



High Performance . . .  
Under Pressure®

## High Performance News

### Our Experience Runs Deep



We were thrilled to have been selected by DeepFlight, a leading manufacturer of high performance personal submarines, to supply a range of custom penetrator assemblies for its newest submarine model, the DeepFlight Super Falcon 3S. The high density, ABS certified custom penetrators will be crafted from anodized aluminum and rated to 400FSW. The custom penetrator assemblies will be a key piece of the Super Falcon 3S, a craft which was specifically designed for ocean tourism and to provide underwater

excursions at luxury resorts around the world.

BIRNS has been providing solutions for demanding marine environments since 1954. During our long and successful history in the marine market, we've been chosen by numerous manned and unmanned vehicles for connectors and custom cable assemblies, as well as by a diverse suite of military, marine science and offshore companies. "We are thrilled to be partnering with DeepFlight as they prepare for the exciting launch of the DeepFlight Super Falcon 3S submarine," says Eric Birns, BIRNS President and CEO. "It's wonderful that DeepFlight is creating more opportunities for the public to access and experience the ocean in such a unique and exciting manner. We're proud to have been chosen to support them in this innovative new facet of marine exploration."

### Our Amazing 2017 Scholarship Recipient

All of us at BIRNS are proud to announce that Rayna Kanapuram has been awarded our annual Debra K. Geist Memorial Scholarship. The Newbury Park High School student was honored at a ceremony at the company where she was given a scholarship award of \$500 to be used for college in the fall.

The late Debra Geist was BIRNS' Purchasing Agent for many years, before her sudden and tragic passing. In her memory, the company launched an annual college scholarship program to encourage and recognize high school students in Ventura County with strong leadership potential, committed to the pursuit of excellence in a business career. Miss Kanapuram is a National AP Scholar and a National Merit Scholar finalist, with a Black Belt from the International Shotokan Karate Federation in Japan. She is the cofounder of the Girls Who Code Club, teaching high school girls computer programming with her own curriculum. Miss Kanapuram will be attending University of California, Berkeley as a Regents' and Chancellor's Scholar in the fall.

"We are so impressed with Miss Kanapuram's many scholastic and personal achievements," says Eric Birns, President and CEO of BIRNS. "She is an outstanding young woman, and perfectly embodies the spirit of this scholarship program."



## New Enhancements

We have introduced newly added features to our flagship, high performance 6km-rated subsea connector line, the BIRNS Millennium™ series, including hex flats on its coupling rings to make the connectors even easier to loosen by hand or with a wrench, and allow a torque wrench to be used so that a specific mating torque can be applied for certain high-precision applications.

We've also developed special wrenches for each connector size in the series. Each hard phosphor bronze coupling ring features Higbee threads-- a special formation at the beginning of the thread providing positive identification to eliminate cross threading--and includes exclusive anti-rotation locking set screws. Another new feature is a special viewing hole that allows a user to visually verify that the connectors are fully mated, provides additional water drainage when surfacing and even provides a spanner-wrench capability.



And for our wide range of high performance marine lighting systems, we've introduced new lamps for lights for applications from helmet and vehicle use to PVHO, including the popular BIRNS Doubly-Safe Chamber Light-LED™. The new 450 lumen lamps for this rugged chamber light have 35,000 hour lamp lives and come in a wide selection of voltage ranges, all with a mere 6.5W power draw.



The system provides BIRNS' proprietary Doubly-Safe dual helium release method, which makes the entire front of the light its own helium release valve. It consists of a back-up spring in the front lens mount, along with its additional stainless steel release mechanism, to safely and quickly remove any gas that might otherwise get trapped during compression. The BIRNS Double-Safe Chamber Light-LED is tailored for pressurized helium/oxygen use in submarines, diving bells and decompression chambers, and has a low profile of 76mm, and is easily mounted on ceilings and walls.



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