



The Scupper

The newsletter of the Erie Power Squadron

A unit of the United States Power Squadrons



Issue: January 22

Commander's Message

The advertising for the public boating class to be held in March/April is underway. Advertising has been mailed out. Marinas and yacht clubs have been notified. The information has been added to electronic calendars for Go Erie, Your Erie, Erie News Now, and Erie Reader. The information is also on the USPS and PFBC websites. We have 8 students signed up so far but will always take more. If you know anyone that may be interested, please let them know.

I was involved in a Zoom meeting with national. The most interesting new development is a shipping deal with **UPS**. This benefit is for personal or squadron needs. It is supposed to get you up to 45% off. The code is CE41XML78. You can go to [ups.com/usps](https://www.ups.com/usps) to set up a personal account.

For anyone who has ever seen the personal trainer that USPS loans out for boat handling training, it is a very powerful device. The problem with it is that with 3 monitors and all the extras, it is not very practical. National now has Virtual trainer software for laptops. I do not know what the cost is at this time, but this may be more practical for the average squadron.

Seeing as March will be **Change of Watch**, we are asking if anyone is interested in being a bridge member for the upcoming year. We would appreciate the help in keeping our squadron going. If you are interested in a position or would like more information, please contact Jim Tingley at 814-835-4579 for more information. Right now, we have 3 officers. (Bill Smith – Treasurer, Bill Long – Administrative Officer, and Jim Tingley – Commander). There are 3 positions available. (Education Officer, Executive Officer, Secretary). If you are interested, we would be glad to have you.

Next Board Meeting

Thursday, January 13th at 7:00pm at the Erie Yacht Club

Thursday, February 10th at 7:00pm at the Erie Yacht Club

Next Dinner Meeting

We are planning to have a Founder's Day/Change of Watch with the March 10th meeting. Show up and have dinner with us. Please call Jackie Tingley at 814-835-4579 for reservations. Reservations are not necessary, but we would like to make sure that we have enough seats.

Bridge Officers

Commander	Cdr. James Tingley, P	<u>jbunchj@msn.com</u>
Executive Officer	Open	
Administrative Officer	Lt/C William Long, JN	<u>billlong1348@gmail.com</u>
Education Officer	Lt/C Gary Holloway, S	<u>garyh2104@gmail.com</u>
Treasurer	Lt/C Bill Smith, S	<u>bsmithboats@verizon.net</u>
Secretary	Open	

Important Internet Links

Erie Power Squadron Website	<u>https://www.usps.org/localusps/erie/</u>
District 11 Power Squadron	<u>https://www.usps.org/localusps/d11/</u>
United States Power Squadron Website	<u>https://www.usps.org/</u>
America's Boating Club Website	<u>https://americasboatingclub.org/</u>
Erie Power Squadron – Facebook	<u>https://www.facebook.com/EriePowerSquadron</u>
America's Boating Club – Facebook	<u>https://www.facebook.com/uspowersquadrons/</u>
America's Boating Channel – Youtube	<u>https://www.youtube.com/channel/UC1c_rFyt1fGqvdiSauAijAg</u>

United States Power Squadrons



ABC3 Boating Course

Conducted by the Erie Power Squadron
A Unit of the United States Power Squadrons

CLASSES BEGIN:

Monday March 7th, 2022

Bayfront Maritime Center

40 Holland Street, Erie, PA 16507

Registration: Monday March 7, 2022 at 6:30PM

8 - Week Duration

Monday Evenings – 7:00PM – 9:00PM

THIS BOATING COURSE WILL MAKE YOU, YOUR SPOUSE,
AND CHILDREN SAFER BOATERS

Instruction is Free

There is a nominal fee of \$50.00 for books, material, shipping and handling
(Piloting supplies are extra. - \$10 for plotter - \$15 for dividers)

**Passing this course will earn you a
Pennsylvania Boating Safety Certificate**

**Mandatory for anyone born after 1/1/1982 that operates a vessel with 25 hp or more or for
anyone operating a personnel watercraft
You may save up to 10% on your Boat Insurance**

To Pre-register and for more information call:

Call: 814 835-4579

E-Mail: erieps@gmail.com

www.usps.org/localusps/erie



- [MOTORS](#)

- [MARINE](#)

DECEMBER 21, 2021

How Hydrofoils and Electric Engines Could Join Forces to Change the Future of Boating

Proven in competitive sailing, that dynamic-duo technology is showing up on more electric runabouts, surfboards and waterborne bicycles.

By [J. GEORGE GORANT](#)

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Courtesy Fliteboard

A hydrofoil-equipped, electric-powered surfboard that flies above the water at more than 35 mph for two hours on a single charge makes for a fun afternoon, but it may also be a harbinger of the boating industry’s future. “Everything is rapidly going electric—cars, planes, skateboards—it makes sense for marine to transition to those power sources too,” David Trewern, CEO of [Fliteboard](#), told *Robb Report*. “From the start, we thought of the [Fliteboard](#) as a great way to show the potential of e-power and capture the public’s imagination.”

Mission accomplished. Fliteboard says it hit \$100 million in sales in its first two years. And it's far from the only combination of hydrofoil and electric motor to emerge in the last year. "Foils are the magical enabler that makes electric practical for marine transport," Trewern says. The company has competitors that include [Radinn's X-Sport](#) and [YuJet's electric surfboard](#).

Foils have long been a part of competitive sailing in the [America's Cup](#) and more recently, [Sail GP](#), but now they're on surfboards, electric powerboats and even waterborne bicycles.



The foils on the Manta5 hydrofoiler provide stability, while its electric motor can push its non-pedaling speed up to 12 mph. Courtesy Manta5

The physics are simple: The relatively large surface area of a boat's hull—or even a surfboard—creates a massive amount of drag, which requires a lot of power to push across the water. The horsepower needed to propel the vessel also adds weight, creating a vicious cycle that necessitates more horsepower. A battery bank for an electric motor is even heavier than a conventional gasoline engine, making pure e-power at sea a near impossibility, at least for fast cruising over long ranges.

But a hydrofoil—an underwater, carbon-fiber wing that lifts the hull clear of the water—cuts the drag to almost nothing. Suddenly, electric power is a viable option. “They’re quiet, they create almost no wake, which is better for preserving banks and coastlines, and they have no emissions,” says Trewern.

Now that hydrofoils and electric engines have found each other, water travel may never be the same. [Candela](#) builds two models of foiling electric runabouts, each of which reaches a top speed of roughly 30 knots and has a cruising range around 55 miles.



Thanks to the foils—which translate to minimal wetted surface and minimal drag—Candela’s C8 has a top speed of 30 knots and range of 50 miles. Those are far better stats than its non-foiling electric competitors. Courtesy [Candela](#) Yachts

That’s enough power and speed to pull a rider on a foiling wakeboard. [Navier](#) is also in the process of building its first 27-foot electric runabout, with three retractable foils.

At the other extreme of the runabouts is the Manta Hydrofoiler, a foiling water bicycle with a variable-speed electric-assist motor that can provide as much or

little boost as the rider chooses. At the lowest setting, the motor will allow the foils to lift the body out of the water with minimal pedaling. At full power, it'll push the Hydrofoiler to 12 mph.

The range of water toys and real boats that are moving towards electrification is proceeding quickly, with more than a dozen new products announced each year.



Fliteboard has several foiling boards designed for both surfing and flat-water cruising. Courtesy Fliteboard

Trewern, who lives on Australia's Byron Bay, anticipates a very different future for boats and other vessels that is quickly beginning to emerge. "When I look out there," he says, "I can imagine a time maybe five years from now where all I see are electric vessels."