PROFESSIONAL BOATBUILDER

PROFESSIONAL BOATBUILDER

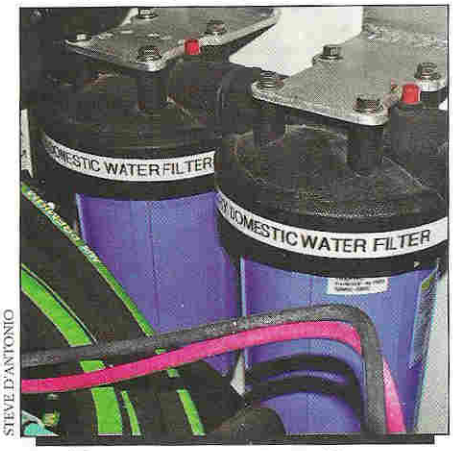
The magazine for those working in design, construction, and repair

NUMBER 152
DECEMBER/JANUARY
2015
$5.95 U.S.

CHESAPEAKE LIGHT CRAFT
WATER SYSTEMS, PART 1
ARMSTRONG MARINE
SYSTEMS ERRORS

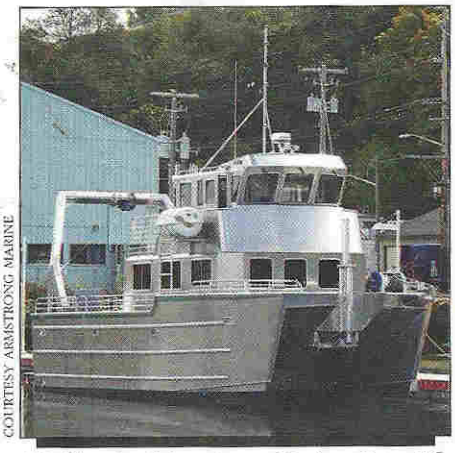
COURTESY CHESAPEAKE LIGHT CRAFT

Chesapeake Light Craft. Page 24.



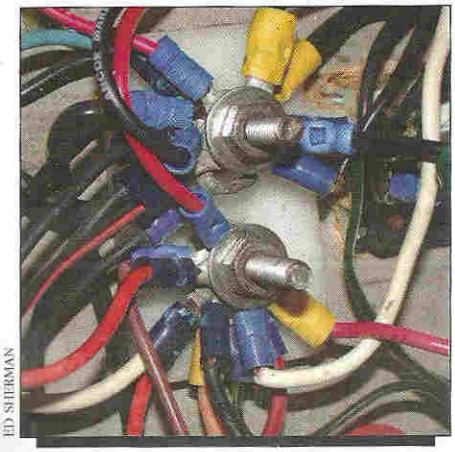
STEVE D'ANTONIO

Potable-water systems. Page 48.



COURTESY ARMSTRONG MARINE

Workboats of Armstrong Marine. Page 36.



ED SHERMAN

Systems mistakes. Page 58.

FEATURES

DEPARTMENTS

READER SERVICES

On the cover: Chesapeake Light Craft production manager Aaron McWain cuts scarf joints on spar stock for sailboat kits in the Maryland company's busy mill shop. Complete kits designed for simplicity of assembly have made CLC one of the most successful suppliers of kit boats in the world. Story on page 24.
Photograph courtesy Chesapeake Light Craft.

IBEX Issue

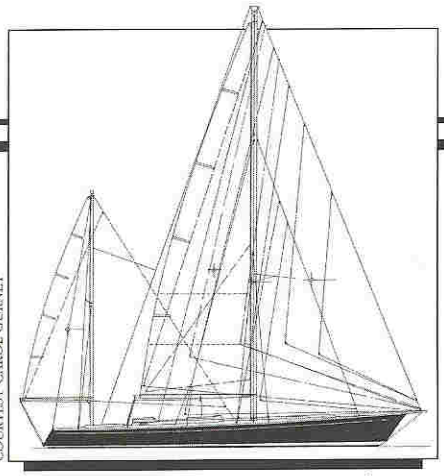
25th ANNIVERSARY!

PROFESSIONAL BOATBUILDER

The magazine for those working in design, construction, and repair

NUMBER 151
OCTOBER/NOVEMBER
2014
$5.95 U.S.

TOOLING SPECIALISTS
FLEMING YACHTS
ALAN GURNEY
FOIL DESIGN

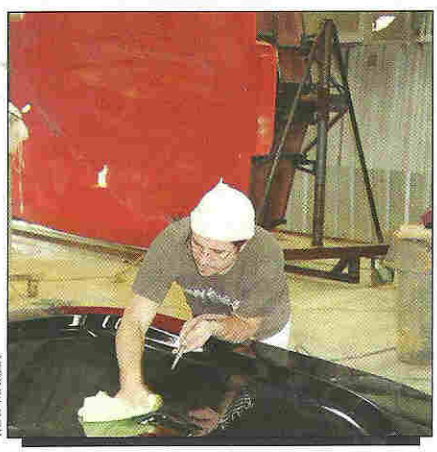


COURTESY CAROL GURNEY

Designs of Alan Gurney. Page 24.

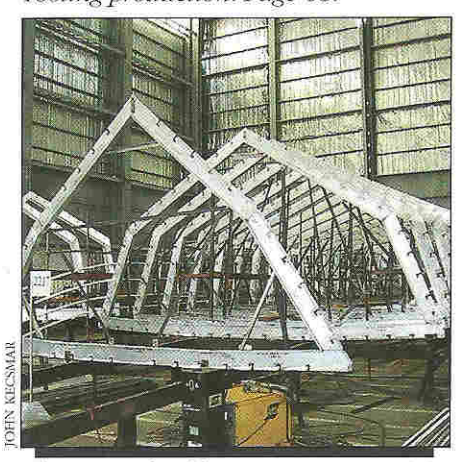
STEVE D'ANTONIO

Pilot boats in action. Page 52.



ROB MAZZA

Tooling production. Page 68.



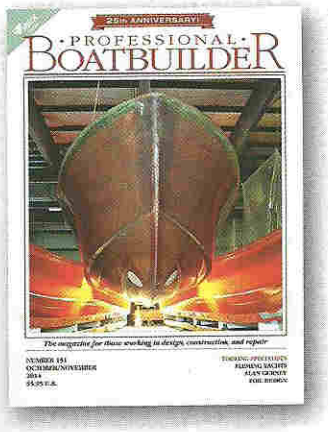
JOHN KECSMAR

Aluminum build sequencing. Page 82.

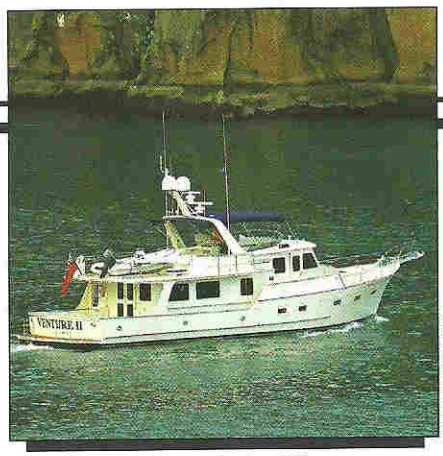
FEATURES

DEPARTMENTS

READER SERVICES



On the cover: Building high-quality tooling to tight specs for some of the best-known manufacturers of composite boats has been the core business for Florida-based Marine Concepts since 1976. As boatbuilding technologies have evolved, so have the demands on this mold builder, which has expanded facilities and hired and trained staff to meet the changing needs of clients. Here, an infused Hinckley T34 (10.4m) hull just sprung from a robustly built Marine Concepts mold hangs between its halves.
Story on page 68.
Photo courtesy Marine Concepts and The Hinckley Company

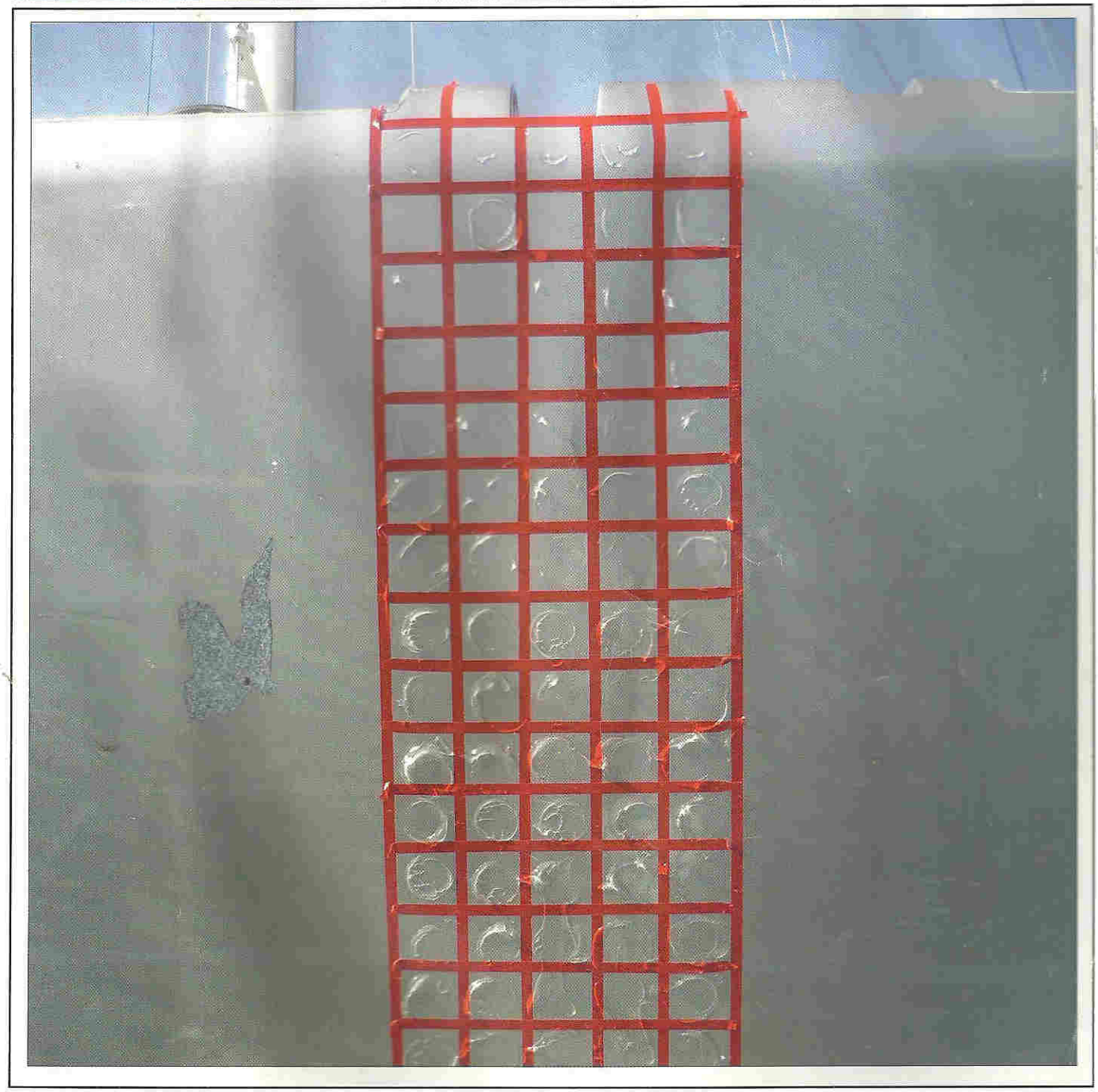

STEVE D'ANTONIO
The Fleming story. Page 96.


STEVE KILLING
Advances in foil design. Page 110.


COURTESY SCOTT JUTSON
Scott Jutson powercats. Page 12.


STEVEN WEISS
A semi-planing cruiser. Page 44.

·PROFESSIONAL·
BOATBUILDER

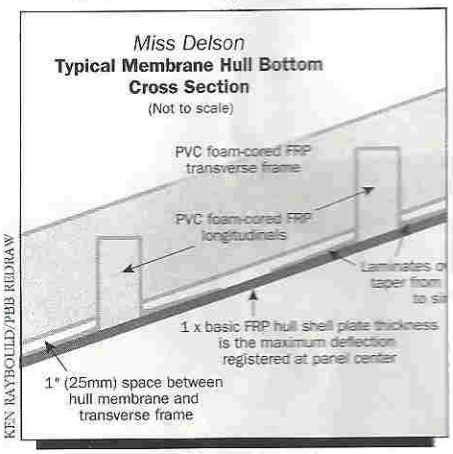


The magazine for those working in design, construction, and repair

NUMBER 150
AUGUST/SEPTEMBER
2014
$5.95 U.S.

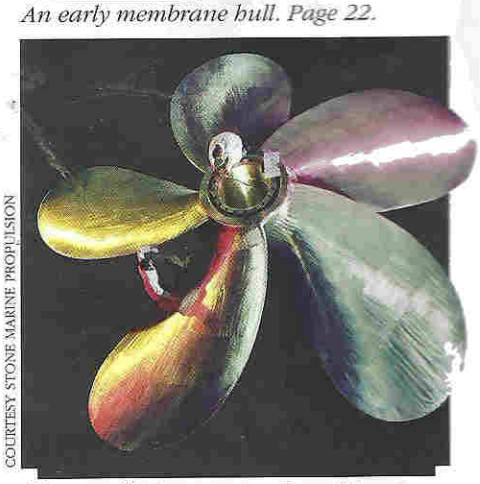
COURTESY HUNT/GLADDING-HEARN

Hunt pilot boats. Page 34.



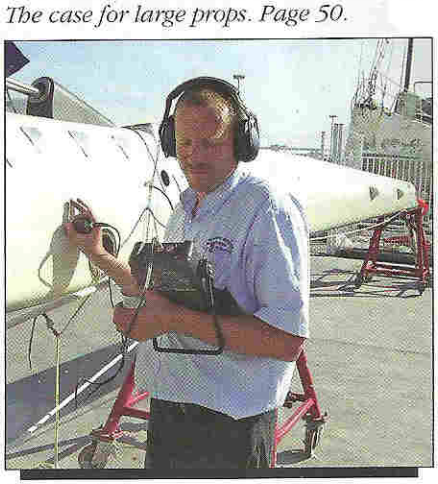
KEN RAYBOULD/PBB REDRAW

An early membrane hull. Page 22.



COURTESY STONE MARINE PROPULSION

The case for large props. Page 50.



ROBY SCALVINI

Ultrasonic flaw detection. Page 60.

FEATURES

DEPARTMENTS

READER SERVICES

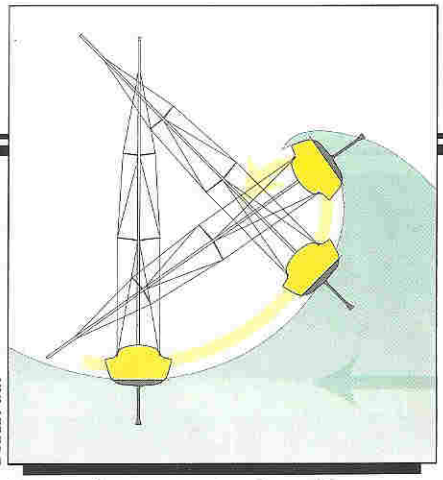
On the cover: Ultrasonic-testing a composite hull in way of the integral chainplates can reveal potentially catastrophic delamination and bond failures without cutting into the structure or finish. Shown here are a taped-on test grid and some residual couplant—medical-grade ultrasonic gel that helps propagate sound waves. Story on page 60. *Photograph by Roby Scalvini.*

PROFESSIONAL BOATBUILDER

The magazine for those working in design, construction, and repair

NUMBER 149
JUNE/JULY
2014
$5.95 U.S.

SLAMMING STANDARDS
CAPSIZE: LESSONS LEARNED
DAVID JONES & ASSOCIATES
THE PROMISE OF LITHIUM ION

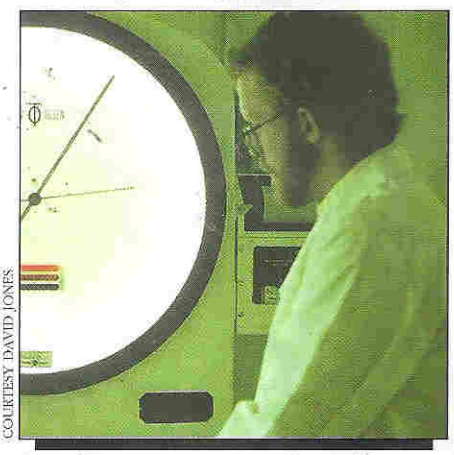


DUDLEY DIX

Lessons from a capsize. Page 20.

COURTESY HSBO

Measuring slam impacts. Page 48.



COURTESY DAVID JONES

David Jones engineering. Page 56.

JEAN-YVES POIRIER

Compass manufacturing. Page 68.

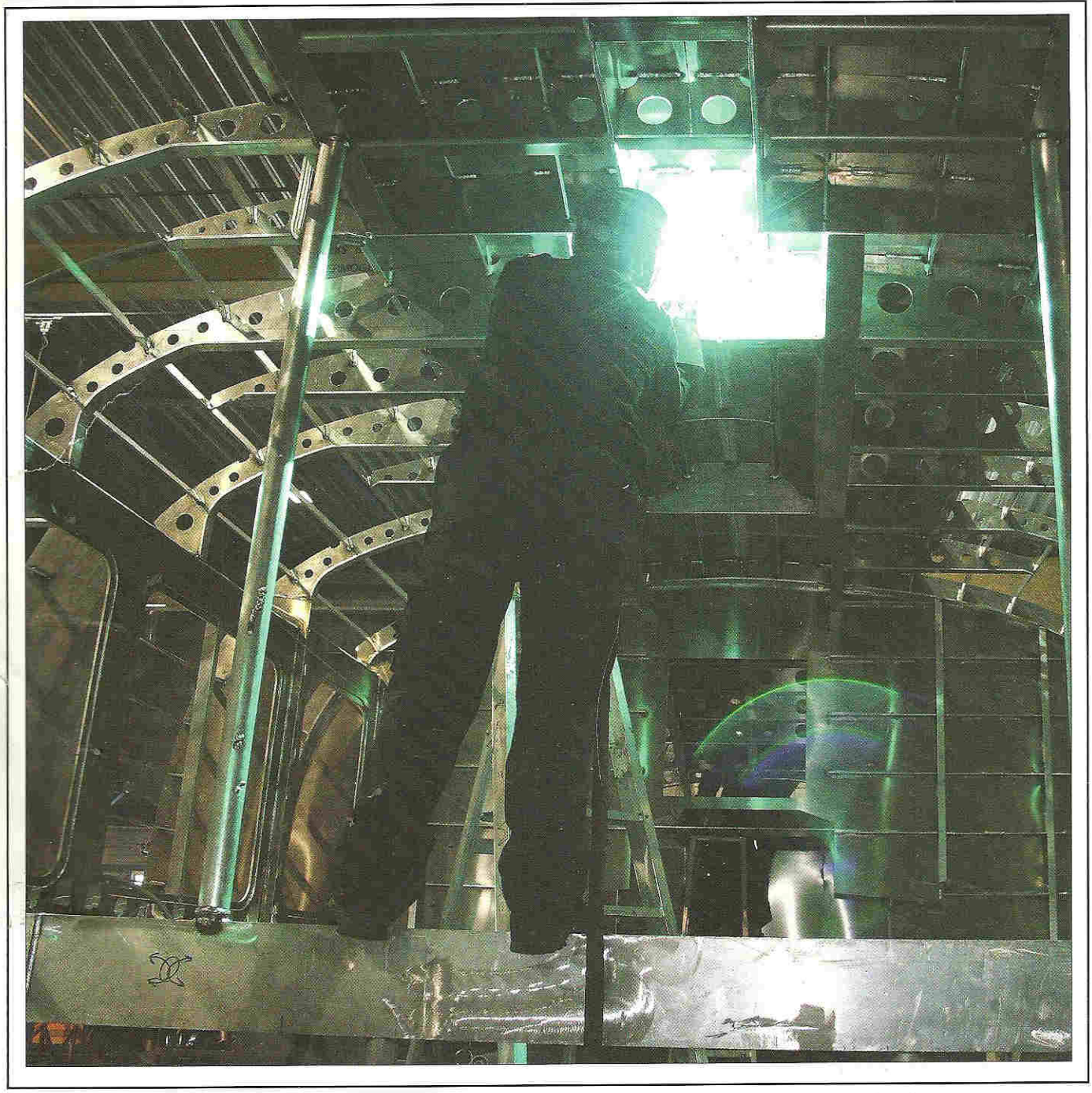
FEATURES

DEPARTMENTS

READER SERVICES

On the cover: The new NH 1816 class rescue boat (63.3′/19.3m) built by Damen Shipyards (Gorinchem, The Netherlands) for the Dutch sea rescue organization KNRM buries its bow in rough seas during sea trials. Increasingly, boats intended for extreme offshore service are designed to minimize the risk of slamming impact injuries to operators and passengers. Story on page 48.
Photograph by Herman IJsseling, www.flyingfocus.nl.

PROFESSIONAL BOATBUILDER



The magazine for those working in design, construction, and repair

NUMBER 148
APRIL/MAY
2014
$5.95 U.S.

CNC-CUT METAL KITS
CUSTOMER SERVICE REPS
TWO COMPOSITES TEST LABS
ONBOARD POWER EVOLUTION

MATERIALS SCIENCES CORPORATION

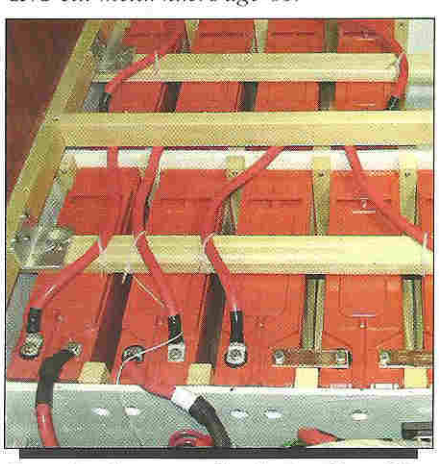
Lab-testing advanced composites. Page 26.

ASHLEY RAINER/COURTESY SAUNDERS YACHTWORKS

Investing in customer service. Page 38.

HANS BUITELAAR

CNC-cut metal kits. Page 46.



NIGEL CALDER

Emerging battery technologies. Page 58.

FEATURES

DEPARTMENTS

READER SERVICES

On the cover: A welder joins aluminum skin plating to the hull frame of a Gerard Dykstra–designed Bestevaer 53 (16.2m) at K&M Yachtbuilders (Makkum, The Netherlands). The stringers, transverse frames, and sections of hull plating were all precision engineered, and CNC-cut off-site by a subcontractor. Story on page 46.
Photograph by Hans Buitelaar.

·PROFESSIONAL·
BOATBUILDER

The magazine for those working in design, construction, and repair

NUMBER 147
FEBRUARY/MARCH
2014
$5.95 U.S.

MAIB REPORT

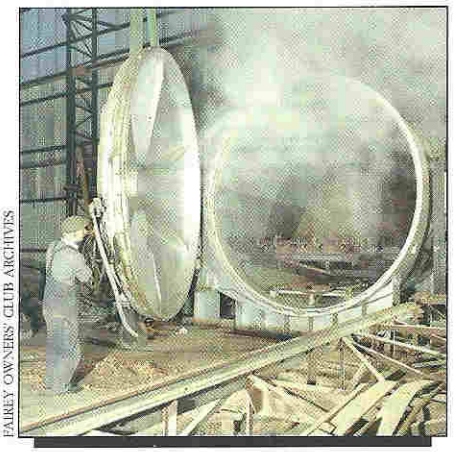
Risks of work-altered aluminum. Page 24.

DAN SPURR

Diverse offerings at USWatercraft. Page 38.

STEVE D'ANTONIO

Bilge pump best practices. Page 48.



FAIREY OWNERS' CLUB ARCHIVES

Production at Fairey Marine. Page 64.

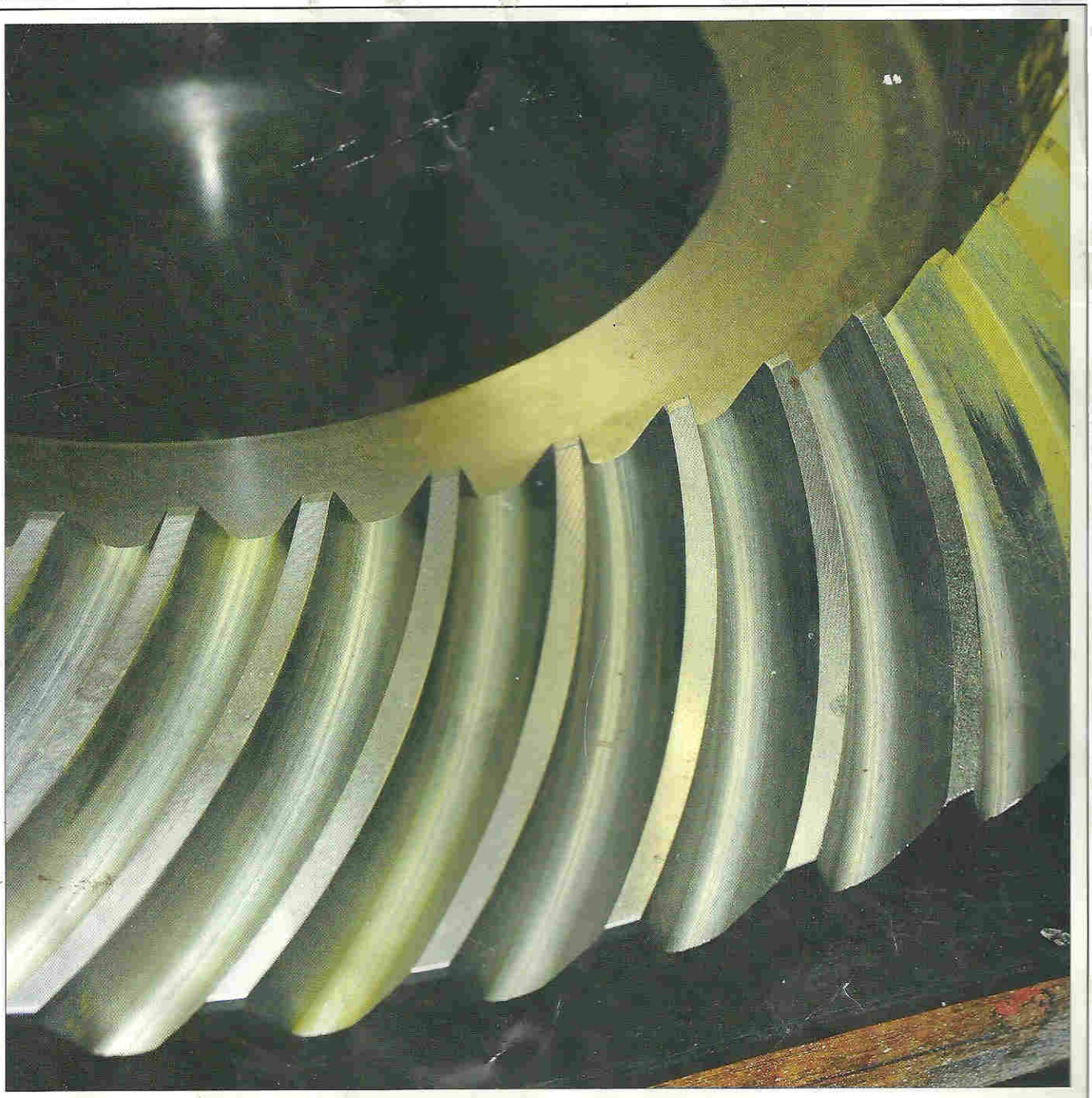
FEATURES

DEPARTMENTS

READER SERVICES

On the cover: This newly tooled North Rip 29 (8.8m) model was developed by USWatercraft after the company bought the North Rip brand and its solitary 21' (6.4m) center-console sportfisherman. To be introduced at shows in 2014, the 29-footer maintains an aesthetic with pronounced flare and powder horn sheer. Story on page 38.
Photograph by Dan Spurr.

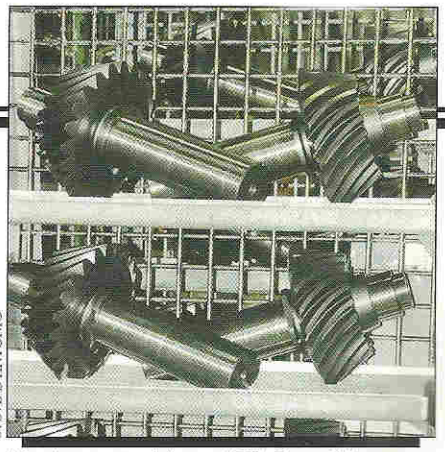
PROFESSIONAL BOATBUILDER



The magazine for those working in design, construction, and repair

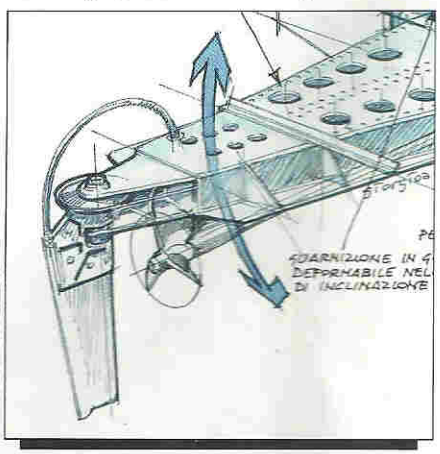
NUMBER 134
DECEMBER/JANUARY
2012
$5.95 U.S.

ZF
OBJECT 2
FABIO BUZZI (PART 2)
COMMON ELECTRICAL ERRORS



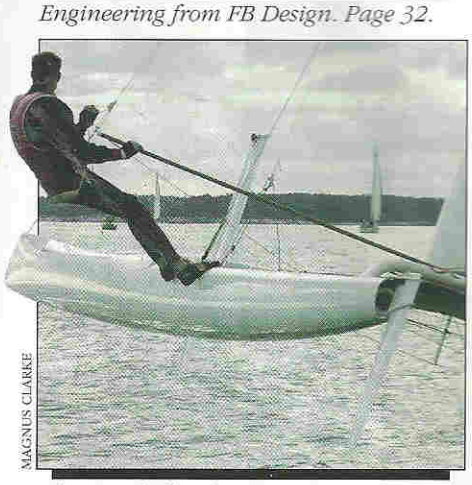
STEVE D'ANTONIO

Marine propulsion at ZF. Page 18.



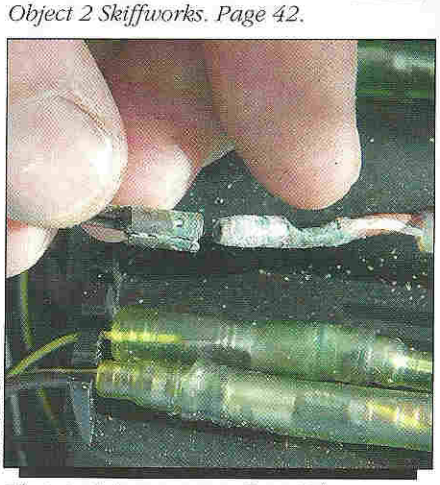
GIORGIO ALISI/FB DESIGN

Engineering from FB Design. Page 32.



MAGNUS CLARKE

Object 2 Skiffworks. Page 42.



NIGEL CALDER

Electrical done wrong. Page 54.

FEATURES

DEPARTMENTS

READER SERVICES

On the cover: Detail of a spiral bevel gear CNC-machined at ZF Marine's factory in Padua, Italy. ZF began by manufacturing transmissions, but its marine division now also offers everything from gears to networked electronic steering, shifting, and throttles. Story on page 18.
Photograph by Steve D'Antonio.

PROFESSIONAL BOATBUILDER

The magazine for those working in design, construction, and repair

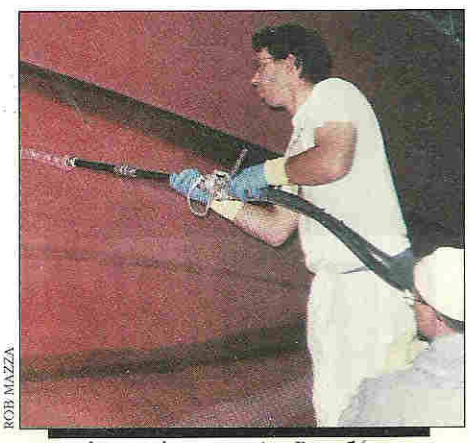
NUMBER 58
APRIL/MAY
1999
$5.95

DUDLEY DAWSON

Examining hull resistance. Page 26.

NSWC/CARDEROCK DIVISION

Carderock's composites lab. Page 36.



ROB MAZZA

Applying polyester putties. Page 54.

COURTESY JIM CAUDILL

Munson aluminum boats. Page 66.

FEATURES

DEPARTMENTS

READER SERVICES

On the cover: Members of the crew at New England Boatworks (Middletown, Rhode Island) work on a Nelson/Marek-designed 47' IMS boat built with SP carbon fiber pre-pregs and AirLite PVC foam core. Story ("The Near Future of Marine Composites") on page 36. *Photograph by Billy Black.*

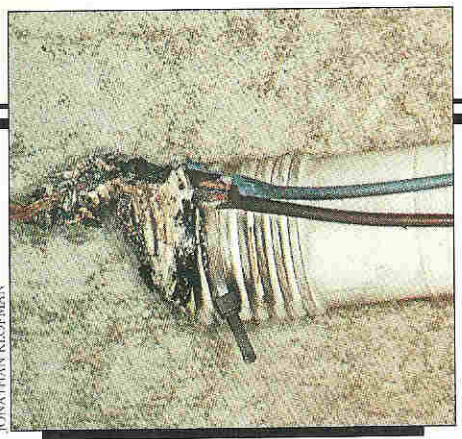
IBEX ISSUE!

PROFESSIONAL BOATBUILDER

The magazine for those working in design, construction, and repair

NUMBER 57
FEBRUARY/MARCH
1999
$5.95

MAKING OF A PASSAGEMAKER
THE RISKY BUSINESS OF MAJOR REPAIRS
BILGE PUMP INSTALLATIONS
"GALVANIC" BLISTERING IN CARBON COMPOSITES

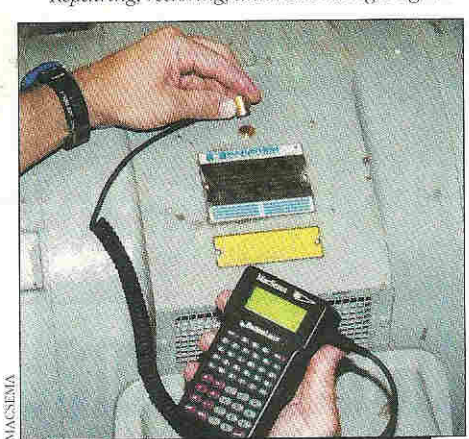


JONATHAN KLOPMAN

Wiring bilge pumps. Page 48.

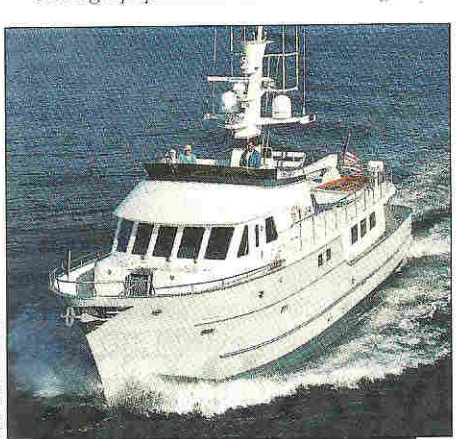
SLANE MARINE

Repairing, restoring, and remodeling. Page 74.



MACSEMA

Storing equipment-service records. Page 88.



NEIL RABINOWITZ

Building long-range cruisers. Page 123.

FEATURES

DEPARTMENTS

READER SERVICES

On the cover: An employee at Northern Marine in Anacortes, Washington, works on the bow of one of the company's long-range cruisers. Story ("Making of a Passagemaker") on page 123. *Photograph by Neil Rabinowitz.*

·PROFESSIONAL· BOATBUILDER

The magazine for those working in design, construction, and repair

NUMBER 56
DECEMBER/JANUARY
1999
$5.95

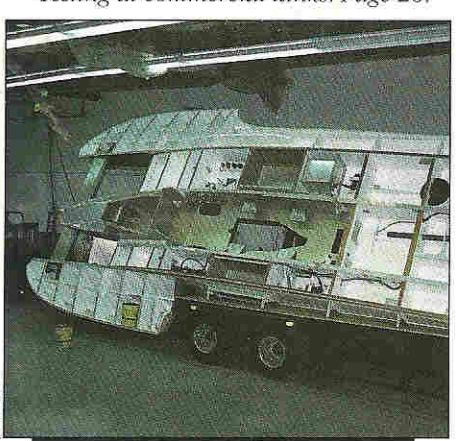
RON JONES' UNLIMITED HYDROPLANES
DESIGNING AND BUILDING WITH KEVLAR
MORE ON LICENSURE FOR NAVAL ARCHITECTS
BRINGING A NEW MARINE PRODUCT TO MARKET

NIGEL CALDER

Marinizing equipment. Page 18.

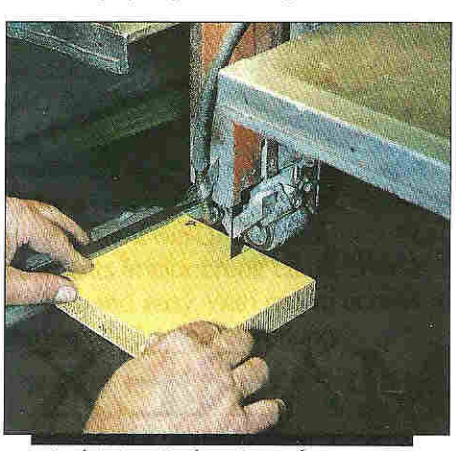
RICHARD AKERS

Testing at commercial tanks. Page 26.



JIM DUNN

Racing hydroplanes. Page 40.



DENNIS SKIRVIN

Machining Kevlar. Page 61.

FEATURES

DEPARTMENTS

READER SERVICES

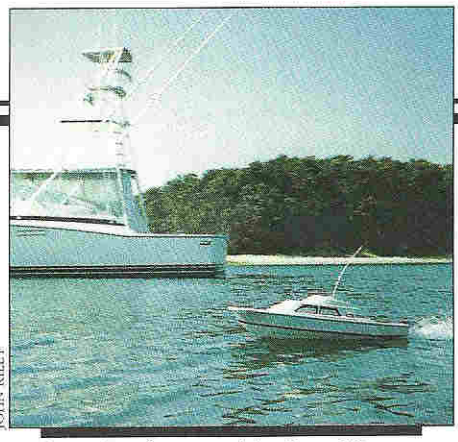
On the cover: By definition, the Ron Jones-designed and -built Unlimited hydroplane *Miss Circus Circus* is part boat, part plane. And pure speed. Story on page 40. *Photograph by Jim Dunn.*

PROFESSIONAL BOATBUILDER

The magazine for those working in design, construction, and repair

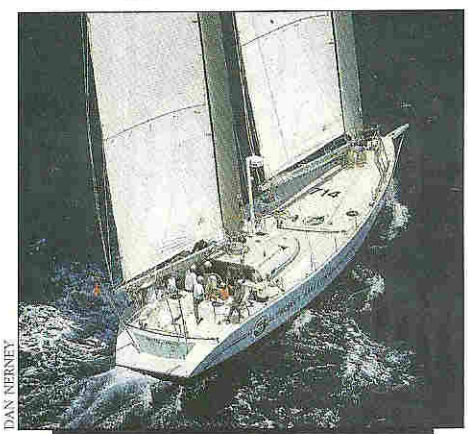
NUMBER 55
OCTOBER/NOVEMBER
1998
$5.95

NEW CONSTRUCTION IN NEW ZEALAND—II
MODEL TESTING
PROJECT AMAZON & THE UNSTAYED RIG
ISO EXPLAINED



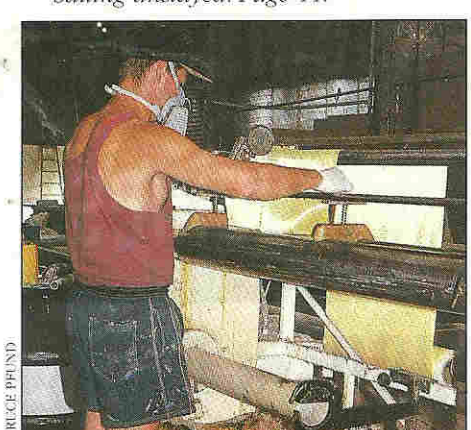
JOHN KILEY

Learning from models. Page 32.



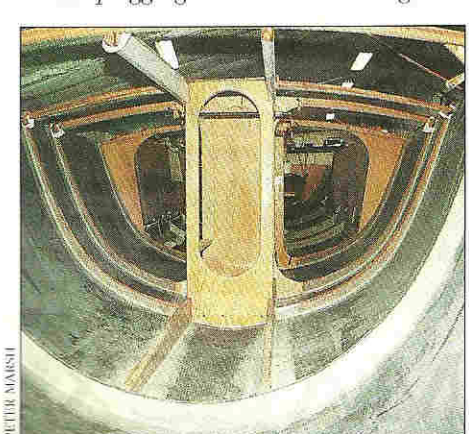
DAN NERNEY

Sailing unstayed. Page 44.



BRUCE PFUND

Wet-pregging in New Zealand. Page 58.



PETER MARSH

Building in wood-foam sandwich. Page 79.

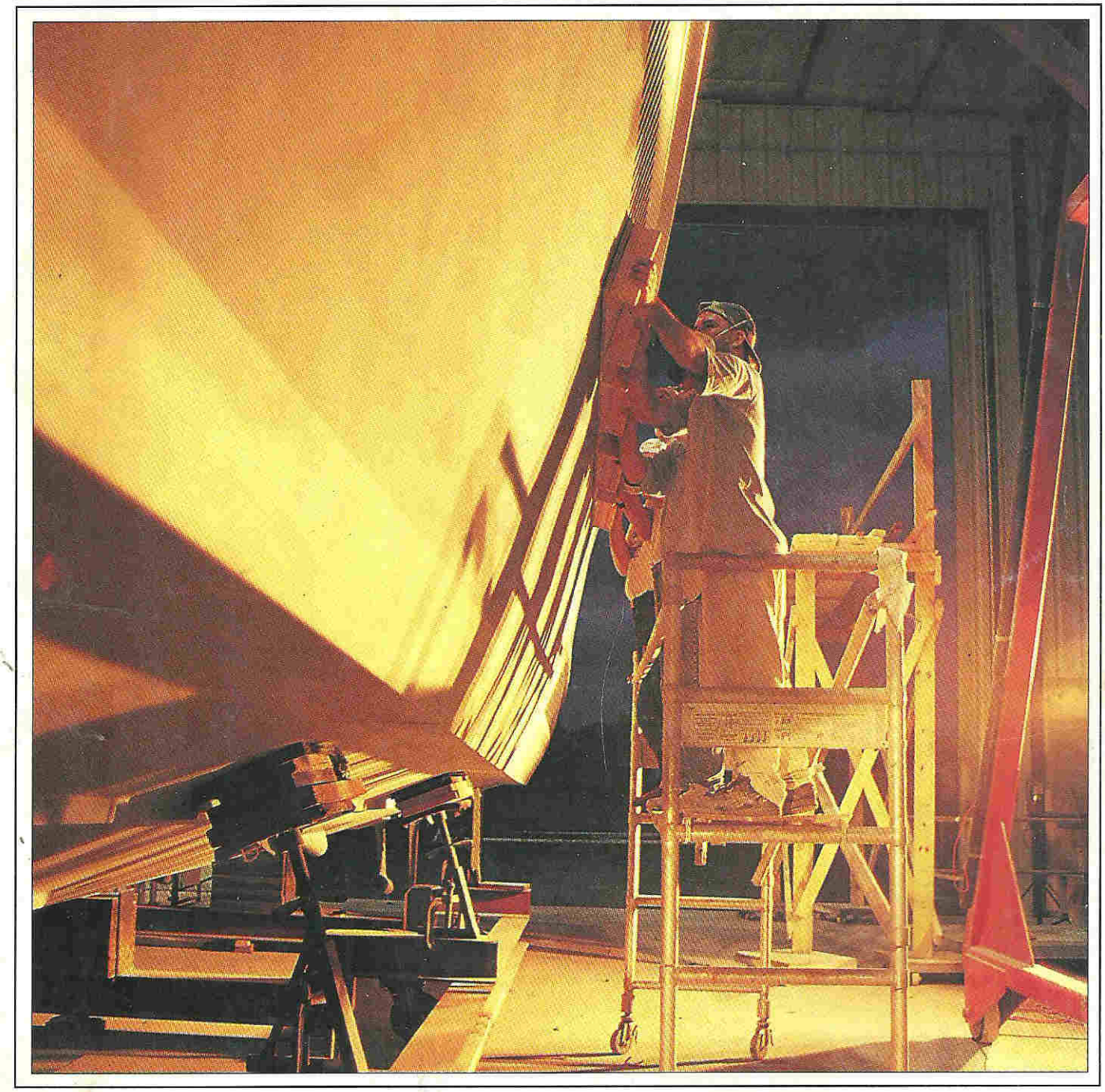
FEATURES

DEPARTMENTS

READER SERVICES

On the cover: One of several big aluminum and composite projects abuilding in the boatshops of New Zealand, the 159′ masthead sloop *Georgia* takes shape at Alloy Yachts in Auckland. Story on page 58. *Photograph by Neil Rabinowitz.*

PROFESSIONAL BOATBUILDER



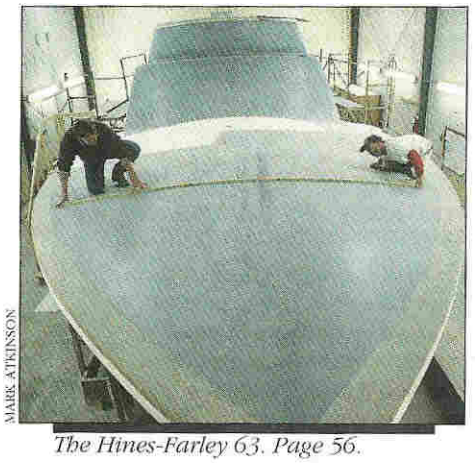
The magazine for those working in design, construction, and repair

NUMBER 54
AUGUST/SEPTEMBER
1998
$5.95

HINES-FARLEY 63
NEW CONSTRUCTION IN NEW ZEALAND
STAINLESS STEEL
THE BUILDER'S MODEL

CRAIG LOOMES DESIGN

Boatbuilding in New Zealand. Page 43.

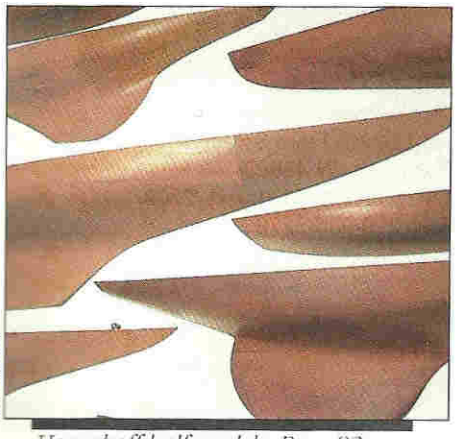


MARK ATKINSON

The Hines-Farley 63. Page 56.

JONATHAN KLOPMAN

Analyzing stainless steels. Page 70.



BILLY BLACK

Herreshoff half models. Page 82.

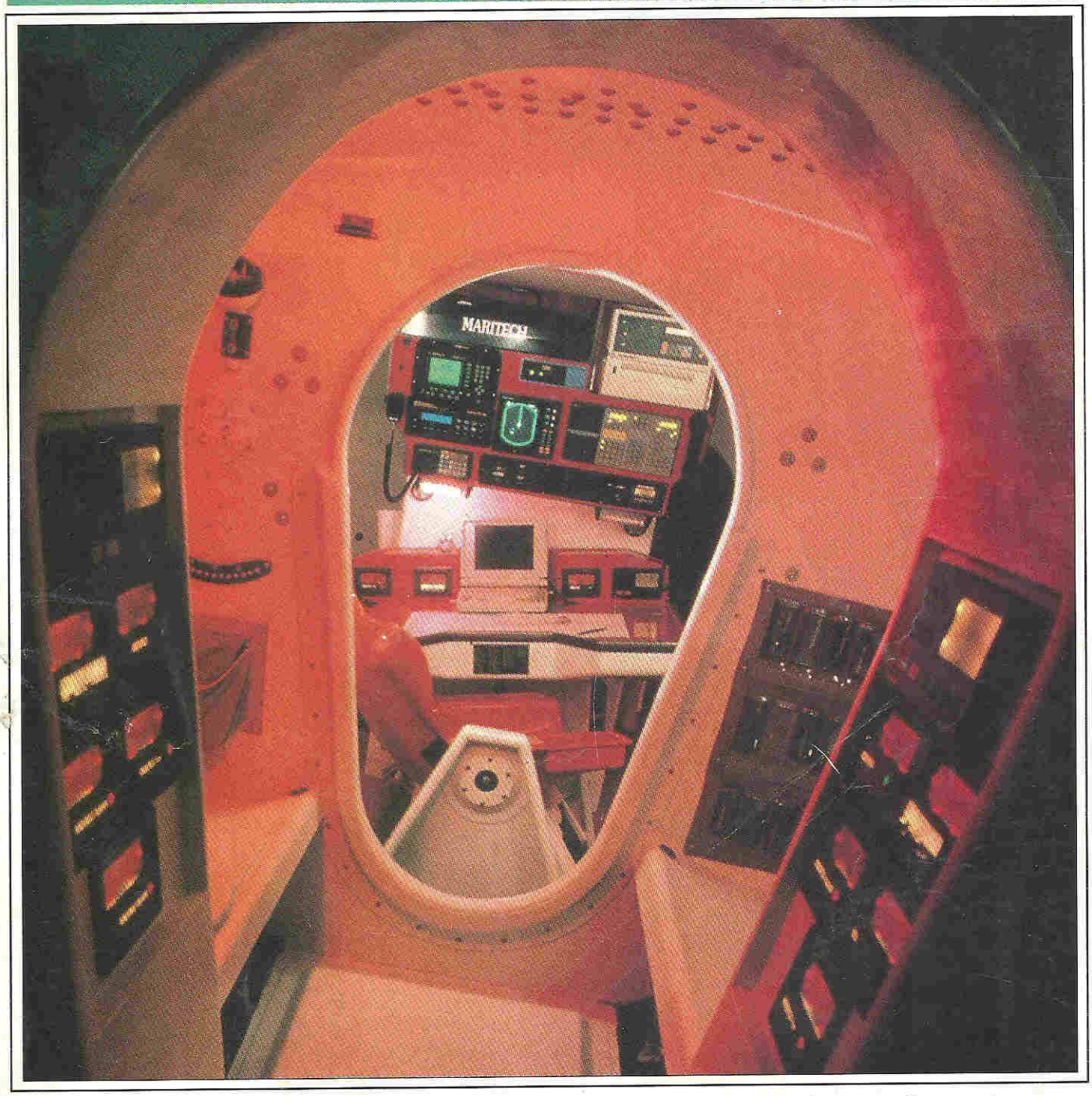
FEATURES

DEPARTMENTS

READER SERVICES

On the cover: A longboard crew at Hines-Farley Offshore Yachts (Suffolk, Virginia) sands the epoxy primer coat on the hull of a new 63′ composite sportfisherman. Story on page 56. *Photograph by Mark Atkinson.*

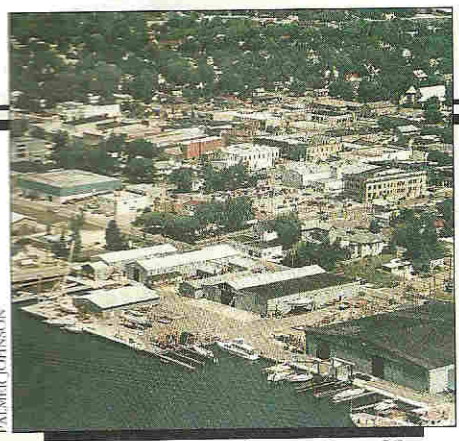
PROFESSIONAL BOATBUILDER



The magazine for those working in design, construction, and repair

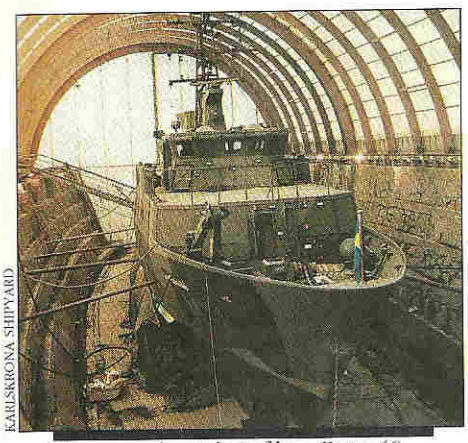
NUMBER 53
JUNE/JULY
1998
$5.95

THE *CHILD* SERIES
BUILDING BIG IN ADVANCED COMPOSITES
BUNGEE-MOORING A MARINA
THE STYRENE EMISSIONS STORY



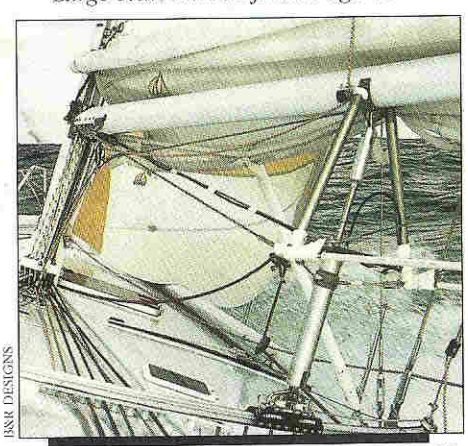
PALMER JOHNSON

A visit to Palmer Johnson. Page 28.



KARLSKRONA SHIPYARD

Large-scale carbon fiber. Page 40.



B&R DESIGNS

Racing technology for cruisers. Page 50.

STEPHEN LEECH

A mooring-system experiment. Page 64.

FEATURES

DEPARTMENTS

READER SERVICES

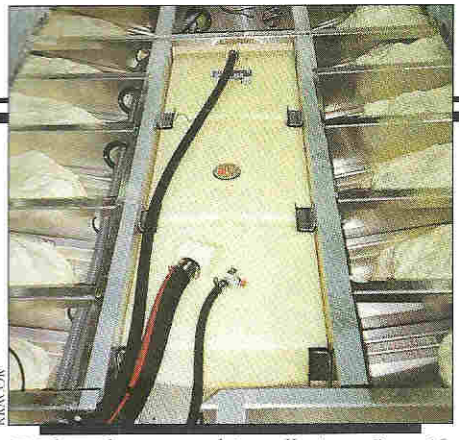
On the cover: The gimbaled nav station aboard *Hunter's Child*—one of numerous technical innovations in the offshore raceboats that comprise the *Child* series. Story on page 50. *Photograph by Onne van der Wal.*

PROFESSIONAL BOATBUILDER

The magazine for those working in design, construction, and repair

NUMBER 52
APRIL/MAY
1998
$5.95

DEFENSIVE PAINTING
CARDEROCK'S COMBATANT CRAFT DEPARTMENT
SELECTING STRUCTURAL CORES
TANK CHOICES



KRACOR

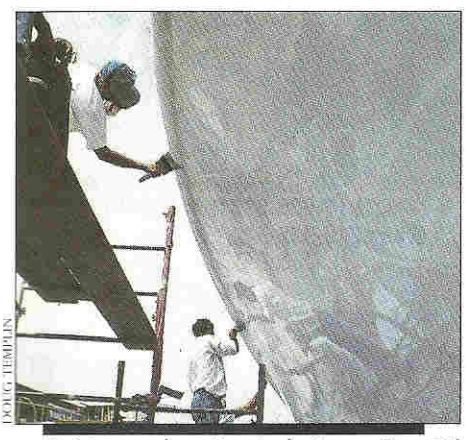
Fuel- and water-tank installations. Page 18.

2HO

The right core for the job. Page 30.

SPECIAL BOAT SQUADRON TWO

Special operations craft. Page 42.



DOUG TEMPLIN

Fairing and coating techniques. Page 54.

FEATURES

DEPARTMENTS

READER SERVICES

On the cover: A worker at a south Florida yard pulls off the masking tape and checks out a fresh, beautifully done, topsides paint job. Story on page 54. *Photograph by Billy Black.*

IBEX ISSUE!

PROFESSIONAL BOATBUILDER

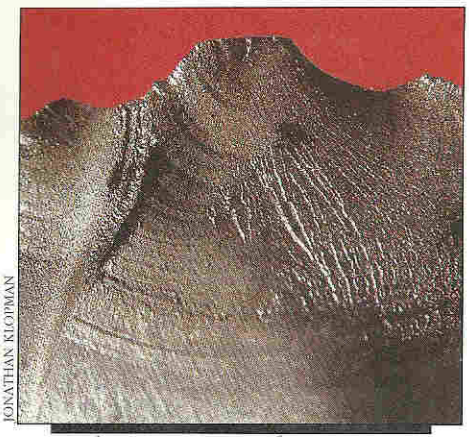
The magazine for those working in design, construction, and repair

NUMBER 51
FEBRUARY/MARCH
1998
$5.95

LARGE-SCALE COLD-MOLDING
THE CORED-BOTTOMS CONTROVERSY
ANALYZING FAILED METAL PARTS
WHAT MAKES GOOD BOAT CABLE

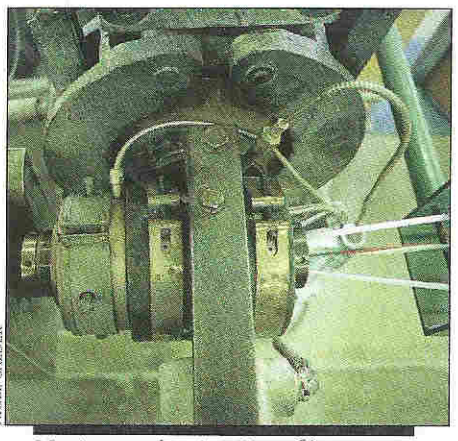
STEPHEN RUBICAM

Cold-molded construction. Page 36.



JONATHAN KLOPMAN

Broken parts. Page 56.



NIGEL CALDER

Marine-grade wire. Page 69.

BRUCE PFUND

Blisters report. Page 108.

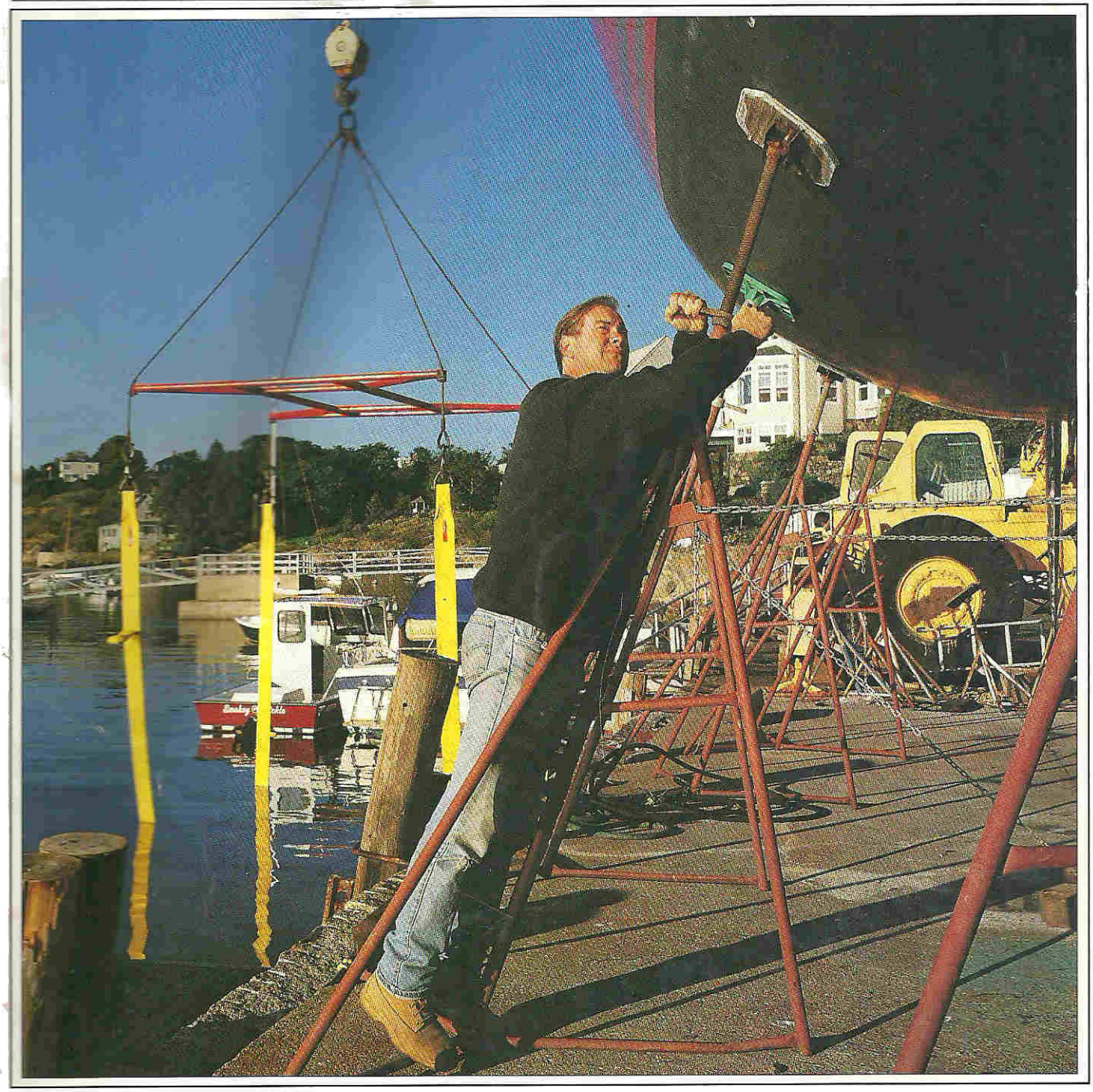
FEATURES

DEPARTMENTS

READER SERVICES

On the cover: The crew at Hodgdon Yachts (East Boothbay, Maine) cold-molds the upside-down hull of *Antonisa*, a custom 124' sloop designed by Bruce King Yacht Design (Newcastle, Maine). Two stories, beginning on page 36. *Photograph by Robert Mitchell.*

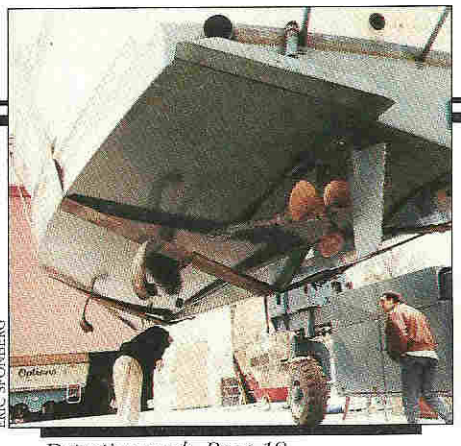
·PROFESSIONAL· BOATBUILDER



The magazine for those working in design, construction, and repair

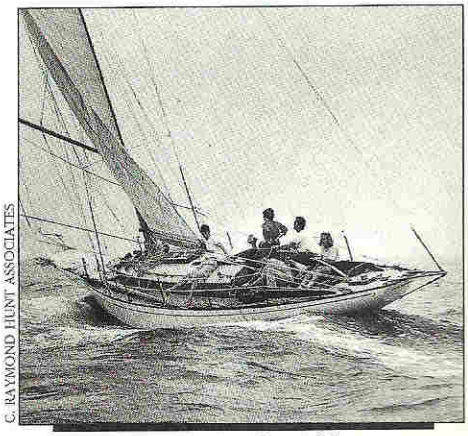
NUMBER 50
DECEMBER/JANUARY
1998
$5.95

IN-YARD BOAT HANDLING & STORAGE
TRACKING PRODUCTION AND LABOR
REAL-WORLD RESIN PROPERTIES
FORENSIC ENGINEERING



ERIC SPONBERG

Detective work. Page 18.

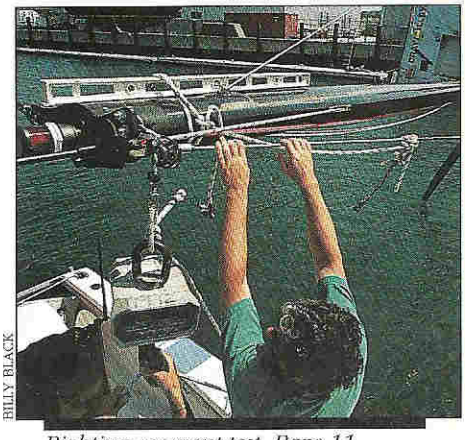


C. RAYMOND HUNT ASSOCIATES

Hunt retrospective. Page 32.

BRUCE PFUND

Resin properties on the shop floor. Page 46.



BILLY BLACK

Righting-moment test. Page 11.

FEATURES

DEPARTMENTS

READER SERVICES

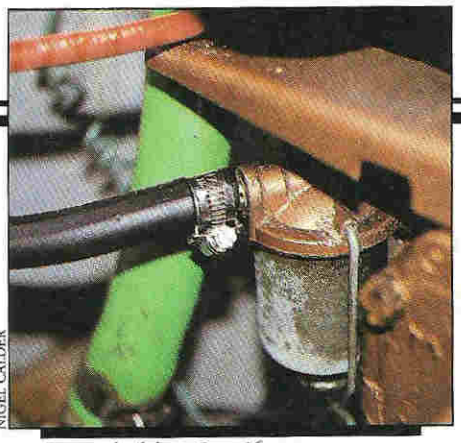
On the cover: A member of the crew at Marblehead (Massachusetts) Trading Company adjusts the stands for a keel sailboat. This and other routine yard practices have come under the scrutiny of ABYC. Story on page 38. *Photograph by Jonathan Klopman.*

PROFESSIONAL BOATBUILDER

The magazine for those working in design, construction, and repair

NUMBER 49
OCTOBER/NOVEMBER
1997
$5.95

BUILDING FAST BOATS
MARINE HOSE
NEW AND UNUSUAL HULL FORMS
IN-MOLD COATINGS FOR EPOXY LAYUPS



NIGEL CALDER

Purpose-built bose. Page 16.

WE•NO•NAH CANOE INC.

Lightweight canoes. Page 36.

CARDEROCK DIVISION, NSWC

Innovative hull forms. Page 42.

DAGGER COMPOSITES

Coatings for epoxy laminates. Page 60.

FEATURES

DEPARTMENTS

READER SERVICES

On the cover: Built for speed more than a decade ago, two-time world champion *Danger Zone*—a 38′ Cigarette—was also built to last. She's still racing. Story on page 54. *Photograph by Forest Johnson.*

PROFESSIONAL BOATBUILDER

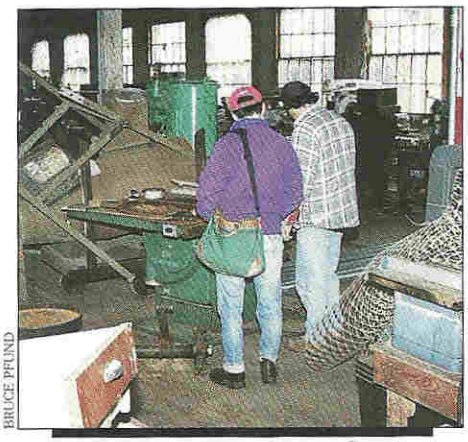
The magazine for those working in design, construction, and repair

NUMBER 48
AUGUST/SEPTEMBER
1997
$5.95

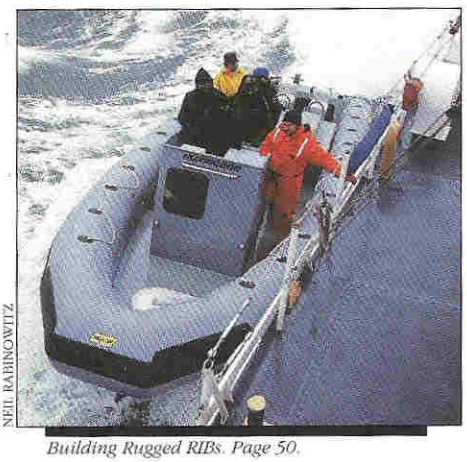
A WELL-DESIGNED WHEELHOUSE
LOW-COST LAMINATE TESTING
SETTING UP A SMALL MACHINE SHOP
INFUSION AND PRE-PREGS FOR THE NAVY

G. ALTADILL/PPL

Classing Offshore Racing Yachts. Page 8.


BRUCE PFUND

Buying Used Machine Tools. Page 56.


NEIL RABINOWITZ

Building Rugged RIBs. Page 50.


DAN NERNEY

Designing an Efficient Helm. Page 66.

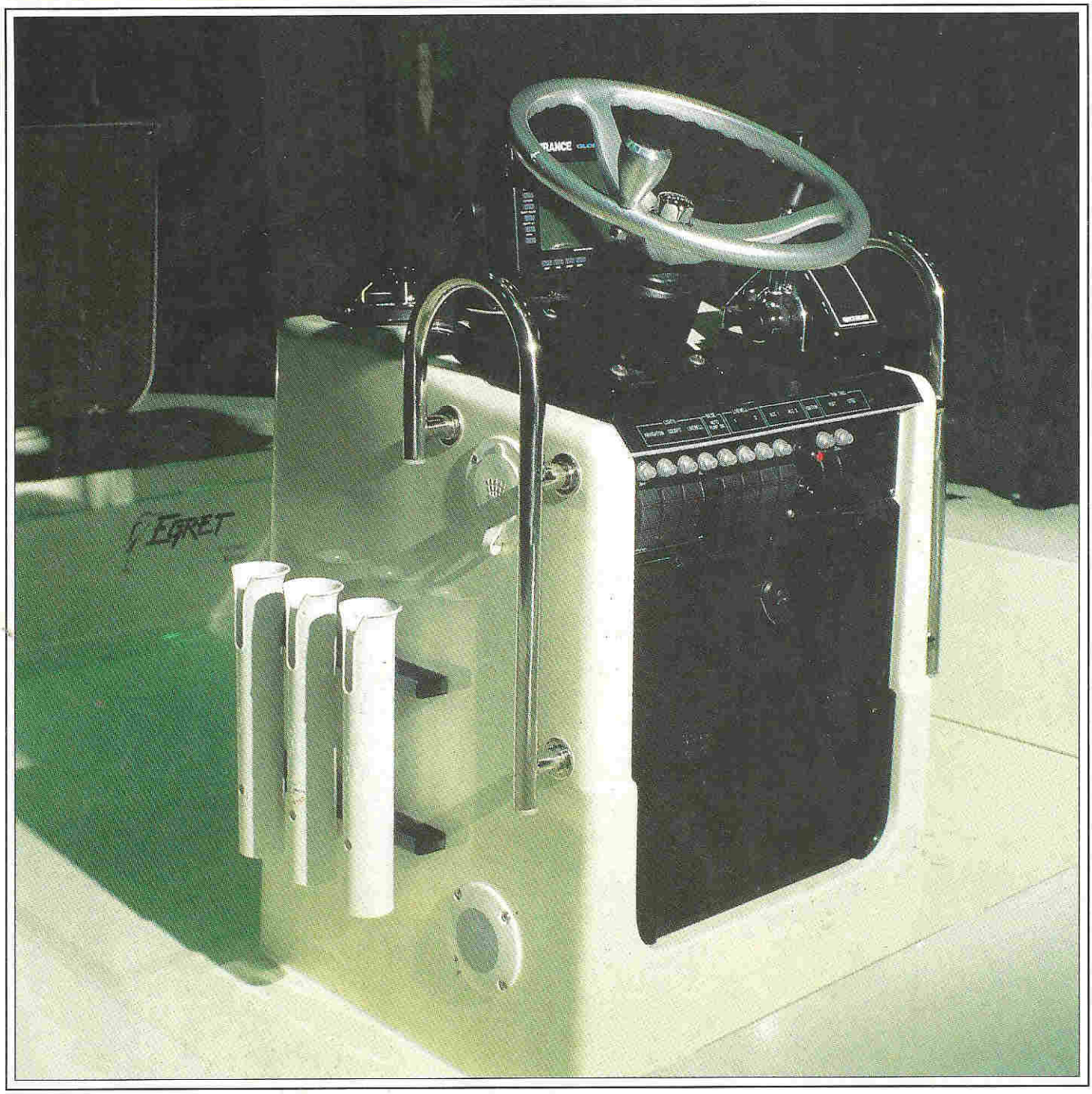
FEATURES

DEPARTMENTS

READER SERVICES

On the cover: A view of the ergonomically designed enclosed bridge of the U.S. Coast Guard's new 47′ Motor Lifeboat. Story on page 66. *Photograph by Dan Nerney.*

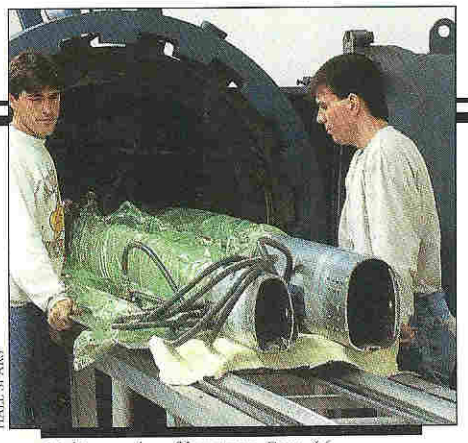
PROFESSIONAL BOATBUILDER



The magazine for those working in design, construction, and repair

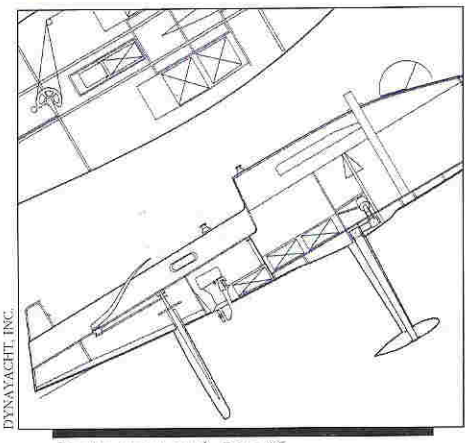
NUMBER 47
JUNE/JULY
1997
$5.95

INSIDE CONSOLIDATED YACHT
LICENSING NAVAL ARCHITECTS
CARBON FIBER SPARS
ADVANCED-COMPOSITES TRAINING



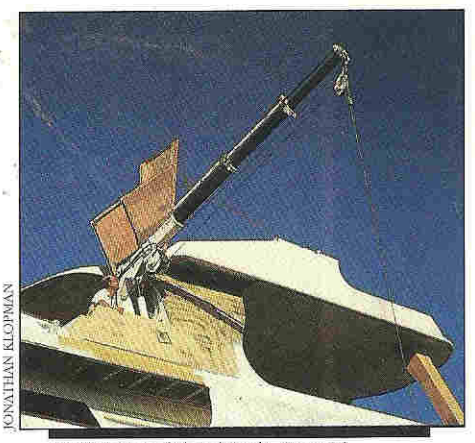
HALL SPARS

Making carbon fiber spars. Page 44.



DYNAYACHT, INC.

Eyeing recent work. Page 16.



JONATHAN KLOPMAN

Visiting Consolidated Yacht. Page 34.

JIM SOLLERS

Examining naval architects. Page 24.

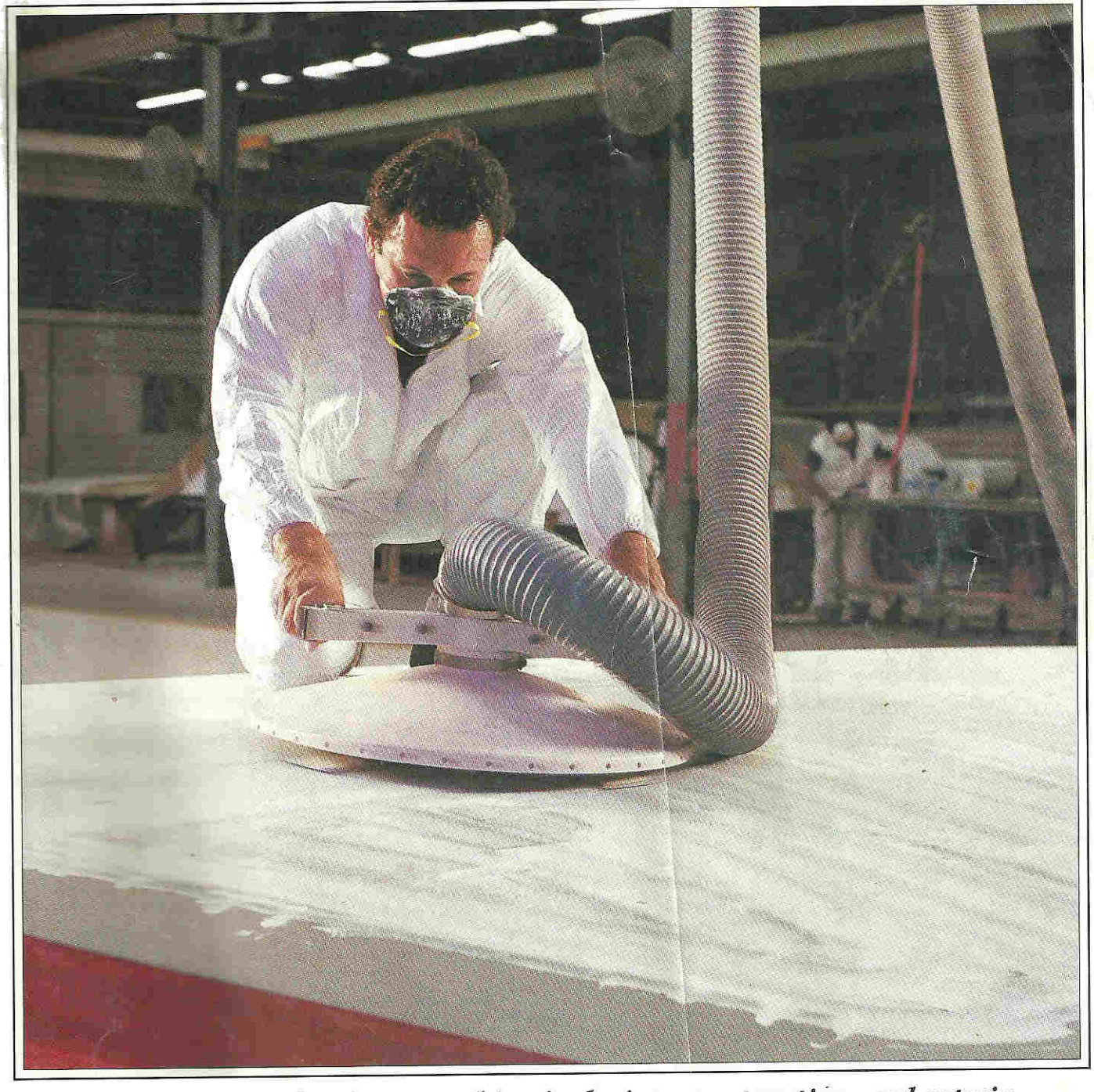
FEATURES

DEPARTMENTS

READER SERVICES

On the cover: The elegant center console of an Egret flats boat, built by Consolidated Yacht Corporation (Dania, Florida). Story on page 34. *Photograph by Jonathan Klopman.*

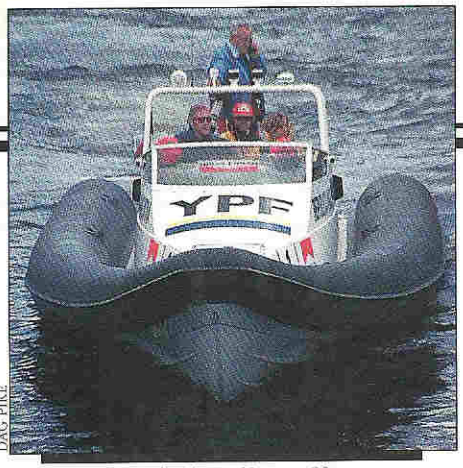
PROFESSIONAL BOATBUILDER



The magazine for those working in design, construction, and repair

NUMBER 46
APRIL/MAY
1997
$5.95

A VISIT TO VIKING YACHT
THE TECNO 40
MOLDED STRUCTURAL GRIDS
PROPELLER MATCHING

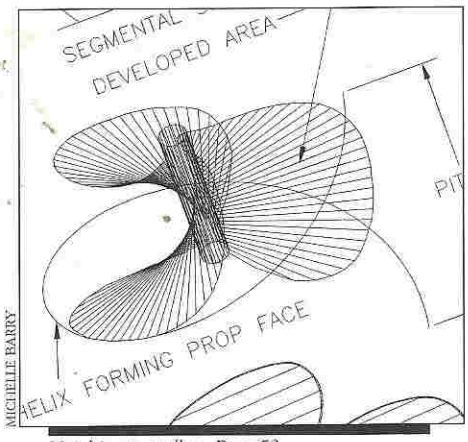


DAG PIKE

Appreciating the Tecno 40. Page 38.

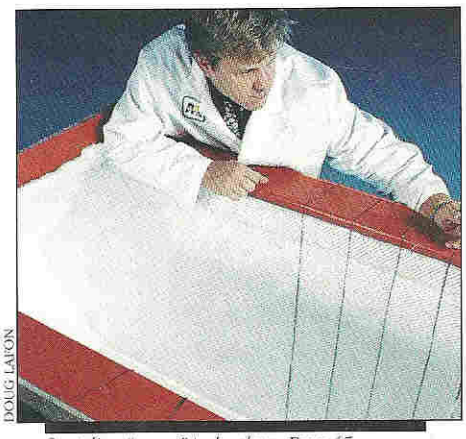
MICHAEL BERMAN

Touring the Viking Yacht plant. Page 16.



MICHELLE BARRY

Matching propellers. Page 52.



DOUG LAYON

Sampling "smart" technology. Page 45.

FEATURES

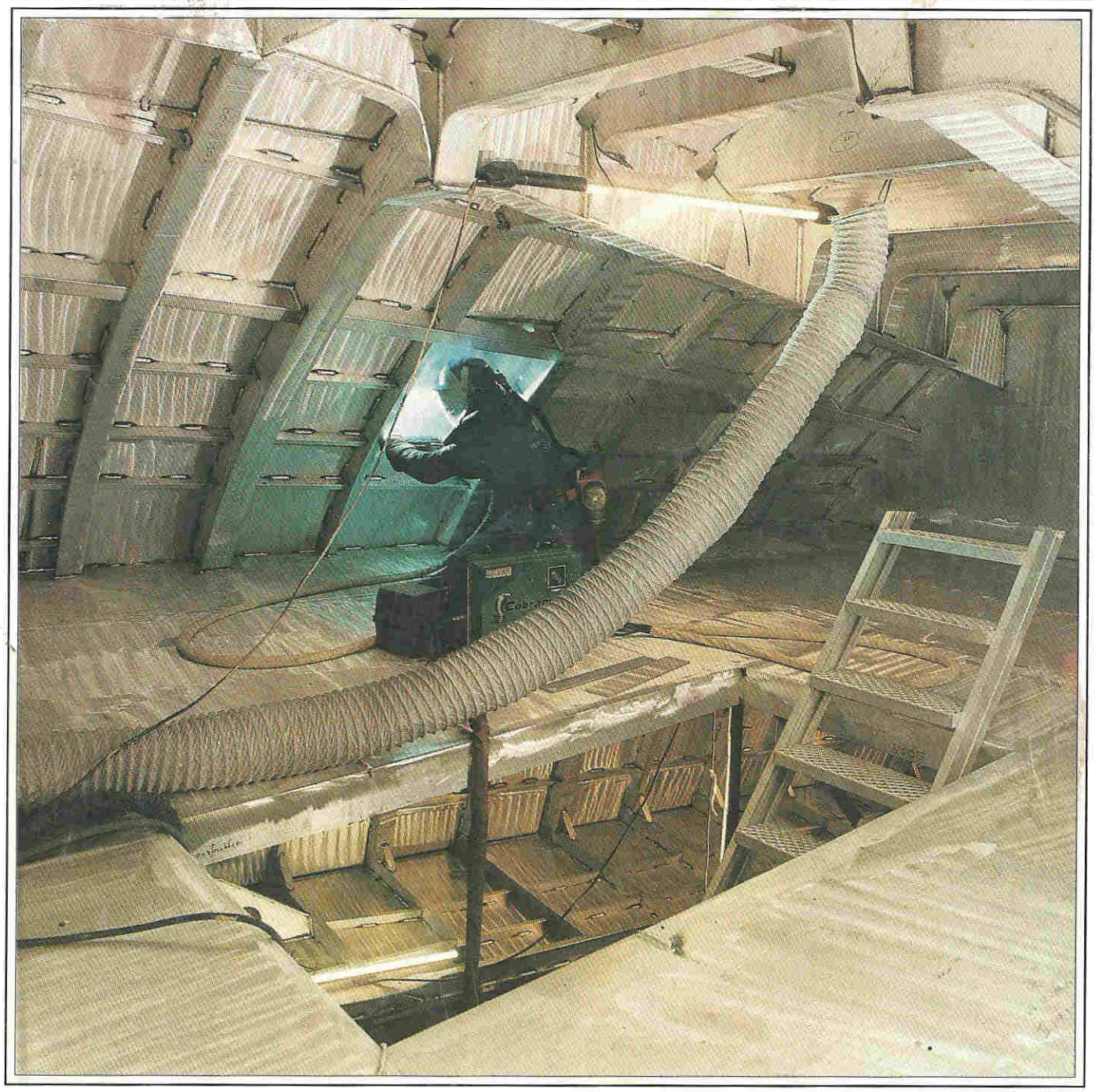
DEPARTMENTS

READER SERVICES

On the cover: Geraldo Martinez prepares a mold at Viking Yacht Company's New Gretna, New Jersey, production plant. Story on page 16. *Photograph by Michael Berman.*

IBEX ISSUE!

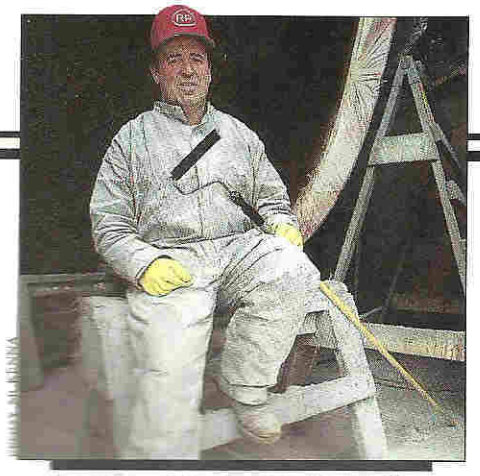
PROFESSIONAL BOATBUILDER



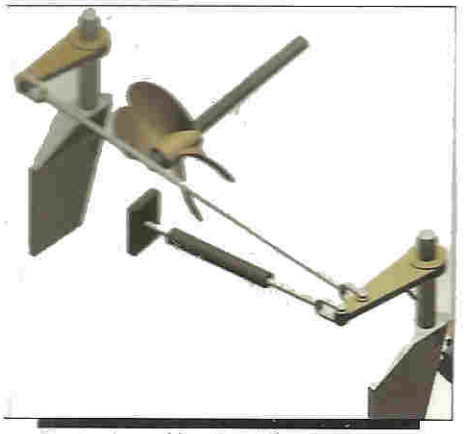
The magazine for those working in design, construction, and repair

NUMBER 45
FEBRUARY/MARCH
1997
$5.95

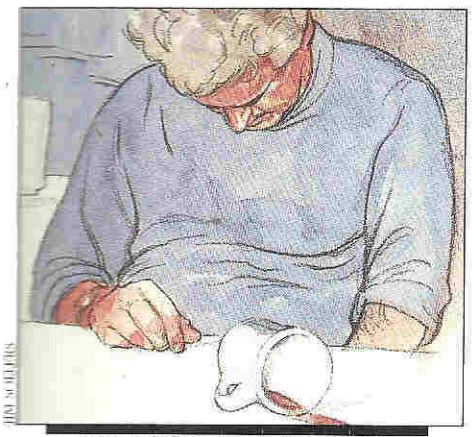
THE ROYAL HUISMAN SHIPYARD
BUILDING WITH FLAT COMPOSITE PANELS
CASE STUDIES IN REDESIGN
TUNING TWIN-SCREW RUDDERS



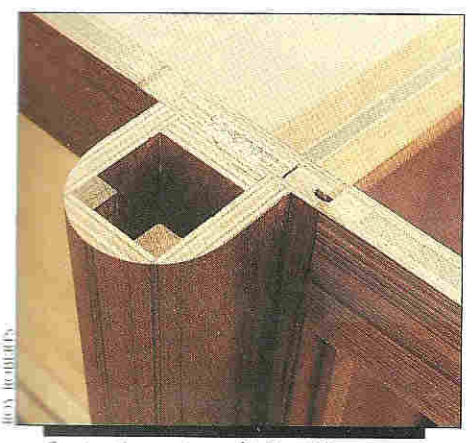
Laminating with bucket and roller. Page 76.



Fine-tuning rudders. Page 96.



Detecting carbon monoxide. Page 32.



Constructing a superyacht. Page 47.

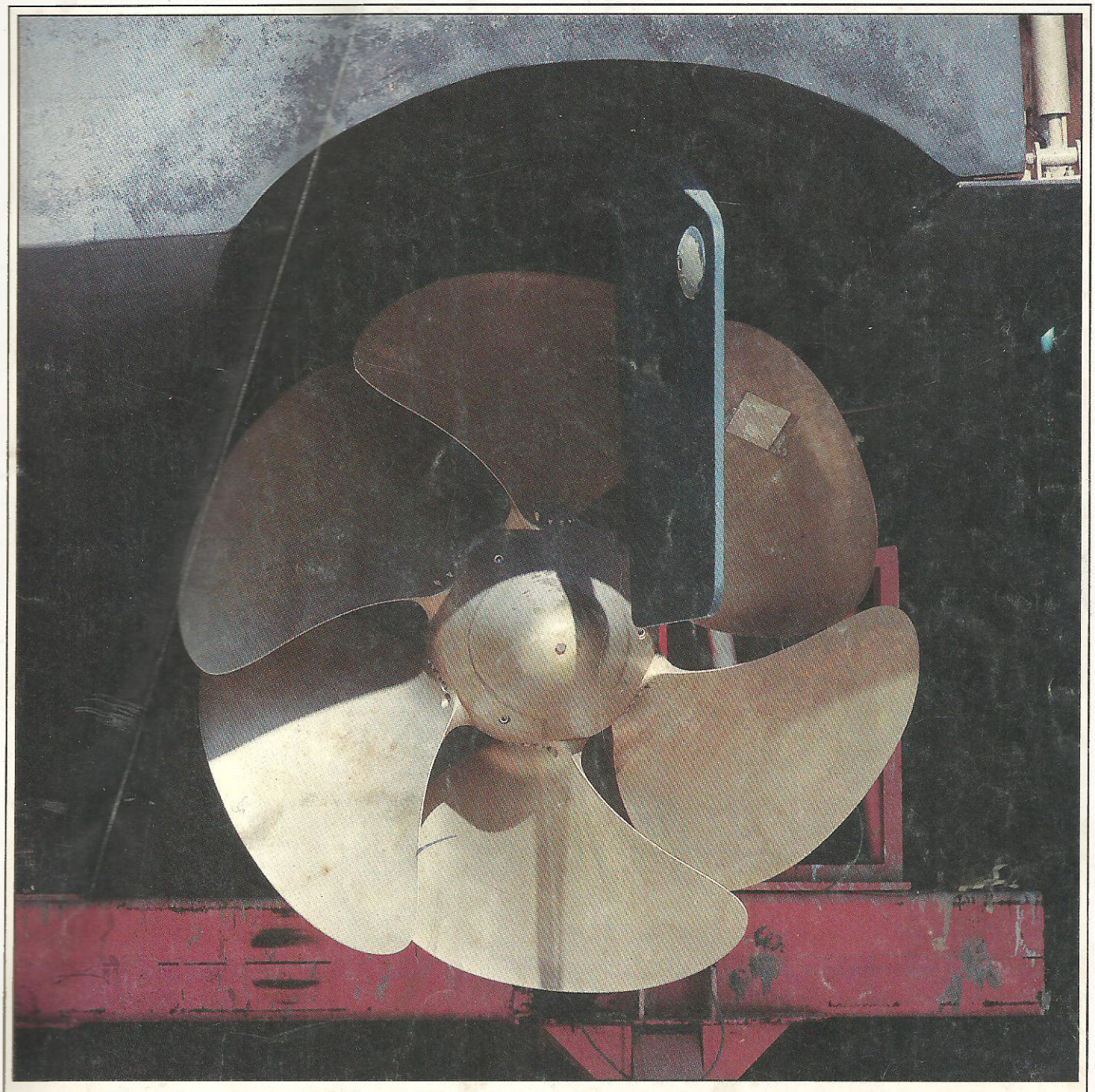
FEATURES

DEPARTMENTS

READER SERVICES

On the cover: A welder at the Royal Huisman Shipyard in Vollenhove, Holland, works inside the inverted aluminum hull of *Anakena*, a 132' sailing yacht. Story on page 47. *Photograph by Roy Roberts.*

PROFESSIONAL BOATBUILDER



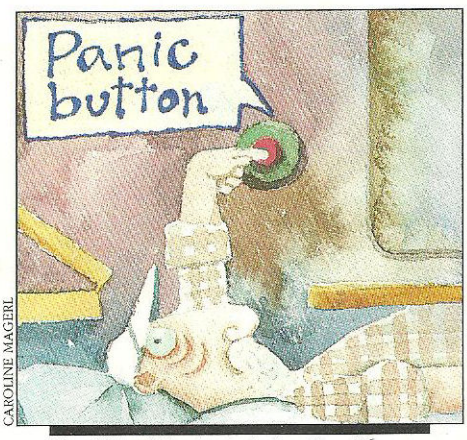
The Magazine for Those Working in Design, Construction, and Repair

NUMBER 44
DECEMBER/JANUARY
1997
$5.95

OPTIMIZING PROPULSION
NORTH END INFUSES A 90-FOOTER
BILGE PUMP RIGGING PROBLEMS
FIRE-PROTECTION STANDARDS REVISED

PAUL LAZARUS

Infusing a 90-footer. Page 30.

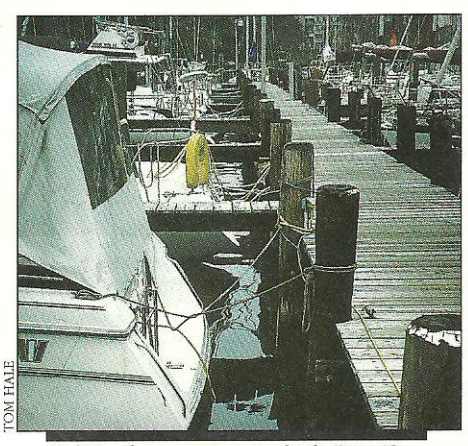


CAROLINE MAGERL

Simplifying bilge-pump rigging. Page 26.

MICHAEL BERMAN

Improving propulsion efficiency. Page 38.



TOM HALE

Updating fire-protection standards. Page 18.

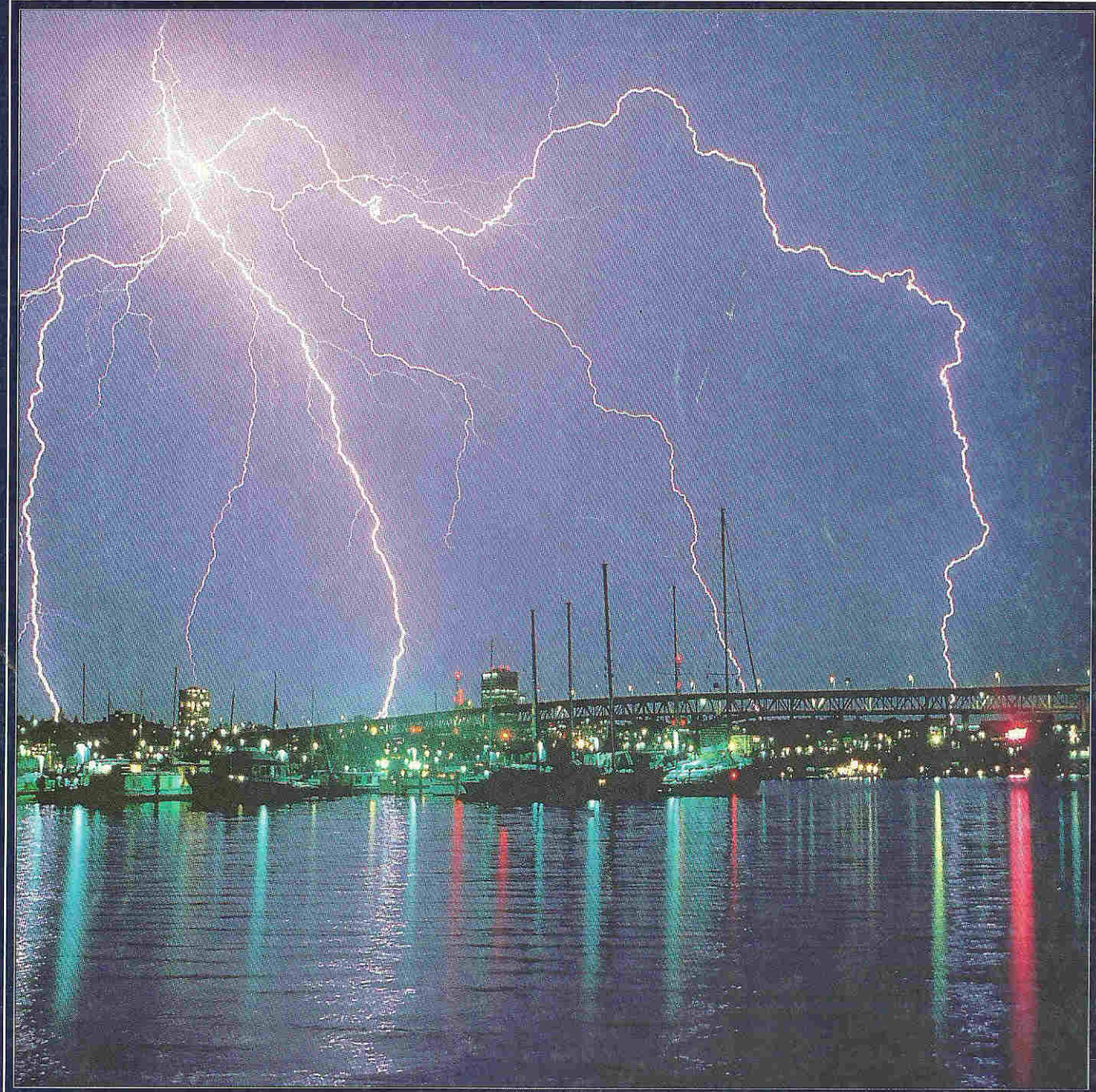
FEATURES

DEPARTMENTS

READER SERVICES

On the cover: Hull-bottom tunnels, along with custom propellers like the six-bladed, adjustable-pitch prop on this 90′ Hatteras motoryacht, help reduce cavitation and vibration in highly loaded installations, and have led to remarkable speed and efficiency improvements. Story on page 38. *Photo by Ray Strawbridge.*

·PROFESSIONAL· BOATBUILDER



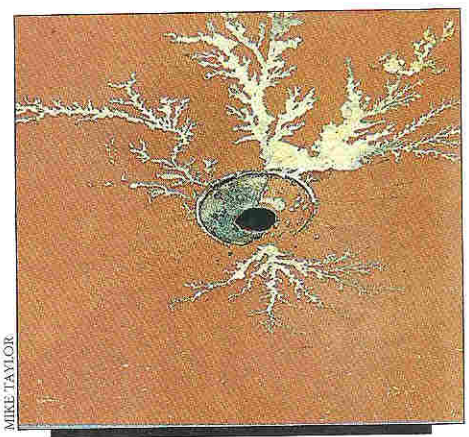
The Magazine for Those Working in Design, Construction, and Repair

NUMBER 43
OCTOBER/NOVEMBER
1996
$5.95

LIGHTNING PROTECTION SYSTEMS
J.B. HARGRAVE, DESIGNER
WET EXHAUSTS
REPAIRS TO ADVANCED COMPOSITES

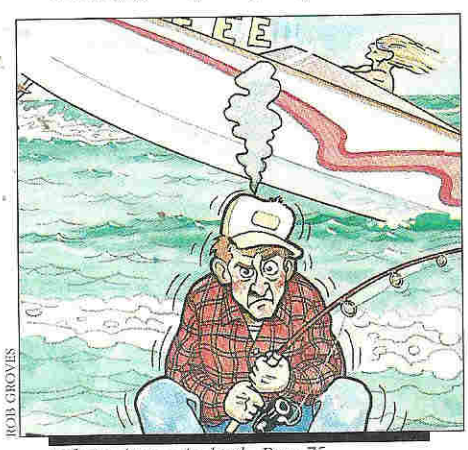
COURTESY DUDLEY DAWSON

Reviewing Hargrave's work. Page 36.



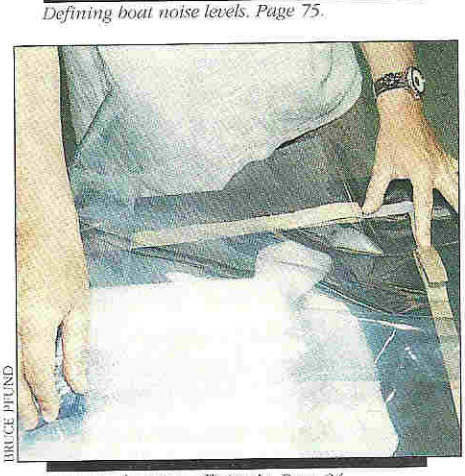
MIKE TAYLOR

Avoiding lightning damage. Page 64.



ROB GROVES

Defining boat noise levels. Page 75.



BRUCE PFUND

Vacuum-bagging efficiently. Page 24.

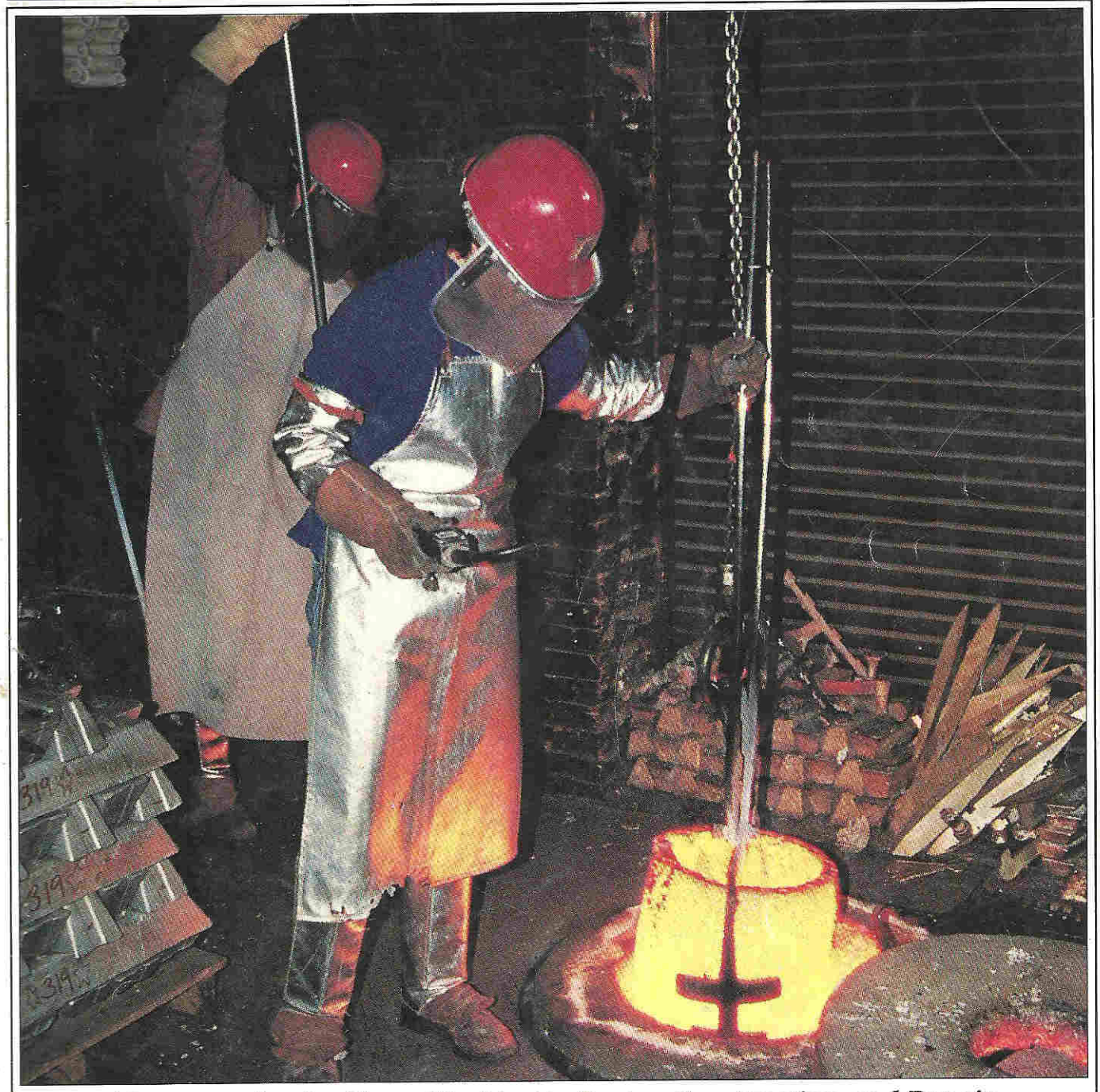
FEATURES

DEPARTMENTS

READER SERVICES

On the cover: A thunderstorm lashes out at Lake Union in Seattle, Washington. Only a boat equipped with a proper protection system is safe from the serious damage that a lightning strike can cause. Story on page 64. *Photograph by Jeffrey W. Myers/Uniphoto.*

PROFESSIONAL BOATBUILDER



The Magazine for Those Working in Design, Construction, and Repair

NUMBER 42
AUGUST/SEPTEMBER
1996
$5.95

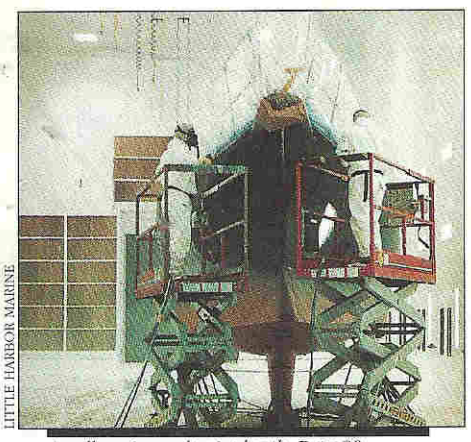
WORKING WITH THE FOUNDRY
WEIGHT ESTIMATES AND STABILITY TESTS
SWITCHING TO VINYL ESTER OR EPOXY
A BOAT PAINTER'S PAINT BOOTH

LILLY HAWS

High-performance resin systems. Page 52.

NSWC

The Navy's R&D center. Page 39.



LITTLE HARBOR MARINE

A well-engineered paint booth. Page 20.

ERIC SPONBERG

The stability test simplified. Page 26.

FEATURES

DEPARTMENTS

READER SERVICES

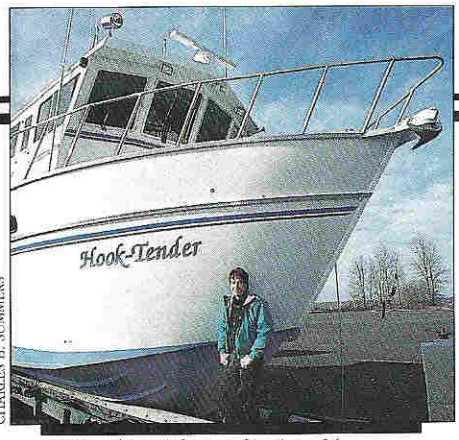
On the cover: Mystic River Foundry molder Sharon Hertzler uses a thermocouple to check the temperature of molten metal in the crucible in preparation for a custom marine casting. Story on page 46. *Photograph by Bruce Pfund.*

·PROFESSIONAL· BOATBUILDER

THE MAGAZINE FOR THOSE WORKING IN DESIGN, CONSTRUCTION, AND REPAIR

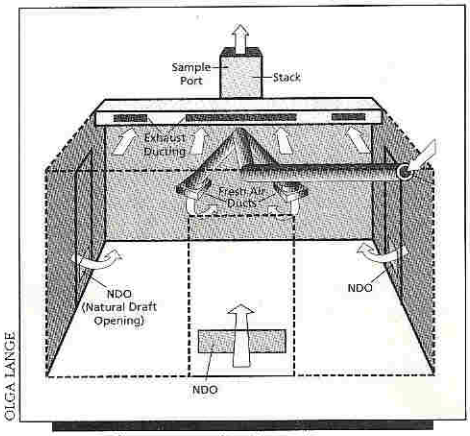
NUMBER 40
APRIL/MAY
1996
$5.95

COMMERCIAL YARDS THAT SWITCH TO YACHTS
RETHINKING PLYWOOD STRUCTURE
CAD/CAM APPLIED TO JOINERWORK
NEW DATA ON STYRENE



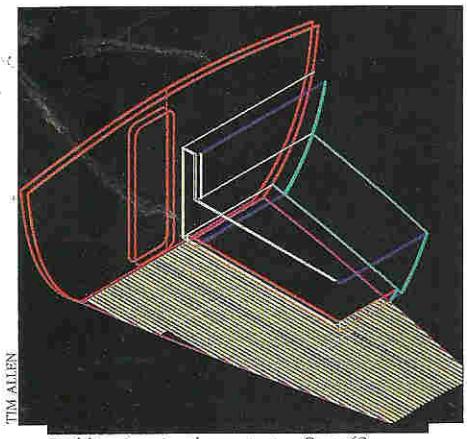
CHARLES B. SUMMERS

Making the switch to yachts. Page 24.

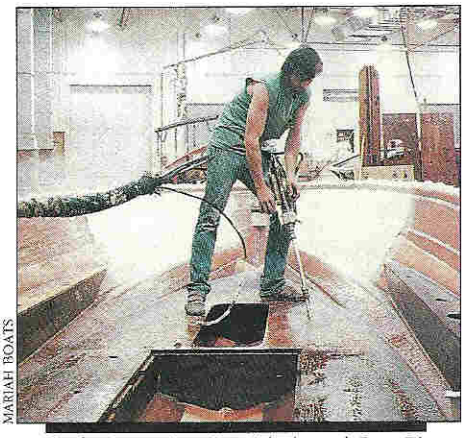


OLGA LANGE

Quantifying air quality. Page 17.


TIM ALLEN

Building interiors by computer. Page 42.


MARIAH BOATS

Production engineering with plywood. Page 54.

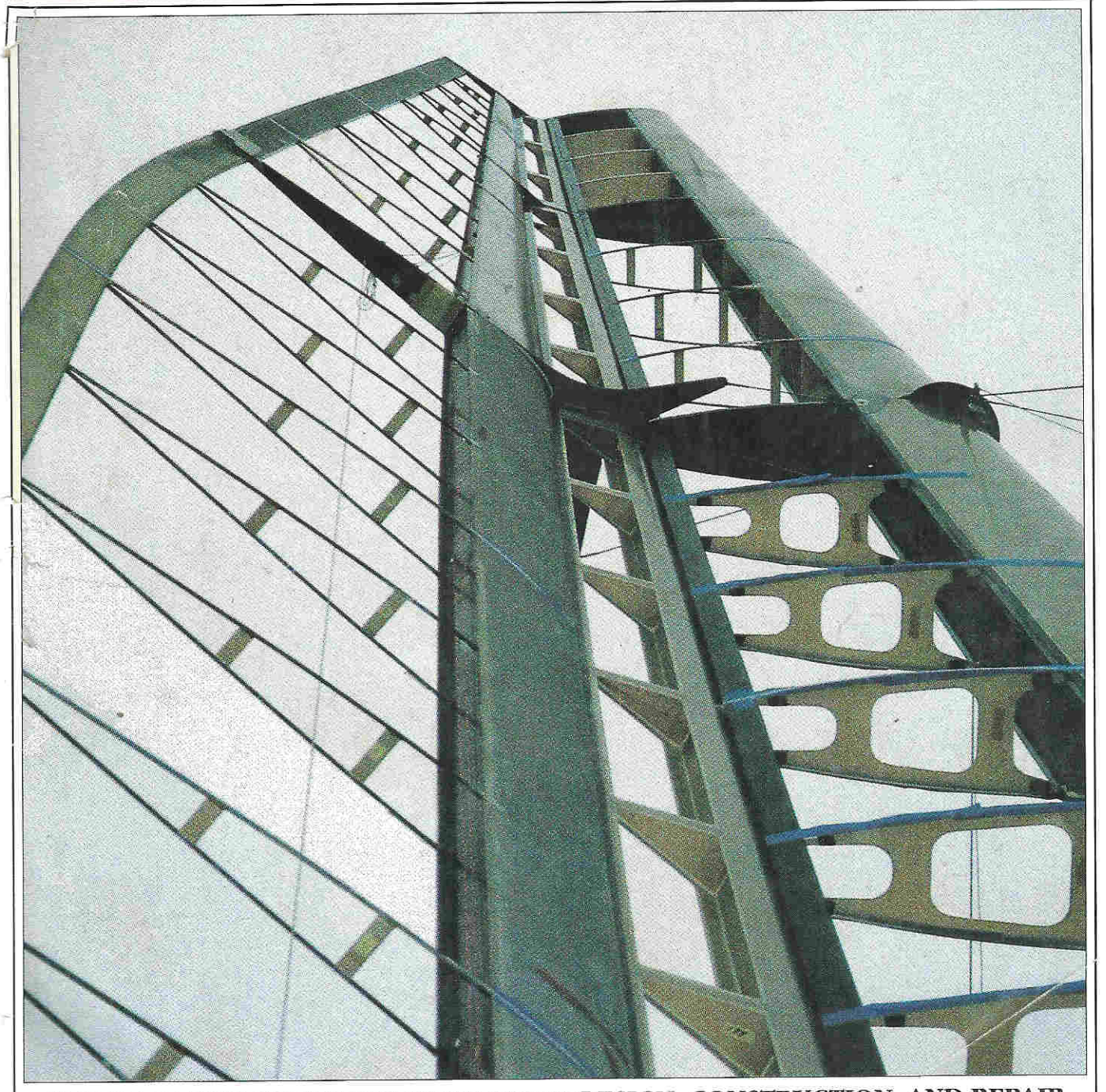
FEATURES

DEPARTMENTS

READER SERVICES

On the cover: Delta Marine has produced hundreds of fishboats. Today, though, the Seattle yard is a major builder of megayachts. The strong contrast between these two vessel types—and the trade that goes with it—is exemplified by the two images on our cover. Story on page 24. *Photograph by Martin Fine; inset by William Maguire.*

PROFESSIONAL BOATBUILDER



THE MAGAZINE FOR THOSE WORKING IN DESIGN, CONSTRUCTION, AND REPAIR

NUMBER 39
FEBRUARY/MARCH
1996
$5.95

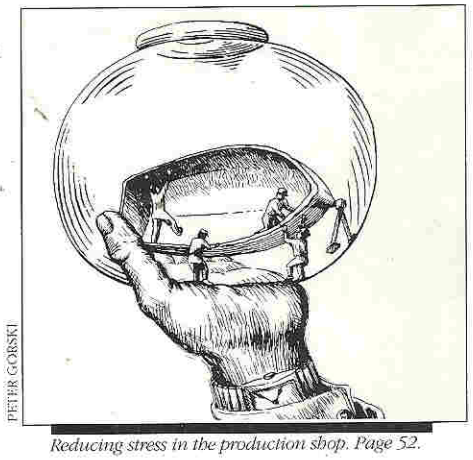
ADVANCED COMPOSITES IN A SIMPLE SHOP
HOW YACHTS ARE CLASSED
TAPING, TABBING, AND SECONDARY BONDING
LESSONS LEARNED AT BERTRAM YACHT

FOREST JOHNSON

Reflecting on the Bertram experience. Page 70.

HENRY ELLIOT

Building with advanced composites. Page 30.



PETER GORSKI

Reducing stress in the production shop. Page 52.

COURTESY GENE SPINAZOLA

Preparing for fire emergencies. Page 44.

FEATURES

DEPARTMENTS

READER SERVICES

On the cover: The articulating wing of *Cogito*, a Little *America*'s Cup contender, built with advanced composites. Story on her construction begins on page 30. *Photograph by Henry Elliot.*