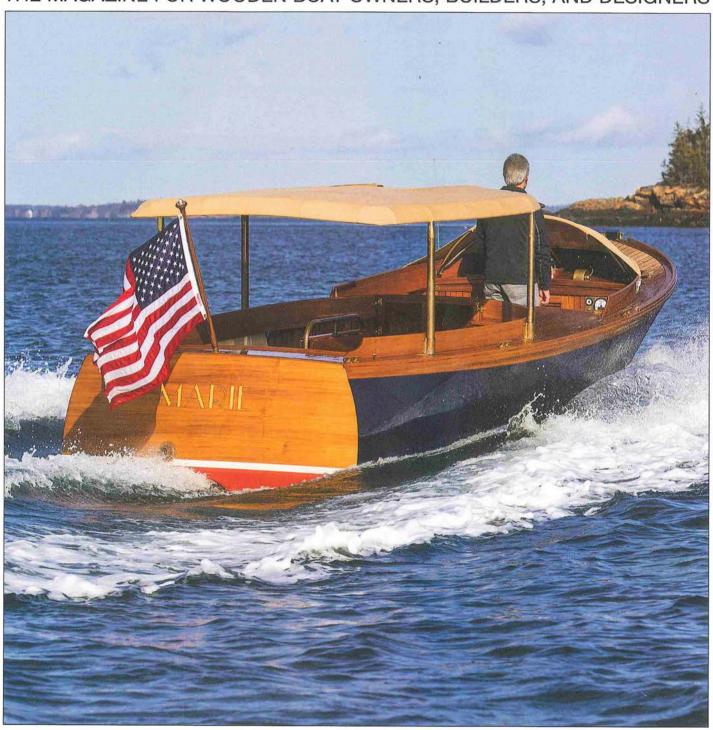
## WoodenBoat

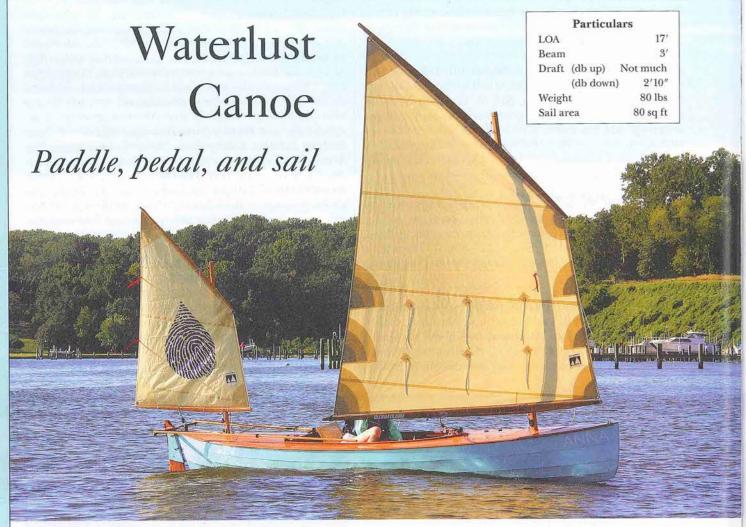
THE MAGAZINE FOR WOODEN BOAT OWNERS, BUILDERS, AND DESIGNERS



Herreshoff-Inspired Launch Exquisite Models Aboard a Classic S&S Yawl

JULY/AUGUST 2018 NUMBER 263 \$7.95 \$8.95 in Canada £4.99 in U.K.





## Design by Dillon Majoros Commentary by Mike O'Brien

ere's a good little boat that will take us across the bay to its far shore, where we might rest in that secluded cove out back of beyond. When the time comes for our return to the workaday world, the 17' Waterlust sailing canoe can ride atop (or behind) the old family car.

Dillon Majoros of Chesapeake Light Craft (CLC) designed this appropriately named canoe for the folks at Waterlust, an organization that combines marine science, sport, and art—and makes videos about all of it. These young people, working

with the CLC crew, built a matched pair of prototype canoes at CLC's Chesapeake Bay shop in just three weeks. They then paddled, pedaled, and sailed down the Intracoastal Waterway to their home base in Florida.

Let's take a look at this striking and competent canoe. Waterlust gives us the option of traveling by paddle, pedal, or sail. A simple double-bladed paddle will allow to us move along while pleasantly seated and facing forward. This paddle, unlike most oars, doesn't rest on a fulcrum; the resulting freedom lets us employ a

variety of strokes and braces for sport, fun, and safety. Of course, comfortable life jackets should be worn when we're aboard any small boat.

If we tire of paddling, Waterlust offers the option of pedaling with the Hobie MirageDrive. This wellengineered device will let us propel our canoe to hull speed by pumping our legs. It consists of pedals connected to a couple of flexible fins that extend below the hull and oscillate from side to side. Viewed from underwater, the smooth motion of these fins seems almost lifelike. (Follow the Hobie link at

Above-The Waterlust canoe is meant to be pedaled, paddled, or sailed. A pair of prototypes, built in just three weeks, traveled on their own bottoms from Chesapeake Bay to Florida.

the end of this review to find an MirageDrive. It lifts easily out of its enlightening video.)

Although the Mirage fins are reasonably sturdy, we'll want to be care- only aboard a short, fat, sit-on-top ful as we pedal through extremely shallow water. To avoid damage, we might push the pedals far forward; tion proved quite maneuverable this will cause the fins to swing up and rest nearly flush against the bottom or our canoe. We can still move along by employing a "flutter stroke"—that is, we'll keep our feet far forward and use only the first few inches of the normal full stroke. When a rough landing on a rocky shore seems likely, let's grab the double-bladed paddle and stow the

trunk as if it were a daggerboard.

I've experienced the MirageDrive "kayak" intended for fishermen. This bright-yellow plastic contrapand brutally stable, but fast it was not. Installing a MirageDrive in the long and slender Waterlust canoe seems a great idea! If we lose upperbody strength to injury or age, we can keep on pedaling.

This pedal drive, when combined with the lug rig, gives us an option of "motorsailing" in light-to-moderate breezes. We're told the experience will be "as natural as walking." Even so, we might take a few minutes to become accustomed to that pushpull tiller before motor-

doesn't require much hardware. If we secure the halyard to the yard with a rolling hitch, we'll be sailing through the harbor able to fine-tune sail set by sliding within view of spectators. that hitch up and down along With two positions the yard. Further adjustment can be had by changing tension in the downhaul, which is made fast to the boom next to the mast.

two-masted rig as a yawl, but some

folks will classify it as a ketch. This

question of definition can make

for a lively discussion. Many books

differentiate between these rigs

according to the location of the

mizzenmast...ahead or abaft the

rudderpost or the after end of the

waterline. However, functional defi-

nitions might prove of more value

here. Aboard a ketch, the mizzen

provides significant force for pro-

pelling the boat. Aboard a vawl, the

small mizzen serves primarily for

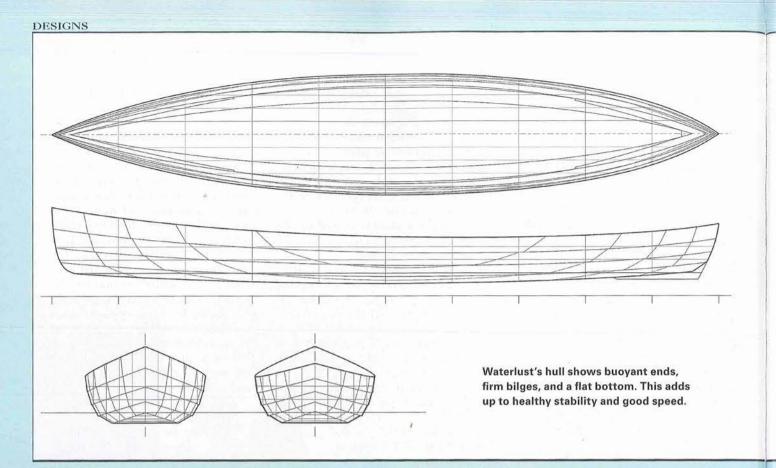
balance and control. As may be, the

specified balance lugsail holds many

advantages. Its relatively short spars

are easily handled and stowed, and it



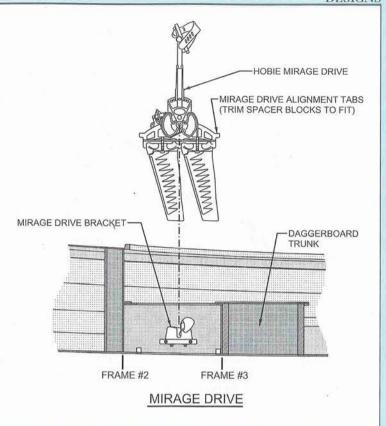


This arrangement also provides an automatic boom vang, which helps to control sail twist. If the sail's clew tries to lift the outboard end of the boom, tension in the taut luff holds everything in place. Let's ask our sailmaker to work a little hollow (concave curvature) into the leech of each sail. This will avoid folds and wrinkles, and it should preclude any need for battens.

A lugsail takes well to reefing because the center of the sail when reefed doesn't move much forward. The designer points out: "Two reefs in the main and a stowed mizzen drop the sail area from 80 sq ft to 36 sq ft." That's comforting. Yet if the breeze comes on really strong, we might be tempted to drop everything that will come down without an axe... and then paddle or pedal for cover.

When drawing Waterlust's hull, Majoros began with the spirit of a classic 19th-century sailing canoe. He gave this new hull more volume and fuller ends in a search of "increased carrying capacity, stability, and performance under sail."

The Hobie MirageDrive makes fine use of the power in our legs. When not needed, the unit easily lifts out of its trunk.





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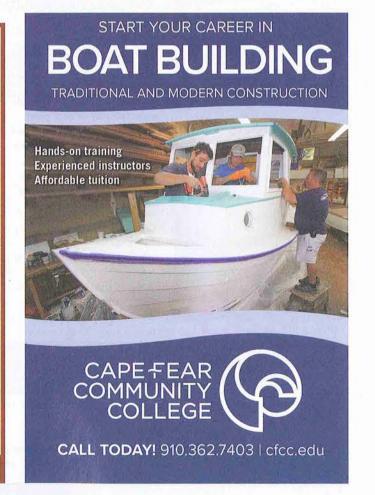
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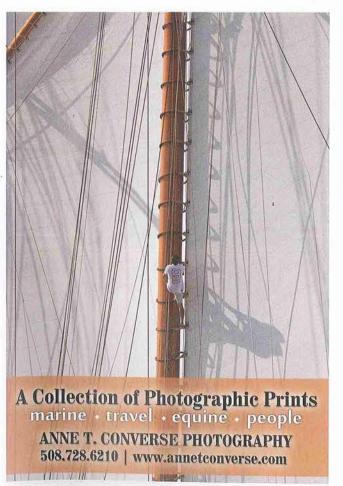
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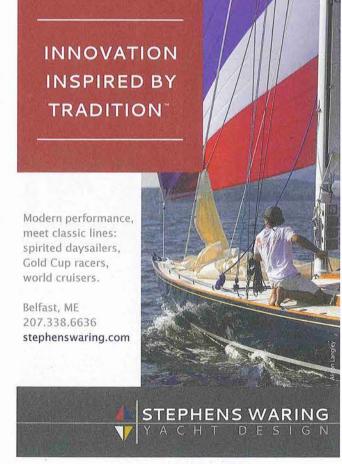
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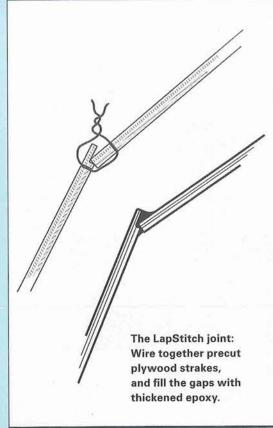
Prices Quoted 80 Grit







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Firm bilges and a flat bottom the length of each rabbeted lap. add to initial stability. That flat bottom also will help our canoe and it will let Waterlust slide of a long day.

the LapStitch method, which is CLC's version of glued-lapstrake of a LapStitch (lapstrake) hull construction. A constant 90-degree because shadows cast by the laps rabbet gets worked into the lower help define the sweet lines of a inboard edge of each plank. The good-looking hull. square upper outboard edge of hull, we'll inject that goop along planking."

Gravity will be our helper.

How does LapStitch compare stand bolt upright on the beach, to common stitch-and-glue multichine construction? If we're after across the sand easily as a tobog- a yacht finish, LapStitch hulls gan-no small matter at the end tend to go together more quickly because they require much less This hull goes together using sanding and fairing. And some of us prefer the appearance

Will Waterlust's hull be strong the adjoining plank fits into the enough? CLC's owner, John C. rabbet, and wire ties hold every- Harris, tells us: "LapStitch boats thing together in stitch-and-glue now number about 15,000, and fashion as we build the hull. I've yet to have one 'unzip.' We've Ah, you say, but there is no roll- had some demo models destroyed ing bevel; therefore, the strakes in auto accidents (alas), and the cannot mate perfectly. True, but planking tore laterally instead we'll fill the voids with silica- of ripping apart at the seams. thickened epoxy. Working on There's actually more gluing the inverted stitched-together surface than in glued-lapstrake



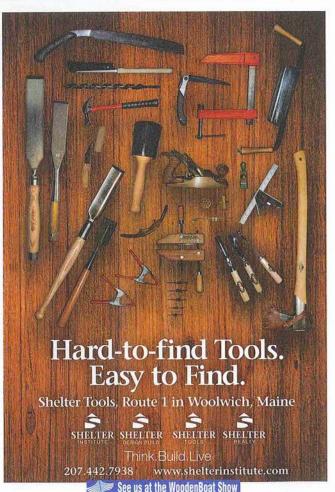
paddling and pedaling), we can take night. At first light we'll pedal off Waterlust camp-cruising. Sealed compartments offer plenty of dry sea breeze makes up, we can sail stowage, and the cockpit sole is to wherever. Later, as the thermal large enough to allow comfortable fades, we might paddle home... A video of the Hobie MirageDrive in action sleeping. For protection, and a mod- or perhaps we'll head back to that can be found at https://www.hobie.com/ icum of privacy, a tent rigged to the secluded cove.

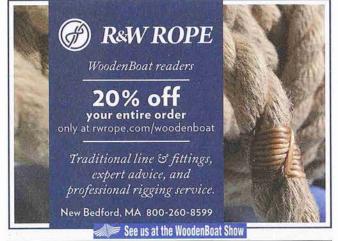
In addition to daysailing (and coaming should get us through the into the morning calm. When the

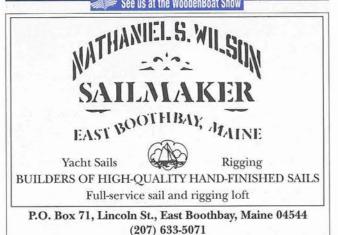
Contact designer Dillon Majoros at Chesapeake Light Craft, 1805 George Ave., Annapolis, MD 21401; 410-267-0137; dillon@clcboats.com; www.clcboats.com.

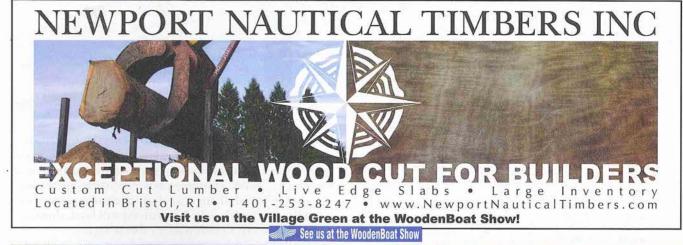
You can learn more about the Waterlust venture at www.waterlust.com.

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