaran, 119:6
multimeters: Ancor Marine Prova CM-01, 50:73; brochure/testing for galvanic corrosion, 36:78; Fluke 23, 44:54; Fluke 867, 44:54
MultiStar. Tri-color anchor light fixture, 87:95
Multiple Chemical Sensitivities (MCS): chemical workplace allergies, 36:88, 38:6
Munoz, Javier: Internet/marine services, 41:58
Munson, William E. (Bill). See Munson Manufacturing/Munson, William E., Co.
Murden, Tori (solo transatlantic rower): 64:11, 161:56
Murman, Christopher: on combination of imperial and metric systems for Derek Kelsall’s speed formula, 133:8
Murnikov, Vladislaw (Vlad): Design Challenge, 129:18; maxi yacht Fazisi, 141:24; mx-Ray fiberglass skiff/mxNext Skiff, 141:24; SpeedDream, 1,000-mile-a-day sailboat with canting keel, 141:24
Murphy, Finnbar P.: on engine accessibility, 108
Murphy, Matthew P. (Matt), author: “Gimme Shelter: A Bow-Roof Shed,” 35:15
Murray & Associates, yacht designers: SOLAS compliant motoryachts, 70:21
Murray Corporation: Clamp Key, 150:72; Constant Tension Turbo Seal Clamps,
Murray, John: on megayacht market, 12:50
Murray Products: teak and mappo-burl table/cabinet, 74:9
Murray, Tim: on waterborne interior finishes, 24:58
Muskat, Herbert: Marco method, 26:44, 32:28, 38:30
Muskat, Dr. Irving: Laminac 4116 room-temperature-curing polyester resin, 103:191
Mussel Mast R filter system: for wakeboard boats to trap invasive species, 158:8
Mustoe, Lorin: on sprayable lightweight core/Euromere’s barrier coat products vs. Spraycore barrier coat products, 113:4
Myco Trailers: custom tilt trailers, 135:58
Mylar tape: for air-release ports/vacuum-bagging, 45:68; “flash breaker” tape, 73:79
Mykne, A., and Co.: survival of design/survey firm, 46:72
Mystic Powerboats: Dave Callan raceboats, 119:6; Aqua Mania G3, turbine-powered speedboat, 119:6
Mystic River Foundry: patternmaking/custom castings, 42:46
Mystic Shipyard: bottom prep/environmental compliance, 31:18

NAAQS (National Ambient Air Quality Standard): non-attainment provisions/ozone, 34:40
NAB (nickel-aluminum-bronze) alloy (C95500): for bulbous fin keel, 54:18
NACA (National Advisory Committee for Aeronautics), 126:64; studies for stepped hulls on flying boats, 85:76; XFOIL software program/X-1 Concept vessel/ Harbor Wing Technologies, 133:96
Nacira Design (France): mini 650 class boat/all carbon Soitec, 112:10
Nada, Malo 46 Classic: as test boat for propulsion-efficiency experiment, 124:54, 150:50
Naiad Explorer: Canadian whale-watching boat, 61:10, 135:4
Najid (Orust, Sweden), profile of, 82:58
NAMS. See National Association of Marine Surveyors (NAMS)
Nanni: marine engine niche market, 122:64
Naranjo, Ralph: on keel installation, 38:20
Nasman, Damon L.: on builder’s risk insurance, 12:4
Nastran FEA (finite element analysis) software, 78:26
Nasty-class fast patrol boat (PTF): 67:31
Natchez, David S., and Associates:
environmental waterfront design, 31:10
National Association of Marine Surveyors
(NAMS): avoidance of conflict of interest,
162:6; professional ethics, 24:72, 162:6;
professional qualifications/skills, 37:80,
162:6; survey report guidelines, 55:71
National Association of Passenger Vessel
Owners (NAPVO): address, 4:20;
efforts/membership, 4:9
National Council of Examiners for
Engineering and Surveying (NCEES):
engineering licensure/exam, 47:24;
engineering licensure/testing/Ship Design
Engineering, 56:53
National Electric Code: ground fault circuit
interrupter (GFCI), 94:84
National Energy Policy Act (NEPA): energy-
efficient lighting, 36:74
National Fire Protection Association (NFPA)
standards/compliance: exhaust systems,
43:44; fire protection/safety, 5:64, 36:48,
39:44, 44:18, 44:22, 44:25, 137:22, 155:4;
ground fault monitoring/marina safety
code, 104:30, 108:114; isolation vs.
polarization transformers, 108:114;
lightning protection, 43:64; position on
SmartPlug, 134:80; wiring, 8:12, 8:24,
37:4, 38:4, 38:55, 66:38. See also fires,
boat; fires, electrical, causes/prevention
National Insurance Crime Bureau: 71:27
National Marine Manufacturers Association
(NMMA): address, 4:20; “Bling My Boat”
contest, 110:12; boat noise
standards/compliance, 43:75; certification
program-European market, 4:9, 15:50,
16:4, 37:66, 41:38, 41:41, 43:17, 55:87,
154:56; efforts/membership, 4:9; family
boating market, 118:80; HINs (Hull
Identification Numbers), 35:52; MACT
survey, 34:3; resin surveillance program,
1:30; safety standards/liability/certification
program, 4:9, 15:50, 16:4, 36:48, 37:34,
37:66, 40:62, 158:3; sailboat
market/industry, 30:48; styrene-emission-
control assessment/testing/guidance,
32:48, 40:17, 41:5, 45:21; Water Watch
(environmental issues publication), 31:16;
women/boating market, 38:51, 40:62
National Oceanographic and Atmospheric
Administration and National Data Buoy
Center (NDBC), 61:82
National Paint Company: Zolatone, 21:26
National Renewable Energy Laboratory:
photovoltaic windows, 57:88
National Safe Boating Council: safe-boating
manual, 32:48
National Safety Council (NSC): worker-
safety training programs, 13:54
National Safety Transportation Board
(NTSB), 114:94
National Sailing Hall of Fame (NSHOF):
inductees, 158:8; Steve Colgate/offshore
sailing school, 158:8
Native Americans. See Mashantucket
Pequot Tribal Nation
Naugatuck Chemical: early polyester resin
supplier, 60:116
Nauset Marine: yard boats, 42:34
Nautec Corporation: Bertram Yacht, 39:70
Nautor’s Swann (Finland): pigmented
resins/SPRINT reinforcements, 79:114;
start up of Baltic Yachts, 85:46; Swan
sailboats, 84:52
Nautical Outfitters: CREWS stainless steel
raw-water strainer, 39:98
Nautical Ventures, Inc.: Reverso oil-change
pump/system, 40:66
Nautilus: hull design/fairing/lofting software, 7:18, 7:25, 9:5, 17:58, 24:26, 24:32
Navada Industries: Environmental Spray Gun Cleaner, 13:70
naval architect. See designer/naval architect/engineer, profession/responsibility
Naval DC: Czeer MK1 solar-powered launch, 161:48; solar-electric propulsion units for freight and passenger catamarans, 161:48
Naval Surface Warfare Center, Carderock Division. See Carderock Division, Naval Surface Warfare Center
Navatek Ltd: ARE S motion control system, 143:6
NavCad: propulsion-design software, 17:58, 26:54, 46:62, 87:53
navigation instruments/systems: access, 48:66; captive nuts/Southco, 41:62; integrated/Dataline, 6:52; lightning protection/impulse suppressors, 43:64; Tiny Coach, 103:14. See also instruments/instrument panel; navigation stations
navigation lights: and compliance with American Boat & Yacht Council (ABYC), 115:74; Dr. LED replacement for common marine halogen lights, 115:74; and Immana Laboratry independent test facility, 115:74; Lopolight LEDs, 115:74; Mantaqua (France) replacement LED bulbs, 99:20
Navilene Industries: ship interior designer/2D and 3D CNC machines, 158:8
Navtec: sling-wound PBO stays, 154:48
Navtech Inc.: design firm/computerized lofting/welded aluminum construction, 59:71
Newick, Richard C. (Dick): Cheers/Atlantic proa/OSTAR race, 122:40; dagger foils in floats, 63:86; experimental trimaran/crab-claw rig, 57:15; on hardware bonding, 15:21; induction to North American Designers Hall of Fame, 113:10; obit, 146:10; Ocean Surer, 40' solo racer, 122:40; Trine, trimaran, 122:40; VAL 3/trimarans, 122:40; virtual circumnavigation attempt, 54:18
Newman, Jarvis, Company: Aluminewman (customized aluminum-fiberglass lobsterboat), 17:19; Newman 46 fiberglass hulls, 97:82; 116:60
Newmar: Seaproof waterproof electrical panels/circuit breakers, 45:105
New Meadows Marina: shrink-wrapping (storage), 18:28
New Pig Corp.: leak/spill containment products, 21:60
Newport Adhesives: 1101 pre-preg resin system, 39:30
Newport News Shipbuilding: R&D/advanced composites, 58:36
Newport Shipyard: foam-planking/Core-Cell, 35:58
newsletters: boatyard information/environmental issues, 31:16, 35:25
Newton, John and Whit: American Marine Ltd./builder profile, 19:28
New Wave Systems: CAD systems, 7:18, 8:35; Nautilus design software, 7:18, 7:25, 9:5, 17:58, 24:26, 24:32
New York Police Department: Dauntless 35 patrol/rescue boat, 83:14
New York (state): boat-noise control/Motorless Otsego, 43:75
New Zealand: apprenticeship system, 20:18, 20:25, 54:52; boatbuilders/new construction in, 54:43, 54:44, 55:5, 55:58, 55:61, 71:70; High-Performance Yacht Design Conference, 98:12; jetsprint boats, 57:15; market for sportfishermen/power cats, 47:5. See also Awesome Yachts; Cookson Boats; Downs-Honey, Richard; High Modulus; Matrix Masts; Southern Spars; Tristram Boats
New Zealand Yachts Ltd.: 68:11
Nexus Marine Corporation: builder profile/marketing/production methods, 23:37, 23:41; 21' planing dory, 23:37, 23:41; 23' Chinook sportfisherman, 23:37
nF2 (Neither Fish Nor Fowl), hydrofoil-equipped trimaran, 75:14
Nguyen, Loc: Carderock composites R&D, 48:35
Nice, Susan: on interior design, 6:39
Niche markets. See markets, niche
Nichols, Archie: on integrating/implementing CAD/CAM, 38:38
Nichols Advanced Marine: model testing/performance analysis, 58:13
Nichols Brothers Boat Builders: CAD/CAM applications, 8:35, 38:38; 3-D CAD ZOLT system, 38:38
Nicholson Saw: Quik-Cut, 14:57
Nickum and Spaulding: design for mold, 62:26
Nicolon: Geolon 1250X/Geolon 600 polypropylene filter cloth, 9:50
Nicolson, Ian: Surveying Small Craft/review, 34:52
Nicolson, Ian, on regulations worries for boatbuilders, 106:4
Nicro Marine: Moonlight hatch, 30:60
Nieff, Mitch: profile/Sparkman & Stephens, 59:44
*Nigel Calder’s Cruising Handbook*: checklist chapter, excerpted from, 73:102
Nilfisk of America Inc.: VT-60A wet/dry shop vacuum, 25:59
Nimac America: inflatable sportboat, 1:20
*Nippon Challenge*: 61:52; race with Young America, 65:66
Nitto Kohki U.S.A., Inc.: hydraulic hole punch, 2:70; Super Hand 100 A tool, 10:52; Super Saw air-driven hacksaw, 25:59
Nixon, Dr. John: on flexi-resin use, 67:5
N-methyl-pyrrolidone (NMP): in resin cleaner/acetone replacement, 33:20; in water-based strippers, 33:69
NMMA. *See National Marine Manufacturers Association (NMMA)*
NMMA Publications: warning labels/decals, 21:12
NOAA. *See National Oceanographic and Atmospheric Administration (NOAA)*
Noise Cancellation Technologies (NCT): ProActive 1000 anti-noise headsets, 36:78
noise pollution: boat-noise standards/legislation/compliance, 43:75, 63:10
noise/vibration isolators: Aquadrive, 35:4; ISOLOSS HD, 34:59; Silent Running SR 1000 viscoelastic coating, 147:10
Nolan, Tim, Marine Design: accommodations design/wheelchair-
Noll, Rob: on boatyard customer service, 3:5
Nomex honeycomb. See aramid honeycomb; honeycomb cores
non-compete agreements, 143:80, 145:4
non-destructive inspection (NDI). See surveying techniques/tools/equipment, non-destructive
non-destructive technologies for inspecting carbon parts, 124:26
non-destructive testing (NDT): training and certification, 150:60. See surveying techniques/tools/equipment, non-destructive
nonskid covers: for workplace/walkways, 45:105
nonskid deck coatings/coverings: design/safety considerations, 42:88, 69:92; Ensolite foam decking, 91:172; Epifanes coating, 1:68; gelcoat/thickened/candy-stripe-rolled, 45:80; Gibco silicone covering/scarfed-seam repairs (waterlogged flotation foam), 37:48; linear polyurethane (LP) paint, 19:12; Sea Shocks polymeric decking, 91:172; TBS polyurethane deck covering, 8:54
Norcold: HFC-134a-compatible marine refrigeration, 16:35, 18:4
Norden, Greg: on ethanol and fiberglass tanks, 109:6
Nordhavn Yachts: adding applicable standards from the ABYC or International Organization for Stardization 10240, 159:22; fuel shut-off cables outside of engine room, 154:56; owner’s manuals, 159:23; passagemaker: simplicity vs. complexity of onboard systems, 137:34, 139:5. See also Cloud-based systems.
Nordic Boat Standard: for pleasure boats under 49', 81:128
Nordlund-Silvia Boat Company: profile
Norsafe AS: Norwegian builder, patrol/rescue boat, 61:10
Nord West Yachts (Orust, Sweden): profile of, 117:66
Norscot: lip-type shaft seal, 29:14, 29:21
Norseman Marine: re-rigging project, 38:51
North American Boat Designers Hall of Fame: Dick Newick, 113:10; Jack Hargrave, 113:10
North American Land Sailing Association: land-yacht speed-sailing/world records, 60:11
North Atlantic Industries: aluminum-fiberglass hybrids, 17:19
Northern California Marine Association (NCMA): address, 4:20; efforts/membership, 4:9
Northern Fiberglass Sales: vacuum bag, 1:58; vacuum-bag film, 30:25
Northern Lights Hybrid: HybriDrive propulsion system, 138:6; Northern Marine: profile/Defiant 64 and Long-Range Cruisers, 57:123; 75' Starship Millennium, 57:123; Weskor structural core, 54:5
Northern Spy, vintage Huckins Corinthian motoryacht/pod drive installation, 129:54
Northfield Precision Instrument Corporation: precision chuck, 5:58
Northport (MirroCraft): Ultra Pro AL aluminum-fiberglass fishing boats, 17:31
North Safety Equipment: respirators, 3:19
Northstar Software: Shiphull 2000, 17:58
Northwest Bay Ships (Tasmania, Australia): trimaran ferry hull, 95:6
Northwest Plasma Cutting: custom NC cutting/metal-construction boat kits, 42:74, 63:145
Northwest School of Wooden Boatbuilding: vocational training programs, 22:4; Sliver 30-square-meter-class sloop/Robert H. Perry, 137:44; Buzzards Bay 14 sloop, 137:44; San Pedro 25, 137:44
Northwind Marine: EXTREME aluminum RIBs, 55:16; SAFE Boat, 52:12
Norway: boatshop safety regulations, 2:67; FRP construction/styrene exposure, 1:30
Norwegian classification society. See Det Norske Veritas
Nova Electric: 5060-120 inverter, 23:54
Novak, Derek: equivalency testing, 158:54; testing of single-skin and sandwich panels, 158:54
Nova Kool: HFC-134a-compatible marine refrigeration, 16:35
Novanex. See moisture meters
Nova Scotia Boatbuilders Association (NSBA): Cape Horn 65 steel trawler yacht, 77:10; and New Zealand Boating Industry Training Organization (BITO), 100:24; marine trades training programs, 67:13; recreational boat market, 77:10
Novis Marine, 115:100. See also C & C Yachts.
Noyes, Daniel: Design Challenge, 122:24
NQEA Engineers and Shipbuilders: 63:106
NRD, Inc.: static-dissipating air guns, 13:18
Nuclejet (NRD): anti-static blow gun, 48:86
numerically controlled (NC) lofting/cutting
See CAL/NCC (computer-aided lofting/numerically controlled cutting); kits, boat (NC lofting/cutting); in-house CNC router for machining lead components, 156:70; metal construction, CAL/NCC (computer-aided lofting, numerically controlled cutting) applications
numerically controlled (NC) lofting/cutting equipment: at Chesapeake Light Craft/C.R. Onsrud CNC machine/affixes bar codes, 152:24; Cutting Edge automated cutting machinery, 21:60; digitizers, 10:52, 32:52, 40:42; Formes & Volumes/inexpensive plugmaking, 88:14; history of, 67:8; Homag BOF-712 fixed gantry processing center, 90:13; Limited Production Tool (LPT) for machining female mold, 71:106; NC System 200 large-format digitizer, 10:52; KOMO CNC machine/Cruisers Yachts, 114:68; at Marine Concepts, 151:68; at Navilene

NuTeak, PVC composite deck material, 125:20. See also Flexiteek.

Nu-Tec Northwest, Inc.: Nu-Tec strippers, 14:57

Nutt, David: DuraKore strip planking, 15:34; dust control, 28:38; hardware potting, 15:21

Nuvolari/Lenard Naval Design: 72’ composite motoryacht, 59:57; Mostro, 62:12; Perini Navi ketch, 63:10

Nye, Tim: on composites design/comparison of hull thickness calculation/ABS rules, 106:4

Nylok Fastener Corp.: self-locking patch/engine mount, 35:58

nylon, high-density, oil-impregnated: Ertalon LFX, 29:14

Nyman Marine Corp.: WaterLift boat hoists, 23:50

Oakwood Veneer Co.: specialty wood veneers, 153:8

Object 2 Skiffworks: Canaan C-Class catamaran, 133:70


Occidental Chemical Corporation: Hazorb spill-cleanup products, 4:58

occupational health. See worker safety/occupational health

Occupational Safety and Health Administration. See OSHA

Ocean Alexander-style motoryacht: 64:96

Ocean Connect, Inc.: On-board’s information services, 15:70

Oceanfast Motor Yachts: aluminum-fiberglass hybrids, 17:19

Ocean Kayak: boat-recycling program/polyethylene kayaks, 15:4

Ocean Marine Specialties: claim investigation of boat accidents, fire, and theft, 71:27

Ocean Tech Marine: 34’ sportfisherman/DuraKore strip planking, 2:12, 15:34

Ocean Technical Services Inc. (OTECH): CeRam-Kote applicator, 54:18; SCRIMP/Mark V Motor Surfboats (Coast Guard), 37:3

Ocean Yachts: designing for production, 2:60; interior design, 6:34; sportfishermen/Dave Martin, designer, 103:160
Oehrli, Richard: profile, 54:18; on Navy river patrol boats, 61:5, 84:18; on professional engine (P.E.) licensure, 72:5; powerboat design 4-ways configuration, 84:18
OEM suppliers: mergers, 1:5
offsets, table of: pantograph/offsets machine/N.G. Herreshoff, 54:82; paper and slide rule/Bill Trip, 105:56
Offshore Marine Service Association (OMSA): address, 4:20; efforts/membership, 4:9
offshore cruising/racing sailboats. See sailboats, offshore cruising/racing
offshore race: Venture Offshore Cup/England to Monte Carlo/runs again, 147:10
offshore racing/performance powerboats. See powerboats, high-performance offshore/raceboats
offshore racing/performance sailboats. See sailboats, offshore racing/performance
Offshorer Marine: restoration of Monte Carlo Offshorer/ARAM Offshorer, 149:10. See also Riva runabouts.
offshore sportfishing yachts. See powerboats, offshore sportfishing yachts
Offshore Systems: refrigerant recovery, 26:8
offshore wind farms: North Sea Logistics boat/powercat Xplorer, 108:16
oil analysis reports: need for executive summary in, 157:128
oil, crude: resin percentage per barrel, 65:11
oil, in bilge: pumps/skimming techniques, 31:59
oilcanning/deflection: racing shells/kayaks, 41:28; waterlogged cored composites, 31:34, 31:39
oil-change pump/system: Reverso, 40:66
oil changes. See engine oil
oil filters. See engine oil
oil purifier: portable, 3:60
oil recovery: Kvichak Marine, 96:52
Oldag, Claus-P: on engine accessibility, 109:6; stern tube repair, 130:38
Oldag, Claus, author: “Tales From Trinidad,” 130:38
Oldenburg, Bo: designer/curved-stepped hull, 54:18
Old Town Canoe Company: Crosslink 3 system/tooling, 10:34, 11:20; Discovery canoe, 4:34, 4:40; product line/canoe market, 4:34; roto-molding technology, 4:34, 4:40, 10:34; Royalex construction, 11:20; videos/marketing, 16:33
Olsen, Henry: on surveyor pricing, 71:5
Olson, Stephen (Steve): on holding tank design/installation, 52:4; on keel attachment/fasteners, 40:4; on marine wiring/soldered terminal connections, 11:5
Olympics: racing events, 41:58; racing shell/kayak design/engineering, 41:28, 41:30
OMC. See Outboard Marine Corp.
Omega Chemical: SprayCore sprayable syntactic foam, 7:50, 7:62
Omni: stepped 22’ Tridyne, 5:52
Omni Research Corporation: Omni-Gel hull cleaner, 10:52
Omohundro Corp.: carbon-fiber spars/lightning protection system, 43:64
Onan Corporation: generators/carbon monoxide warnings, 45:32; generators/exhaust nipples, 45:5
Oneida Air Systems: dust and fume extraction system, 87:10
O’Neill, Mike: on thermoplastic construction, 11:20
one hundred knot yacht, 101:82, 104:4, 105:4
one-off construction. See custom/semi-custom/one-off construction; tooling, for custom/one-off boats
Ongaro Marine: throttle arms and knobs, 44:54
Onset Bay Marina: wastewater collection system, 6:8
Ontario: Hy-Lite Power Boats/welded aluminum offshore powerboats, 51:11; MetalCraft Marine/Bullnose high-speed landing craft, 57:15
open-class singlehanded offshore raceboats: Class 40 shorthanded racers, 153:20; Maine Yacht Center/setup and outfitting services for, 153:20
Open 40s (Groupe Finot design): ocean racing vessel Syllologic, 70:38
Open 50s (Groupe Finot design): ocean racing vessel, 64:64; 65:24, 76:60, 155:58
Open 60s (Groupe Finot design): ocean racing vessels, 64:64, 155:58; Karver Rigging K-Evolution furler systems and blocks, 95:6; work on at Maine Yacht Center, 155:58
open-molding. See laminating techniques, open-molding
Open 60s: 64:64
Ording Blockmakers: wood shell blocks, 145:24
Oregon: commercial/yacht markets, 40:24
Oregon Iron Works: welded steel tourist sub, 55:16
Organoil Pty Ltd.: timber preservatives and finishes, 96:6
original speed: powerboats going faster than hull speed/Donald L. Blount interview, 128:18
Orust, Sweden: profile of Hallberg-Rassy Yard, Najid and Mala boatyards, 82:58; Nord West Yachts, 117:66
oscillating multipurpose tools, 133:12
osmotic blistering. See blistering,
gelcoat/osmotic; blister repairs
OSTAR (Observer Singlehanded
Transatlantic Race): 1984/Thursday’s
Child, 53:50
Oster, Richard: Wilbur 34
redesign/performance, 5:86
Osterhaug, Erik, author: “Application
Strategies,” 67:52
OTH RIB (Over the Horizon Rigid Inflatable
Boat): 66:11
Otton, Stephen: on carbon fiber/auto-racing
applications, 30:4
Out Island 41, 135:14. See also Morgan,
Charles E., Jr.
Outboard Marine Corp. (OMC): and Chris-
Craft, 80:48; Cobra sterndrive, 14:34;
diesel propulsion package (SDU/Cobra),
14:34; Peter Van Lancker, 80:48, 81:26;
pressure-treated industrial plywood/lab
testing, 27:42; styrene reduction, 26:34
outboard motors: fuel-demand valves,
160:64; world’s largest/Seven Marine,
138:6
outboard motor test tank: at Newcastle
Marine, 130:28
outdrive system: aluminum
corrosion/galvanic stray current problem,
105:96; design of/problems of, 76:49;
MerCruiser Bravo drive, 76:49; dial
indicator for shaft runout, 76:49
Outerlimits Offshore Powerboats:
ethanol/E85 bullet, 133:60; finite element
analysis to optimize laminates, 133:46,
60;in-house upholstered seats, 133:84;
pre-preg carbon fiber Funny Car, 133:60;
Quad Step design, 133:60; start-up
history, 133:60;
outriggers: aftermarket niche/Rybovich,
14:26, 14:32; single outrigger
powerboat/Russell Brown, 130:52
outsourcing/subcontractors: applications,
37:16, 37:18; at Azimut-Benetti Yard
(Italy), 108:62; in boatyards/marinas,
52:88, 54:5, 57:76; flexibility for designers,
159:60; vs. in-house manufacturing/cross-
training, 35:34, 37:16, 39:70, 57:76;
flotation foam, 37:48; laminate
kits/Mahogany Company, 10:52, 35:58;
laminating/Island Packet Yachts/Arjay
Industries, 11:34; lofting/NC parts
generation, 38:14, 38:38, 38:47; at Owen
Clarke Design, 159:60; quality control,
35:4; quality/profit considerations, 32:64;
racing shells/kayaks, 41:28;
subcontracting
relationships/contracts/warranties, 35:8,
37:16, 41:15, 57:76
ovens/autoclaves: dedicated vacuum system
for, 63:151; environmental air permits
and combustion-powered heaters, 83:4;
five-sided removable oven box top and
heat table/Goetz plant, 73:54; foam
sheets for portable
oven/Cinderella/Spitfire Quay, 123:32; for
carbon fiber masts and spars/Southern
Spars, 75:98; for G4 catamaran rudders
and daggerboards, 156:40; for heat-cured
composites, 39:30, 63:86, 70:3, 153:8;
jury-rigged oven for Team Adventure
repair, 72:38; for post-curing, 14:45,
65:66; for post-curing/alternatives to, 8:54,
14:45; for post-curing/pre-preg parts,
24:18, 24:25, 41:28, 41:30, 61:52, 63:151,
82:22, 153:20; for post-curing/spar
construction, 3:42, 41:28, 41:30, 47:44,
47:52, 47:53, 55:44, 55:58; for post-
curing/tooling, 60:96, 60:103; gas-

Over the Horizon Rigid Inflatable Boat (OTH RIB): 66:11

Owen Clarke Design (U.K.): high-tech high-performance racing and cruising yachts, 159:60, 162:52; IMOCA 60s and Vendee Globe Race 2016, 162:52; laser scans, 159:60; retrofitting, 159:60; wooden yacht Misty/virtual dynamic and hydrodynamic conditions, 159:60

Owen, Patrick: on Macintosh CAD/CAM, 9:5


Owen, R. Scott: on professional engineer (p.e.) licensure, 110:4

Owens, Norman G.: on marine engine conversion, 19:4; on stepped hulls, 7:5

Owens Corning Fiberglass Corporation: development of fiberglass reinforcements, 38:30; 134:62; OptiSpray multi-end roving, 146:10

Owens Yacht Company: marine engine development, 19:4

owners/buyers. See boat owners/customers

owners’ manuals: developing/writing/producing, 27:46, 27:54, 159:22; eFit iPad/Fleming Yachts, 159:22; European Union guidance for, 159:22; importance of a schematic for electrician’s perspective, 160:4; for international market, 29:4; as PDFs, 159:22; maintenance alerts, 159:22; outsourcing, 159:22; repurpose of construction drawings for graphic illustrations, 159:22; web-based vessel management platforms, 159:22

owners’ representatives: and builders’ contracts/customer relations, 12:72, 37:60, 40:24, 40:40

Ozite: Compozitex (print blocker), 7:50, 7:62

ozone depletion: CFCs/halocarbons and, 2:31; non-attainment provisions/NAAQS, 34:40. See also Environmental Protection Agency, regulations/guidelines/compliance; VOC emissions, reduction/compliance

ozone generators: 72:73
profile/systems audit, 59:21, 61:5; Robert H. Perry design/cruising boat Catari build, 150:10 start-up and sale of, 91:96; Rule 1162 compliance, 25:8
Pacific 22 Series: composite rendition/Chris-Craft Cutlass, 98:12; design by Ralph and Wayne Mooer, 98:12
Pacific Yachting Pacific Challenge: first boat to complete challenge/Aspen C100 proa, 156:12; timed event for production powerboats, 156:12
Packard Inc.: runabout replicas, 18:20
Padden Creek Marine: blister repairs/Turbo Shear, 27:70; blister repairs/vacuum-drying, 16:42; bottom prep/wastewater runoff, 31:10, 31:16; diversification/shower-tub units, 37:16; gelcoat maintenance/restoration, 15:44
PAG (polyalkylene glycol) oil: refrigerator-compressor lubricant, 16:35
PainDrawing: impact and slamming exposure/pain app downloading, 147:10
Paine, Art: Novakeel design, 23:24
Paine, C.W. (Chuck): designer/Reindeer V, 57:110; flush-deck double-ender sailboat/Morris Yachts collaboration, 92:30, 116:60; on Palmer Johnson/manual vs. computer yacht design, 53:28; on rig weight/aluminum vs. carbon fiber, 47:44
paint: Fighting Lady yellow, 139:128; heated storage locker, 52:81, 55:5; waste/recycling/incineration, 37:16; Zahn viscosity measurement system, 34:35. See also paint removal
paint, bilge: Interlux Bilgekote #862, 15:70
paint, bottom. See antifouling paints/coatings; antifouling paints, removal
paint, epoxy. See epoxy paints
paint, hull/topside. See paints/coatings, exterior
paint, linear polyurethane (LP). See linear polyurethane (LP) paints/coatings
paint, nonskid. See nonskid deck coatings/coverings
paint, splatter: Zolotone, 21:26, 37:36, 37:42
paint, stainless steel: Steel It two-part coating, 20:56
paint, textured: Polomyx, 34:28, 34:32
paint, water-reducible: System Three, 22:55
paintbrush: disposable/The Fooler, 29:58, 81:22
painting supplies: disposable paintbrush, 29:58; dropcloth, 3:60; Fine-Line plastic tape, 37:36; masking film, 31:10; masking tape, 37:36; protective tape, 29:58
painting techniques: “concurrent” painting at De Vries Scheepsbouw, 77:52; defensive painting/troubleshooting, 52:54; diagnosing blisters, 52:55; dust reduction/control/removal, 52:54; oval cross-section brushes/De Vries Scheepsbouw shop, 77:52; recoating, 52:54; rolling and tipping, 8:52, 34:35; yacht finish standards, 52:54
Palmer Johnson Savannah: repair and refit, 53:28
Pamlico skiff. See also Lathrop, Tom.
Panduit Corp.: CST-101 wire-cutting tool, 23:54; harness mount systems, 35:58; spiral cable wrapping, 13:70
Panel clips: Fastmount panel-mounting clip system, 104:22
panel construction. See composite flat-panel construction; fiberglass construction, cored/sandwich, flat-panel panels. See composite panels; stone panels; thermoplastic polymer panels
Panorama Inc.: marine leak detector, 2:70
Pantawee Marine: Hans Christian model line/Jack Hall, 128:62
Paper Thermometer Company: paper thermometers, 8:54
Parabeam: mold lamination schedule/vinylester resin, 143:10; ready to paint boatbuilding material, 72:10, 125:54; as solar collectors, 125:54; 3D fabric reinforcements, 79:114; use in heat-controlled tooling, 143:10
Paragon (trimaran): 62:46
Parise, Tom: on gelcoat maintenance/restoration, 15:44
Park Industries: Posi-Turner, 10:52
Parker, Dan: on auxiliary diesel installation for a planing hull, 140:4. See also Monaro planing hull model; propulsion/drive systems; engines, marine, fuel efficiency.
Parker, David: co-founder/Hatteras Yacht Company /obit, 154:12
Parker, Grahame, designer: low-wash cat ferry, 63:162
Parker, Joe, author: “Kids in Boats Become the Adults Who Buy Them,” 118:80;
Parker, Joseph (Joe): building parts with epoxy and lab testing finished laminates, 95:16; on G32 catamaran/polyester gelcoat combined with epoxy laminate, 42:52, 44:5; on high-performance resins, 42:59
Parker, Joseph (Joe), author: “In-Mold Coatings for Epoxy Laminates,” 49:59;
“Why Some Dark Boats Blister,” 64:22
Parker, Linwood: Parker Marine, 17:34
Parker Hannifin Corp.: 221FR marine fuel hose, 33:75
Parker Marine: plant/shop layout, 17:34; vocational training, 20:18
Parker, Reuel: response on capsize and full knockdown definitions, 140:4;
Sarah/Exhuma 62 schooner, 139:54; ultralight displacement multi-chine hullform design/Australia 47, 139:54
Parkyn, Nick: on Applying Savitsky and application to planing surfaces with a narrow beam and long wetted length, 147:6, 149:04
Parsons, Bruce: on dimpled bottoms, 59:5
parts. See computer software, lofting/parts generation; inventory/parts; small parts
Pascoe, David: on plywood structure/longevity, 42:5; on surveying electrical systems, 67:5
Pascoe, D.H., & Co. See Pascoe, David
passagemaker style production boats, 81:58; Passagemaker Lite 80/46/56, 81:58
passenger vessels: amphibious vehicle/DUKW, 56:10, 57:13; Blount-Barker Shipbuilding/passenger-only ferry Freedom, 81:10; construction/transition to yachts, 40:24; converted steam trawler, 52:12; fire protection/aluminum hulls, 53:31; large uninspected/U.S. Coast Guard regulations, 59:9; nonprofit vs. commercial, 52:12; overland transport, 36:33; regulations/certification/testing, 36:22, 36:32, 37:4, 37:34, 39:4, 53:31, 59:9, 59:44; tourist submarine, 55:16. See also catamarans, power; charter boats; excursion boat market; ferries; Subchapter T boats
patches/patching techniques/materials: for FRP/composite hulls, 36:34, 39:19, 39:27, 42:5, 50:18; secondary bonding, 36:34, 50:18, 69:5; X-patches, 36:34, 37:71. See also laminates, marine, repair techniques; repair techniques
Patco Electronics, Inc.: InteliMate battery charger monitor, 28:60
Patrick, Jeff: on ferro-resonant battery chargers, 29:4
Patrix, Ronan: Design Challenge/Swift 26 trimaran, 135:36
patternmaking: for foundrywork/custom castings, 42:46, 42:48
Patterson, Simon: Design Challenge, 129:18
PATTI (pneumatic adhesion tensile test instrument) meter: adhesion between finish coating and epoxy laminate, 49:59, 100:80; gelcoat adhesion to an epoxy substrate, 87:62; PosiTest adhesion tester, 100:80
Patton, Jonathan, co-author (with Eric Goetz): “Medic!” 72:38
Paul Gardner Company. See Gardner, Paul, Company
Paulhus, Mark D.: on licensure, 49:4
Pauli and Griffin: PRAM 21 plastic-media blasting equipment, 7:8, 7:12
Paulin, Ivan: on hooded 3M respirator, 1:68
Pauls, Marc: on displacement hulls/wavemaking reduction, 28:6
Pavia, John: on battery technology for boats and cheaper lithium cells, 122:6; on connecting lithium cells, 124:6
Payne, Joseph: on overcurrent protection, 38:4; on lighting efficiency and comparisons, 89:4
payroll/wages: bar code system (labor reporting), 33:36; in market downturn, 9:13; piecework basis, 41:72; for quality employees/incentives, 32:64, 41:72, 146:18; for small businesses, 1:38, 57:74; software, 18:54, 57:74, 57:80; trends (reader questionnaire analysis), 5:32
PC Cox. See Cox North America
PCM Marine Power: warranty engine repairs, 22:55
Peale, Barry, author: “Serve Yourself by Serving the Customer,” 31:80
Pearson Marine Group: North Rip2/center console, 129:8
Pearson Precision Tooling: machining/AAB robots, 112:10
Pearson Yachts: Burgoo invicta centerboard yawl/turret-style doghouse, 105:56; designing for production, 2:60; interior design, 6:34; Pearson 35 restoration/Landing School, 75:112; Red Jacket, racing sailboat/balsa-cored hull, 115:100; Tritt designs/Pearson-Grumman/early FRP, 60:116, 134:62; re-launch of business/True North, 79:9. See also Tillotson-Pearson
Pedrazzini: traditional mahogany runabouts, 155:10
Pedrick, David, author: “Fourth Generation 44,” 121:88
Pedrick, David (designer): profile of, 86:44
Peel Away Marine Safety Strip: water-based stripper, 18:54, 31:10, 33:75
Pelagic Boats: walkaround sportfisherman, 87:16
Pelletier, Marice: on the best marketing tool you have/Kazulin Boats, 80:4
Penn State Industries: Portable Panel Saw System, 19:59 pens. See markers
Penske Composites: composite sheet material/deck core replacement, 52:40
Pequot River Shipworks: shipbuilder/fast ferries, 57:15, 62:87
Perception/Aquaterra: polyethylene kayak recycling program, 15:4; roto-molded polyethylene kayaks, 29:33
Pereira, Al: vacuum-bagging/Hood Enterprises, 30:18
Pereli, Dick, author: “Controlling Emissions in a Small Shop,” 73:26
Performance Cruising: cruising catamarans, 30:48
sea trials, 58:26; performance prediction of catamarans under power/Derek Kelsall, 130:6; resistance/drag, 56:26, 58:6, 58:26, 60:5, 60:66; small craft, 46:62, 58:26. See also computer software, propeller/propulsion analysis; drag/resistance; model testing; speed, estimating
performance testing: Carderock Division of the Naval Surface Warfare Center, 52:42, 52:53. See also model testing
Perini Navi (Italy): custom-built captive reel winch, 108:62; ketch, 63:10; custom sailing yacht Tamsen, 111:12
periscope, illuminating: AvScope, 24:62
Perkins Sabre marine engines, 122:64
Perkins Trucking: superload deliveries, 36:33
Perko: Extended Range running lights, 36:78
Perma-Foil International, Inc.: copper/nickel bottom sheathing, 7:42, 7:48
Perry, Robert, author: “Container Cruiser,” 108:28
Perry, Roger E.: on honoring those who build and repair boats, 83:4
Perryman, Eric W.: on designing for an electrical emergency, 64:5
Pershing Yachts (Italy): Pershing 115 yacht/waterjet propulsion system, 91:20
personal protective gear: catalogs, 20:8; importance of, 60:5, 66:5; review/sources, 3:19. See also barrier cream; clothing/work clothes; gloves; goggles, safety; hearing protection; respirators; safety glasses
personal watercraft (PWCs): boat noise/legal limits/ordinances, 43:75, 44:49, 59:10; Cuyuna engine, 5:26; safety conditions/legislation, 32:48, 46:10; snowmobiles as, 54:18; tank-testing, 56:26; Trampofoil, 54:18. See also jet boats/jet skis
Persson, Jon: on marketing/market base, 2:4
Pesznecker, Dan: Mid-Jet Manufacturing/commercial boats to yachts, 40:36
Peterson Builders, Inc.: liquidation of, 53:28; profile/commercial market, 26:51; steel ferries, 1:20, 26:51
Peterson, Douglas (designer): and Baltic Yachts, 85:46; cast lead keel for Coug
I/Mars Metal Co., 156:70; DP production boat, 85:46
Petrick, Mark E.: on Lake George, NY excursion boat (Ethan Allen) loss and U.S. Coast Guard jurisdiction, 101:4
Pettegrow, Malcolm (Mac): on catalytic heaters/post-curing, 8:54; 36’ cruiser, 1:20; on Extender putty delivery/fairing system, 27:70; on T-boat market, 36:22; on tooling/DuraKore construction, 15:34; on Wayne Canning laminates, 45:76
Pettegrow, Malcolm L., Inc.: profile/Boomer sportfisherman, 57:110
Pettit Paint Company: ACP-50 copper-based ablative bottom paint, 16:52; ECO ablative antifouling bottom paints, 146:10; Glass Flake epoxy, 23:54; Ultra-V-Gold urethane varnish, 11:52
Pfund, Bruce: on black discoloration of foam core, 34:5; on carbon fiber laminates, 63:5; on China Sail factory/nip roller safety, 146:4; on contour-cut vs. sheet foam/cored bottoms, 55:5; on cored panel penetrations, 99:44; on DCPD laminate repairs, 55:5; on Dynel, 11:5; on engineered putties, 42:5; on galvanic blistering, 57:32; on impregnators/retarding gelation of polyester resins, 7:5; on Infusion Gone Wrong, Made Right and simpler re-infusion process using I-beam gallows, 162:6; on keel attachment/fasteners, 40:4; on moisture meters, 16:50; nondestructive testing workshop, 47:57; on proper ways to block a boat, 144:4; on PVC foams in elevated-cure applications, 81:6; on repairing damaged laminates, 43:54; on secondary bondline preparation/adhesives, 42:5; Smart Hammer, 47:57; on spraying high-solids epoxies, 43:5

Phase Two Design: computerized lofting service, 7:18

phenolic resins. See resins, phenolic
phenolic varnish. See varnish, phenolic

Philbrook’s Boatyard: William Garden patrol design/custom motoryacht Chinook Post aluminum hull, 80:12

Phillips Fibers Corporation: Alpha marine carpet, 6:52

phlebitis: cautions/treatment, 41:55

Phoenix fiberglass: recycled fiberglass, 37:66

photo-curing resins: additive for, 19:4; air-inhibited/secondary bonding, 19:8, 21:4; costs/applications/advantages, 18:8, 26:34; curing/post-curing techniques, 18:17; development/introduction of, 19:4, 26:34; with honeycomb core, 21:4; pre-preg (UV-PPG) applications, 18:8, 21:4, 24:18, 48:35, 50:5; for repairs, 18:8; for resin-infusion molding applications (PLP), 32:28; sources/Sunrez, 18:8, 18:17, 19:8; vacuum-bagging (UV-VARTM) applications/technology/testing, 18:8, 48:35, 50:5. See also Livesay, Mark (Sunrez Corp.)


Pickering, Gardner: on Marinedeck cork decking, 128:6

piezo-electric devices:
sensors/actuators/“smart” composites, 46:45; vibration measurement, 74:85
Pike, Dag, Associates: consulting services, 60:11, 65:11
pilot boats: C. Raymond Hunt and Gladding Hearn pilot boats, 150:34, 151:52; Leopard/cold-molded Pilot Schooner 60/elliptical hull, 139:54; Los Angeles pilot boats/Willard Marine, 150:34
Puget Sound pilot boats, 67:90; San Francisco Bar Pilots, 70:21; Spanish pilot boat with extruded monomer closed-cell foam collar, 78:86; waterjet drive Swift/Kvichak Marine, 96:52
PILOT (Product & Information LOcator Tools): database for locating parts/components, 49:96, 60:136
pilothouse: powerboat design/windows, 114:30, 115:88; sailboat design/windows/Reindeer V, 57:110; retracting pilothouse on towboat/Tim Graul design, 110:68. See also windows; wheelhouse
pine, Southern: custom industrial plywood, 23:54
pine, sugar. See sugar pine
Pingsha Yacht Building District (China), 128:38
Pinheiro, Carlton: curator/Herreshoff Marine Museum, 54:82
PipeMaster, pipe and tubing profiler tool: 69:13
Pipe Painter curved roller tool, 83:14
piping, engine: resilient hangers/expansion joints, 34:22, 34:27. See also engine exhausts
piping, plumbing: holding tank pumpout, 50:69; physics/calculating size, 24:4; 3-D CAD model, 40:50
Pippin, Scottie: NBA All-Star and Burger Boat Company, 72:10
Piranha Propellers: plastic replacement propeller, 12:60
Pirelli Pzero highspeed runabout, 122:12
Pittsburgh Paint and Glass (PPG): early resin formulations, 38:30; paint system/aluminum boats, 21:26, 37:36, 37:42; paint system/DFX-7 catalyst for, 37:42
Plancick, Gordon: on CAD/CAM systems, 8:35; on NC lofting/cutting, 7:18
Placid Boatworks: profile, 97:60; lightweight canoes, 97:60, 99:4
plane, edge: Stanley #95, 16:52
planer, face: Turbo Shear, 27:70, 31:10
planer, gelcoat. See gelcoat peelers/planers/shavers
planers, portable: review/sources, 12:60; Ryobi AP-10, 12:60; Williams & Hussey, 12:60
planing catamarans: planing vs. displacement, 72:84; symetric- and asymmetric-hull powercats, 72:84;
planing hulls: bottom-loading, 58:26, 67:31; chine walking, 145:30; designing and building chines, strakes, steps, and transom corners/FRP construction, 58:79, 60:5; drag/resistance, 55:32, 58:6, 58:26, 60:5, 67:31; drag/resistance/shallow vs. deep water, 58:26, 60:5; dynamic
instabilities, 145:30; dynamic
lift/performance problems/hull changes,
45:86, 85:76, 145:30; dynamic stability,
31:20, 31:28, 33:4, 34:5, 44:38, 64:46,
75:140; lifting strakes, 45:86, 58:54,
58:79, 60:5; model testing, 55:32, 58:6,
58:26, 58:79, 59:56, 60:5, 89:85; 126:64,
128:18; porpoising, 145:30; power
catamarans, 47:16, 64:46, 74:54;
propulsion efficiency, 44:38, 44:46, 46:5,
58:6, 58:26, 85:76, 107:82; Series
50/planing hulls/U.S.Navy, 128:18; Series
62, 49:42; 126:64, 128:18, 130:6;
snowmobiles, 54:18; stepped bottoms,
Stolkraft hullform, 49:42, 58:6; surface
drives for, 2:52; tunnels, 44:38, 44:46,
46:5, 46:16, 49:44, 49:10; trihedral hull,
49:42, 59:10; variable deadrise, 128:18;
Yeh's Series 64, 128:18. See also
design/engineering
considerations/parameters;
drag/resistance; lifting strakes; model
testing; powerboats; propulsion/drive
systems
planking: plank removal-specialized tools,
21:42. See also strip planking; wood
construction entries
plans. See designs/plans
Plant, Mike: Coyote capsize, 23:24
plant/facilities. See production boatbuilding,
plant/facilities
PlasDECK, peel-and-stick PVC deck
material, 125:20; vs. Flexiteek, 126:6
plaster master: in tooling, 61:102
plastic, linear: polyethylene boat recycling
program (plastic kayaks), 15:4, 54:112
plastic, polyethylene. See polyethylene
plastic
plastic cleaner: Plexus, 55:99
plastic components: custom-engineered/thermoformed, 35:58
plastic-faced-plaster (PFP) tooling, 60:96,
60:103
plastic fastenings: applications/sources,
9:57; plastic nails, 9:57, 31:68, 32:52
plastic filler: alumina trihydrate (ATH), 25:59
See also film, engineering, textured high-temperature; masking film; shrink-
wrapping; vacuum bags/film
plastic masters, use of in tooling: 61:111
plastic-media blasting:
applications/equipment/techniques, 7:8;
reclaimer, 12:60
plastic resin: Wedlwood adhesive, 51:36
plastics: catalog of, 25:59. See also specific
types
plastics, bonding: manual, 26:56; to
metal/adhesives, 41:44; structural
adhesives for, 41:44
plastics, welding: non-molded thermoplastic
construction, 10:40
plastic tenting. See polyethylene plastic;
tents
PlastiCraft polyester fiberglass boats,
103:186
Plastimo (France): double-reading compass,
149:68
Platinum Marine Services: Spirit of 2010/retfit
of decommissioned yacht, 120:4; in-the-
water service center, 120:4
Platt, William, author: “Secondary Bonding
Revisited,” 39:27
Platzer, Gregory: on custom wheels, 111:4
Platzer, Gregory, author: “Custom Wheels,”
110:34
Play Station: catamaran, 62:46; and finite
element analysis (FEA), 78:29; rebuilding
of, 63:10, 72:84
pleasure boat market/design considerations: balancing comfort and speed, 6:2; fuel efficiency/environment, 15:80, 129:18, 16:4; making boats unsinkable, 140:80, 142:4, 141:4; paint job/finish, 37:47; quality of design and construction, 2:38, 2:60, 3:72, 5:7; and real-world stability, 112:120; 113:4; tracking consumer trends, 51:11; trailerable small power cruisers, 39:67. See also canoes; design/engineering considerations/parameters; jet boats/jet skis; kayaks; marketing/promotion; market research; megayachts; personal watercraft (PWCs); powerboats, motoryachts; powerboats, offshore sportfishing yachts; powerboats, sportfishermen; sailboat market/industry

Pleasurecraft Marine Engines (PCM): gas inboard engines, 17:44; Pro Boss engine, 16:52

Plexiglas: structural adhesive for, 41:44


pliers, locking: Vise-Grip 12LC Large Jaw, 35:58; Strong Hand Expandable Pliers, 104:12

plotters: for CAD/CAM systems, 7:18

Plourde, Mike: on luxury boat tax, 16:4

PLP (progressive lamination process): UV-cured resin-infusion system, 32:28

plug (bung) cutter: for removing wood screws, 23:20


Plum, John (Danish inventor): stepped planing boat design, 88:82, 97:164; stern stabilizer for balancing a stepped hull, 85:76; Fantail boat, 85:76

Plum Creek Manufacturing: Marine Tech custom industrial plywood, 16:12; Marine Tech-PTP (pressure-treated plywood), 27:42; Ultra-Core plywood, 26:54

PlumDuff, motoryacht: 68:44


ply/fiber orientation: 66:78, 127:8; composite failure criterion, 133:46; fiber simulation/composites modeler/Dassault
Systems, 127:8; ply failure/Tsai-Wu plot, 133:46; stiffness values, 133:46

plywood, as core material (FRP sheathed):

plywood, custom industrial:
grades and standards, 90:24; Southern pine, 23:54; selection guide, 31:68; sources, 16:12, 28:8, 42:5;
types/manufacturing/applications, 16:12, 16:20, 150:10; for one-off tooling, 10:42; plywood sportfishermen/commercial skiffs, 23:37; plywood laminated keel/Seaway Boats (California), 99:20; Resopal plastic laminate coating/Hanse, 91:136; Select Boat Panels, 9:56; workstations/tables for, 22:56. See also plywood, custom industrial

plywood construction:
Marine/plywood do-it-yourself boat designs, 150:10; Nexus Marine/Chinook 23 sportfisherman, 23:37; Seaway Boats, 99:20; Vicem Yachts, 102:34

plywood panels manufacture:
Toubois panel products, 89:8

plywood wet-out box/Zimmerman Marine, 119:58

PMS (paramethyl styrene): styrene substitute, 10:8

pneumatic tools. See compressed-air (pneumatic) tools/systems

Pocock Racing Shells: post-curing system, 14:45

podcast: wood and epoxy podcast/Russell Brown, 130:52, 133:6

Poirier, Jean-Yves, author:
Assembled,” 149:68; “Franck Roy: Success With Replicas,” 131:12;

Poirier, Jean-Yves: on nanoparticles environmental and health problems with/Magic Nano Cleaner, 109:6
Pokela, John: interior designer, 87:53
Poland, Dan: Derakane vinyl ester resin additives/delayed gel time/SCRIMP, 4:30
Polar-Star Group, Inc.: flying inflatable boat (FIB), 59:10
polar voyage: Antarctic circumnavigation/AeroRig, 60:11; MS Endeavour ice-class ship, 89:16
POL-E-BOND: epoxy coating for polyester hulls/blister protection, 2:72
Polimex Klegecell: Ductile closed-cell foam, 10:52; Featherboard panels, 11:52; K-Lite core bedding putty, 9:36
polish, liquid: Micro-Gloss, 12:60
Poliza, Michael: owner Starship Millenium, 58:9
Pollard, Mike: on finite element analysis, 80:3
Pollard, Stephen (Steve), author: “Loftsman’s Liability,” 38:14
Pollard, Steve (boatbuilder): 63:145, 100:12
Polluting For Pleasure, 77:82
pollution, air. See air-filtration/air-makeup systems; Clean Air Act/Amendments;
Environmental Protection Agency (EPA), regulations/guidelines/compliance;
NAAQS (National Ambient Air Quality Standard); Rule 1162, compliance;
ventilation systems; VOC emissions, reduction/compliance
pollution, noise. See noise pollution; noise/vibration control
pollution, water. See water pollution
Polomyx: spray-on textured paint, 34:28, 34:32
polyacrylonitrile (PAN): used in manufacturing of carbon fiber, 58:36
Poly-Bond: polyester structural adhesive, 42:5
polycarbonate acrylic alloy: Carbonlite 2000/Eddyline Kayaks, 60:11
Poly-Craft Systems: HVLP plural-component spray gun, 18:54
polyester barrier coat: Zycon, 49:59
polyester bondcoat: for epoxy laminates, 49:59, 51:6
polyester bonding putty: for bonding molded integral structural grid/liner, 46:28, 73:40; commercial/applications, 58:54; core block test, 73:40; evolution/shop-made, 58:54; Polylite Profile, 16:52, 32:45; price per pound/gallon, 58:54, 58:58; properties/applications, 58:54; pump suppliers, 58:65; shrinkage/cracking/secondary bonding, 58:54; shrinkage/painting, 52:54; strength/flexibility, 58:54; structural gun-applied/pumpable, 58:54
polyester compound: Quick Fill, 18:54
polyester fabric. See Trevira
polyester gelcoat: compatibility/bonding/epoxy-based laminate, 42:52, 43:5, 44:5, 49:59, 49:60; compatibility with epoxy resin/ECT
4:40, 10:34, 11:20, 56:10, 135:46; Technothrene, 54:18
polyethylene plastic sheeting: for boat covers, 38:55; for boat sheds/shelters, 35:15, 36:4. See also shrink-wrapping polyethylene wraps for wire bundling: TechFlex sleeves, 77:10
Poly-Fab: custom water tanks, 20:56
Polyfoam Products: HFC-134a foam, 24:62
polyisocyanurate foam: CO2-blown, 24:62
Polymer Corporation: Nyaflow high-pressure hose, 4:58
Polymer Development Laboratories (PDL): Hybri-Chem polyester-urethane hybrid resins, 21:60, 28:60; PDL 729-2 water-blown rigid flotation foam system, 26:51
PolyPhaser: impulse suppressors, 43:64
polypropylene filter cloth: for vacuum-drying blistered hull, 9:50
polypropylene honeycomb. See honeycomb cores
polypropylene hose: Hi-Tech Techflex HTR, 45:105
polypropylene water tanks: Poly-Fab, 20:56
polystyrene foam: cutting, 39:30; EPA rule/exemption, 28:54; plug/class C catamaran/Cogito, 39:30; secondary-bonding problems, 13:67
polysulfide sealant: vs. polyurethanes, 28:27; for integral tanks, 74:20; 3Ms 101 Marine Sealant, 74:20
polyurethane foam, non-CFC: performance/testing, 2:28, 2:31; sources, 2:28, 2:30
polyurethane gelcoat: combined with epoxy pre-pregs, 43:5
polyurethane resin: for RTM processing, 38:55
Polywerx (the Netherlands): RTM-Worx software for resin-flow simulation, 71:6
Poncin Yacht Group: Harmony Yachts sailboats/automated processing, 115:142
pontoon boats: fiberglass pontoon boats, 143:52; pedal-powered Shuttle Bike Kits with inflatable pontoons, 153:8
pools, exercise: sideline/TPI, 33:36
Pop Fasteners: Pop Plus blind rivets, 13:70
POR: Crystal TopCoat gelcoat finish, 15:44
P.O.R. 15, Inc.: POR 15 rust-preventive paint, 8:54
porpoising. See stability, dynamic

Porter-Cable Corp.: hammerdrill line, 1:68; Model 360-series belt sanders, 13:70; Model 505 heavy-duty finisher, 20:56; Sand Trap 73505, 20:56

Porter, Michael, author: “Down East Hullforms,” 73:88

Portland Yacht Services: Maine Boatbuilders Show, 77:3

Portlight: aluminum/Freeman Marine, 41:62; EC (EU) certification, 41:38; casting resin to create portlight/Dave MacPherson, 88:62; sandwich construction, 5:58

Possin, John: Bates Technical College/vocational training program, 20:21

post-curing carbon pre-pregs, 120:62

post-curing, epoxy resins:

solar, 14:45; SPRINT laminates, 79:114, thermocouple sensors and temperature-indicating stickers, 115:162. See also laminates, marine, advanced-composite; ovens/autoclaves; print-through, control/prevention

post-curing, polyester resins: blister repairs/barrier coats, 17:11; catalyst ratios and, 2:6, 50:46; catalytic heater for, 8:54; laminate strength and, 4:22, 4:27, 50:46; photo-initiated resins, 18:17; of test coupons, 2:6, 48:16, 50:46; of tooling/preventing print-through, 7:50, 12:27, 12:30, 21:50. See also ovens/autoclaves; print-through, control/prevention

post-curing, vinyl ester resins: laminate strength and, 4:22


Potter, Nick: Dyer 29, 28:72

PowerBoat Design Challenge (Professional BoatBuilder Magazine: Jolley, Eric/PT skiff, 122:24; Lathrop, Tom/Pamlico skiff, 122:24; Stimson, David/plank-on-frame power dory, 122:24; Devlin, Sam/Pelicano 18; Morabito, Margaret/retro 1900 outboard motorboat, 122:24; Nazarov, Albert/Picnic 550 Classic, 122:24; Jonsson, Sigurard Olafs/Arctic Circle Design aluminum fishing boat, 122:24; Miguels, Ronaldo Fazanelli/Niteroi wave-piercing powerboat, 122:24

Powerboat Reports: consumer-advocate publication (review), 8:9

powerboats: ABS classification, 39:80, 39:86; battery selection/use, 18:44; boat noise/legal limits, 43:75; comparative fuel consumption for three powerboats, 151:44; designing/building chines, strakes, steps, and transom corners, 58:79, 60:5, 138:32; design mock-ups, 9:28, 95:64; development/advanced composites, 51:22; development/construction of stepped hulls, 5:52, 7:5, 46:16; Dyer 29 as pilot launch, 150:34; First Chesapeake Powerboat Symposium, 116:40; fuel efficiency/market strategy, 15:80, 16:4; hull-to-deck joints, 60:104; ISO standards/stability, 48:14, 112:120; lightning protection systems, 43:64; model testing, 55:32; molded structural grid/liner, 46:28, 46:37, 58:54; overpowered powerboats, 80:3; Pilot power cruisers/Mark Ellis/Bruckmann Yachts, 138:32; production check lists, 95:64; profit/pricing, 47:66; propeller matching, 46:52; replica/reproduction/reconstruction of, 81:72; Revenge 35 Light Tackle, 102:86, 149:56; reviewed in consumer-advocate publication, 8:9; systems audit, 59:21; transatlantic passagemaker rally, 83:14; twin-screw rudder installation/tuning, 45:96; wide chine flats on deep-V hullforms, 138:32. See also specific types including: airboats; catamarans, power; excursion vessels;
ferries; fishing boats, commercial, construction; flats-boat market/flats skiffs; hydroplanes; jet boats/jet skis; lobsterboats; megayachts; personal watercraft (PWCs); planing hulls; pleasure boat market/design considerations; powerboats entries below rigid inflatable boats (RIBs); Subchapter T boats; etc.

powerboats for people who don’t like powerboats: Nigel Irens’ Design 027, 80:68


powerboats, motoryachts: Fox Project 86/design elements of, 118:22; interior layout/decoration, 6:34; interior layout/wheelchair-accessible, 57:15; lightning protection systems, 43:64; plug for, 60:11; reducing powering requirements for/Patrick Bray research, 118:22; Sparkman & Stephens designs, 59:44, 59:48; speed prediction, 59:56, 59:57, 101:82, 102:4; superyacht/Vitters Shipyard, 58:13; trawler/Northern Marine, 57:123


powerboats, small runabouts/racers: jetsprint boats, 57:15. See also jet boats/jet skis
powerboats, sportfishermen: acoustic signatures, 46:50; air chamber/2600
See also flats-boat market/flats skiffs; lifting strakes; planing hulls; powerboats, offshore sportfishing yachts
powerboats, utility skiffs: all-FRP “RIB” design, 52:12; aluminum jon boat, 16:4; Boston Whaler, 2:34, 2:37, 2:38, 2:40, 6:42, 27:42, 37:48, 38:3, 40:66, 42:34; Navy specwar FRP utilities, 52:43; roto-molded polyethylene, 11:28; SAFE Boat, 52:12; yard boats, 42:34. See also flats-boat market/flats skiffs; Navy boats/contracts; U.S. Coast Guard power management/usage, 137:34
Powermatic: Artisan 43 Bandsaw/rip fence accessory, 21:60; Artisan 73 Dust Collector, 18:54; numerically controlled Accu-Router, 2:70
Powerquest: boat shows, 36:60, 36:64; low-VOC gelcoats, 55:99
PowerStar: inverter supplier, 25:34, 25:40 power tools. See tools, power powertrain coupling, 131:12
Powlas, Jerry: on composite flat-panel construction, 48:4
POX-E-GEL: epoxy gelcoat, 2:72
PPG Industries: SprayVeil, 13:70
Practical Sailor: consumer-advocate publication (review), 8:4
Precision Boat Repairs: gelcoat maintenance/restoration, 15:44
Precision Shapes of Virginia (PSOV): startup of, 66:110
Precision Light Systems (Maine): hybrid Laser/Gas Metal Arc welding process, 103:44
Predator Custom Yachts: acquired by Egg Harbor, 87:16
Predator Express 35: walkaround sportfisherman, 87:16
Predator-model powerboats (Formula Cruisers, New Zealand): structural weight loss in, using epoxy laminate, 71:6
Preferred Data Corporation: custom accounting software, 57:74, 57:92
Premier Marine: recycled polyethylene, 37:66
pressure-fed resin rollers. See resin rollers, pressure-fed
Pressure Marine Systems, Inc.: Max-Pro-Coat vinyl ester antifoulant, 19:59
pressure-wash systems: bottom prep/environmental compliance, 31:10; Jet-Pro, 2:70; Recyclean, 33:75; RGF Marine wastewater treatment/recycling system, 44:54; Ultrasorb Mariner water recycler, 31:68
Prestovac: vacuum-assisted molding process/small parts, 32:28
Prevailer: marine batteries, 18:44
Price, Bill: on functions of automatic test/alarm system, 70:5
Price, Mick, designer: Eastport 32, utility-stype luxury powerboat, 123:10. See also Weaver, Tom
Price, Terry: Cerritos College/vocational training program, 21:12
price/value/profit: costing/pricing small craft, 47:66; designing for production, 2:60;

Pride of Baltimore, replica schooner, 126:8, 162:3

Prijon: blow-molded polyethylene kayaks, 29:33


priming: of foam cores, 9:44; HVLP applications/systems/techniques, 34:35; secondary-bonding applications, 20:32

Princess Yachts: Viking distributor for, 46:16; production management/lean management techniques, 129:3, 26


print blockers: applications, 7:50

printing, of catalog: cost estimates, 4:55; production tips, 4:50


prismatic coefficient; in displacement hullform, 78:46; 81:58

Privateer Manufacturing Company: boatyard fires/insurance, 1:50, 7:28; epoxy syntactic foam-cored tooling, 6:52; resin storage/delivery, 28:48

proa: Pacific proa/John Harris, 135:36

Proa 2000, motoryacht: 67:13

ProblemSolvers: Perma-Sand sandpaper, 18:54

Proctor, Rick: on battery charging/cycling/capacity, 19:50, 41:5

product catalogs/brochures. See catalogs/product brochures, builders’; product literature

product data sheet (PDS): interpreting/strength testing of composites, 4:22, 4:27, 6:5

product defects. See product liability; product recalls


product recalls: defining/discovering defects, 39:12. See also product liability

product specifications/engineering information: and customer support, 137:34; for resin formulations, 20:4; for SCRIMP, 31:42; standardized/PILOT system, 49:96; standardized testing, 4:22, 32:3. See also product data sheet (PDS)

product testing: in-house, 46:16. See also composites testing

product warnings. See warning/safety labels

product warranties: claims/limited-warranty provisions/language, 35:8, 41:15; claims/litigation, 50:18, 50:20, 50:25; claims/service, 46:16; for components/ancillary equipment, 35:8, 41:15, 141:80, 142:4; emissions-related warranty, 121:72; and internal mold-release additives, 13:11; high-performance resins and, 42:52; warranty card/market research, 26:64. See also repairs, warranty

production boatbuilding, business of: aftermarket accessories/equipment, 14:26, 14:32; builder-designer

production boatbuilding, information exchange:

production boatbuilding, management:

INDEX

advocate publication, 8:9; safety standards, 8:24. See also custom/semi-custom/one-off construction; design/engineering considerations/parameters; pleasure-boat market/design considerations; production boatbuilding, manufacturing/production; product lines
productivity (production efficiency). See production boatbuilding, manufacturing/production; profitability/productivity

Products Research & Chemical Corp. (PRC): molded polyurethane rubrails, 52:43; PR-365 polyurethane adhesive/sealant, 28:27; Rapid Seal 365 urethane/silicone sealant, 28:27

Pro/Engineer: Parametric Technology Corporation surface modeling program, 61:66


Professional Mariner: high-amperage DC circuit breaker, 38:55; ignition-protected DC fuses, 38:55. See also Ajeman, Bob professionalism: in design and construction of boats, 95:104; education and self-improvement for, 137:80

profitability/productivity: using advanced composites, 48:35; high-tech skills and, 25:64, 73:54; in South Africa, 104:4; paint job, 37:36, 37:47; and product quality, 13:80, 28:72; profit margins/financial planning, 12:10, 21:4, 28:72, 32:64, 57:74; profit margins/large vs. small boats, 39:70; profit margins/one-offs, 54:43, 55:58; profit margins/repairs, 57:74. See also price/value/profit; professional boatbuilding, financial management

Progress Products: Boa-Constrictor universal clamp, 33:75

Project Amazon (Open Class 60 design): free-standing carbon fiber spars, 159:10; L keel, 96:72; rudders-in-a-drum, 96:72; swinging keel, 96:72

Project management system: Townsend Bay Marine, 68:44

Pro-Line Boats: fuel-flow meters, 26:54; Pro-Lite boats, 117:8

ProLines software: Prolines Basic, 30:60, 33:69; Prolines design/fairing software, 8:35, 17:58, 33:69, 66:90, 68:5

promoters (cobalt solutions): adding to suit temperature conditions, 35:4; with vinyl ester resins, 6:16, 35:4, 44:30. See also accelerators/promoters; cobalt naphthenate

promotion. See marketing/promotion

propane: as refrigerant (R-290), 27:4, 28:6

propane cylinders: recall of Lite Cylinder propane tanks, 145:20; side-opening and top-loading lockers for, 152:58, 154:4

Propco: Y-10 cleaning gel, 15:44

Propeller Dynamics Pty. Ltd.: Prop Scan system/propeller pitch, 42:74

propellers: aftermarket niche/Paul E. Luke, 14:26, 14:32; analysis software/propeller...

property insurance. See insurance, property/fire/builder’s risk

PropSmith: prop-mounting tool, 62:12

See also engines, marine; jet boats/jet skis; jet propulsion/jet drives; planing hulls; propellers propylene carbonate (PC): recycling, 33:20; solvent/acetone replacement, 33:20, 33:26
PRO-SET, 125:36; 129:54; evaluation of ECT 120 bonding to spoxies, 139:30; expandable two-part epoxy foam/PRO-SET for filling sailboat appendages, 139:18; reformulation of advanced composite epoxies, 141:66
Protect-A-Boat: shrink-film, 18:28 protective suits/gear. See clothing/work clothes; personal protective gear Protimeter: Aquant moisture detector, 19:8; Surveymaster moisture meter, 60:48 prototyping technology: Whale water pumps/3D printing, 161:8
PT Skiff, 130:52; tooling/Turn Point Design, 137:12
public relations. See marketing/promotion
publicity. See catalogs/product brochures, builders'; marketing/promotion; press release
Puget Sound. See Washington state/Puget Sound
Pugh, Reichel, designer, 122:80
Pultruder of the Year Award, 122:12. See also Martin Pultrusion Group, 122:12
pultrusion process, 122:12, 154:48
pumpout boat service: Edson International, 158:18
pumps: ABS/LR classification, 39:80; Flow-Rite plumbing kits for OEMs, 141:6; long-life impellers, 53:89; maintenance manual, 43:83; redundant pumps for black- and gray-water tanks, 137:34; selection/installation/troubleshooting, 24:44, 24:48, 57:48, 57:99; types/technology, 24:44, 24:45, 26:45, 57:48, 161:8. See also specific types of pumps including: bilge pumps; dispensing pumps/systems; fuel pumps; helm pumps; oil-change pump/system; pumps, centrifugal; pumps, deep-well; pumps, diaphragm; raw-water pumps/systems; resin pumps; vacuum pumps
pumps, bilge. See bilge pumps
pumps, deep-well: for bilge pumping, 31:59
pumps, diaphragm: for bilge pumping, 31:59; Bone Dry 120/high-capacity, 44:54; multi-chamber diaphragm, 152:48; pneumatic, 33:64; water pumps/wiring/voltage drop, 152:48
pumps, putty: suppliers, 58:65
pumps, sump: installation/piping, 24:44
pumpout systems: Pump-Out Cart, 29:58; simplified, 50:69
Purcell, Cindy: on building replicas, 20:4; on cored bottoms, 53:4
Purcell, Steve: on traditional vs. no skills/boat design, 133:6
purchasing per project vs. inventorying: 87:46
purchasing. See inventory/parts, computer tracking; inventory/parts, purchasing/control
pushboat: at New England Boatworks, 131:12
Push-pull Tapper: American Gator Tool Company specialty tool, 84:18
putties, auto-body (Bondo): for hollow-strake construction/FRP, 58:79; vs. marine-grade putties, 33:46; and osmotic blistering, 51:108; for plug/high-temp tooling, 59:76
pyramid kayaks: CAD/CAM applications, 7:18
PYI Inc.: PSS Shaft Seal, 3:60, 29:14, 29:21
Pyran/Pyda: linear polyethylene kayaks, 29:33

| A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z |
| Quadrant Marine Institute (Sidney BC), 79:77; | whole-boat training and Marine Service Technician (MST) Program, 162:12 |
| Quality Woods Ltd.: teak supplier, 54:18 |
| Quantum Marine Engineering: MagLift System/Mary P sportfisherman/Trinity Yachts, 114:10 |
| Quay, Bert: on survey reports, 30:26, 30:35 |
| Queen Mary, passenger liner: feats and facts, 153:8 |
| Questar: airex-cored boat/Jay Paris, 88:62; Questar 26 prototype/hydro-sponsons/Glasply, 120:4 |
| Quickstep process: vibrating liquid mold for advanced composite parts, 72:10 |
| Quintrex Boats (Queensland): stretch-form process for shaping aluminum, 90:13 |

| R-12 (CFC-12) refrigerant (Freon): phaseout/replacements/retrofitting, 16:35, 25:8, 33:20, 33:26 |

17:4, 18:4, 18:54, 26:8, 26:17, 28:6, 30:54, 31:4; recovery/recycling, 16:35, 18:54, 26:8, 26:17. See also refrigerants; refrigeration, marine
R-134a. See HFC-134a
R-22 (HCFC-22) refrigerant: conversion to, 26:8, 26:17; phaseout schedule, 26:8, 28:6
R-290 (propane): as refrigerant, 27:4
Racal Health & Safety: Delta disposable respirator, 30:60; Power-Plus respirator, 16:52
racing boats/events. See America's Cup contenders; Around Alone Race; BOC Challenge; kayaks/kayaking; Little America's Cup; Millennium Round the World Race; Olympics; powerboats, offshore high-performance/raceboats; sailboats, offshore cruising/racing; sailboats, offshore racing/performance; sailboats, racing skiffs/dayssailers; shells, rowing/racing; Trophee Jules Verne round-the-world race; Whitbread Round-the-World Race
Racor: Lifeguard fuel separator, 16:52; permanent engine-oil filters, 49:79
Racz, Michael: on advertising/marketing, 6:42
radar reflection: radar-absorbing material (RAM), 53:40
Radian Corporation: report on industry VOC emissions, 10:8
radio, VHF. See VHF radio
radio frequency interference (RFI): and lighting, 87:80
Radojcic, Dejan: on resistance/shallow-water effects on planing hulls, 60:5; on Series 62 and slenderness ratio as a parameter for semi-displacement and planing regimes, 130:6
Radovich Boats Unlimited: gamefishing boat/Reel Trick, 58:13
Raffles Yacht: Proa 2000 motoryacht, 67:13
rags: cautions/bondline preparation/structural repairs, 43:62
railings: 3-D CAD model, 40:50
railings, bow: design/safety, 42:88, 69:92, 69:95
RAMCAP (rapid mold core assembly process): assembly for Pro-Line fishing boat hardtop, 102:96; at Boston Whaler, 102:96
ram effect, 78:46
Ramirez, Manny: on SAFE Boats International, 87:4
Rampage Sportfishing Yachts: 30'/38' sportfishermen, 59:10
Ramusino, Antonella Cotta: on Green Star/Registro Italiano Navale (RINA) and Royal Institute of Naval Architects (RINA), 119:4
Rand, Robert: vacuum-bagging tips, 30:22
Randall, Peter, author: "Trimming the Product Safety Standards Bureaucracy," 64:128
Rander, Steve: profile/Schooner Creek Boatworks, 55:79
Ranger bassboats: distributed power system for/Megalink, 99:82
Ranger Boats (Flippin, Arkansas): computerized measuring device/Faro Arm, 78:94
Rapid Expandable Modular Molding System (REMMS), 101:12; tri-hull patrol boat, 101:12
Raymer, John: on internal-mix spray equipment, 24:4
Raypan foam batts, 104:100
RD Boatworks: 40’ trimaran/DuraKore strip planking, 15:34
RDI Marine: and Alaskan salmon fishery market, 157:26; customization and options, 157:26; dealer for MAN diesel marine engines, 157:26
Rea, John: on Hawkeye Industries as a sponsor of Andre Cocquyt’s DVD CMT: Closed Molding Technology, 104:4; reaction injection molding (RIM): polyurethane-based RTM variation, 38:55
real-time monitoring system: Alternatives Energies (Alt.En), 144:10
reconstruction: of Petersburg cargo boat, 26:51. See also refits/retrofits/remanufacturing; replica/reproduction boat market; wooden ship building/restoration
recreational boating industry: passion for, 133:128

Reddington, James R.: on common Systems-Installation Errors and side-load vs. top-load propane lockers, 154:4; on Diesel Fuel in Flux and biodiesal/spontaneous combustion safety procedures, 160:4; on Service Manual Lament and question of diagram illustration/nut installation or removal, 158:4

Red Jacket, sailboat, 115:100

Red Tornado, vintage Bertram Nautec boat, 162:76. See also White Tornado

Redtree Industries, Inc.: The Fooler disposable paintbrush, 29:58, 81:22

Reed, Gordon E.: on secondary bonding/troubleshooting, 39:19

Reed, Gordon E., author: "The Great Escape (Hatch)," 42:71

Reeder, Gordon, author: "Case In Point," 106:36

Reef Industries: Grifolyn TC-1200 polyethylene sheeting, 38:55

Reefing: single line/Hanse, 91:136

Reel Quick, Inc.: Rapid Reel hose reel, 48:86

refits/refits/retrofits/remanufacturing:
economics/financial management/Slane Marine, 57:74, 57:76, 57:80, 75:112; 172’ yacht, 51:11; modifying a mold, 66:113; molding new sections for existing hulls, 66:110, 66:113; piecemeal upgrades vs. consistency, 75:112; at Rybovich Spencer, 70:120; Townsend Bay Marine, 68:44. See also repairs/maintenance refrigerants: phaseout proposal for Virgin R-22 refrigerant, 154:28; R-1234yF and other alternatives, 154:28; recovery/recycling, 16:35, 18:54, 26:8, 26:17; 90:64, 154:28. See also HFC-134a; MP 39 refrigerant; propane; R-12 refrigerant; R-22 refrigerant refrigeration, marine:
compressors/lubricants, 16:35, 26:8, 154:28; AC-powered, 91:34; air-cooling vs. water-cooling, 91:34; DC-powered, 18:44. 26:8, 91:34; engine-driven refrigeration, 91:34; flat plate evaporators, 91:34; heat load calculations, 90:64, 91:34; holding plate, 91:34; keel coolers, 91:34; R-12 phaseout/replacements (HFC-134a/MP 39), 16:35, 17:4, 18:4, 22:56, 26:8, 31:4, 90:64, 154:28; legal framework for, 154:28; powerduct kit, 91:34; servicing, 26:8, 26:17, 154:28; Supercool subassemblies, 7:64; systems manual, 43:83; systems technician training/certification, 57:99. See also refrigerants

Regal Marine: acetone reduction/replacement, 33:26; production flow, 33:69; women’s dealer advisory board, 38:51

ReGen Nautic: E Fusion all-electric outboard, 143:52

regulations, government, international. See Montreal Protocol regulations, government, Norway: boatshop safety, 1:30, 2:67
regulations, government, U.S.: and Keefe Kaplan Maritime, 140:18; California/air-quality regulations, 25:8, 140:18; marine trade associations and, 4:9, 4:18, 64:128; new in 1988-89, 1:30. See also Clean Air Act/Amendments; Coastal Zone Management Act; Environmental Protection Agency (EPA), regulations; Maximum Achievable Management Practice (MACT); NAAQS; OSHA, regulations; resins, low-styrene (DCPD); Rule 1162, compliance with; safety standards, for boats; VOC emissions, reduction/compliance regulator, voltage. See voltage regulator
Regulator Marine: money for expansion of company, 63:29; plant/layout, 17:34, 19:4; process control. 74:30; Regulator 28 FS/Lou Codega/"fishability boat," 128:8
Reichel, John: designer/Bonner Aero Marine sport diesel, 60:11
Reichhold Chemical Company: ATPRIME secondary-bonding primer, 20:32, 42:5, 52:67; ATPRIME 2, 52:67; DCPD-modified resins (33-430), 39:27; Dion VER9100 epoxy vinyl ester resin, 12:4; Hydrex polyester and vinyl ester resin, 32:18, 32:21; laminating resin (33-072), 39:27; on low-styrene resins, 1:30; manufacturing practice/waste reduction study, 55:26; Polylite Profile 33530-00 polyester tooling resin system, 16:52, 32:45; on Rule 1162 development, 26:34; secondary bonding resins/techniques, 19:44, 19:46, 19:48; standardized lab testing, 50:46; training videos, 4:58
Reidl, Sebastian: Around Alone Singlehanded Race, 55:44 reinforcements. See carbon fiber; fiberglass fabrics/reinforcements; Kevlar
repetitive-motion injuries: elimination of/air tools, 33:58. See also worker safety/occupational health
replica/reproduction boat market:
runabouts/sportfishermen, 2:12, 18:20, 20:4, 51:11; 81:72
Research Chemicals, Inc.: RC Hand Cleaner, 21:60
research vessel: Starship/Northern Marine, 57:123
resin additives: cause of osmotic blistering, 51:108. See also accelerators; promoters/accelerators; resin inhibitors; resin surfactants; resin thixotropes; styrene suppressants
resin applicator/gun: Binks Super Slave, 1:68
resin cleaners, emulsifiers: AquaClean, 33:20; BBA Solvent F302, 33:20; recycling, 33:26; Replacetone, 33:20, 33:26; Templex, 33:20; water-based, 33:20
resin dolly: at Goetz plant, 73:54
resin-infusion molding/processing (vacuum-assisted resin-transfer molding, VARTM): bagged-laminate infusion process (BLIP), 29:38, 32:18, 69:132, 133:114; air-operated low-speed drum mixers, 88:26; balsa core/structural core, 52:30, 108:100; carbon fiber infusion/Gunboat International, 144:58; Cinderella II hull bottom repairs, 126:18; for composite flat-panel fabrication/co-curing, 45:68; core materials/print-through prevention, 31:34; Corsair Marine, 29:22; destructive testing with Automatic Adhesion Tester from DeFelsko, 161:36; development of, 38:30; disbonded core, 161:36; fatigue loading/specwar RIBs, 52:43; flammability of, 85:4; geltimer for, 88:26; at Gold Coast Yachts, 124:42; GRPguru.com/Andre Cocquyt, 78:12, 79:114, 88:26, 103:208; hammer tap-testing, 161:36; infusion processing/Robert Fischer, 103:142; Leadership 44 hull/Morris Yachts, 133:114; leak detectors, 88:26, 108:100; non-destructive examination (NDE), 161:36; post wet-out aeration, 132:50; progressive lamination process (PLP), 32:28; Hinckley Co., 31:42, 38:3; Nordlund Boat Co., 87:46; nylon mesh facilitated resin flow, 144:58; process-monitoring hardware, 88:26; vs. pre-pregs, 58:36, 79:114; resin chemistry/content/vinyl ester, 44:30, 58:36; resin volatization/vinyl ester, 44:30, 66:128; resin feed lines/plumbing/layout, 44:30, 144:58; single-shot infusion/North End Composites, 44:30; training, 32:28; ultrasonic flaw detection, 161:36; VOC emissions reduction, 31:42, 44:30, 66:128, 68:5; weight reduction, 32:28, 53:20. See also bagged-laminate infusion process (BLIP); photo-curing resins; SCRIMP (Seemann Composites Resin Infusion Molding Process); resin-transfer molding (RTM)
resin inhibitors: extending gel times, 33:57; 113:22
resin mixers/dispensers: Material Mixer, 21:60; at Goetz plant, 73:54; Variable-Ratio Mini Machine, 15:70. See also catalyst, mixing/metering; resin pumps
resin pumps: for dispensing catalyst, 30:57; for testing catalyst ratios, 1:6
resin rollers. See rollers/bubble-busters
resins, air-cured: epoxies/secondary bonding, 39:27. See also epoxy resins
resins, air-inhibited: primary vs. secondary bonding, 39:27. See also DCDP (dicyclopentadiene)-blended resins; photo-curing resins; polyester resins; vinyl ester resins

See also cross-linking; heat-distortion temperature (HDT); heat/hot-weather boatbuilding; photo-curing resins; post-curing; print-through, control/prevention; temperature, of laminate resins, fire-retardant: blistering/moisture meter readings, 60:48
resins, flammability: Derakane brominated resin, 85:4; “the hot hut” fireproof disposal site/Viking Yachts, 131:54
resins, high-solids: chemistry/performance, 8:28, 36:4; dynamic mechanical analysis (DMA), 125:36; secondary-bonding tests, 36:4
resins, high-Tg (glass transition temperature): and extrudable pastes/Axson Technologies, 128:8; PRO-SET 125/126, 34:18, 34:21, 42:52, 115:62; 116:40, 125:36
resins, low-styrene: AME 5000, 21:60; introduction/Rule 1162 compliance, 25:8, 26:34, 60:3; performance problems, 8:28, 25:8, 26:34; performance/shop practices/troubleshooting, 25:8; secondary-bonding performance, 8:28, 25:8; vs. styrene-suppressed resins, 25:8; waste reduction, 55:26. See also DCPD (dicyclopentadiene) blended, low-styrene resins; resins, styrene-suppressed; polyester-urethane hybrid resins
resins, phenolic: fire-retardant/Ampreg 21FR, 120:38; flying car/Brandt Goldworthy, 122:12; used in RIRM, 48:48; in special edition architectural projects, 81:90
resins, photo-curing. See photo-curing resins
resins, silicone: Axson SVB20 two-part sprayable silicone, 128:8
resins, styrene-suppressed:
resins, summer-grade/diluted: catalysts/hot weather, 2:6, 15:13, 33:46, 33:57, 42:62, 44:30. See also heat/hot-weather boatbuilding
resins, thermoplastic. See roto-molding;
thermoplastic resins; thermoplastics (TP)
resins, thermosetting. See thermosetting resins
resins, thixotropic: blistering potential, 15:60; introduction of, 38:30; vinyl ester, 6:10, 6:16
resin (gram) scale: for measuring catalyst/additives by weight, 30:57, 42:62; sources, 1:18, 30:57; for testing catalyst ratios, 1:6
resin shrinkage. See laminates, marine;
resins, curing/exotherm cycle; also specific resins
resin storage/drum/holders: heated storage locker, 52:81, 55:5; heating drums, 15:13; inert-
gas cap, 15:13; grounding/static discharge, 22:12; large vs. small drums/waste reduction, 28:48; temperature, 33:57. See also drums, resin/gelcoat/chemical
resin surfactants: and secondary bonding, 8:28, 20:32;
types/formulations/performance, 8:28
resin thixotropes: for controlling resin drainout, 33:46, 42:62, 59:30; storage, 59:30. See also Cab-O-Sil; fillers; fumed silica; microspheres/microballoons; resins, thoxotropic
resin-transfer molding (RTM):
alternative/Prestovac, 32:28;
tooling for, 6:52, 26:44, 27:34, 46:16;
vacuum degassing resins/Steven Brandis, 132:50; VOC emissions/waste reduction, 28:48. See also resin-infusion molding
resin-transfer molding (RTM), systems/equipment: Gemini-VR combination gun, 10:52; Hydrajector injection pump, 26:54; Little Willie system, 17:58; Magnum Industries unit/monitors, 10:52; Megaject II injection system, 13:70; SMARTweave resin monitors/sensors, 46:45, 57:88
resin-transfer molding, vacuum-assisted (VARTM). See resin-infusion molding/processing resistance, hull: added, 58:26; appended, 58:26; frictional, 58:26; predicting, 55:32, 56:26, 58:26, 59:56, 59:57; residuary, 58:26; small-craft data sheets, 58:26, 59:56. See also drag/resistance resorcinol: for cold-molding, 51:36
Resources International: apitong marine plywood, 22:56
respirators: Delta disposable, 30:60; Easi-Air 7800S, 3:19, 9:56; hooded 3M “Type C,” 1:68; importance of, 60:5; North, 3:19; Power-Plus, 16:52; review/sources, 3:19; SATA air-supplied (HVLP paint system), 23:54; SideKick air-supplied, 19:59; and styrene exposure compliance, 41:58, 42:5; 3M's respirator for workshops, 76:10; training videos, 15:70; use and safety, 16:4, 69:13; VOC reduction/eliminating, 21:18
restoration, gelcoat. See gelcoat, weathered/deteriorated, causes/caveats/restoration
Restoration Technology: gelcoat restoration system, 15:44
restoration work: Apprenticeshop/vocational training program, 21:12; Hickman Sea Sled, 51:6; J-boats, 52:12; redecking/square-rigger Balclutha, 56:10. See also reconstruction;
refits/retrofits/remanufacturing; wooden ship building/restoration retrofits. See refits/retrofits/remanufacturing Reusable infusion port: closed molding device, 106:92
Revenge Advanced Composites: carbon/epoxy 49' prototype one-off for U.S. Special Operations Command,
149:56; composites engineering/David E. Jones, 149:56; Revenge 45 Light Tackle sportfishermen, 149:56.
reverse osmosis: principles and technology of, 66:26
Reverso: OP-503 oil-change pump/system, 40:66
Rex-Cut Products: Cut-N-Finish grinding discs, 26:54; Type-27 depressed-center grinding wheels, 40:66
Reynolds Aluminum Company: 69:52
Reynolds Number, 140:60
Reyse Marine Ltd.: fabricator of welded aluminum hulls/Naiad Explorer, 61:10
RGF Marine Environmental Technologies: MRS 10 wastewater treatment/recycling system, 44:54; Ultramat waste-water collection system, 21:60; Ultrasorb Mariner 1 water-recycling system, 31:68
Rhebergen Composiet Constructies (Amsterdam): profile, 96:36, 132:34
Rhinoceros: computer modeling program, 63:10, 74:68
Rhode Island: marine diesel excise tax suspension, 45:21; sales tax repeal/impact on marine industry, 37:66, 45:21
Ricard, Robert V.: on estimating speed, 51:6; periodical index, boat design/construction/safety, 36:74
Rice, Tammy: on designing/upgrading interiors, 32:15
Richards, Raymond H.: on the “View from the Helm, Part I,” and on Florida’s landmark professional engineer (PE) licensure decision, 116:4
Ricklefs, Hans: on manufacturing/market for marine plywood, 16:12, 16:20
Ridder, Sven: B&R rig, 53:50
ride-control systems: 61:83
Rifkin, Capt. David and Shafer, James D.: on new technology for testing grounding circuits, 102:4; on other stray current methodology/Dick Troberg, 107:4
Rifkin, David E.: on American vs. European Marketing at boat shows, 115:6; on boatbuilding in advanced economies vs. economically undeveloped nations, 103:6; on scoop-strainer equipped engine seacocks on sailboats and anodic protection for metal strainers, 128:6; on transformers and earth (“ground”) leakage detection systems, 111:4
Rigging Solutions: custom rigger’s trailer with pivot point on brace, 130:10

Riggleman, Jack: obit, 128:8

Right to Know Act: chemical hazards/workers’ rights, 1:30


rigs. See masts and spars; rigging; rigging, stainless steel; rigging, standing; sailing rigs

Riise, Norm: daggerboard and rudder design/catamaran hull shapes, 124:12

Rijk, Nickel G.: on lip shaft seals, 32:4

Riley, Michael R.: on practical impact exposure testing, 145:4


Riley, Noel T.: on the need for professional engineering licensure, 90:4

RIM. See reaction injection molding (RIM)

RINA (Registro Italiano Navale): Green Star certification, 117:26, 119:4

RINA (Royal Institute of Naval Architects): Concept Boat contest/refuse recovery boat/ADS Proyectos Navales, 109:30; Green Star Certification, 117:26, 119:4; handbook, Infusion as a Composite Construction Technique for Pleasure Vessels: Guidelines, 111:12; On the Structural Design of Planing Craft, 157:80; publishers of annual booklet, Significant Small Craft, 61:10; Ribbed 2000 Boat Show, 64:11; RINA Services, 156:4

Rip Tide Designs: Rip Tide 44 sailboats, 74:68; Rip Tide 55 sailing fast cruiser, 45:54, 74:68; RIRM. See Resin Injection Recirculation Method (RIRM)

Rising, Benjamin: on dimpled bottoms, 60:11

Ritchie Navigation Instruments: marine compass, 2:70

Riva, Carlos, 149:10

Riva runabouts: Monte Carlo Offshorer/three plane, two-step hull, 149:10; restoration of/Kazulin Boats, 141:6; restoration of wooden Rivas, 149:10
River Boat Works: hydraulic hoist, 36:20
riverine patrol craft, 61:5; Advanced
Composite Riverine Craft, 146:24; assault
support patrol boat (ASPB), 146:24;
carbon/epoxy 49’ prototype one-off for
U.S. Special Operations
Command/Revenge Advanced
Composites, 149:56; need for all-purpose
riverine craft, 146:24; patrol boat, river
(PBR) and patrol boat, craft (PCF),
146:24.
Riverside Marine (Fort Pierce, FL): and
hurricane damages, 156:54
rivets/riveting: aluminum boat construction,
4:42; failure/Titanic, 58:13; Pop Plus blind
rivets, 13:70
Rizvi, John, author: “A Primer on Patents,”
110:118
R.J. Marshall Company: recycling/open-loop
fiberglass, 60:82
Roanna (lugsail schooner): 63:86
Robbins, Allan D.: on new-boat
surveys/quality control, 35:4
Roberts, David: Nexus Marine builder profile,
23:37, 27:41
Roberts, Josh: on fire protection/compliance,
44:18, 44:25
Roberts, Kim, author: “John Merrifield, 1940-
2005,” 99:120
Roberts, Kim: on post-curing, 14:45; on pre-
pregs, 14:55
Roberts, Ron: plastic waste recycling, 21:12
Roberts, Steven K.: “microship physical
substrate” trimaran, 62:12
Roberts, Tad: on creation and installation of
complex systems, 139:5
Roberts, Tad, author: “Passagemaker Lite,”
81:58
Robertson, Bruce: slap chisel, 23:20
Robertson & Caine (South Africa):
catamarans, 83:50; joint venture
boatbuilding agreement with Flying Eagle
BoatBuilding (China), 119:6
Robertson, Kenny: on core installation, 9:36;
on plywood transom installation, 6:5
Robinhood Marine Center: battery-operated
tensile tester, 131:54; FRP hatch/pre-
molded boss, 42:71; management, 35:25,
64:112; marine batteries, 18:44;
secondary bonding, 39:19
Robinson, Dee: on interior design, 6:39
Robinson Model Basin/model testing, 56:26;
56:38
Robinson, Robby: on molded integral grid
systems, 48:4
Robinson, Robby, author: “Boston Whaler:
The Unsinkable Legend,” 2:24; “The Child
Series,” 53:50; “Winged Skiffs,” 49:74
RoboSail (software): 70:38
Robitaille, Susan: on low-temp pre-preg
construction, 64:82
robotic cutting: at Precision Shapes of
Virginia (PSOV), 66:110
robotics: AAB robots/Pearson Precision
Tooling, 112:10; injection-molding
machine arms/builder sideline, 41:28; for
laminating, 20:8, 6854; nine-axis robot for
hull painting, 91:20; use of in FRP tooling,
66:110
Rockett, Tom: on barrier-coating, 15:13; on
blistering/moisture detection, 23:42; on
secondary bonding/X-layer, 19:44; on
water permeation/blistering, 15:60, 15:63
Rockler Woodworking and Hardware: cast
iron router table, 142:8; steel brackets for
workbench supports, 132:6
Rod on Sailing: Lessons From the Sea,
book, Rod Stephens, author, 119:3
Rodger Martin Yacht Design: Design Challenge/3 Nines camp-cruiser, 135:36
Rogalski, William: on professional engineering licensure, 47:24
Rogers, Mark W.: on high-current DC circuits and configuring an NC-3 panel to meet varying requirements, 93:4
Rogerson, Cameron: Prestovac process, 32:28
Rogue Wave, trimaran, 122:40, 125:3; online “golden oldies” 158:86
Rohan, Neil: secondary-bonding workshop, 47:57
Rolla Propellers USA/Switzerland: eight-bladed propeller, 4:58; tank research/efficiency, 44:38
roll chocks: 67:128
roll-damping: keels/ballast, 23:26; stabilizer systems, 15:70, 36:78
roller, vibrating: for application of bonding putty (foam cores), 9:36
roller brake: making/using, 8:52
rollers, pressure-fed. See resin rollers, pressure-fed
Rollin, R.G., Co.: Solo control cable, 29:58
rolling systems, for hull. See hull lifting/rolling/turning systems; roto-molding
Rolls: deep-cycle marine batteries, 18:44, 19:4
roll stabilizers: 61:83
roll test: as alternative to stability test, 44:5. See also stability, dynamic (positive)
ROMARC: plastic waste recycling, 21:12
ROM Development Corp.: PowerBoard sanding/fairing tool, 24:66
Rome, Cliff: profile/Northern Marine, 57:123. See also Northern Marine
Rondal: manufacturer of spars/fittings/furling systems, 45:47
Ronstan: genoa track-fitted/shackle cars/safety harness, 150:72
Ronzatti, Gerard: designer of waterborne and waterfront structures, 62:12. See also Seine Design.
Roodberg Holland: boat-handling equipment manufacturer, 72:10
rogue waves: the Max Wave project, 93:10
Rosenfield, Paul: on spar design/technology, 3:42
Rosenfeld, Peter: on Common Systems-Installation Errors and wiring batteries in parallel without overcurrent protection, 154:4; on managing high current DC circuits, 91:10; on Plumbing the Depths/diagram employing a relay switch for large capacity pumps, 148:4
Roseway, cutter: on-station vessel for Boston pilots, 150:34 See also Timberwind, cutter.
Rossel, Greg: on speed measuring, 63:5
Ross, Neil: environmental workshops, 38:51; on waterborne waste reduction, 29:4
Rosvold, Marius: on impact tolerance/aramid (Kevlar) vs. carbon fiber, 45:5
rotating systems. See hull lifting/rolling/turning systems; roto-molding rotational molding. See roto-molding
Rotenberg, Jon: on sailboat market, 6:20
Roth, McKie Wing Jr.: boatbuilder, architect, 66:3
roto-molding: computer applications, 29:33; Crosslink 3 system/Old Town, 10:34, 11:20; kayak construction, 29:33; largest fully-rotating hull mold/Delta Marine Industries, 94:32; LLPDE/world’s
largest/Logic Marine Corp., 56:10; Old Town Discovery canoe, 4:34, 4:40; polyethylene tanks, 52:18; Technothrene/multihulls/playboats, 54:18; tooling for, 10:34, 11:20; Windrider trimaran, 52:12; WindRider 17, 135:46
Rousmaniere, John: on design of Australia II, 122:6
router, air-driven: Festo (DiaTrim), 5:26
router bit: split-helix/for Kevlar laminate repairs, 43:83
rowboat: offshore voyaging rowboat/Eric Sponberg design, 161:56. See also Murden, Tori
rowing shells. See shells, rowing/racing
Royal Crown Yachts: advanced-composite high-speed ferry, 75:78
Royal Denship (Denmark): 65:11, 67:13
Royal Huisman Shipyard: Athena schooner yacht, 101:32
Royalex: composite canoes/We-no-nah, 49:36; vacu-molded boats/Old Town, 11:20
Royal Huisman Shipyard: builder profile/megayacht Anakena, 45:47; paint booth technology, 42:20, 42:24
Royal National Lifeboat Institution: Tamar class lifeboat/Green Marine, 123:32
Royal Ocean Racing Club (RORC) rule: 61:77
Roy, Franck: classic small boats replicas, 131:12; Joli Morgan design, 131:12
RTA (ready-to-assemble) techniques/applications: interior cabinetry/furniture, 40:42
RTM. See resin-transfer molding (RTM)
RTM Systems, Inc.: composite roller-cutter, 10:52; Megaject II RTM injection system, 13:70
rubber: hose, 49:16; structural adhesive for, 41:44
rubrails: glow-in-the-dark rails/Barbour Plastics, 115:18; molded polyurethane, 52:43
Rubrail Tool, 71:6
design/survey/repair, 34:52; configuration for planing hulls, 99:34;
construction/Pacific Seacraft, 10:20;
corrosion prevention, 54:70; design principles of, 95:76; fishtail rudders, 102:60; foil/foil lift and drag characteristics/applications, 95:76, 102:60; formulas for calculating water pressure on rudder/rudderstocks/rudder bearings, 99:34, 100:92; “get-home” propulsion system/Bayview Auxiliary Tug (BAT), 106:92; iroko, plywood, and glass epoxy rudder/Didi 38 design/Dudley Dix, 149:20; Harrison Patent Rudder, 102:60;
high-lift rudders, 102:60; inboard vs. outboard rudders, 98:76;
installation/Pacemaker, 29:72; Kitchen Rudder, 102:60; Kort nozzles, 102:60; MacLear Thistle Rudder, 102:60;
See also steering systems
rudder bearing: Strong ultra-high molecular weight polyethylene (ULMW-PE), 39:98, 46:26; single-bearing installations, 116:18
rudder blades: RTM production of, 27:39; propeller apertures for, 100:92; rusted weld in rudder blade failure, 80:40
rudder/rudderstock: flat-bar installed on wrong side of rudder/Chris-Craft Commander 27, 156:54
Rudow, Lenny: on sportfishing boat layouts, 79:8; on Boating’s performance tests, 85:4; on changing boat test data/powerboat performance tests/Boating magazine, 89:4
Rule 1106.1: amendment, 60:11
Rumery’s Boat Yard: bottom paint removal/waste collection, 31:10, 31:16; repairs and refits, 75:112
runabouts. See powerboats, runabouts/cabin cruisers; powerboats, small runabouts/racers
running lights: Extended Range, 36:78
Rushton canoes: double-paddle sailing canoe Vesper, 97:60
Rusinek, Ken: on meeting Augusto “Kiko” Villalon, 115:6
Russell, Mike: on secondary bonding/Navy specifications, 20:37
Russell Yachts: 48’ cat-ketch/DuraKore strip planking, 15:34

Professional BoatBuilder

INDEX • 257
Russia: internship program, 35:52; stepped hulls, 49:42
rust: rust-preventive paint, 8:54
Rust, Randy: Westport Shipyard/outsourcing, 37:16; Westport Shipyard/transition to yachts, 40:24; 62:26
Rust, Rick: on bedding putties (foam cores), 9:36; buyer of Westport Shipyard, 62:26
Rutherford’s Boatshop: varnishwork, 19:36
Ryan, Jim: B&R Designs, 53:61
Ryan, Peter: on rudderstock calculations for Brave-class fast patrol boat, 104:4
Rybovich/Rybovich Spencer: accessories/hardware/ancillary equipment, 14:26, 14:32; builder profile/construction details, 25:42, 25:49; Express 42 walkaround sportfisherman, 87:16; Hargrave designs, 43:36; management/in-house training, 35:25; 172’ megayacht refit, 51:11; Miss Austria refit, 69:13; plant layout, 25:44; Rybovich Rendezvous, 114:10; sportfishermen, 25:42, 25:49; stepped 30’ Rybo Runner, 5:52; stolen model hull, 114:10; varnishwork, 19:36; weight reduction, 29:8
Ryder Boats: simple infusion set-up, 132:3
Ryd's Batindustri AB: recycled-fiberglass boat construction, 60:82
Ryobi: AP-10 portable thickness planer, 12:60
S Number: origination of, 129:8; and multihulls, 131:12
S2 Yachts: design mock-ups, 9:28; honeycomb cores, 22:20; plant layout/air filtration system, 28:48
Sabine-Neches Boatworks: 56’ cat-ketch/DuraKore strip planking, 15:34
Sabre Yachts: air tools, 33:58; designing for production, 2:60; design mock-ups, 9:28; laminating techniques, 3:54; North End Composites acquisition, 44:35; OSHA compliance (emissions), 11:34; profile/handling rapid growth, 11:34, 11:39; ventilation/shop safety, 3:19
SAFE Boats International: Defender-class RB-5, 85:64; defense contracts for aluminum boats, , 85:64; 87:4
Safeguard Technology Inc.: nonskid step/walkway covers, 45:105
safety factors: in calculating stress and/or deflection in boat structure or part, 72:22; for interior design, 118:30; in pilothouse or helm station functions, 114:30, 115:36, 159:56, 160:4; implicit, 72:22
safety gear. See personal protective gear
safety glasses: importance of, 60:5; review/sources, 3:19, 66:5
safety information: warning labels/owners’ manuals, 15:50, 21:12, 27:46, 44:13. See also product data sheets; material safety data sheets (MSDS); product liability; worker safety/occupational health
safety inspections: liability issues/Bayliner, 15:50; Site Safety Inspection Report, 125:72. See also OSHA (Occupational Safety and Health Administration), regulations

S&J Products: Elektralink terminals, 30:60
S&S Specialists: secondary-bonding techniques/ATPRIME primer, 20:32
SMC (Sheet Molding Composite): molding for car body parts, 60:82; vs. boat recycling problems, 60:82. See also recycling programs

INDEX • 258
43:44. See also dinghies, sailing; keels, ballast; masts and spars; sailboats, offshore cruising/racing; sailboats, offshore racing/performance; sailboats, racing skiffs/daysailers. See also Cape to Rio Race.


SailBots: U.S. Naval Academy/Paul Miller, 126:8

sailcloth: Vectran, 41:58

Sail Expo: boat show, 30:48


sailing: education program/PACT 95, 31:62
sailing rigs: B&R rig/Child series, 53:50, 53:61; cat-ketch/free-standing (unstayed) wingmasts, 55:44, 55:46; costs/considerations, 154:48; crab claw, 57:15; custom rigger’s trailer with pivot point on brace/Rigging Solutions, 130:10; elliptical plan form for a sail rig, 80:4; DynaRig/Valsheda, 141:50; Kelsall Cat Rig, 136:10; ketch vs. sloop rigs, 142:80; rigid-wing, 53:12, 136:10; triangular stayed rig/induced drag, 55:44; twin unstayed/wave-piercing catamaran,
58:13; weight control/simplicity/reliability, 55:112, 154:48; X-2 Concept/Harbor Wing Technologies, 136:10. See also masts and spars; rigging; rigging, stainless steel; rigging, standing
Sailorman: used marine hardware/recycling, 60:82
sail-straight boats, 148:10
sail track/slides: Strong Sail System, 39:98
sales: at boat shows, 36:60; pre-boat-show, 36:60. See also dealers/salespeople; marketing/promotion
salespeople. See dealers/salespeople
sales tools. See marketing tools
Salthouse Boatbuilders (New Zealand): AC72 catamaran/Emirates Team NZ, 140:7; Southstar 37 semi-custom picnic-style motorboat, 114:10, 140:7; Vaka Moto and Vaka Moana/sail and photovoltaic-powered catamarans, 161:48. See also Naval DC, Czap, David, De Stille Boot
Salthouse Brothers (Auckland): Carl Moesly designed ketch, 91:116
Salthouse, Delayne: on identifying names and duties of Greg Salthouse/Salthouse Boatbuilders, 142:4
SAMS. See Society of Accredited Marine Surveyors
Sandaro Industries: Top Cote, 24:62
sanders: Bosch high-speed, 1:68; Festo (DiaTrim) air-driven, 5:26
sanders, belt: Porter Cable Model 360-Series, 13:70; Tooolympics, 50:11
sanders, disc: sanding-disc attachment systems, 23:54
sanders, finishing: Dynaline/for molding, 42:74
sanders, flexible: Flexisander, 150:72
sanders, hand-operated: Bulldog dust-free sander, 84:10
Sanding Sticks, 35:58
sanders, orbital: Black & Decker palm-grip, 3:60; Dynaorbital random-orbit wet-sander, 17:58; Super Hand 100 A pneumatic, 10:52
sanders, pneumatic DA (dual-action): applications/types/shop techniques, 33:58; Dynabrade, 33:58, 33:64; Fein portable vacuum, 84:10; Sioux, 33:64
sanders, right-angle: Dust Muzzle dust collector, 19:59
sanding discs: Bulldog sander and Abranet discs, 84:10; hook-and-loop, 23:54; pressure-sensitive, 23:54; simple plywood box for, 106:10
sanding/fairing tool: PowerBoard, 24:66
sandpaper: long-lasting/Perma-Sand, 18:54; for LP systems, 19:12; for plug construction, 3:34
sanding techniques: for gelcoat restoration, 15:44; grinding box for in-the-water FRP repairs, 75:14; for plug construction, 3:34, 59:76; for repairing advanced-composite laminates (scarf-sanding/taper-sanding), 43:54; for revarning, 19:36; for secondary bonding, 20:37; wet, 15:44, 59:76. See also dust extractors/collectors
Sandridge, Glenn: on on-location video production/costs, 22:42, 22:45; on video production/use, 16:22
sanitation. See head, arrangements/design; holding tanks; toilets, marine
San Juan Composites: retrofitting molds/San Juan powerboat, 121:62
SanJuan Yachts: profile of, 107:52
Sanok, Christopher: on Marine Maintenance Technology program at Skagit Valley College, Oak Harbor, WA, 81:6; Sanstad, Gordon P., Jr.: on Vic Franck Boat Co., 67:5; on Wood Construction Center educational programs, 67:5
San Pedro 25: and Northwest School of Wooden Boatbuilding, 137:44
Santronics, Inc.: AC tester, 34:59; DC tester, 34:59
Saraga Enterprises: Lenco trim tabs, 7:64
Sarin, Jack: designer/patrol boat, 60:11; and Westport Shipyard, 62:26
Sassacus (Tricat fast ferry): 62:87
Saunders Yachtworks: maintaining a personal touch/good customer relations, 148:38
Sausalito Yacht Harbor: rolling boat cradles, 54:18
Savitsky, Daniel (Dan): resistance prediction method, 56:26, 59:57; profile of, 126:64; floats for waterbased aircraft, 126:64; Russian WIG (wing-in-ground effect craft/"Caspian Sea Monster," 126:68; Savitsky’s Calculation Procedure (1964), 145:30; Ski-Cat foil-assisted power catamaran, 126:64
Savitsky, Daniel (Dan), author: “Savitsky’s Own Rationale Regarding His ‘Method’,” 126:68; 128:3, 131:12; using concavity for lift vs. prismatic solution/Clayton Jacobson, 149:04
saw, band-: Artisan 43/rip fence, 21:60
saw, bench: Delta, 1:68, 45:105; Sidekick Saw Stand, 45:105
saw, circular: Karbid Kutzall blades, 11:52; Portable Panel guide/tracking system, 19:59
saw, cross-cut: Quik-Cut, 14:57
saw, cutoff: extractor shrouds for, 28:38
saw, hole-: cutting techniques for sample cutouts/coupons, 49:24, 49:25, 49:27
saw, miter: compound, 3:60
saw, rip-: Quik-Cut, 14:57
saw blades: carbide-tipped/laminate repairs, 43:54; carbide-grit-coated/Sterling, 12:60; circular/Karbide Kutzall SSG, 11:52; diamond-grit/laminate repairs, 43:54
Sawstop, safe saw, 120:4
Scaffolding: snap-together system/Layher and Plettac, 144:48
scale. See resin (gram) scale
Scan Marine: cabin heaters/carbon monoxide protection, 45:32
Scandinavia: boatshop safety, 1:30, 2:67
Scandvik, Inc.: Andersen winches, 5:26
Scanmix Corp.: marine faucets/shower mixers, 30:60
scanning electron microscopy (SEM): 87:62
Scarano Boat Building: America replica/T-boats, 36:22
scarfed-seam repairs: for advanced-composite single-skin laminates, 43:54, 45:5; for deck, 37:48; for transoms, 69:70
scarfing jigs: for composite panels, 13:43; Scarffer, 13:43
SCAT: foil trimaran prototype, 75:14
Schad, Robert: Husky Airboat, 53:12
Schaefer, Jr., Kenneth L.: on two-speed gearboxes, 76:4
Schaper, Ron: on salvaging drowned engine, 48:4
Scheherazade (ketch): Hodgdon Yachts profile, 70:58, 153:20; keel cast for, 96:72, 156:70
Schickler, Doug, author: “Flight Engineering,” 156:40
Schickler Tagliapietra Yacht Engineering: Gunboat’s G4 foiling catamaran project, 156:40
Schieferman, Louis: three-legged hoist, 36:20
Schiller Bikes: NuVinci three-speed transmission/Fallbrook Technology, 154:4; Schiller X1 marine-grade pedal-powered watercraft, 153:8
Schindler, Bo: builder profile/Freeman Marine marine closures, 41:62
Schlieker, Dean: on analyzing accelerations, 140:34, 141:4; on wet balsa core, 99:4; 100-knots Yacht/graphs corrections, 104:4, 105:4; and First Chesapeake Powerboat Symposium, 116:40
Schmidt Manufacturing Company: Accustrip soda-blasting equipment, 7:13
Schmitt, G.G., & Sons: transom door hatch, 3:60
Schmoke, L. Joseph: on used-boat market, 112:4
Schnell boat: efficient underwater exhaust system for, 90:34
Schoell, Harry: Alim V-20 design, 160:16; Delta Conic hullform, 155:20, 160:16; designer/Alsberg Junior, 60:11; on Durakore construction, 15:34; and Jim Gardiner, 120:62; profile of/inventor/boat builder/designer, 160:16; Rankine-cycle steam engines/silent/multi fuel capability, 160:16; speed-estimating formula, 49:54; stepped powerboat designs, 5:52, 7:5; trimable surface drives/Pulse Drive,
160:16; Trojan 10 meter/Delta Conic hull, 160:16; water-powered test tank, 160:16
Schoell Marine: Infinity Yachts, 47:34
Schofield, Robert A. (Rob): on fiber orientation/taping and tabbing, 29:45; on plywood vs. fiberglass stringers, 42:5; profile, 40:3; proposal to Florida State Legislature/professional engineer licensure, 98:112; on scarf ratios, 36:34; on secondary bondline preparation/taping and tabbing, 39:19; on structural standards for recreational boats, 64:5; 65:5
Schofield Composites Technology: composite repairs/patching, 36:34
schools. See education
Schooner Creek Boatworks: profile/super-light wood-sandwich construction, 55:79
Schramm, William (Bill): on DCPD resins, 8:28; on low-styrene resins, 1:30
Schroth, Fred: on surveyors in the boatyard, 69:5
Schubert, John J. (naval architect): obituary, 65:5
Schumacher, Carl: Cepheus IX daysailer/Boston BoatWorks, 139:18
Schwarzel, Peter: on fabrication failure in aluminum and crater cracks, 139:5; on high-elongation resins, 63:5; on hull design loads for framing and structural analysis, 70:5; on repairing infused laminates and no-bleed infusion systems, 110:4; on repairing single-skin laminates, 69:5; on structural standards for recreational boats, 65:5
Schwebke, Robert: founder of Mako Marine/obit, 158:8
Schweikert, Gram, author: “Fourth Generation 44,” 121:88. See also Miller, Paul and Pedrick, David.
scissors, ceramic: for Kevlar, 16:52, 28:18, 56:61
SCMVE (Seemann Composites Modified Vinyl Ester): hybrid vinyl ester, 58:36
Scot, Marianne, author: “Cars, Boats…Same, Same,” 106:10; “Made In Turkey,” 102:34
Scott, Edward: on professional engineer licensure, 101:4
Scott, Marianne, author: “Hanse,” 91:236
Scott, Robert: Fiberglass Boat Design and Construction/review, 47:66
scraper: Pro-Prep quick-change blades, 82:8
scratch testers: for testing gelcoat hardness, 5:23, 5:26
screw-pad trailers: 63:54
screws. See fasteners
screws, self-tapping: Click Bond, 147:6; length of vs. machine screws for applications, 152:58; for shoebox hull-to-deck joint, 60:104; tapping bar, 60:104; vs. adhesives for wiring and systems mounts, 145:48
screws, square-drive: source, 35:58
screws, wood, removing/extracting: Fuller plug cutter, 23:20; T & L extractor, 24:58
scrieve board: use of for aluminum frame welding, 151:82

Sea, Roy L.: on Burger/Tacoma/Manitowoc Boat Works, 13:4


sea chests: built-in/FRP, 54:62; custom sea chest with model filtering screen, 139:5. See also sea valves

seacocks. See sea valves (seacocks)

Seal Cove Boatyard: environmental/boatyard waste management, 27:8; HVLP spray system, 34:35. See also Vaughan, Robert.

Sea Craft: profile of and Carl Moesly, 91:116

Sea Frost: HFC-134a refrigeration systems, 22:56

Sea Grip: aerosol-propelled solventless spray adhesives, 86:14

Sea Hydro: outboard hydroplanes, 59:10

Sea Island Boat Builders: Commuter 36 hullforms/Reuel Parker, 130:20

SeaKits: document- and boat-management program, 122:52

Sea Land Air Technologies (SALT): DC monitoring system, 33:75; ozone-clean marine refrigeration systems, 26:17

SeaLand Technology, Inc.: Vacuum Holding Tank, 55:99; Vacu-Flush marine toilet, 4:58

sealant remover: Sika, 2:70

sealants: acrylic (for gelcoat), 15:44; classification/definition, 28:27, 60:104; for marine hose installation, 51:6; mastic/vacuum-bagging, 1:58, 1:64; “nonbubbling” urethane teak seam sealant, 67:13; for threaded applications in wet environments, 126:6

SeaArk Boats: profile, 69:52; use of environmentally friendly Epaint, 105:106

SeaArk Marine: profile of 69:52: Commander and Dauntless military boats, 121:78

sea chest: custom sea chest with removable moenl screen, 137:34

Sea Craft: profile of Carl Moesley founder, 144:36

SeaDek, closed-cell EVA foam, 125:20

Sea Island Boat Builders: pilot schooner Spirit of South Carolina, 109:17
Sealegs (New Zealand): add-on wheels for boats, 156:12

Sea Level Yacht Design & Engineering: “young designer” award, 110:12

Sea Ray Boats: and Airpax ED&D systems for production boats, 105:78; Cornelius Nathaniel Ray, founder, 123:10

Sea Shepherd Conservation Society: Cable and Wireless Adventurer/Brigitte Bardot/Nigel Irens, 145:100

Sea Ski Australasia Ltd.: sea skis for small boats, 159:10

sea trials: goals/preparation/checklist for, 145:56

Seaway Boats (California): Bob Stapp, founder, 99:20

sealers: for metal/tools, 24:62; for varnishing, 19:36; Z-Spar, 19:36

Sealight Boats: non-molded thermoplastics, 10:40

Sea Nymph: switch to non-CFC foams, 2:28

seaplane: flightless/Xtreme Xplorer, 57:15; turbine-powered seaplanes and salt water, 126:64; slotted-nose hydro-ski/Daniel (Dan) Savitsky, 126:64


Sea Ray Boats: composite stringers/PRISMA, 41:62; custom industrial plywood, 16:12; dust-control systems, 28:38; EC (EU) certification process, 41:38, 41:41; interactive marketing, 36:74, 73:120; and ISO scantlings, 63:38; and Powerboat Reports controversy, 96:3; Polylite Profile tooling resin system, 16:52; shrink-wrapping/recycling program, 18:28; structural adhesives, 28:27; two-speed gearbox option on 410 flybridge cruisers, 71:123; and wet-core problems study, 96:16

searchlight: remote-control (Ray-Line 255S), 7:64

Sea Recovery Corp.: watermaker, 3:60

Searles, Noel B., author: “Gelcoat Repairs,” 90:94

Searles, Noel B.: on engineered putties, 42:5; on gelcoat maintenance/ restoration, 15:44, 65:5; on secondary bonding, 20:32

Seatek engines: and co-developer Fabio Buzzi, 133:84, 134:36; 600-hp diesel, 13:70; Seatek 1,100-hp turbo diesels, 46:38, 46:43

Seaton, Stephen: designer/Long-Range Cruiser (LRCs), 57:123; Ted K trawler-yacht/Waterline Yachts, 83:72

Seatorque Control Systems: bolt-on propulsion system (BOSS), 128:8

sea trials: ABS/LR classification, 39:80; Bertram Yacht, 39:70; conducted indoors, 51:11; documentation, 12:10; measuring speed, 46:52; vs. model testing/resistance, 58:26

Storm interceptor suspension seats/Ullman Dynamics, 152:36; Tecno G10 and G12 modular seats/FB Design, 134:36, 142:4; three-way seats, 75:14

Seattle Central Community College: vocational training program, 20:26; Roy Kobayashi, 94:8


Seawanhaka Rule, 61:76

Seaway (Slovenia): Greenline 33 Hybrid motoryacht, 147:10; and SPRINT technology, 79:114

SeaWolf Design Group Inc.: on blister prevention/resistance, 15:13, 15:60; impact-resistant filler (transom repair), 12:60; poured-core transom repair, 32:45; Seacore sprayable syntactic foam, 7:50, 7:62


seaworthiness: builder’s contracts and, 37:60; definition/survey reports, 34:55, 36:74, 37:13; flooding and sinking resistance, 140:80; safety factors in cockpit design/swamping, 93:98

Sebago: racing trimaran, 62:46

fibracris/reinforcements, taping and tabbing; filleting; gluing

Seemann, Bill: on aluminum-fiberglass hybrid construction, 17:19; SCRIMP, 32:28. See also SCRIMP (Seemann Composites Resin Infusion Molding Process)

Seemann Composites: Advanced Composite Riverine Craft, 146:24; air transportable modular bridge/U.S. Army prototype, 146:24; VARTM fabrication technology/testing, 48:35, 79:114, 108:100; work with Materials Sciences Corporation, 146:24. See also SCRIMP


Seifert, Bill: on corroded water tanks, 132:4

Seine Design: designer of waterborne and waterfront structures, 62:10

Seither, Erik, author: “Staying Upright by the Rules,” 150:88

Selden Mast (Gothenberg, Sweden), 82:58

SEMicro Corp.: PATTI (pneumatic adhesion tensile test instrument) meter, 49:59, 87:62; scanning electron microscopy (SEM), 87:62

semi-tunnels on high-performance hulls, 108:16

Semler, Kathleen: on Abaris Training Resources advanced composites eminar, 30:4

Seng, Wong Kok: on purchase of Pacific Seacraft, 10:20, 10:33

Senkewic, Walt: CAD/CAM systems implementation/study, 58:13

Senning, John: on survey reports, 30:26

Senter, Robert: comments, electronically controlled engines, 67:5; on Diesel Fuel in Flux, 159:4

Sepel, Jim: on surveying standards and common sense, 122:6

Seren, Dr. Daniel: on Destriero/fixed or variable trim tabs/directional stability fins, 111:4

Series 62: study of the hydrodynamics of planing craft, 128:18; interview with Donald Blount, 128:18

Service manuals: recalling those from previous eras, 157:14

SES (surface-effect ship): FastCat ferry, 75:78; Harley and Burg designs, 48:6; minehunter, 65:84; catamarans, 96:6

Setley, Claude: on vinyl esters/secondary bonding, 20:32

Seven Marine: world’s largest outboard motor, 138:6; and ZF Marine/joystick docking system, 138:6;

sewage: illegal dumping, 27:61

Sextant Systems: boatyard software, 3:60

shackle cars: Ronstan genoa track-fitted, 150:72

Shafer, James D.: on marina electrical safety, 105:4

Shafer, James, Dr. and Rifkin, Capt. David: on new technology for testing grounding circuits, 102:4

shaft. See propeller shaft/drive shaft

Shakespeare, Bill: on engine management systems, 14:34


Shapco: self-pleating system (for curtains), 32:15
sharks-teeth: painted bow symbol/Delaware pilot boats, 150:34
sharpener: for whetstones, 1:68
Shaw, John: on composite flat-panel construction/Shaw Boats, 45:54, 45:59
Shaw, William (Bill): on designing for production, 2:60; on interior design (Pearson), 6:34; obit, 104:12
Shaw Boats: composite flat-panel construction/Rocket Science, 45:54, 45:59, 45:62
shearography, 124:26, 128:50, 155:38; for honeycomb cores, 155:38; stressing techniques/vacuum/heat load/dynamic excitation, 155:38; vs. ultrasonic testing, 155:38
shears, ceramic: for Kevlar, 16:52, 28:18, 56:61
shears, pneumatic: applications, 33:58, 33:64
shears, power: Black & Decker Industrial, 21:60
shed: see-through shed at International Yacht Restoration School, 101:24
sheer, planar: lofting, 27:4
sheet material. See countertops/panels
Shell Chemical Co.: diacetone alcohol (DAA-FRP) resin cleaner, 25:59, 33:20
Shell, Justin, author: “Love of the Game,” 133:128
shells, rowing/racing: design/tank-testing/composite engineering, 14:45, 41:28, 41:30; Composite Engineering, 41:28, 41:30, 57:30; Felker Racer, 4:30; Resolute/Eric Goetz, 54:18
shelters. See boat sheds/shelters; paint shop/spray booth
shelving, modular: W.W. Grainger, 17:34
Shepherd, Maury: Quick Draw bagging film (VARTM), 32:28
Sheppard, Kris: on power catamarans, 45:120; on productivity/Grady-White, 29:29
Shepstone, Stephen: on keel attachment/fasteners, 40:4
Sherman, Ed: on European whole-boat fault current protection, 98:4; on testing grounding circuits, 102:4; on isolation transformers and ground fault protection devices, 105:4; response to Peter Rosenfeld on overcurrent protection and destructive current flow, 154:4
Shidler, Steve: power trimaran, 50:11
Shipbuilders Council of America (SCA): address, 4:20; efforts/membership, 4:9
shipbuilding. See metal construction; wooden ship building/restoration
ShipCAM: lofting/parts generation software, 17:58, 38:47, 61:102
ship motion simulator: introduction by Feadship, 67:13
shipping container: as traveling boatyard, 21:38
ship saw: at Lyman-Morse Boatbuilding, 115:56
ships: vs. boats/design and engineering criteria, 47:24. See also wooden ship building/restoration
shipwrights: job market, 21:42
Shipwrights, Inc.: Mermaid Turbo-four engine, 15:70
shock-absorbing cockpit and hull, 143:10, 149:56; hull shape and angle, 149:56
shock-absorbing seats, 114:10
shock-mitigating seats, 70:66, 146:80, 149:56, 155:10; for 44-FCI (Fast Coastal Interceptor)/Tampa Yacht Manufacturing, 153:8, 161:20; at military boat-and-equipment show/MACC, 121:78; impact testing/Boomeranger Boats Oy, 142:52; new ISO working group, 146:80; Seaspension seat pedestals, 155:10; Shoemaker, Jim: on drawing and lofting, 106:4
Shook, Gerald D.: on photo-curing resins/RTM development, 19:4; on scarfed repairs/FRP laminates, 45:5; on wax migration, 21:4
Shook, Michael: on AeroHydro's SurfaceWorks for 3D solid modeling, 68:5
ShopBot Tools, Inc.: simple CNC router, 57:15, 61:102, 77:82
Shore "D" scale: testing laminate/gelcoat hardness, 5:12, 8:4, 42:62
shore power: arcing faults/shore power plug, 134:54; benefits of isolation transformers, 103:174, 138:18; easily-engaged lock (EEL) power cord, 138:8; and galvanic/stray-current corrosion, 32:36, 105:96, 107:4, 138:18; Bender Monitor/shore power cord, 94:84; in-the-water electrical hazards, 94:84; toroid-wound transformer, 103:174. See also AC/shore-power systems
Shore tester (durometer): for laminate/gelcoat hardness testing, 5:12, 8:4, 42:62
short beam shear test: ASTM D2344, 87:62
showers: head arrangements, 5:50; mixers, 30:60; shower-tub units/diversification, 37:16
shrink-wrapping: applications/techniques, 18:28, 18:33, 144:48; costs, 18:28, 18:36; effects on gelcoat, 15:44; environmental concerns/recycling, 18:28, 18:33, 21:12, 33:69, 144:48; for boat transport, 63:54; held by gunwale strip, 28:32; materials/sources, 18:28, 18:36; moveable containment structures, 144:48; plastic used for boat shelters, 35:15. See also Yacht containment systems.
Shyodu Instrument Co.: Matheson-Kitagawa Toxic Gas Sampler, 7:64
Seidman, David: on powerboat performance tests, 83:4
SIDER (Structural Irregularity Damage Evaluation Routine), 124:26
Siewert, Greg, author: "Industrial Design," 92:88
Siewert, Greg: Sterling Atlantic 43 motoryacht, 103:14
Sigma Technology Labs: standardized composites testing, 4:27, 28:27, 34:42, 50:46
Signature Productions: videotape production, 16:22, 22:42
Sika Corp.: Sikaflex 241 adhesive/sealant, 28:27, 33:75; Sikaflex 252, 29:8, 33:75; Sikaflex 255C, 29:8; Sikaflex 292, 33:75;
Sika Sealant Remover, 2:70; SikaTack Ultrafast, 29:8
Silent Boat: De Stille Boot, 161:48; Salthouse Boatbuilders/sail and photovoltaic-powered catamarans, 161:48; using NASA data, 161:48
silicone bag: for SCRIMP, 31:42
silicone caulk: cautions (marine wiring), 8:12; remover, 2:70
silicone grease: for electrical systems, 8:12
Silk, George: on Richard Fisher (Boston Whaler designer), 2:37
Silvia, Walt: 87:46
Simmons, Bob: on paint booth design/construction, 37:42, 42:20, 42:24, 45:47
Simmons, Jack: on recycling FRP laminates, 60:82
Simons, Eldon: yard tugboat, 42:34
Simpson, John: “Christmas tree” jig/joggle stick, 23:20; designer of Naiad Explorer, 61:10
Simpson Timber Company: marine-grade plywood market, 16:12, 16:20; MarinePly panels, 16:20
Sinek Yachts: ice-navigation boats, 34:55
Singmarine Industries Ltd.: purchase of Pacific Seacraft, 10:20, 10:33
Sinicissen, Ron: on specialty plywood panels, 16:12
Sinks: head arrangements, 5:50
Sintes, Dave: on lofting/CAD, 7:18
Sintes, Fiberglass Designs: lofting/CAD, 7:18
Sjoblom, Peter: GENLAM laminate analysis software, 47:53
Skagit Plastics: molded integral grid systems, 48:4
Skagit Valley College: maintenance technology program, 23:50
Skalar Systems: CNC (numerical cutting) equipment, 32:52
skiffs: fiberglass: hull plugs (Tashmoo 24), 16:7
skiffs, flats. See flats-boat market/flats, skiffs skiffs, plywood: Nexus Marine, 23:37
Skipjack boats: Rule 1162 compliance, 25:8
SkipperLiner Industries: commercial vessels/T-boats, 36:22, 36:33
Slane, Tom: profile/Slane Marine/accounting system, 57:74, 57:76, 57:80
Slane, Willis: founder/Hatteras, 43:36, 57:7
Slane Marine: profile/FRP retrofits and repairs, 57:74, 57:76
prediction, 46:62, 58:26; propulsion systems/efficiency/propeller tunnels, 44:38, 44:45, 46:5; stability standards/testing, 42:26, 44:5, 47:63, 54:98; transatlantic voyage/3’11” boat, 53:12; 20th century gunboats/combatant craft, 52:3, 52:43, 52:51. See also canoes; jet boats/jet skis; kayaks; personal watercraft (PWC); pleasure boat market/design considerations; powerboats, small runabouts/racers; powerboats, utility skiffs; sailboats; sailboat market/industry; shells, rowing/racing; skiffs
small parts: vacuum-assisted molding of, 30:18, 32:28, 46:16
small passenger boats; T-boats, 36:22, 36:32, 37:4, 38:4, 39:4. See also Subchapter T boats
small yachts: classification/scantlings, 39:80, 48:8, 48:9, 48:14
SmartTool Technologies: SmartLevel electronic digital level, 14:57, 42:26, 42:32, 44:5
SMARTweave: sensor system for tracking resin flow, 46:45, 57:88
Smead, David: on battery recharging/wiring/cable, 19:50, 22:4; on stepped voltage regulators, 20:50
Smith, Buck: Glas-Craft/early spray equipment, 38:30
Smith, Gary: Glas-Craft/early spray equipment, 38:30. See also GS Manufacturing
Smith, Jim, Boats” Tricel paper honeycombs, 32:52
Smith, Timothy G.: on small-craft design/engineering/licensure, 51:6
Smullin, Joe: on engine/genset mounts, 34:26
Snadecki, Bill: Adams 36/stealth lobsterboat, 51:96
SNAME. See Society of Naval Architects and Engineers sniffers, styrene: gas samplers, 7:64
Snow, Dennis: obituary, 47:15
Snow, Dennis, author: “A Time to Join Forces,” 18:64
Snowmobiles: planing, 54:18
Snyder, Dick: on owners’ manuals, 27:46
Society for the Advancement of Materials and Process Engineering (SAMPE): membership/symposium, 58:52
Society of Accredited Marine Surveyors (SAMS): accident-investigation seminar, 26:51; professional qualifications/skills, 162:6; survey report guidelines, 55:71; web site, 41:58
Society of Automotive Engineers (SAE) standards: engines/boat noise, 43:75; engines/horsepower ratings, 59:56; engines/safety, 36:48; exhaust hose, 49:16; exhaust systems/safety, 43:44, 49:16
Society of Boat and Yacht Designers: membership/address, 7:5
Society of Naval Architects and Engineers (SNAME): construction standards, 38:14; fire equivalencies for aluminum, 62:41; Hann award/CAD/CAM implementation study, 58:13; information exchange, 33:88; licensure/Professional Engineer, 43:3, 47:24, 51:6, 56:53, 56:55; program/membership, 24:58, 47:24;
propeller matching program/publications, 46:52; small-craft data sheets/resistance, 58:26; small-craft design/engineering, 51:6, 56:53, 56:55; small craft design manual, 44:46; 48:4; small-craft power prediction, 46:62; small-craft software resources, 7:25; standardized composites testing program, 32:3, 34:42, 34:48, 36:4

SoelCat 12 multihull, 161:48; Solar Sailor ferry/Australia, 117:26; Solar Splash competition, 97:10; systems training/certification, 57:99; Wally Island yacht with trees/Monaco, 117:26

solar panels: wiring for, 36:41, 39:56

solar power: systems training/certification, 57:99

Solar Splash Competition: for lightweight solar-powered boats, 97:10


solenoids: for battery paralleling, 20:50, 39:56; for valves, 3:63

Solomon Technologies: “Electric Wheel” and Whisperprop diesel electric propulsion system, 102:4; propeller generating electricity/“regeneration,” 109:140

soil heater: for water-based resin cleaners, 2:70

solvents: contaminant removal/paint adhesion, 37:36, 52:67; contaminant removal/laminate repairs, 52:67; entrapment in laminate/detection, 23:42; incineration, 28:48; managing waste, 28:48, 28:52; ratio to resin/VOC reduction, 20:40, 21:18; unreacted/moisture meter readings, 60:48. See also acetone; DBE (dibasic ester) solvent; styrene; toluene; xylene

soil solutions, low-volatility: water-based, 2:70, 4:58, 6:10; DBE-based, 6:10, 10:8, 10:17, 20:56, 33:20, 33:75. See also DBE (dibasic ester) solvent

solvents, recycling/recovery systems: Recyclene, 28:48; Recyclit SR 80 recycler, 16:52; recovery still, 27:70

solvents, replacements for: DBE (dibasic ester), 6:10, 10:8, 10:17, 25:8; Dynasolve M-30, 20:56; Replacetone (emulsifier), 20:56, 25:8; ShipShape, 4:58; water-based, 2:70, 6:10. See also acetone, replacements; DBE (dibasic ester) solvent

Solvent Solutions: BBA Solvent F302, 33:20

solvent wipes/washes, for surface preparation: core bonding, 9:36; polyester gelcoat bonded to epoxy laminate, 43:5; vs. grinding, 39:19; scarfed laminate repairs/DCPD laminates, 52:67; scarfed structural repairs/epoxy/advanced-composite single-skin laminates, 43:54, 43:62; secondary bonding, 10:8, 20:32, 39:19, 52:67

Sommer, Harold: on Titanic, 53:12

Sommers, Eric: on SCRIMP, 31:42

Sommerville, David: on boat shows/marketing, 36:60, 36:64


Sonic Technology Products, Inc.: AudioTech Probe, 19:59

Sosnove, Nancy: builder profile/Nexus Marine, 23:37, 27:41
sounding stick. See fuel tanks
soundproof booths: Sound Seal systems, 9:56
soundproofing. See noise/vibration control
soundproofing insulation: in aluminum boats, 21:26, 45:47; in aluminum-fiberglass hybrids, 17:19; foam, 5:42, 21:26, 64:11; honeycomb cores, 22:20, 36:78; materials/installations, 5:42, 97:10; Sonalead, 21:26; sources, 5:49; Tufcote barrier composites, 12:60; in yachts/standards, 40:24, 45:47. See also noise/vibration control
South Africa: Aerodyne Yachts, 83:50; boatbuilding industry, 83:50; professional engineer licensure, 104:4; Quantum Sails, 83:50; Robertson & Caine catamarans, 83:50; multihulls/Alex Simonis, 83:66
Southampton Institute of Higher Education (SHIHE): advanced composite materials course, 67:13, 69:125; moisture meter study, 23:42, 23:45, 23:29; profile, 61:26; yacht and small craft design course, 101:106
Southampton Yacht Services: J-boat restoration/Velsheda, 52:12
Southco, Inc.: captive nut, 41:62; integration of suppliers and services, 97:24
Southern California Marine Association (SCMA): address, 4:20; efforts/membership, 4:9
Southport Boat Works (Leland, NC): company start-up and marketing of recreational boats, 95:38; designing for production/checklists, 95:38
Southport Island Marine: fiberglass version of William Hand design Handy Billy 21, 109:17
Southwest Windpower: Air Marine wind generator, 56:18
Sovereign moisture meters. See moisture meters
Sovereign Yachts: in New Zealand, 68:11; 110’ Venturosa, 42:74; plasma-arc cutting, 24:34
Soviet Union, former: Ekranoplans/combinaton military craft, 57:15
soy-based diesel fuel (biodiesel): production/applications, 34:55
soy-based foram: for upholstery/Campion Marine, 143:52
Space Shelters: temporary boat shelters, 35:15, 36:4
SPAR Associates: Perception software, 23:50
97:82. Swan 36, 84:52; "Type Plans" catalog, 119:3. See also Stephens, Olin; Stephens, Rod
spars. See masts and spars
Specht, Russell: on information exchange (methods), 6:5
SpecialCraft: powercats/water taxis, 80:12
Specialty Marine Contractors: aluminum boat kits, 63:145, 100:12
Specialty Tapes: CD-4113 nontoxic transfer tape, 34:59
specific gravity: in testing catalyst ratios, 1:6
Spectra (polyethylene) fibers/fabric: reinforcement applications, 28:18;
Spectron 12 rope, 53:64; types/source, 16:52
Spectre, Peter H., author: "Boatyard in a Box," 21:38; "Never on Sunday," 2:80
Spectronics Corporation: Spectroline fuel detection system, 8:54
Spectrum Boats: metal bonding (aluminum boat assembly), 4:42
speed strakes: aluminum/Speed Rails, 33:75
Speedtech Instruments: Speedmate knotmeters, 44:54
Speer, Tom: on elliptical planforms for a sail rig, 80:4
Spencer Boat Company: Rybovich merger, 14:26
Speshyock, Mike: on spray equipment development, 39:4
Spinazola, Gene: fire prevention strategies, 44:18
Spinazola, Gene, inventor: Marina FAST ATTACK foam rig for fires, 69:13
Spirit of South Carolina, pilot schooner/Sea Island Boat Builders, 109:17
SPLASH (Small Perturbation Linearized Analysis of Surface Hydrodynamics): computer tank test, 61:66
splash molds: for conditioning “green” tooling, 12:27, 12:30; tooling for production, 3:34
splashing. See Vessel Hull Design Protection Act (VHDPA)
Sponagle, Dana: on secondary bonding, 20:32
Sponberg, Eric W.: Cherubini 20 runabout, 112:28; on composite wing masts, 14:8; on floating-frame construction/ABS classification, 50:5, 52:4; on Florida Board of Professional Engineers and professional engineer licensure decision, 114:4; free-standing rig designs/Open 60 class, 55:44, 55:46; on free-surface correction/people as weights/stability testing, 44:5; Globetrotter 45/freestanding spars, 95:6; on jettisonable keels, 21:4; on professional engineer licensure, 110:4; on new committee establishment by SNAME for professional engineer (P.E.) licensure issues, 47:24, 72:112, 73:5; ocean marathon rowboat design, 64:11; retirement announcement to go sailing, 159:10; on Richard Boehmer/Base Speed Concept in comparison to S number, 133:8; response on one-bearing vs. two-bearing rudder systems, 118:4; spar design/technology, 3:42, 29:8, 95:6; on weight reduction/sailboats, 29:20; on whereabouts of original Buzzards Bay 30 sloops, 116:4
sportfishermen. See powerboats, sportfishermen; powerboats, offshore sportfishing yachts
spray, problems with: spray rails vs. lifting strakes, 45:86
spray adhesive: Clear Stick, 20:56; NauticGrip IF, 110:12
spray booths. See paint shop/spray booth
spraying equipment/systems,
spraying equipment/systems/techniques:
Binks Model 7 spray gun, 38:30; Binks Model 18 spray gun, 45:76; Binks Super Slave resin gun, 1:68; blister prevention, 15:13, 15:60; Catalyst Alarm system, 15:70; catalyst dilution, 2:6; catalyst ratios/temperature/gel times, 2:6, 33:46; Compliant Finishing Guide, 15:70; cleaning/defensive painting, 52:54; compressed-air systems, 33:46; condensation/temperature fluctuations, 33:46; contamination/secondary bonding problems, 20:32; for copper coating/thermal spraying, 8:4; development of, 38:30, 39:4; DUX gun, 112:10; for epoxies/high-solids, 42:62, 43:5; for flotation foam, 11:52; Euromere barrier coat vs. Spraycore barrier coat products, 113:4; for gelcoat, 6:52, 11:42, 13:70, 33:46, 34:28, 41:50, 45:76; Gemini-VR combination chopper gun/two-component proportioner, 10:52; for granite gelcoat, 34:28; grounding/static discharge, 22:12; gun cleaner, 13:70; high-pressure hose, 4:58; increasing transfer efficiency (overspray reduction), 34:35, 34:40; for LP paints, 19:12; maintenance/shop practices, 6:64, 15:13; manuals/DeVilbiss, 26:54; vs. non-spray laminating techniques (styrene emissions reduction), 10:8, 10:17, 20:40, 21:18; for photo-curing resins, 18:8; for production boat models, 154:22; for PVA/mold release, 12:27, 41:50; solvent-free foam guns, 11:52; spray finish training workshop/ITW & Owens College, 75:14; for syntactic foams, 7:50, 28:60; 3M Paint Preparation System (PPS) disposable containers/ clamps/atomizing spray nozzle, 141:30; Titan Epic airless piston spray pump, 23:54; for varnish, 19:36; 154:12; Venus-Gusmer Pro Gun, 14:59; Venus-Gusmer MBF-01, 28:60; for vinyl ester resin, 6:10; workshop/DeVilbiss, 28:54; for Xycon skincoat, 28:60. See also chopper guns; gelcoat, application/shop practices/troubleshooting; painting techniques, spraying spraying equipment/systems/techniques, high-volume, low-pressure (HVLP): Accuspray, 34:35; Atom-miser ColorCan, 9:56; Binks, 26:34, 34:35; Binks Model 2100 spray gun, 122:12; Compliant Finishing Guide, 15:70; DeVilbiss, 34:35; DeVilbiss OMX gun, 37:71; external mix/BACT, 22:4; GEO RDA, 32:52; Graco Optimiser spray gun, 26:54; increasing transfer efficiency (overspray reduction), 34:35, 68:54; Lex-Aire, 34:35; manual/DeVilbiss, 26:54; orange peel/viscosity, 34:35, 37:36, 37:42; for painting aluminum boats, 37:36, 37:42; Poly-Craft Systems HVLP plural-component spray gun, 18:54; Rule 1106.1 amendment and, 60:11; SATA Jet 95 sprayer, 37:42; SATA paint system/air-fed mask, 23:54; sources, 34:40; spraying linear polyurethanes, 19:12; spraying techniques/applications/troubleshooting, 29:8, 33:46, 34:35; Titan LP3 system, 34:59 spray-painting. See painting techniques, spraying; spraying equipment/systems/techniques; spraying
equipment/systems/techniques, high-volume, low-pressure (HVLP)
spray rails: FRP construction, 60:5
spray strakes: and rudder ventilation, 45:96
sprint boats: jetsprinting, 57:15
Spronk, Peter: designer/catamarans, 119:78; 124:42; composite catamarans, 124:42
Spruce Goose, wood airplane: Duramold hot-molding process, 151:6
SP Technologies: 62:46
Spunfab nylon filament mesh: for carbon unidirectional laminates, 144:58
Spurr, Daniel (Dan): Yacht Style/review, 44:54; on internally ballasted boats vs. externally ballasted boats, 104:4
squeegee: for controlling resin content, 59:30; radiused for taping and tabbing, 29:43
squid: and boat encounters, 90:3
SSV (Sailing School Vessel): SSV Corwith Cramer, 121:9
Stabicraft: 659 Wheel House observation boats for service monitoring Alaskan fisheries, 139:18
stability: computer-aided design (CAD) and stability analysis, 150:88; damaged/intact, 54:98; longitudinal/transverse, 54:98, 64:46, 65:102; positive/neutral/negative, 54:98, 54:99; static, 54:98, 118:22. See also instability, dynamic/positive; stability, dynamic/positive
stability testing (inclining experiment). See stability, dynamic/positive
stabilizer fins: Quantum’s ZeroSpeed system, 110:4
stabilizer systems: MagLift System/Quantum Marine Engineering, 114:10; Plum stabilizer, 97:164; Seakeeper gyrostabilizer, 113:72, 120:4, 146:10; Wesmar, 15:70, 36:78, 61:82
Stafford, George, author: “When Insurance Claims Get Out of Control,” 50:80
staging: for gelcoat/paint spraying, 11:45, 42:20; ladders/Brownell, 24:62; scissor lifts, 42:20; scissor-lift platforms/pneumatic-hydraulic, 44:54
staining: brightwork/venilash repairs, 19:36
stainless steel. See steel, stainless; fasteners, stainless steel
Stainless Steel Coatings: Steel It, 20:56
Staley, Jim: obituary, 9:5
StanCraft: 62:12
Standard Communications: Horizon Omni VHF radio, 35:58
Standard G computer program: measuring and recording accelerations, 145:106; post-processing chart correction, 147:6
Standard Products Co.: Quick-Edge trim, 5:26
standing rigging. See rigging, stainless steel; rigging, standing
Stanfield Mfg.: JS1010 joiner/shaper, 11:52
staples, plastic: applications/sources, 9:57
stapling: vs. vacuum-bagging, 1:58
StarChip: polymer sheet material, 7:64
StarChip: conversion kit for LED lights, 87:80
Star of India (square-rigger vessel): 69:13
Stars & Stripes: S1 (soft-sail) and H1 (hard-sail) America's Cup cats, 72:84; 133:70, 96; obit for lead designer Britton Chance, Jr., 141:6
Stark, Terry: on efficient designs (jon boats), 16:4
Starlite Industries, Inc.: tool catalog, 20:56
starters, electric. See DC electrical systems/equipment
static electricity: contact/separation (part/tooling), 22:12
static pipeline wave experiment, 145:12
StatPower Technologies Corp.: inverter supplier, 25:34, 25:40
Staudacher, Jon: anchoring hardware, 15:21; roller brake, 8:52
Staudacher Hydroplanes: anchoring hardware, 15:21
Stavas, Ben: used-boat orphanage, 57:15
Stayput Fasteners: canvas fasteners, 11:52
stays. See rigging, standing
St. Clair, Pack: on product safety/liability, 15:50
stealth technology: carbon-fiber construction, 53:40; radar-absorbing material (RAM), 53:40; "smart" composites, 46:45, 46:50, 48:4; 46:45, 48:4, 53:40; thermal masking, 53:40
steam-cleaning: and blistering, 2:38, 4:5, 7:8
steam-cleaning equipment: compact high-pressure, 20:56
steam launches: replica market, 18:20; Rose 20 model, 68:11
steamship Titanic: reverse-engineering wreck of /model testing, 58:13; steam engines, 53:12
Steber, Bob: teak supplier/Quality Woods, 54:18
steel boats: Delaware pilot boat launches, 150:34; Gil Klingel/boatbuilding, 85:4; Waterline Yachts, 83:72; repairs and maintenance/A.F. Theriault & Son Boatyard, 101:92
steel, mild: ductility, 53:4; galvanic corrosion, 32:36, 32:39

steel construction: Boatbuilding With Steel/Gilbert Klingel, 83:3; CAD/CAM technology, 7:18, 38:38; CAL/NCC technology, 38:14, 38:38; vs. fiberglass/composites (strength), 4:22, 4:64, 57:7; floating frames/ABS classification, 52:4; fuel/water tanks, 52:18, 54:5; galvanic/stray-current corrosion, 33:28; lofting/liability, 38:14; Navy PC boats, 52:43; 105' schooner, 2:12; paints/coatings, 52:54, 52:55; specifications/standards/testing, 34:42; Subchapter T boats, 36:22; testing/Carderock, 42:39; tourist sub, 55:16; welding, 52:18, 54:70, 132:18. See also computer software, lofting/parts generation; metal construction, CAL/NCC (computer-aided lofting/numerically controlled cutting) applications; numerically controlled (NC) cutting; The Metal Boat Society, 18:4


Steinert, Paul: on noise-reducing laminates, 32:4

stem: plumb vs. raked/design considerations, 25:55, 27:4

Stenberg, Mike: shrink-wrap recycling, 33:69


Stephens, Robert: on Neo 41 and sense of running a semi-planing powerboat, 152:4


Stephens, Rod: designer/amphibious vehicle/DUKW, 56:10, 57:13, 119:3; affiliation with Sailing School Vessel (SSV), 121:9; electronic publication Rod on Sailing Lessons From the Sea, 119:3. See also Sparkman & Stephens
Stephens, Waring, & White: *Isobel* sailing yacht/cold-molded wood/epoxy, 136:44; *Zogo* diesel-electric launch, 124:12, 127:30; pod drive for vintage Huckins motoryacht, 129:54
stepped planing boat: Dynaplane design, 97:164; John Plum, inventor, 88:82, 97:164
stereo microscopy: 87:62
Sterling: LP paints/application, 19:12, 21:26
stern: overhanging vs. reverse/design considerations, 25:55, 27:4
stern flaps: propeller tunnels and trim-tab placement for, 75:140; testing of, 70:81; vs. trim tabs, 70:81
stern gear: tools for removing, 48:86
stern tube: repair of, 130:38
sternwheeler: *Tahoe Queen/Tim Graul, 110:68
Stetson Pinkham, outboard and I/O dealership (Waldoboro, ME): Lincoln Davis/vintage motors, 92:68
Steve French Enterprises: unexposed transom door hinges for sportfishing boats, 107:14
Steve Killing Yacht Design: C-Class cats, 133:70; three-element wing sail, 133:70
Stevens, Brian, author: “Trial By Fire,” 127:104
Stevens, John: CATUG chemical carrier, 43:36
Stevens Institute of Technology: Davidson Laboratory/model testing, 56:26, 56:38, 60:66
Steward, Robert M.: on propeller-shaft removal, 6:5
Stewart, Jim: on megayacht market, 12:50
Stewart Warner Corporation: Heavy-Duty Gauges, 21:60
Steyr Motors GmbH: diesel-electric two-in-one hybrid DC motor/flywheel generator, 115:128; diesel generator for charging lithium iron phosphate (LFP) batteries/J-Class Hybrid Power System; STIDD Series 800 seats: for foil-assisted catamaran *Swift*, 96:52; for military and government RIBs, 70:66; monoblock diesels, 122:64; Shelter Island Runabout, 70:66; ZF/Beneteau parallel hybrid, 127:30
Stimson, David: bow-roof shed, 35:15; Design Challenge, 122:24; fuel-efficient planing boat designs, 116:40; Ocean Pointer, 116:40; plank-on-frame power dory/Powerboat Design Challenge, 122:24
Stingray Boats: recession business strategies, 127:30; web-based
management system, 127:30; Z-plane hulls, 127:30
STIX, Stability Index: and ISO standards, 81:128
Stockbridge Communications: boatyard newsletters, 31:16
Stolk, Leo: Stolkraft hullform, 49:42; 68:11
Stolkraft: planing hullform/efficiency, 49:42, 58:6; 68:11
Stone Boat Yard: 70:21
Stone, Colin: on advantages of Centa thrust bearings, 122:6; on Navigating a Sea of Standards and fuel shutoff capability outside engineroom, 156:4
Stonwurks, Inc.: stone panels, 34:28, 34:32, 101:12
storage. See boat storage; chemical storage; dry storage
Storm Hawk Boats: resin-infused, outboard powered 21’ boat, 103:208
stoves, galley: diesel stove, 151:128; Force 10/oxygen-depletion sensors, 45:32; Paul E. Luke, 14:26, 4:32; Tudor/Maxie, 1:68. See also heaters, cabin
Strader, Dave: on Weskor structural core, 54:5
Straight Line Marine: alignment of boat running gear/profile, 159:36; Class II crack testing, 159:56
strain-gauge testing: equipment and configurations for, 79:102
Strait Moorings: helical anchor, 53:64
strakes, lifting. See lifting strakes
Strand, Rick: on back-wetting, 15:13; on bottom paint removal, 7:8; on cored panel penetrations, 99:44; on DBE, 10:8; on strength testing of composites, 4:22; on wet balsa core, 98:4, 99:4
Strasel, Erik: on sealing electrical connections with room temperature vulcanizing silicone rubber compounds/acetic acid/corrosion, 105:4
Stratasys Inc.: 3D CAD Modeler, 7:64
Streck, Cortland: 60’ power cat, 50:11
strength testing of composites/laminates. See composites testing
stresses/loads: fiberglass strength/breakage, 13:33; glossary of terms, 13:34. See also composites testing entries; fatigue resistance, of laminates; laminates, marine
stretching techniques: CAD program, 7:18; megayacht design, 47:34; tooling, 2:42, 46:16, 46:26, 67:13
Striker Yachts: advertising/marketing, 6:47
Stringer, Stephen: clay modeling, 21:12
stringers. See frames/framing systems
strip planking: DuFLEX strip planks, 63:162; DuraKore end-grained balsa strips, 15:34; solid wood strips, 15:38; Speed Strip system, 46:65, 69:156. See also wood construction, strip-planked
striping paint: Formula 40 Marine Color (acrylic), 18:54
striping tapes: Mark IV cutting-and-assembly system, 13:70; removal (Scotch-Brite discs), 16:52
stripers. See paint removal
Stripping Technologies, Inc.: AirWall ventilator/dust remover, 13:70LAB 1
System plastic blast media reclaimer, 12:60
Strom, Lars: on correction of metric conversions/rudder design/high-performance boat, 80:4
Strome, John: on gelcoat repairs, 65:5
Strong systems. See Tides Marine
Struben, Fred: on survey reports/seaworthiness, 36:74
structural adhesives. See adhesives, structural
Structural Composites, Inc.: closed-molding procedures, history of, 69:132; composite-panel test fixture, 36:4; composites testing, 34:42, 36:4, 143:10; mitigating shock loads/pressurized hull and cockpit, 143:10; PRISMA Composite stringers/preform hat stiffeners, 78:7; Resin Injection Recirculation Method (RIRM), 32:28, 48:48; RHIB prisma preforms/reduction in hull and deck weight, 143:10; stitched vs. woven fabrics/evaluation, 32:4. See also Wolfe, Art
structural design and materials selection, 119:50
structural standards of high-speed craft: data logging of accelerations and bottom pressures, 157:80; design loads consideration/test methods, 157:80; equivalent static pressure, 157:80; wave and acceleration measurements, 157:80
structural standards and seaworthiness of recreational boats: 63:38; 75:3; 79:109; molding grillage tabbed to hull/Hanse, 91:136; Sea Craft boats, 91:116
structure. See frames/framing systems/structure
Stuart, E. & D.: 28' daysailer, 4:30
Stuart Catamarans: 60' power cat, 50:11 stuffing box. See propeller shaft stuffing box
Sturtevant, Tom: on fire/property insurance, 7:28
S2 Yachts (Holland, MI): parent company of Tiara Yachts, 71:52
styrene (solvent): attack of foam cores, 52:30; classification/carcinogenic, 29:54, 40:20, 53:73; solvent wipes/secondary bonding, 30:32, 52:67. See also gelcoat; polyester resins; solvent wipes/washes; styrene emissions, monitoring/reduction/compliance; styrene monomer
molding/SCRIMP; resin-transfer molding; thermoplastics; vacuum-bagging, applications/techniques; VOC emissions, reduction/compliance

Styrene Information and Research Center (SIRC): styrene exposure/health effects, 40:20, 41:58

styrene monomer: hourglassing of PVC foam cores, 9:36; outgassing/carbon-monoxide alarms, 45:32; in polyester and DCPD resins, 8:28

styrene monomer, substitutes for: PMS/vinyl toluene/DCPD, 10:8. See also DCPD resins

styrene (monomer-loss) suppressants: resin additives, 8:28; and secondary bonding, 8:28, 20:32, 25:8; types/formulations/performance, 8:28, 25:8

styrene-acrylonitrile (SAN) copolymer: vs. cross-linked PVC foam core, 70:44; Luran S, 34:59

styrofoam: CNC cutting for hull shape/Rhebergen, 96:36; flybridge cowling mold, 96:36; for high-temp tooling/caveats, 59:76; plug for plastic-faced-plaster (PFP) tool, 60:96, 60:103

Subchapter K boats: Ranger and Patriot aluminum catamaran ferries/Bruce Marek, 106:22

Subchapter S boats (150 or more passengers): USCG standards for, 63:38


subframe/compartments:

surveying/fiberoptic borescope, 35:42. See also bulkheads/compartments

submarines, passenger/tourist: welded steel/Oregon Iron Works, 55:16

submarines, small: one-man composite “aquabatic”/deep-diving probes, 55:16; two-man/The Toy, 53:12

sugar pine: for fairing batten/plug construction, 28:10

suits, Tyvek: chilled-air/EEV Comfort Suit, 4:58, 33:46, 64:5; review/sources, 3:19; ventilating, 33:46


Summit Yachts: Summit 35 project, 123:10
Sumpter, Paula: on plastic kayak recycling, 15:4
Sunbird Yachts (Zhuai, China), 103:72; kitted composite boats/SmartPacs, 103:104; Li Yuexian interview, 103:108
Sunbrella: marine fabric/carpet runners, 32:15
Sundlin, David J.: on videotape production, 16:22; on video production.on-location, 22:42, 22:45, 22:49
Sunfish-Laser, Inc.: Vanguard acquisition, 49:74
Sunrez Corp.: photo-initiated resins/applications/technology/patents, 18:8, 18:17, 19:8, 50:5; UV-PPG fabrication, 48:35, 50:5. See also Livesay, Mark (Sunrez Corp.); photo-curing resins
sunroof: carbon pre-preg resin and gelcoat units for/Trend Marine, 101:12; Cruisers Yachts 560 Express/aluminum hardtop with power sunroof, 114:68;
Webasto/fixed or electrically operated sunroof line, 150:10
Sunseeker International: production boatbuilder/carbon fiber, 58:36; use of Parabeam E-glass skins for boat parts/fixtures, 72:10
Sunshine Makers: Simple Green cleaner, 15:44
Sunward Yachts: one-off tooling, 10:42 supercapacitors, 118:40
Superior Fiberglass and Resins: acetone replacement/Super Blue Resin Cleaner, 3:20; toolwashing units, 33:26 superstructure. See deckhouse; pilothouse; tuna towers; wheelhouse suppliers: online scams, 155:80
Suppliers of Advanced Composite Materials (SACMA): health and safety pamphlet, 36:78
surface-effect ship (SES): minehunter, 65:84; M80 Stiletto hull design, 97:10
surface-piercing drives. See propulsion/drive systems
surface-piercing struts, 126:64 surfactants. See resin surfactants surfboards: molded replicas, 28:54
Surrette, John J.: on deep-cycle marine batteries, 18:44, 19:4
surveying techniques/tools/equipment:
1990s retrospective, 60:27; adhesive-backed paper tape rule, 42:74; fiber optic boroscope, 158:48; holesaw cutouts, 49:24, 49:27; holesaw cutouts/water-saturated flotation foam, 37:48; regressed blisters, 51:108; photography techniques and equipment, 79:86; professional standards, 53:4; test coupons/repair patches, 36:34, 49:24, 49:27. See also blistering, gelcoat/osmotic; composites testing; core bonding
surveying techniques/tools/equipment, non-destructive: blister detection, 23:42; bolt inspection, 40:4; damaged keel bulb, 133:104; delamination/cored hulls, 25:18; fiberoptic borescopes, 35:42; hammer-sounding (tap-testing), 25:18, 35:42, 43:54, 47:57,133:104; illuminating periscope, 24:62; laminate damage, 35:42, 133:104; marine laminates vs. aerospace composites, 133:104; metal


importance of executive summary in reports, 157:128; personal observations, 157:128; surveys, in-water: vs. hauling for survey, 30:72; liability/ordinary care, 31:30

surveys, new-boat: for quality control/manufacturing, 35:4; pre-purchase (C&V), 55:71

survival at sea: multihulls, 23:24


Sutherland, Bud: on customer service in boatyards, 5:7

Sutherland, Scott R., author: “N[E]Ex = Not Easily Explained.: 78:38

Sutphen Marine: mold-release system, 13:11; use of vinyl ester resins, 6:10

Suunto USA, Inc.: Design Line compasses, 8:54

swaged terminal fittings: corrosion, 15:21, 15:23, 54:70

Swain, Geoffrey: on carbon-aluminum/galvanic interaction, 59:5
SWATH (small waterplane area twin hull): 65:102; 126:64; 129:40

Sweden: advanced composites/navy/Karlskrona Shipyard, 53:40, 55:5, 57:7; epoxy exposure, 53:40, 55:5, 57:7; FRP construction/styrene exposure, 1:30, 53:40; FRP recycling programs, 60:82; Trampofoil, 54:18. See also Lonno, Anders; Mannerfelt, Ocke; Oldenburg, Bo; Ryds Batindustri AB

Sweden Yachts (Orust, Sweden): profile of, 82:58

Swedish Coast Guard: patrol/rescue boat: 61:10; Controller Area Network (CAN)-based distributor power system, 99:82; “JockeySeat,” 70:66

Swedish Sea Rescue Society: rescue vessel deckhouse, 105:4; SSRS-1200 rescue vessel, 104:42; ASTRA-type vessel, 104:42

Svendsen, Svend: California boatbuilder/obit, 144:10

Swift boats: description/history of, 89:4

SwiftShips: flow coaters, 25:58

Swindahl, Carl: profile/Modutech Marine/commercial boats, 40:40

swinging keel: 62:51, 64:64

switches: battery, 8:12; float/bilge pumps, 32:52, 44:29, 57:48, 57:60, 57:73; labeling/documentation, 132:80; Rotoswitch, 27:70; waterproof, 5:58

Switzerland: Boesch Motorboats/mahogany runabouts, 143:10; competition for America's Cup, 70:21

Sword Marine Technology: outboard waterjet package, 96:6

SYBO Composites: and epoxy-compatible gelcoat, 139:30

Sydney-Hobart Race: design standards/scantlings/structural failures, 48:8

Syllogic (Open 40 racing vessel): rigged canting mast, 70:38; rotating keel, 70:38

Symphony Boat Co.: Elektra Six-2 electric launch/laminated panels of bamboo, 159:10; runabout launch/foam-cored plywood-and-aluminum hull, 146:10

Sylvan Forest Products: pressure-treated plywood panels, 27:42

Sylvia Bolton Design Inc.: interior design/mooryacht Alexis/Platypus Marine, 85:96

synchronizers: Electro-Sync, 7:64

Synstone: simulated marble/granite countertops, 34:28, 34:32

systems/equipment; electrical systems; engines, marine; navigation instruments/systems; plumbing systems; propulsion/drive systems; pumps; refrigeration, marine; steering systems. See also components/ancillary equipment/accessories


Tampa Yacht Manufacturing: buy-out of Tempest line boats, 153:8, 161:20; collaborative venture with Alicat Workboats, Ltd., 161:20; Fast Coastal Interceptor (44-FCI), 153:8, 161:20; and Middle East business plan, 161:20; and Robert Kaidy, naval architect, 161:20; TYM 50-FAC (Fast Attack Craft), 161:20; venture with Alicat Workboats Ltd. (UK), 161:20;

Tander, Rob: Design Challenge/Vrimbo 39 outboard cruiser/Sjoerd Bouma, 127:20

Tank-vent fittings; Securefill, 87:6
tanks, fuel. See fuel tanks
tanks, holding. See holding tanks
tanks, waste-collection: systems/safety, 6:8

tanks, water. See water tanks

tank sensors: Gobius tank level indicator, 116:10

tank sentries: Headhunter, 31:68
tank-testing. See model basins/tank-testing facilities and programs, Australia; model basins/tank-testing facilities, North America; model testing

Tanton, Yves-Marie: designer/builder of free-standing rigs, 55:46; mainsail vang/boom, 102:14

Tanton, Inc.: Tanton 45 and 70/free-standing rigs, 55:46
tape, carbon. See carbon tape
tape, masking: 3-M Fine-Line, 37:36. See also painting supplies
tape measures: DeWalt extended blade, 155:10

tape, Mylar. See Mylar tape
tape, polymeric foam: Gaska Tape, 48:86
tape, protective: 3M Heavy Duty Protective Tape, 29:58
tape, sandblasting: used in vacuum-bagging/drying, 9:50
tape, tacky. See tacky tape
tape, Teflon: for marine hose installation, 51:6
tape rule: adhesive-backed paper, 42:74
taping and tabbing. See fiberglass fabrics/reinforcements, taping and tabbing
Taplin, Bud: on Passage Marker, 154:4
Tarbell, Russ: on worker training, 14:4
Target Enterprises: Target 2020 waterborne acrylic finish, 23:54; Target TK 200 teak treatment, 10:52
tarp, polyethylene: for boat shed, 35:15
Tarpon Yacht Center: LP paints/safety gear, 20:8
Tasmania: INCAT, 53:12
taxes, corporate income/capital gains:
  amortization of tooling, 9:13;
  changing/impact of, 22:36, 63:29
taxes, luxury/sales/use: builder’s contracts and, 37:60; and marine industry/market downturn, 12:2, 16:4, 46:16; marine trade associations and, 4:9, 18:64; and megayacht market, 12:50; repeal of/market recovery, 25:3, 37:66; and sailboat market, 20:64
Taylorbrite LLC: cold cathode fluorescents, 87:80
Taylor, David, Adm.: profile, 53:12
Taylor Made Systems: enclosed flybridge windshield/Ovation 52 powerboat, 118:8
Taylor, Michael (Mike): on marine insurance/maintaining to class, 48:8; on foamed-in fuel tanks, 37:48; on surveying severely damaged hulls, 25:18
Taylor, Michael (Mike), author: “Classing Yachts,” 39:80; “Lightning-Protection Systems,” 43:64
T-bar: framing systems/aluminum boats, 24:34, 26:4, 29:4
T-boats. See Subchapter T boats
TCM Composites: temperature-controlled infusion tables, 125:54
TE. See transfer efficiency
tek: export statistics, 75:72; gluing/finishing, and adhesive problems, 75:72; sources/salvage, 54:18; toxicity/side effects of, 75:72; other woods durability/substitutes, 75:72, cleaning methods, 75:72
tek cleaner: Target TK 200 restorer/protectant, 10:52
Teakdecking System (TDS): modular decking/installation, 51:114, 138:48
tek decks: reconstruction, 1:46, 64:112; laid, 45:47; prefabricated, 5:26, 51:114; maintenance, 131:66; recaulking, 131:66
Team Adventure (catamaran): carbon crossbeam emergency repair, 72:38
Team Scarab: high-performance boats by Westerly Marine, 61:52
tek/holly cabin soles: shop-made/balsa core, 13:43
Tech Products Corp.: all-attitude engine mounts, 13:70
Techflex, Inc.: braided UV-resistant polyethylene terephthalate (PET) tube for wire bundling, 77:10; Flexo wire/cable jacketing, 11:52; Thermashield, 77:10
Technical Innovations, Inc.: Air Cyclone fan, 25:59; EEV Comfort Suit, 4:58, 33:46; Quick Fill polyester compound, 18:54
Techno Craft S.L.: yacht containment structures, 144:48
Technology Associates, Inc.: ceramic
scissors, 16:52
Technology Development: roto-molded
polyethylene utility skiffs, 11:28
Tedder, Bruce: promotion of South African
companies in world market, 83:50
Tef-Gel: Teflon-filled paste/corrosion
prevention, 60:104
Teleflex Marine: No-Feedback rotary
steering system, 48:86
television: as promotional tool, 25:52
Telesmanick, Leo: Beetle Cat jigs, 23:32
Telleria, Mike: response of Navigating a Sea
of Standards and National Fire Protection
Association 302/comprehensive
scantlings, 155:4; response on surveyors
and USSAC (US Surveyors
Association/NAMS/SAMS, 162:6
Telleria, Mike, author: “A Builder’s Guide to
the Owner’s Manual,” 159:22; “Navigating
A Sea of Standards,” 154:56; “You’re your
Work, Not Your Business Card,” 161:80;
“When Zins Are Not,” 157:94
temperature, of boatshop: and catalyst
ratios/gel times, 1:6, 15:13, 33:46, 44:30,
50:46; core bonding/bedding, 9:36, 33:46;
with epoxies, 42:52; gelcoat application,
1:42, 33:46; gel times/SCRMp, 44:30;
hot-weather boatbuilding, 33:46, 50:46;
laminate quality, 3:29, 33:46, 50:46; mold-
release agents, 13:11; syntactic
foams/putties, 3:46. See also heat/hot-
weather boatbuilding; heaters/heating
systems, boatshop; humidity;
temperature, of laminate
temperature, of laminate: epoxy resin/print-
through/post-curing, 14:45, 17:11, 34:21,
42:52, 42:59; and hardness testing
(Barcol hardness tester), 5:12; heat
distortion temperatures (HDTs), 2:6, 5:12,
14:45, 64:11; monitoring
systems/techniques, 14:45, 14:48;
polyester resin, 14:45; ramping up/post-
curing, 14:45, 17:11, 34:21, 42:52, 42:59;
specific heat/exotherm cycles/warping,
45:68; vinyl ester resin, 6:10, 14:45,
42:52. See also heat distortion
temperatures (HDTs); ovens/autoclaves;
post-curing; print-through,
control/prevention; resins,
curing/exotherm cycle; temperature, of
boatshop
Tempest Marine: buyout of line by Tampa
Yacht Manufacturing, 153:8, 161L20;
customs and border protection boats,
153:8
Tempest Yachts: interior design, 6:39
Templin, Douglas E.: Rule 1106.1
amendment, 60:11
Templin, Douglas E., author: “Defensive
Painting,” 52:54
Ten Golden Rules for Successful New Build
Projects ebook, 140:7, 141:4
tender: custom carbon tender/New England
Boatworks, 81:93
Tennant, Malcolm, author: “Powercats and
the LCG,” 64:46; “Powercats,” 78:46
Tennant, Malcolm: on Awesome 770 power
catamaran, 54:5; CS hull/canoe sterned
underbody, 114:10 on fast displacement
hulls, 29:4; on hauling angle of high-
speed displacement catamarans going
through a high-speed turn, 93:4; icebear
(powercat), 78:46; on New Zealand
designers, 73:5; on power catamarans,
47:5; on “The Price of Speed,” 65:5; obit,
114:10
Tennessee Mat Company, Inc.: anti-fatigue mats, 23:54
tents: for dust containment/bottom prep, 31:10; heatable/for painting and repairs, 19:25, 21:12; heatable/for post-curing, 14:45, 21:12, 34:21; for resin/putty storage, 33:57. See also boat sheds/shelters

ter Heide, Roel: on synchronizing inverters, 114:4
terminals. See batteries; rigging, stainless steel, wire; swaged terminal fittings; wire/cable, marine, terminal connections testing, model/tank. See model testing
testing of composites/laminates. See composites testing, lab/standardized; composites testing, non-destructive (NDT); composites testing, shop

Tether, David E.: on diesel-electric/inrush surges, and battery banks, 93:4; and marine hybrid development, 127:30

Texas: licensure/engineer, 56:53

textiles: Ferrari Group/composite textile and fabric coating specialists, 117:8


Textron Inc.: Homelite centrifugal pump, 30:60; Motor Lifeboat (MLB) prototype, 48:66

Textron Lycoming: TF40B turbine engine, 12:60

Tg (glass transition temperature). See resins, curing/exotherm cycle

Thames Rule, 61:76

thief: boatyard property insurance, 7:28; Mighty DataDot alphanumeric identification code, 71:6

theodolites: precision instruments for measuring angles in the horizontal and vertical planes, 159:60. See also CAD/CAM

Theodore Tugboat: based on cartoon character, 65:11

Thermadyn Industries: Aden QT-100 hearing protection, 8:54

thermal imaging: goggles, for, 109:100; NavCom tower/Edson International, 113:10; RSB Imaging/metal, wood, fiberglass, 133:12; types/damage assessment/cored hulls, 25:18

thermal welding: 65:97

Thermashield: TechFlex tube and wrap, 77:10


thermoformed hulls: cracking/thermal expansion, 34:59; Luran S (styrene-acrylonitrile copolymer), 34:59; polycarbonate acrylic alloy/Carbonlite 2000, 60:11; polyethylene, 10:34, 11:20, 29:33, 29:37. See also ABS plastic; co-extrusion; roto-molding; thermoplastics (TPs)

thermoformed plastic components: custom made, 35:58

thermography/thermal imaging. See infrared thermography
thermoplastic foams. See foam cores, PVC
thermoplastic polymer panels: Nuvel, 34:28, 34:34
thermoplastic resins: Centrex, 14:57; pre-pregs, 24:18
thermoplastics (TPs): coextrusion, 10:34, 34:59; comingled glass-reinforced, 54:112; development/technology/performance, 10:34, 90:84; double-reading compass/Plastimo, 149:68; long-fiber thermoplastic reinforcements, 90:84; non-molded, 10:40; in flame-spread test, 62:78; recycling programs, 15:4, 29:33, 43:17, 54:112; ultra-high molecular weight/married to composite laminate, 44:35; VOC emissions, 11:20, 54:112
thermopolyurethane through hull fittings, 114:120
thermoset foams. See foam cores, PVC
thermosetting resins: data book on, 25:59; development of, 38:30, 54:112; melted-boat syndrome, 29:8; origination of, 134:62; pre-pregs, 24:18. See also epoxy resin; fiberglass (FRP) construction; polyester resin; vinyl ester resin
Thermwood Corp.: Model 50 cutting machine, 24:62
THHC Lighting: xenon lights, 87:97
Thiel, Philip: designer/human-powered canal boat, 55:16; on the geometry of shapes and freehand drawing/calculations, 126:6
Thiele, James: American Blimp Corporation/Lightships/airships, 58:13
Thin-Lite Corporation: low-voltage fluorescent lighting, 87:97
thinners: Penetrol, 19:36; for varnish, 19:36
thixotropes. See Cab-O-Sil; fumed silica; microspheres/microballoons; resin thixotropes
Thomas & Betts: Kopr-Shield, 8:12
Thompson Brothers Boat Manufacturing Co. (Wisconsin). See also Cruisers Yachts.
Thompson, Ewen: on lightning protection and technicalities of ground plate design, 88:4
Thompson, Joseph, & Co., Ltd.: Speed Strip strip-planking system, 46:65
Thornell-Crete, Kellie, author: “Lapsed Yards,” 125:72
Thornell, Gerry: on wastewater runoff/regulations, 31:10, 31:18
Thornycroft, Sir J.I.: Ariel, steam launch/sea trial, 113:32; fast motor torpedo boats, 128:18; Miranda, steam yacht, 113:32; stepped hull boat/Coastal Motor Boat, 85:76
thread-locking compounds: Loctite/for keel fasteners, 38:20, 39:4, 40:4
3-D modeling. See computer software, 3-D modeling/graphics; mock-ups, interior, as sales/design tools
3M (3M) Corporation: adhesive films, 57:88; atomizing spray nozzle, 141:30; barrier coating, 48:86; black sandblasting tape, 9:50; blister and repair filler, 48:86; drag-reduction films, 60:5; Easi-Care 5000 respirator, 3:19, 9:56; Fastbond, 29:8; 5200 sealant/adhesive, 1:46, 15:21, 20:32, 28:27, 29:4; Fine-Line plastic tape,
37:36; Finesse-It buffing compound, 19:36; Finesse-It mold-release system, 12:27; Hand-Masker film, 31:10; Heavy Duty Protective Tape (No. 346), 29:58; hooded respirator, 1:68; Jet-Weld, 29:8; Liquid Polish, 19:36; MSDS Access system, 23:54; 101 Marine Sealant for composite integral tanks, 74:20; online medical exams and respirator raining, 94:8; on-site workshops for respirator fit, 76:10; Paint-Preparation System (PPS)/reuseable clamps and disposable containers, 141:30; Perfect-It Paint Polishing System, 10:52; Perfect-It glazing compound, 19:36; portable Sun Gun for gelcoat color matching, 108:16; Post-Its, 79:10; respirator training videos, 15:70; sandblaster sponge for joiner work, 76:80; sanding disc attachment systems, 23:54; Scotch-Brite pads (varnishwork), 19:36; Scotch-Brite discs (graphics/tapes removal), 16:52; Whitecap II face shield, 7:64


throttle arms/knobs: Ongaro Marine, 44:54 through-hulls: aluminum honeycomb core material/conversion of USA 76 America's Cup boat, 140:22; flooding/back-siphoning/bilge pump installations, 57:48, 57:56, 57:73, 69:70; galvanic/stray-current corrosion, 32:36, 130:66; impact testing on metallic and non-metallic through-hull fittings, 114:120; IonGuard sacrificial anode, 115:128; maintenance manual, 43:83; selection/installation/maintenance, 8:42, 8:44, 57:99

thusters: hubless thruster/van der Velden Marine Systems, 120:38; retractable, 6:52; preparation for long-term storage, 122:52

Thunderbird Boat Co.: early fiberglass work, 103:186, 119:66; The *Flipper* fleet, 103:186

Thunderbird Products, Inc.: acetone reduction/replacement, 33:20, 33:26; shrink-wrapping (transport), 18:28; use of methacrylate adhesive, 75:58; use of photo-curing resins, 18:4; use of Pliogrip adhesive, 30:60

Thurston, Scott: on sailboat market, 23:4

Thurtle, George: on *Rocket Science* cruiser, 45:68

Tiara Yachts: epoxy-based production powerboat, 68:26; profile, 71:52

Tibbets, Ross, author: “All the Tools in the Box,” 159:60; “Go Fly a Kite,” 162:12; “The Wizard and Merlin Reunite,” 161:8

Tiderunner Boats: use of Polylite Profile tooling resin system, 16:52


Tidewater-Havre de Grace: discount marine accessories, 21:12

tie coat: for in-mold coatings/epoxy laminates, 49:59, 49:60, 51:6. See also bondcoat; gelcoat application/shop practices/troubleshooting; skincoat

Tige: ski boat with adjustable trim system for boatwake, 88:14

Tighe, W.R. (Bill): obituary, 47:15

Tillotson-Pearson Inc. (TPI): Alerion line, 147:38; builder profile/diversification,

TimberGuard, UV-resistant polymer encapsulation for dock pilings, 109:17

Timberwind, cutter: pilot boat/Portland, Maine, 150:34. See also Roseway. cutter

Time Saver Tool Corporation: Clinch-Fast metal clips, 10:52

Timmer, Jr., Blaine: Century Boats executive/obit for, 158:8

“Tirant” rig (push and pull): 64:64

Titanic: Alvin submersible scanning vessel, 141:6; reverse-engineering wreck of/model testing, 58:13; steam engines, 53:12

Titan Tool Inc.: Epic airless piston spray pump, 23:54; LP3 HVLP spray-finishing system, 34:59


Titanium Industries, Inc., 132:62

Tobiason, David: on chopper guns, 3:54

Todd, Western A., author: “Biting the Regulatory Bullet (on shop safety standards),” 2:67

Tofinou: daysailer/Philippe Joubert, 131:12 toilets, marine: antisiphon valves, 162:38; Dometic/SailVac system, 132:6; head arrangements, 5:50, 72:73; Lavac Zenith, 8:54, 72:73; macerating discharge pumps vs. diaphragm pumps, 162:38; macerating toilets, 72:73; Raritan double-acting piston pump toilet, 72:73; Raritan Sea/Fresh Marine Elegance toilet, 120:4; SeaLand "magnum opus" model, 72:73; Vacu-Flush, 4:58. See also head arrangements/layout; holding tanks

Tolman, Renn: on structural adhesives, 28:27
toluene: MACT standards, 34:40

Tom’s Marine Hardware: Interlux Bilgekote #862, 15:70
tonnage/admeasurement laws: aluminum construction/framing, 26:4; shipping rules/subchapters, 36:22; simpler international system, 53:4; speed prediction, 59:56
tool bag, canvas: Gould Shawmut, 40:66; Toolpak, 11:52
tool catalogs: cutters/drills, 20:56; laminating tools, 18:54, 20:8, 25:59
tooling, for custom/one-off boats, sandwich
construction: absence of female
tooling/New Zealand, 55:58; birdcage
(open) molds, 10:42; fairing techniques,
10:42; full-surface molds, 10:42; for
megayachts, 2:42, 3:5, 32:18, 47:34
tooling, troubleshooting: panel camber,
21:50; polystyrene hazing, 22:12;
porosity, 21:50; pre-release
(assymetry/instability) problems, 31:20,
50:46; print-through, 21:50, 50:46; print-
through transfer to, 7:50; resin shrinkage,
21:50, 32:18, 50:46; static discharge,
22:12; surface reactivity/sticki
ng of parts, 22:12; video on, 25:59
tooling foam: high-density/megayacht, 32:21.
See also epoxy syntactic tooling foam
tooling gelcoat: Armorcote, 13:80; and mold
release/surface reactivity, 12:27, 13:11,
22:12; porosity, 21:50; post-curing, 12:27,
12:30; surface cracking, 22:12; thickness,
21:50, 22:12
tooling resin system: Polylite Profile 33540-
00, 16:52
tooling, water soluble, 103:44
tools: forensic composite testing, 87:62Proto
Blackhawk PT-1050-2 automatic wire
stripper, 141:30
tools: insuring (employees’), 7:28, 8:64;
metal sealer for, 24:62; storage (boatyard
in a box concept), 21:38, 87:46. See also
specific tools; tool catalogs
tools, air. See compressed-air (pneumatic)
tools/systems
tools, power, combination: panel saw, 21:60
tools, power, hand-held/portable/cordless:
bionic wrench/Loggerhead Tools, 112:10;
cordless 18V Track Saw/Festool, 160:8;
cordless Rotary 18V Hammer
Drill/Festool, 160:8; drill/driver, 48:86,
49:24, 49:25, 60:104; drills/saws for
sample cutouts, 49:24, 49:25; dust
collection/extraction systems, 28:38,
87:10, 144:10; ergonomics, 37:71;
ergonomic screwdrivers/Wera Tools,
112:10; geared orbital sanders/Sioux
Tools, 125:8; holesaws, 49:24; holesaws,
storage of, 87:46; HP-7 Shoulder
Plane/Bridge City Tool Works, 112:10;
hurricane preparations, 27:18; for
repairing carbon, 144:10; rubber disc
tipped with tungsten carbide
studs/Tercoo, 141:30; Toolympics, 50:11
tools, power, stationary: buying used, 48:56;
dust collection/extraction systems, 28:38;
machining/milling, 48:56
Torin. See Airex (linear PVC) foam; Core-
Bond bonding putty
Torit: dust/particle separator, 28:38;
Environmental Control Booth (ECB),
28:38, 28:46, 28:47
Torres, Claude: sportfisherman designer,
87:16
Torreson, Gordon: on keel
attachment/fasteners, 40:4
Torrid Marine: Vibraseal water and corrosion
resistant thread sealant, 140:7
Torr Technologies Inc.: tools for vacuum
bagging, 31:68
Total Quality Management (TQM) systems:
25:52; lofting, 38:14, 38:38. See also
product quality/quality control; production
boatbuilding, manufacturing/production
Townes, Brooks, author: “Adjustable
Tooling,” 67:128; “Bill Munson’s Story,”
58:66; “Kazulin Boats Ltd.,” 65:52;
“Making of a Passagemaker,” 57:123;
"Mitigating Impacts," 70:66; “More on the
Boat, the Builder, and the Naval
Architect,” 67:98; “SeaArk,” 69:52;
Townsend Bay Marine: 63:10; infrared scan of water intrusion, 85:22; job management system, 68:44
Toyota Marine: Epic 21/22 waterski boats, 56:10; recyclable aluminum boats, 54:43
TPI. See Tillotson-Pearson Inc. (TPI)
TR Industries: mold-release system/application, 12:27, 12:28
Trace Engineering: inverter supplier, 25:34, 25:40
Tracker Marine: acetone reduction/replacement, 33:26; BaltekMat applications, 7:50; CAD/CAM applications, 7:18; dealers/customer satisfaction/TQM, 25:52; dust collection/extraction system, 28:38;
Hamberger, Sylvan “Ham”, obit for, 158:8; tornado/rebuilding, 39:90; use of specialty plywood, 16:12, 27:42
trade associations, marine. See marine trade associations
trade deficit: powerboat surpluses vs. foreign supplier clustering, 74:96
trademarks: conflict/Calypso Inflatables, 14:4; trade-dress protection, 42:68, 110:118. See also patents
trade shows: IBEX, 55:3, 60:27, 60:136; international/Fort Lauderdale, 55:16; international/Marine Equipment Trade Show (METS), 55:3. See also boat shows
trailerable sailboat: Rio Hondo 40S prototype/Scott McClintock, 112:22
trailering: point loading/chines, 58:79, 60:5; pivot point on brace trailer/Rigging Solutions, 130:10
trailers, hydraulic: Brownell Boat Works, 22:32, 57:133, 60:27, 66:64, 71:88; custom-built/tilt/Morse Overland Marine, 135:58; evolution, 57:133. See also boat transport
Traina, John: and Newcastle Marine profile, 130:28

Tramex Inc.: moisture meter, 3:60
transducer, depthsounder: internally mounted/drag reduction, 45:29; 94:18; dual-element transducers, 150:60; limitations, 150:60; variations on UT (ultrasonic testing) transducers, 150:60
transfer efficiency. See painting techniques, spraying
transom, plywood-cored: vs. fiberglass, 40:54, 41:5; installation, 6:5, 69:70; problems/repairs, 29:8, 32:44, 32:45, 69:70
transom door: latch for, 3:60; one-piece and two-piece doors, 69:92
Transpac: Merlin. Santa Cruz 70/builder and designer Bill Lee, 161:8; TP52 class, 154:36
traveler-car: with cam-matic cleats, 3:60
Travellift: evolution of, 57:133; maintenance/safe operation, 50:38, 53:4; vs. marine railways, 57:133; mammoth 600C model, 110:12; pier for/environmental regulations, 27:8; strap use recommendation, 142:18. See also boat lifts/hoists; boat storage; hauling and launching
trawler yachts: Arthur DeFever design, 144:10, 151:96; Grand Banks/Spray/American Marine, 151:96; Kettenburg Boat Works, 102:3; Northern Marine, 57:123; North Sea trawler type/Dardanella, 58:13; restored shrimp trawler, 2:12
Trellex Morse: Deep Sea Seal (Trellcraft Seal), 29:14, 29:21
Trend-Lines: Dyna-Pressure four-way clamp, 12:60
Trend Marine (UK): carbon fiber sunroofs, 101:12
Trenhaile, Brian E.: on free-surface correction/stability testing, 44:5
Trenton Marine. See Able Marine
Tres Martin’s Performance Boat Driving School, 133:60
Trevisan, Amador Henrique: on metric conversion standards, 96:4; on ethanol usage in Brazil, 109:6
tri-bowed boat: plenum mold for, 96:6
Tricel Corporation: kraft-paper honeycomb core, 22:20, 24:4, 32:52; Tripanel/Marine, 32:52
Trico Welding and Marine Repair: 60’ shrimp trawler, 2:12
Tricon: Ward Setzer-designed Nisi powerboat/China, 128:38
Tricycle: use of to transport tools/Sadgrove’s Quay, 91:20
Trident Rubber: exhaust hose/SAE-compliant, 43:44
triangular hullform: hydroplane, 59:10;
Stolkraft, 49:42
Tri Lark Boats Inc.: profile, 53:12
Trilling Medical Technologies: Water-Jel burn care supplies, 8:54
trim, edge: Quick-Edge trim, 5:26
trim, hull: ballast correction for, 64:46; non-metallic stabilizers, 35:58, construction considerations, 87:46
Trim-Lok cover treatments, 115:18
trimarans, power: circumnavigations, 50:11, 63:86, 72:84; commuter/seaplane hybrid/Xtreme Xplorer, 57:15; electric/wave-piercing, 50:11; fuel-efficient Yanmar Endeavor (Morelli & Melvin design), 72:84; market for, 6:25; outsourcing/framing kits, 37:16, 37:18; trimaran ferry hull/North West Bay Ships, 95:6
trim tabs: cure for dynamic instability, 34:5, 58:26, 126:38; for minimum resistance, 58:26; in surface-piercing prop, 121:78; Rocket Flaps, 34:59; Lenco electro-mechanical, 7:64; vs. stern flaps, 70:81; when and how to add, 75:140
Trinity Yachts: aluminum-fiberglass construction, 17:19; carbon credits program, 117:26; and Dometic in-duct air purifier, 141:6; noise/vibration control, 5:42; recession business strategies, 121:62
Tri-State Custom Fiberglass: C-Hawk Boats/foamed urethane board stock, 37:48
Tristram Boats: fizzboats, 54:43
Tritt, William (Bill): and fiberglass mast, 134:62; fiberglass automobile bodies, 133:8; profile/early fiberglass/Glasspar, 41:58, 60:116, 60:118, 60:120; 132:6
Triumph Yachts: interior design, 6:34
Troberg, Dick, author: "The Other Stray Current," 105:96, 107:4
troop carrier: Russian WIG (wing-in-ground-effect) craft/Daniel Savitsky, 126:64

Trophee Jules Verne round-the-world race: contenders PlayStation and Goss Challenger, 58:13, 60:11
troubleshooting: process control system, 112:88

TruDesign: glass-reinforced nylon raw-water plumbing components, 143:10; valve position monitors, 143:10

True Marine: Speedseal pump cover, 53:89

Truja, Vasil: on Green Star Class/hybrid power yachts, 119:4

Trumpy boats: restoration of/Moores Marine, 109:60; jackstand for/Moores Marine, 142:18

Tsai-Wu evaluation, 156:40. See also finite element analysis

Tsouvalis, Nicholas G.: hat-section stiffeners, 77:5

T-Torque Drive System, Inc.: surface-piercing drive system, 18:54
tube-bending machine, 120:38

Tubular Compartmentalized Integrated Hull Construction, 105:12

tuberculosis: exposure/OSHA rule, 36:74

Tucker, Wayne: on galvanic blistering, 57:32

Tucker, Wayne, and Richard Brown, authors: “Galvanic Blisters in Carbon fiber Laminates,” 57:30
tug-and-barge, integrated: CATUG catamaran chemical carrier, 43:36

Tug-Boat Products: laminating rollers, 6:52
tugboats: designs/yard boats, 42:34; “gentleman’s tugboat,” Benjamin Bates/Tim Graul, 110:68; Godzilla
tuna towers: aftermarket niche/Rybovich, 14:26, 14:32; backing plates for primary leg, 139:84; Boca Jima aerodynamic tuna tower, 101:38; installation/safety, 42:88; tower shop/J & J Marine, 104:78; lightning protection, 43:64; outsourcing/quality control, 35:4; PipeWelders Marine builders, 67:13; tower-mounted lights, 101:38

Tunco Manufacturing, Inc.: abrasive tools, 25:59
turbocharging. See Andrews, Alan.
turbulence: model testing vs. full-scale testing, 58:6; and propulsive efficiency, 46:5; stimulators, 58:6

Turkey: METYX Composites tooling center, 135:6; Yonca-Onuk JV/Fabricator’s Excellence Award, 84:18; Vicem Yachts, 102:34; on shipyard conditions in, 104:4

Turner Yachts: low-temp pre-preg construction, 64:82; switching to pre-pregs, 63:151
turning systems. See hull lifting/rolling/turning systems; roto-molding

Turn Point Design: CNC-cut composites tooling/parts, 137:2; and Northwest School of Wooden Boatbuilding, 137:44

Twaron: para-aramid, 158:54; use of at Elling Yachts, 158:54
twelve boats a year business plan, 123:10; 12-Meter class: last wooden 12-meter/America’s Cup, 135:14; 1997 Regatta, 50:11; velocity prediction program/math model/Van Oossanen, Peter, 121:50

2HO: Quokka IV/cored structural laminate, 52:30

Tyvek suits. See suits, Tyvek
U-bolt: Wichard’s waterproof, 24:62
Ullberg, Robert, designer: cold-molded sportfisherman hull, 81:10
Ullman, Johan, Dr., author: “Designing Consoles for Speed,” 141:62; “High-Speed Handlebars,” 159:56; Offshore Race Open to Workboats,” 147:10; “Slamming Standards,” 149:48
Ullman, Johan, Dr.: High Speed Boat Operations (HSBO) Forum, 150:10; inventor, shock-absorbing seat and control system (the “Ullman Cockpit”), 70:66; “JockeySeat,” 70:66; suspension seats for Storm interceptor/Armstrong Marine, 152:36
ULMW-PE. See polyethylene, ultra-high molecular weight (ULMW-PE)
Ultimate 20/Ultimate 24: Jim Antrim, 76:60
UltraJet, water jet: 67:70
Ultra Safety systems: Ultimate Pumpswitch, 32:52
ultrasonic test equipment: for diagnostics/surveying, 35:42, 40:4, 150:60; Krautkramer Bransom flaw detector, 40:4; Quantum QFT-2 scanner, 17:58; Rayleigh-Lamb waves (surface waves), 150:60; techniques and applications of, 150:60
UltraSuede: used in interiors, 3:60, 6:34, 6:39; source, 3:60
ultraviolet light. See photo-curing resins; UV (ultraviolet) degradation; UV (ultraviolet)-resistant coatings
Umlauf, Wayne E.: on design challenge winners’ designs, 124:6
Umoe Mandal, Norwegian shipyard: 65:84
underwater cameras: in sportfishermen, 64:11
underwater lighting, 115:74, 117:5; DeepSea Power & Light/high impact lights, 117:5
underwater movie camera, 133:12. See also Whitman, Dudley.
Unexpected, Carolina-style sportfisherman: lightweight furniture and joinerwork for, 76:80, 92:76
Unger, Wolfgang: on acrylics (osmotic resistance), 15:60; on blister prevention/resistance, 15:13, 15:60; poured-core transom repair, 32:45; Seawolf Industries/FRP recycling, 60:82
Unified Safety Corp.: chemical-storage buildings, 4:58
Uniflite Boatbuilders: PRB (river patrol boat) Mark I, 54:18, 57:7; PRB Mark II, 57:7
Union Bay Shipbuilding: NC cutting/lofting, 7:18
United Process, Inc.: Sound Seal soundproofing systems, 9:56
United Resins Corporation: epoxy syntactic tooling foam, 6:52
Universal Motors: M3-20 diesel engine, 2:70
Universal Rule, 61:76
University of Michigan: Marine Hydrodynamics Laboratory/model testing, 56:26, 56:38; naval architect and marine engineering program, 101:106
University of Rhode Island: boatbuilding vocational training program, 46:10
UNIX-based software: in five-axis routers, 61:102; Guido Perla and Associates ship-design firm, 74:68
unmanned surface vehicles (USVs):
  surveillance drone boat, 88:14;
  Owl/Robert Murphy, 88:14; X-1 Concept vessel/ Harbor Wing Technologies, 133:96
unreliability of industry self-certiciations, 158:3
upholstery/cushions: bedding
  fastenings/water ingress, 37:48; Belina Interiors shop, 97:108;
  design/production/Cobalt Boats, 28:32; at Cruisers Yacht shop, 114:68; fabric cleaner, 38:55;
  fabrics/patterning/measuring, 32:15, 34:28; interior design update, 6:39;
  outsourcing vs. in-house, 37:16, 133:84;
  performance boat seats/Outerlimits Offshore Powerboats, 133:84; upgrading interiors, 32:15; weight savings/Cigarette Racing Team, 12:18. See also fabrics, marine/upholstery
urea-formaldehyde adhesive: Weldwood, 51:36
urethane adhesives:
  description/applications, 41:44; Sikaflex, 29:8; 3M, 29:8
urethane caulk/adhesive: 3M 5200, 1:46, 15:21, 20:32
urethane coatings/paints: HVLP spraying techniques, 34:35. See also urethane gelcoat
urethane coatings/paints, solventless: testing of/ocean rescue vessel, 4:30
urethane flotation foam: medium-density foamed board stock, 37:48;
  waterlogged/diagnosis/repairs, 37:48, 37:58. See also flotation foam
urethane gelcoat: Ultrachrome 4005/epoxy laminates, 49:59, 49:60
urethane-polyester resins. See polyester-urethane hybrid resins
U.S. Air Force: paint removal methods, 7:8
U.S. Army Corps of Engineers: dredging, 51:11
U.S. Army Research Laboratory: “smart” composites workshop, 48:4

U.S. Department of Defense (DOD): acquisition/design, 52:43; assault support patrol boat, 146:24; composites testing/research (Naval Undersea Warfare Center), 34:42, 48:4, 48:35, 53:40, 57:30; composites testing/research/carbon fiber, 57:30; downsizing/carbon fiber costs, 26:4; downsizing/skills cross-over to boatbuilding, 25:64; downsizing/technology transfer to maritime industry, 42:39; stealth technology, 46:45, 48:4, 53:40. See also Carderock Division, Naval Surface Warfare Center; military vessels; Navy boats/contracts, U.S.; U.S. Navy

U.S. Marine Corps: small unit riverine craft (SURC)/SAFE Boats International, 85:64


USA 76, America's Cup boat: conversion from raceboat to work boat, 140:22

used-boat market: class maintenance, 39:80; competition with, 11:34, 12:4, 39:70; market strategy, 10:2; megayachts, 12:50; orphanage/networking service, 57:15; recycling programs/U.S. and Europe, 60:82; retrofit program, 18:4; sailboats/Catalina, 35:34; sportfishermen/Bertram, 10:2, 39:70

US Marine: acetone reduction/replacement, 33:20; DCPD laminate repairs, 52:67; fiber-to-resin ratios, 59:30; and ISO scantlings, 63:38; safety inspections, 15:50; standardized lab testing, 50:46; waste reduction, 37:66

USM Corporation: Socket-Drive Polytops polymer-headed screws, 44:54


U.S. Naval Academy: Hydromechanics Laboratory/model testing, 56:26, 56:38; 150th anniversary, 38:51

shocks, 91:172; “smart” composites R&D, 46:45, 46:50, 48:4; stealth technology, 46:45, 48:4, 53:40, 73:120. See also Carderock Division, Naval Surface Warfare Center; Navy boats/contracts, U.S.

U.S. Paint: Awl-Fair, 23:54; Awlgrip/product support, 60:27; Awlgrip 2/alternative LPU paint, 45:5

U.S. tonnage (admeasurement) system:
- aluminum yacht construction, 26:4; speed prediction, 59:56. See also tonnage/admeasurement laws

USWatercraft: acquisition of C&C Yachts brand, 147:38; J/24 keelboat, 147:38; profile/diversification/product development, 147:38

Utility Composites, Inc.: Raptor plastic/composite nails, 31:68, 32:52

UV (ultraviolet)-curable coatings and adhesives. See photo-curing resins

UV (ultraviolet) degradation: and black silica frit/Simson Fast Tack, 83:72; of ABS plastic, 10:34; of plastic sea valves, 8:42

UV (ultraviolet)-resistant coatings: gelcoat, 2:72; UV/96 sealant, 15:44

UV-PPG (UV-cured pre-pregs). See photo-curing resins

UV-VARTM (UV-cured, vacuum-assisted resin-transfer molding). See photo-curing resins

Vacanti Yacht Design Software: keel-design program, 24:26, 24:32; Prolines Basic, 30:60, 33:69; Prolines design/fairing software, 8:35, 17:58, 33:69

vacu-forming: molds/mechanical bonds, 49:59; thermoplastics development/construction (Old Town Canoe), 10:34, 11:20

vacuum-assisted resin-transfer molding (VARTM). See resin-infusion molding/processing


vacuum-bagging, applications/techniques:
vacuum-flow molding: Marco method, 26:44, 32:28
vacuum probes/valves (frogs): machined-aluminum/sources/cost, 43:24, 45:5; shop-made, 30:18
vacuum pumps, types/applications:
Vaitses, Allan (boatbuilder): on professional engineer licensure, 100:120; profile, 71:88
Vaitses, Allan: on 48’ Hunt deep-V Active and cold-molded 48 Prelude, 73:5
Vaitses, Steve: on Parting Shot (Professional BoatBuilder No. 100, page 120) photo of upright hull and wheels used to rotate it, 101:4
Vamarie, Abeking & Rasmussen ketch: mizzenmast mystery prop, 68:11
Vanadia, Peter: on adhesive/sealants, 29:4
Vance, John: on Tricel paper honeycombs, 32:52
Van Abbema, Mark: Design Challenge/Mark V 36 Commuter, 129:18
Van de Stadt Timber, and Bruynzeel Plywood, 119:6
van der Pijll, Bram: Bootdump boat disposal and boat recycling, 160:40
van der Velden Marine Systems: hubless thrusters, 120:38
van der Velden, Rene: designer/73’ superyacht, 58:13
Van Dusen, Ted: on carbon fiber laminates/fittings/galvanic blistering, 57:30; profile/composite racing shells/kayaks, 41:28, 41:30, 106:112. See also Composite Engineering, Inc.
Vanguard Racing Sailboats: profile/Plexus structural adhesive, 52:81; roto-molded multihulls/playboats, 54:18; Sunfish-Laser acquisition, 49:74
van Heerden, Christiaan, author: “Three from Southwest,” 57:110
Van Lancker, Peter: American-Chinese joint venture/Dynasty World Yachts, 103:122; profile of, 81:26; Black Watch 30 sportfisherman, 81:26; turnaround at Chris-Craft, 80:48
van Meer, Olivier, designer: 63:10
Vanner, Inc.: inverter supplier, 25:40
Van Oossanen, Peter van: fast displacement hullform (FDHF) concept, 134:6, 154:12; hull vane, 154:12; tank testing, 121:50, 134:6, 154:12; Australia II, 121:50’ Van Peer, Chris, boatbuilder: threatened boatyard closure, 61:10
Van Peteghem Lauriot-Prevost (VPLP): design of hull and appendages for Commanche/Hodgdon Yachts, 153:20; l’Hydroptere trifoiler, 116:46; luxury catamaran/Aikane 56, profile of, 91:154; ORMA Belgacom, 91:154; Alex de Beaufort/Nacira Design, 112:10
Van Sickle, Jan: on profitability, 21:4
Van Tassel, Gary: 34’ sportfisherman, 2:12, 15:34; on DuraKore strips, 15:34; interior joinerwork/CAD/CAM applications/software, 40:42
Vari-Pitch: hydraulic, computer-controlled propeller, 78:12
varnish, phenolic: applications/tips, 19:36
varnish, urethane/polyurethane: applications/techniques/performance, 19:36; AwlSpar, 19:36; Cetol Marine, 20:56; Epifanes, 19:36, 24:58; Pettit Ultra-V-Gold, 11:52; Stoppani two-part, 26:54
varnish, waterborne acrylic: shop testing, 24:58; Target 2020, 23:54, 24:58
spraying techniques, 19:36; tools/supplies, 19:36
VARTM (vacuum-assisted resin-transfer molding). See resin-infusion molding/processing
Vaughan, Robert (Bob): environmental waste management manual, 27:8; on HVLP spray systems, 34:35. See also Seal Cove Boatyard
Vavolotis, Andy: Cape Dory founder, 65:11; on Cape Dory/survival strategy, 13:80; fast solo trimarans, 65:11
VDO/Yazaki Corp.: Vanguard instruments/gauges, 21:60
Vectorply: VectorFusion fabrics, 114:10
Vector Systems Inc.: paint booth design/engineering, 42:24
VectorWorks International: 62:12, 71:3; tooling analysis, 71:106, 79:10
Vectran: backstays vs. PBO-fiber backstays, 64:64; sailcloth, 41:58
VEEM Limited: CNC machined Interceptor Technology/polymer re-pitching strips for propellers, 119:6
velocity prediction program (VPP): prepreg Kevlar/S-glass/foam/Growler/SP Systems, 154:36; at Van Oossanen and Associates (The Netherlands), 121:50
Velting, Ray: EC (EU) certification process, 41:38, 41:41
Vendée Globe Race: and Open 50, 65:24; IMOCA 60s, 162:52
veneers, hardwood: control samples, 97:108; custom milled/Rybovich, 25:42; Hardwood Plywood & Veneer Association buyer’s guide, 23:54; matching color and grain/Belina Interiors, 97:108; Oberflex prefinished laminates, 35:58
vent, air: blowers, 109:128; fundamentals and calculations for passenger compartments, storage spaces, and heaters, 109:128, 115:6; generator vents,
Vic Franck Boat Company: profile, 64:96
Vic Frank’s: varnish work, 19:36
Vicem Yachts: profile of, 102:34
Victron Energy: electrical generator testing, 113:56, 114:4

video cameras, low-light: CCD (Charge Coupled Display), 35:42; subminiature, 35:42
video production: development/scripting, 16:22, 16:26; on-location strategies/costs, 22:42, 22:45, 22:49
video sequencing, 139:40
videos, training: as efficiency/productivity tool, 29:22; on gelcoating, 23:54; on laminating/composites, 4:58, 24:58

Vietnam: Luc Vernet/Eastern Design/3D modeling, 113:10; promotion of yacht industry in, 66:11
Viking Fender Company: extruded monomer closed-cell foam collar/Spanish pilot boat, 78:86
Viking Yacht Company:
advertising/marketing, 6:42; builder profile/product lines, 46:16, 46:26;
designing for production, 2:60, 96:3; “the hot hut” fireproof disposal site, 131:54;
interior design/mock-ups, 6:34, 37:26; 68’ Convertible, 46:16, 46:26
Viktoria/”World Peace”, stepped hull hydrofoil, gift to Richard Nixon, 63:10
vintage raceboats, 79:3, 72
Vineyard Vixen 34: and restoration renaissance, 136:4. See also Howell, John.
vinyl ester and polyester hybrid resin: Hydrex/megayacht, 32:18, 32:21
vinyl ester primer/putty: Duratec/tie coat/print-through prevention, 34:21, 42:59; shrinkage/painting, 52:54

vinyl ester tooling gelcoat: tie coat/epoxy laminates, 49:59

vinyls, marine: cleaner for, 38:55; Magic Touch, 6:39; Majilite, 6:39; Nautolex, 6:52

vinyl toluene: styrene substitute, 10:8

Virginia: licensure as PE/naval architect, 47:24;

Virpack Yachting: Dardanella trawler yacht, 58:13

virtual boatyard: 62:12; Nigel Irens, 63:86; Specialty Marine Contractors, 63:145

virtual engineered composites (VEC), 78:94, 101:62

Visby-class corvettes, 53:40; 124:26

Viscom International, Inc.: TBS polyurethane deck covering, 8:54; Wichard’s waterproof U-bolt, 24:62

vise: Tucker Vise, 13:70

Vise-Grips: 12LC Large Jaw, 35:58; for screw removal, 23:20

Visual Inspection Technologies: fiberoptic borescopes, 35:42

Vitters Shipyard: profile/Dutch builder of superyachts, 58:13

Vladimer Nazor: conversion to yacht Seagull I, 100:4

Vlahovich, Mike: on vocational training programs, 20:21

Vlahovich Boat Corporation: vocational training, 20:21


Voegeli, Ron: Bayview Edison Industries/American Expedition Yachts, 106:92

Volkswagen: software rigging on engine management systems for diesel cars, 158:88

Vollmer, Michael: on Rio Hondo 40S/Scott McClintock, 113:4; on powerboat stability and ISO standards, 114:4

voltage regulator, multi-step/"smart": backup for inverter, 25:30; cables/connections/DC system, 20:50; diode/voltage drop, 20:50; for house battery bank, 39:56; selection/performance, 19:50, 19:55; sources, 19:50, 19:59, 39:56. See also battery chargers, marine; DC electrical systems/equipment, charging systems


V12 Ferrari motor: use in hydroplane raceboat, 159:10

von Zeppelin, Ferdinand. See also ZF Marine.

Vosper Thomeycroft: 115’ power trimaran, 50:11, 55:16

Voyager Marine Power: gas inboard engines, 17:44

VPLP (Van Peteghem Lauriot-Prevost). See Van Peteghem Lauriot-Prevost.


Vripack Yachting (The Netherlands): electric propulsion luxury barge, 135:6; profile of, 108:44; low displacement/LDL powerboat hullforms/Ned 70, 147:18; SmartKits CNC cut metal kits for Gamma 20 steel
motoyacht hull, 148:46; Wajer Osprey powerboat, 101:12
"VSV" (Very Slender Vessel): wave piercer, 62:46; Mary Slim motoryacht/Adrian Thompson design, 119:6
Vulcan Catalytic Systems: catalytic heaters (blister repairs), 8:54, 16:42, 17:11
Vulcan 3D: portable laser measurement system, 66:110

Wabbit boat: Tom Wylie, 75:38
Wachmann, Amy L.: on Callan Marine's high-performance powerboat, 68:5
Waddell, Willie: on Rocket Science/flat-panel construction, 45:62
Wadson, Trixie, author: "C-Class Repairs Define Little America's Cup," 128:8; "Juan K," (Dan Spurr, co-author), 127:72
wages. See payroll/wages
Wahoo Boats: sportfisherman, 2:12
Wakefield, Darryl: on FRP megayacht/Admiral Marine, 32:18, 32:21
Walbro: Series 6000 marine fuel pump, 26:54
Walden Paddlers: outsourcing/kayaks, 37:16 walkaround sportfishing yachts, offshore: 87:16
Walford, Peter: on sailing market/multihulls, 23:4
Walker, John: libel litigation, 39:90
Walker, Rob: on New Zealand boatbuilders, 55:58
Wallace, Bill: on Oil Change Delayed/filter element systems and centrifugal spinner systems, 146:4
Wallas Marin: cabin heaters/carbon monoxide protection, 45:32

Wallstrom, Bob: on engine mounts/Luders, 36:4
Wallstrom, Bob: Yacht Design Institute correspondence courses, 101:106
Wally Yachts: profile/Magic Carpet, 51:100; winged Wally 118 powerboat, 78:12
Walsh, Barbara Jean: on Ernie Braatz/obituary, 44:18. See also PILOT directory
Walsh, Gerritt: on boat shows/marketing, 36:60, 36:64
Walsh, Shawn: SMARTweave, 46:45
Walsteds Baadevaert: yacht restoration/Kong Bele, 52:12
Walters, Craig: Clearwater Electric Boats, 43:17
Walters, Walt: designer profile, 3:27, 132:36; on designer-builder relationship, 3:27; 132:36; obit, 160:8
Wander Bird, fantail schooner: 65:11
Ward, Dave: on ultrasonic inspection/surveying, 35:42
warranties, product. See product warranties; repairs, warranty
Warren, Rob: on ozone-clean marine refrigeration/service, 26:17
Warsash Maritime Center: advanced composite materials course, 67:13, 69:125
Warsash School of Nautical Studies: 61:30
Warsash Operations Center of Safety and Survival: 61:26
Washburn & Doughty (Maine): Bulldog, Z-drive tug, 104:12; fire destruction, 127:104
Washburn, Richard, author: "A Voice from the Boatshop Floor," 39:54
Washburn’s Boat Yard: customer education, 35:52; management, 35:25
wash-down system: Baudoin Ocean Wash Systems with extendable poles, 131:54; Manual Wastewater Treatment System for wash-down, 134:6; painting preparation/aluminum boats, 37:36
Washington County Technical College: vocational training program, 20:26, 22:51, 41:3
Washington state/Puget Sound: boat-noise legislation/PWCs, 43:75, 44:49; bottom paint/hazardous waste disposal, 31:10; IBEX-West, 42:5; jetsprinting, 57:15; licensure as PE/naval architect, 47:24, 49:4; luxury yacht market, 26:51, 34:55; 40:24, 40:28; Superyacht Northwest boat show, 26:51, 34:55. See also Munson Manufacturing/Munson, William E. (Bill)
waste, solid. See boatyard waste disposal/reduction/compliance; recycling programs
waste-collection systems: runoff/paint removal, 6:8, 7:8, 7:13, 31:10, 120:4; 134:6; Manual Wastewater Treatment System/David Flagler, 134:6; paint separator, 8:54; Vanish 300 Hybrid Wastewater Treatment System, 120:4; water-recycling system, 31:10, 31:68, 120:4
water ballast, sailboats: and box rule sailboats, 153:52; articulating seawater scoop/Sofo Scoop/Sofomarin, 153:52; movable water ballast, 153:52; consequences and complexity of stability calculations, 153:52; water ballast, and angle of heel in multihulls, 62:46; vs. swinging keel, 65:24
water-based topside coatings: Oleronlac’s one- and two-part waterbased products/ Marine exterior surfaces, 105:12
waterborne and waterfront structures: 62:12 waterfront design. See boatyard waste disposal/reduction/compliance
water-jacketed infusion table, 125:54
waterjet drives: cracking around waterjets and transom/welding, 137:56; intake

waterline: pattern for/AutoCAD, 45:86

Waterline Yachts (British Columbia): profile of, 83:72

watermaker: maintenance, 66:26; Seafari mini watermaker/Horizon Reverse Osmosis, 107:14; sizes and capacities, 66:26; sources, 66:26; space-saving, 3:60

water paste: bilge oil indicator, 31:59


water-powered systems:
hydrogenerator/Watt&Sea, 130:10

water-soluble molecules (WSMs): dissolving glycols/blister repairs, 15:13, 15:60, 16:42


Watson, J.R.: on Gougeon’s Stresform (tortured plywood) spar construction, 14:8; on WEST SYSTEM ® resin system and Adhesive Technologies Ltd., New Zealand, 72:5

Watt&Sea: transom-mounted hydrogenerator, 130:10

Wave Adaptive Modular Vessel prototype Proteus, 107:14

wave data: in relation to motion sickness, 61:82; strip chart readings for height calculations, 67:31

wavemaking: eddy-making, 58:26; prediction/reduction of/displacement hulls, 26:31, 28:6, 29:4, 58:6, 58:26, 60:66

149:56; Sonny Levi designs, 135:26;
*SpeedDream* sailboat prototype/Vlad
Murnikov, 141:24
Very Slender Vessel
(VSV)/Adrian Thompson, 74:54, 109:18
Wave Piercers New Zealand Ltd., 54:43,
54:44
wave slam effects: accelerator recorder
device/Dyena, 142:8, 144:80; analyzing
accelerations, 141:36, 142:8, 144:80;
ARES motion control system/Navatek
Ltd., 143:6; vibration and shock effects,
144:80
wax: antifoulant/Zebra products, 8:54;
carnauba, 12:27; copolymer (for gelcoat),
15:44; mold-release/types/application,
12:27, 12:28, 60:118, 60:120; paraffin
(surfactant/styrene suppressant), 8:28,
vacuum-bagging, applications/techniques; wood construction, composite cored/sandwich
weight (rig), controlling reducing: ballast shifting/canting keel, 47:17; spars, 29:8, 47:34, 47:44, 47:52, 47:53. See also carbon fiber
Weisburger brothers: RIB builder/Zodiac-Hurricane, 48:50
Weiss, Steven, author: “Neo 41,” 151:44
Weiss, Steven: profile of Steven Weiss Yacht Design, 130:10; The Clam, folding rigid inflatable boat (FRIB)/Steve Callahan, 71:6; 130:10
Weissman-Berman, Deborah: computer analysis of laminate strength, 2:42; plastic memory/laminate analysis, 53:4
Welch, Steve: on The Stick-on Solution and adhesive bonding vs. self-tapping screws/Click Bond Inc., 147:6
Welch, Tom: Preferred Data Corporation/custom accounting software, 57:74, 57:92
weld decay: galvanic/intergranular corrosion, 32:41
welding fumes: Worbst vacuums, 87:10
welding, hot-air: of polypropylene water tanks, 20:56, of polyethylene holding tanks, 162:38; of PVC and polyurethane-coated fabrics, 67:5
welding, plastic. See plastic welding
welding, steel: CO2 welding/Cheoy Lee, 103:112; explosive bonding process to aluminum, 63:106, 132:18; heat distortion, 103:44; Precision Light Systems’ Laser/Gas Metal Arc Welding process, 103:44; weld decay, 52:18
welding fumes: exposure limits/1989, 1:30
welding supplies: aluminum spool guns vs. Millermatic 350P pulse arc welding power supplies, 118:8; CoolBand and CoolBelt for welding helmet, 126:8; Fresh-Air system, 39:98; Invision 352 MPa Plus MIG Runner Dual Wire Feeder system, 126:8; Speedglas auto-darkening lens, 39:98; Zytel nylon helmet, 39:98
welding, titanium, 132:62
Weldwood plastic resin: applications, 51:36
Weldy, Keith: on carbon-monoxide alarms, 45:32
Welin, Ed: on Jim Staley (obituary), 9:5
Wellcraft Marine: acetone
reduction/conversion to DAA, 33:20;
advertising/marketing, 6:42; former site
now home to branch of Marine Concepts,
151:68; gun-applied methacrylate
adhesive, 75:58; CAD/CAM applications,
7:18, 8:35; offshore speedboat handling
classes, 63:10; shrink-wrapping
(storage/transport), 18:28; stepped 25'
Nova 3, 5:52; syntactic foam applications,
7:50
Wells Marine Technology, Inc.: Batt Link
automatic paralleling device, 39:56; Batt
Maxx automatic paralleling device, 39:56
Welshan, Danny: on acetone replacements,
33:20, 33:26
We-no-nah Canoe Inc.: builder
profile/composite canoes and kayaks,
49:36, 49:40; marketing/manufacturing,
4:34; Tuf-Weave, 49:36
Wernicke, Steve: on flotation foam, 25:52
Werner, Theo (yacht designer): retro
motoryachts, 65:11
Weskor: structural core material, 52:30, 54:5
Wesmar (Western Marine Electronics):
stabilizer systems, 15:70, 36:78
West Coast “box” rule: and Goetz Cutom
Sailboats, 73:54
West, Dan, author: “Modifying an Existing
Boat for Use as a Plug,” 16:7
Westerbeke: diesel engine for midsized
auxiliary sailboats and small displacement
powerboats, 122:12; generators, 122:64;
Westerbeke 4-107/Perkins block, 122:64
Westerbeke, John R.: obituary, 67:13
Westerly Marine: AmericaOne, 63:10;
DynaFlyer 40, 47:17; cruising boat Stealth
Chicken (Bob Perry design), 97:28; low-
temp pre-preg construction, 64:82; Morelli
& Melvin-designed 65’ catamaran, 127:94;
profile, 61:52; Rule 1162 compliance, 25:8
Western Boatworks: Titanic scale models,
58:13
Westland Industries: Tanspac II boat covers,
26:54
Westlawn Institute of Marine Technology:
correspondence design courses, 7:25,
47:24, 64:11, 152:6; buyers found/David
Smyth, 154:12; definition of yacht
designer/licensure, 9:64, 47:24; design
competition/Cruising World magazine,
104:12; Hargrave Memorial Scholarship
Fund, 43:36, 43:41; state-of-the-art online
learning system, 154:12; vocational
training program, 7:25, 20:26
Westlawn School of Yacht Design:
achievement ratios, 152:6; “Yacht Design
Lite” correspondence course, 64:11;
seeking buyer, 152:6
West Marine Products: Battery Combiner
automatic paralleling device, 31:68, 39:56
West Marine Products and Service: hull-
rotating units, 60:11; profile of, 91:66
Westport Shipyard: fabric impregnator
applications, 5:34; fiberglass megayachts,
2:42; G-Flex high elongation epoxy,
125:36; G-flex epoxy/one-piece stem and
keel/vintage Huckins motoryacht, 129:54;
outsourcing, 37:16; 85’ patrol boat, 60:11;
profile, 62:26; acquisition of Pacific
Mariner, 121:62; recession transition,
121:62; sea trials, 51:11;
transition/commercial fishing boats to
yachts, 40:24
WEST SYSTEM® products:
development/cold-molded sailing yachts,
51:36, 69:156, 73:54, 125:36; epoxy
putties (105/205), 39:27; high-modulus
epoxy, 45:54; metering/mixing systems,
White, Steve, author: “Teak Deck Reconstruction,” 1:46
Whitestone Corp.: Air-Vest, 29:58
White Tornado, vintage Bertram Nauteck boat/restoration, 162:76. See also Red Tornado
White Wings, W-class boat: collision with sister boat Wild Horses, 72:10
Whitman, Dudley: founder of Challenger Marine/obit, 133:12; underwater movie camera, 133:12
Whittaker Corporation: Bertram Yacht, 39:70
Whiticar Custom Boats (Stuart, Florida):
    Robert Ullberg-designed sportfisherman boat, 81:10; profile of, 104:58; building a custom sportfisherman, Boomer, 104:58
Wichard Inc.: stainless-steel marine hardware, 54:70; Wichinox cleaner, 54:70
Wilbur Boats: Wilbur 34 redesign/lifting strakes, 34:86
Wilce, Steve: thermoplastic boats, 10:34, 10:40
Wilco Marine Restoration Shop, 108:6
Wilder, Mike: on dealerships/marketing (Boston Whaler), 2:34
Wilderness Systems: WindRider trimaran, 52:12, 135:46; and venture capitalists, 135:46
Wild Horses, W-class boat: collision with sister boat White Wings, 72:10
Wild Oats (raceboat): canting ballast twin foils (CBTF), 95:76
Wilkerson, Warren: on boatyard fires/procedures/equipment, 1:50; on fire/property insurance, 7:28
Wilkinson, Phil: on New Zealand boatbuilders, 55:5
Willard Boat Works. See also Willar Marine Inc.
Willard, Winn: pilot boats/C. Raymond Hunt Associates, 150:34; on Rolf Eliasson design, 124:5
Williams, Bob: on ozone-clean marine refrigeration/service, 26:17
Williams, Dan: on marine advertising, 6:42, 6:47
Williams, Daniel, Inc.: advertising/marketing, 6:42
Williams, Paul N.: on marketing and promotion, 3:5
Williams & Hussey Machine Co.: W-7 molder/planer, 12:60
Willis Marine: flats/bay boat, 121:62, 125:8; kitted plywood outboard-powered sportfishermen, 125:8; recession business strategies/new markets, 121:62;
Wills, John: on composites development, 38:30
Wilson, Bruce: on interior design/Viking, 6:34; Viking product line, 46:16, 46:26
Wilson, Charlie: on advanced composites in the Adirondacks, 99:4. See also Moore, Jim
Wilson, Rich: Vendee Race 2009, 118:3
Wilson, Rory: on Odyssey batteries and testing of a KROS (kite, rowing, ocean planing, solar energy) boat project, 115:6
Wilsonart: screenprinted laminates/inlay program, 34:28, 34:32
wind blade production, spin-off income for boatbuilding, 127:42
wind-speed sensor: Autonnic/non-rotating parts sensor, 100:4
wind turbines/generators/blades: Air Marine/introducing new product, 56:18; as builder sideline, 33:36, 41:28; regulator, 56:18; stud bonds, 15:21; systems technician training/certification, 57:99
windlass: separate battery for, 39:56; vertical vs. horizontal, 93:76; electric handheld and foot switch types, 93:76
Windows software. See Microsoft wind prediction program: WinDesign, 159:60
WindRider International: RAVE hydrofoiler, 135:46, 139:108; rotomolded polyethylene trimarans, 135:46
Windrose, schooner: Alustar hull, 89:50

windshields: design/safety, 42:88, 48:79, 114:30; tempered glass, 81:42; enclosed flybridge windshield/Ovation 52 powerboat, 118:8
windshield wipers, 114:30, 115:36; waterproof 2.5 model/AFI Inc, 116:10; vertical wipers/Motor Lifeboat (MLB) 47, 117:44
Windship Trident Shipworks: one-of tooling, 10:42; post-curing epoxy, 14:45; 65’ sloop Amoco Procyon, 6:20, 10:42, 37:66
Windsor Craft: replica boats, 18:20, 19:4
Windsor, Crayke: on Tab A Into Slot B and aluminum kitbuilders/Alabama/Louisiana, 150:4
Windward Passage, ocean racer, 151:24; builder Carl (Chappie) Chapman, 154:4. See also Gurney, Alan
Windward Isles Sailing Ship Co. Ltd.: sailing barque, 52:12
Wing Inflatables: EXTREME aluminum RIBs, 55:16; using CAD/CAM, 65:97, 78:86
wing masts. See composite wing masts wing sails (solid sails): aerodynamics, geometry, predictability and control of, 133:70, 96; alternative to solid sails, 140:60; carbon and Nomex wing, 133:96; experimental wings for Moths/Object 2 Skiffworks, 133:70; Harbor Wing Technologies/autonomous unmanned surface vessels, 127:94; predictability and control, 133:70, 96; repair to C-Class catamaran Orion, 128:8; rotating 360-degree wing/X-1 Concept vessel, 133:96; three-element wing sail, 133:70
wing-sail rig: refinement of by Mladen Milidragovic, 63:10; vs. soft sail rig,
133:70, 140:60; theoretical performance of variable geometry wing sail (VGWS), 140:60; three-element wing sail rig, 133:70
Wings: hull design software, 8:35
Winke, Dale R.: on survival/staying small, 47:5
Winkley, Alan: on custom wheels, 111:4; on fuel tank venting, 87:4; on marine composites design, 108:6
Winner Boats: development of FRP boatbuilding, 38:30; grillage structure, 48:4
Winninghoff, Jack: on Thomas Colvin book, Boatbuilding With Aluminum, 85:4
Winter Yacht Basin: management, 35:25
Winterbon, Bruce: on drag reduction, 57:15
winterization: for water systems, 152:48, 154:4; at The Hinckley Co., 127:8; portable pump and flow-meter/antifreeze-delivery method, 131:54
Winters, Henry: on Navy river patrol boats (PBRs), 57:7 on Swift boats, 89:4; on steering system fundamentals and addition of technical details, 100:4
wiper motors: GM-1/GM-2, 33:75
wire/cable, marine, conductors: manufacturing/standards/sizing, 51:69
wire/cable, marine, terminal connections: ABYC E-11 technical standard/recent revisions, 118:64; crimped, 8:12, 10:52, 13:4, 44:26, 118:64, 143:22; Crimp’N Seal, 10:52; crimped and Elektralink, 30:60, 66:38; soldered, 8:12, 11:5, 13:4, 14:4, 30:60, 44:26, 143:22; types/tools/techniques, 8:12, 143:22. See also rigging, stainless steel, wire
wire-harness manufacture: harness boards for, 35:58; at Cruisers Yachts shop, 114:68
wireless instruments: Tacktick Micronet instrument system, 91:20
wire rigging. See rigging, stainless steel, wire

Wise Handling Ltd.: mobile boat hoist, 60:11

Wishbone-boom, 62:58

Wisniewski, Tom: on carbon-monoxide alarms, 45:32

Witt, Capt. Mitchell: on repowering with e-drive, 138:3

Wolfe, Art: on forensic composite testing, 87:62; on gelcoat application/troubleshooting, 11:42; on laminate repair, 66:78; on polyurethane adhesive/sealants, 28:27; on strength testing of composites, 4:27; on testing gelcoat hardness, 5:12

Wolfe, Art, author: “What’s Wrong with This Picture?,” 58:104

Wolfson Unit (University of Southampton, U.K.): Power Prediction Program, 61:10

Wollard, Troy: FRP pioneer, 103:186; 120:62

WOMBAT Junior tape-impregnating machine, 121:9

Wombat: Setzer Design Group’s Classic Series, 97:82


women in production boatbuilding: Bertram Yacht, 39:70

woodbending: Fluted Beams, 126:8

wood: for cold-molding (rolling-shear strength), 51:36; evolution of new products, 54:112; moisture content/detection of, 60:48; specific heats/laminating table, 45:68, 48:4; tropical hardwoods, 51:36. See also plywood, marine; teak; veneers, hardwood

wood, engineered. See hardboard substrate


wood construction, carvel: hull strength, 51:36
Wood Construction Center (Seattle Central Community College), 81:10
wood construction, composite core/sandwich: COVE system/ultralight wood-foam 77' cruiser, 55:79. See also cold-molded construction; wood laminates
wood construction, lapstrake: hull strength, 51:36
wood construction, production methods/marketing: Beetle Cat, 23:32; Nexus Marine, 23:37; Rybovich, 25:42, 25:49
wood construction, strip-planked: built-in fuel/water tanks, 52:18; cedar covered with plywood/glass sheathing, 57:110, 69:156. See also strip planking
wood decay: on freeze/thaw and wet balsa core study, 96:16, 97:4; prevention maintenance, 65:38
wood dust. See dust, wood
Wood, Jeffrey N. Casciani: on interpreting moisture meter readings, 62:5
wood laminates: vs. carbon, 130:52; vs. fiberglass/composites, 4:64; moisture content/detection of, 60:48; strength testing, 4:22. See also balsa core; cold-molded construction; plywood, marine entries, veneers, hardwood
wood veneers: specialty wood veneers/Oakwood Veneer Co., 153:8
wooden boats: attachment of ballast keels, 39:4; bonding systems, 33:28; storage/covering, 18:28; vocational training, 47:34, 50:11. See also wood construction
wooden ship building/restoration: Bay Ship & Yacht, 20:8, 21:38, 56:10; history/naval architecture, 60:66; shipwrights/job market, 21:42; specialized tools, 21:42; vocational training programs, 20:18, 20:21, 21:12. See also ships
wood resins: allergic reaction to, 3:19
wood rot: contamination by resident decay, 65:38; deterioration of balsa cores, 54:5, 55:5, 57:7
Woodtape: Oberflex hardwood-veneer laminates, 35:58
Wooldridge Boats Inc: profile of, 116:52
Wooldridge, R. Kent: hull identification numbers and new label maker (Monarch Manufacturing), 63:5
Woolsey: Dolfinite bedding compound, 28:27
Workbenches on wheels: at Holland Jachtbouw, 143:40
workers' comp. See insurance, workers' compensation
workers' rights: chemical hazards, 1:30; safety and health/OSHA-reform legislation, 17:2
World Robotic Sailing Championship: SailBots/U.S. Naval Academy, 126:8
Worth, Dick: on a plea for a nautical Model T, 137:4
Worton Creek Marina: fire protection/compliance, 44:18, 44:25
wrench: Squeeze-Wrench tool system, 14:57
Wright, Ed: on video production, 22:42
Wright, Jeffrey: on EcoPoxy's claim as non-toxic, non-corrosive, 124:6
Wright, Wilson: on final stages of Chris-Craft and OMC flag, 82:4
Writers Inc.: safety information/training programs, 24:62
writing: for marketing and promotion, 2:17, 2:20. See also builder’s contracts/estimating/bidding; catalogs/product brochures, builders’

WSMs. See water-soluble molecules (WSMs)
Wurtele, Scot: on seeking more designers for Boat Plans International, 28:6
Wyatt, Tison: Accucure chemical reaction monitor, 52:12
Wyliecat boats: 75:38
Wylie, Tom: American Express racing boat, 75:38; Jade/(new Como Nova) aluminum sleep/defective aluminum plate, 152:6; profile/designer of wood-foam sailing yachts, 55:79; Roxanne 60' family cruiser/Jim Betts, 129:40
Wyman, David B: speed prediction formula/Wyman's formula, 54:96, 55:5, 57:7
Wyman, David B., author: “Wyman’s Formula,” 54:96, 57:7
Wynne, Jim: Coronet 24/Botved Boats, 132:36, 161:8; on designing for production, 2:60; and Walt Walters, 132:36; Wyn-Mill racer, 132:36

Xanthakis, Jannis: C24 metal boat, 133:40; Design Challenge, 129:18, 133:40; Piero M, mini-trawler yacht, 129:18. See also Fanello, Guiseppe.
xenon lights: 87:90; 100:4
X-Serts (Click Bonds): acrylic-adhesive-based attachment system, 18:4
XSR48 stepped hull superboat, 110:12
X-weave fabric: applications/sources, 36:34, 37:71. See also patches/patching techniques
Xylem/Rule Brand LoPro pump, 157:14
xylene: MACT standards, 34:40
XYZ Trading Company: Oil-Wet sealant, 8:54

Yachtcare Maintenance Management: marine batteries, 20:50
yacht carrier: semi-submersible Super Servant 3, 74:9
yacht-builder apprenticeship, 79:77
yacht classification. See classification; classification societies
yacht containment systems: Techno Craft S.L., 144:48; economic advantages of, 144:48. See also shrink wrapping.
Yacht Design Institute: courses by mail/Bob Wallstrom, 101:106
yacht market: vs. commercial boats/marketing/finish standards, 40:24, 40:28, 40:36, 40:40
Yachting Solutions: retrofit of vintage Huckins motoryacht with Volvo Penta’s Inboard Propulsion System (IPS), 129:54
yachts. See custom/semi-custom/one-off construction; megayachts; powerboats, motoryachts; powerboats, offshore sportfishing yachts; sailboats; sailboats, offshore cruising/racing; sailboats, offshore racing/performance; small yachts
Yachtsaver: Yachtsaver II
airbags/emergency flotation system, 13:70, 23:24
Yacht Systems, Inc.: Stoppani varnish, 26:54
yacht transport: Zevenster Yachttransport, 62:12
Yacht Vision Symposium (New Zealand), 116:46
Yamaha: stern-drive engine, 6:52; TriFoiler/Water Spyder, 6:20
Yanmar engine: 4 cylinder engines/high-pressure common rail (HPCR) fuel injection system, 158:64; fuel cleanliness/filer specifications, 158:64. See also biodiesel.
yard boats: designs, 42:34
Yeargin, Bill: on boatyard management/training, 35:25
Yellow Jacket Boat Co. (Texas): runabout/hotmolded/Industrial Shipping Co. hulls, 147:64. See also Industrial Shipping Company.
YLA, Inc.: RS-1 resin system, 39:30
York, Charlie: Beetle Cat builder profile, 23:32
York, Michael: acquisition of Fitzgerald 36 design, 71:6
Young America (Bruce Farr design): damage to, 63:10; Faro Arm and Faro Tracker, 78:94; repairing, 65:66, 72:38, 78:94
Young America Syndicate, and Bruce Farr boats, 61:68
Young, Rick: on mesopic vision under low-light conditions/interior cabin lighting, 89:4
Young, Syd: builder of classic runabouts, 62:12
Young’s modulus: 72:22

Z-Clad: SP Systems and SPRINT, 79:114
Z-drive tugs, 104:12, 127:104
Zeller, Steven D.: on resin systems/exposure, 57:7
Zemonek, Richard, and Gary Larimer, authors: "Another Look at Flotation Foams," 57:41
ZF Beneteau: parallel hybrid system, 127:30
ZF Marine: Hybrid Sail Drive/Foundation Beneteau, 134:18; joystick maneuvering system (JMS), 134:78; pod drives, 138:18; 300 ATS two-speed transmission, 71:123; and Fabio Buzzi’s Trimax surface drives, 71:123; and Seven Marine/joystick docking system, 138:6. See also ZF Trimax

ZF Trimax: Fabio Buzzi’s Trimax surface drives, 71:123, 134:36; two-speed gearbox, development of, 71:123

Zimmerman, Peter, author: “Exporting to Europe,” 41:38; “Rethinking the Owner’s Manual,” 27:46

Zimmerman Marine: Charger 40 prototype, electric-powered displacement craft, 77:82; cored decks, 27:61; post-curing/print-through prevention, 34:18; repair of Palawan, 82:40

zinc anodes: aluminum anodes vs. zinc anodes/Navalloy 138:18, 157:94; bonding systems, 33:28, 54:70, 65:38, 138:18; determining area/testing circuits, 33:28, 33:34, 34:5; problems with, 157:94; vs. magnesium anodes, 157:94; US Navy’s MILSPEC rating for anodes, 157:94. See also aluminum anodes, magnesium anodes; EPA; Canada Metal Pacific (CMP); Clean Boating Foundation

Zodiac International: extension of planing surface for soft bottom inflatables, 67:13; 11m RIB hull design/Michael Peters, 127:69

Zodiac of North America: DuraRib foam collar, 78:86; Over the Horizon Rigid Inflatable Boat (OTH RIB), 66:11; shock absorbing hull and cockpit/Structural Composites Inc, 143:10

Zoll, Vern: on CAD/CAM for interior joinerwork/Chris-Craft, 40:42

Zolotone: splatter paint/aluminum boats, 21:26, 37:36, 37:42

Zoltek Companies Inc.: profile/carbon fiber supplier, 58:36, 58:52

zoning regulations: marine insurance/hurricanes, 27:18, 27:21

Z-plane hulls: Stingray Boats, 127:30

Zseleczky, John: technical paper/measuring peak accelerations/Third Chesapeake Power Boat Symposium, 145:106

Zuccarnini, John: on fiberglass fabric (binders/blistering), 15:60

Zurn, Doug, designer: and Bruckman daysailer, 139:74; Gloucester 20 sportfisherman, 100:42; Marblehead 22/Samoset Boatworks, 127:8; MJM 34z design, 84:18; motoryacht MJM34z design, 99:52, 100:42; profile of, 100:42; Salish Sea IS48 Pacific Northwest cruiser, 134:6; Shelter Island 38 and 50/Billy Joel boat, 84:18, 100:42, 116:10; partnership with J Boats, 84:18; Zurn 50 gentleman’s day cruiser, 144:10

Zvanik, Marco: on cored bottoms/foam cores, 53:4, 56:5, 72:5; on FRP sandwich construction, 3:5; on semi-rigid PVC cores/performance, 35:4


Zyron panels, 121:100

Zytel glass reinforced nylon (GRN) through-hull fittings, 114:120