

Winter 2022

Hello! Here's the latest from the National Deep Submergence Facility. It's been a busy winter already, with hybrid planning sessions for AUV *Sentry* dives to survey the seafloor of the Gofar transform fault in the eastern Pacific Ocean, ROV *Jason* in Woods Hole for a maintenance period, and the Alvin Group repairing the submersible's syntactic foam. Members of our team will be at the virtual DeSSC meeting this Friday, February 25, and attending Ocean Sciences next week.

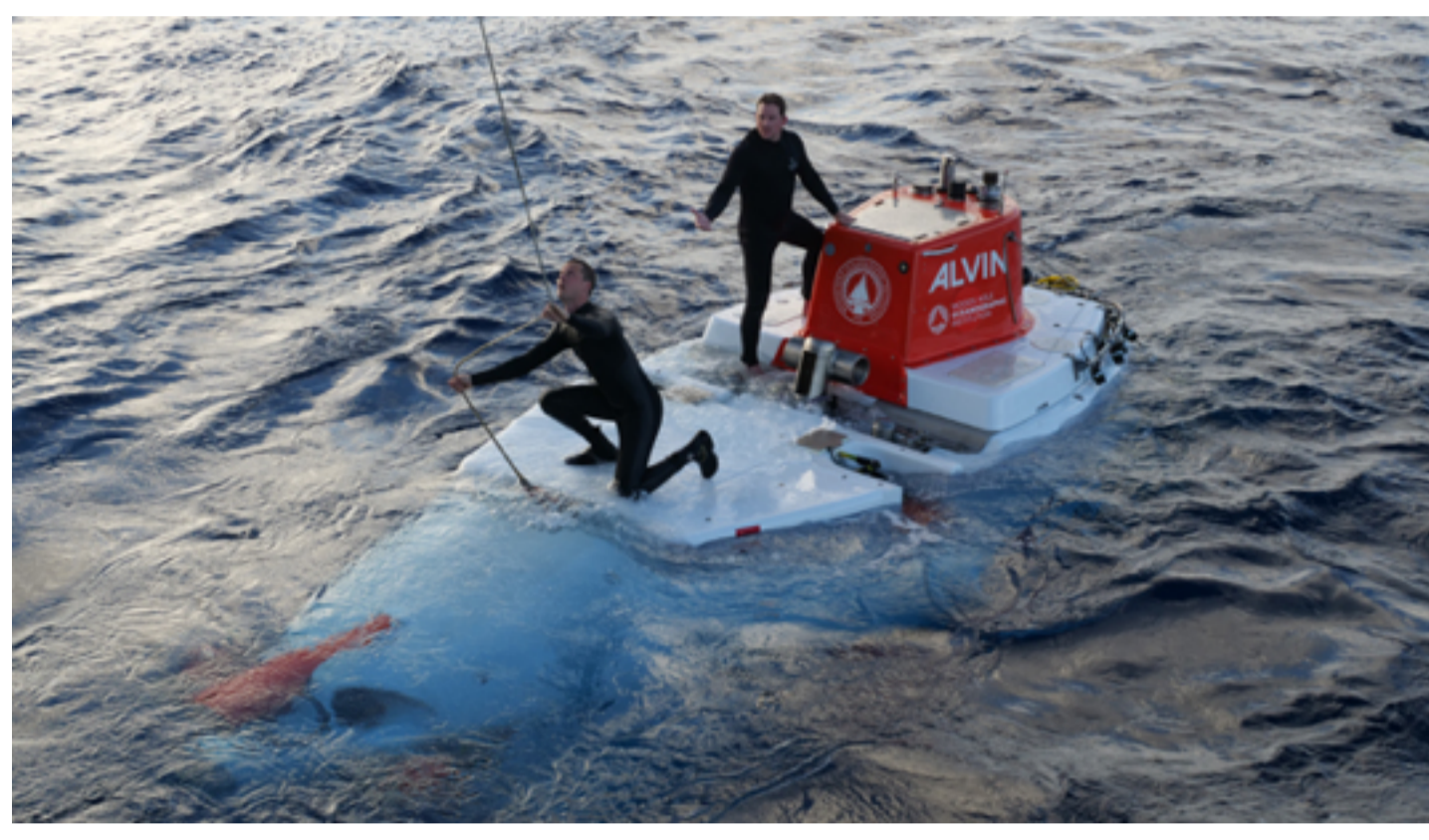
Keep reading for updates on our vehicles, interviews with our engineers, and some upcoming events—including a deep-sea photography workshop—that you won't want to miss.

Jason and Sentry sniffing out methane in the deep sea



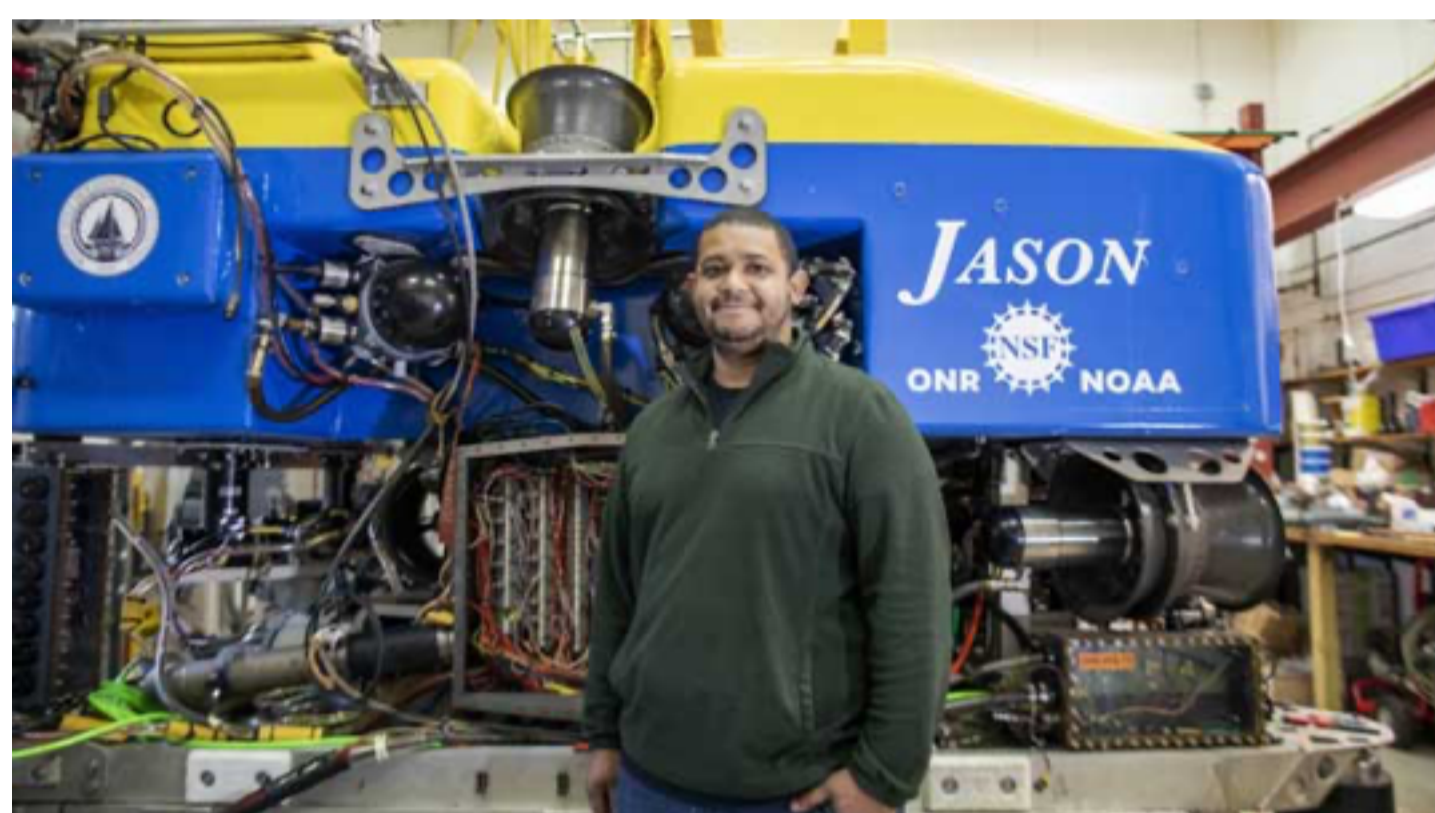
On a research expedition in the Gulf of California, scientists from Woods Hole Oceanographic Institution tested new instruments, deployed by *Jason* and *Sentry*, to find and detect methane and other gases in situ. [Read the whole story.](#)

Around the facility



Underway: *Alvin* syntactic foam repair

Setting the stage for the sub's return to operation



Meet the Jason Team: Mario Fernandez

A mechanical engineer, pilot, and expedition leader on vehicle design and adventures at sea



Meet the Sentry team: Amanda Sutherland

A mechanical engineer on independent workflow and collaboration

Events

February 28 through March 4: Find us at Ocean Sciences

Browse this roundup of sessions that feature scientists using data and observations from NDSF vehicles and the engineers developing new underwater technology with ROV *Jason* and AUV *Sentry*. [Take a look.](#)

April 12 and 19: Deep sea photography workshop

A guide to image collection—both video and still—using the vehicles that enable ocean exploration and research. This interactive virtual workshop will feature experts in deep-sea imagery and technology to create a foundation for new and experienced users as they use the world's deep submergence assets. Sponsored by UNOLS. Open to scientists, post-docs, and students. Check the [UNOLS-DeSSC site](#) for registration in March.

Updates

Welcome: New DeSSC Chair Andrew Thurber

The facility welcomes microbial ecologist Andrew Thurber of Oregon State University as the new chair of the Deep Submergence Science Committee! We thank Anna-Louise Reysenbach for her long and continued commitment to deep submergence during her term as chair.

Apply: Seeking *Alvin*'s next pilot-in-training

The Alvin Group is currently seeking a highly motivated, technically competent and responsible mechanical engineer to join our operations team. The position includes six-to-eight months at sea. Exceptional candidates will be entered into the Alvin Pilot in Training program. [View and share job posting.](#)

Watch: Live from hydrothermal vents in the Guaymas Basin

Three live-stream events from an ROV *Jason* and AUV *Sentry* expedition on the Scripps-operated R/V *Roger Revelle* to the Guaymas Basin in the Gulf of California. [Watch here.](#)

Stay tuned: Surveying the vehicle data landscape

The NDSF Data Team is working to develop a holistic assessment of the data landscape across all NDSF vehicles. In addition to addressing user requests with Sealog interface improvements, the team is reviewing all aspects of the at-sea data pipeline to identify potential efficiencies that can be gained by standardizing operations. The team is also harmonizing data deliverables, formats, and policies while utilizing maintenance periods to establish cross-vehicle consistency. The team is devoting significant effort to modifying Sealog to improve usability and to streamline back-end components to help make future changes easier to achieve. If you have any questions, [please get in touch.](#)

In the media

OCEAN OBSERVATORIES INITIATIVE

Two artists at sea inspired by *Jason* footage

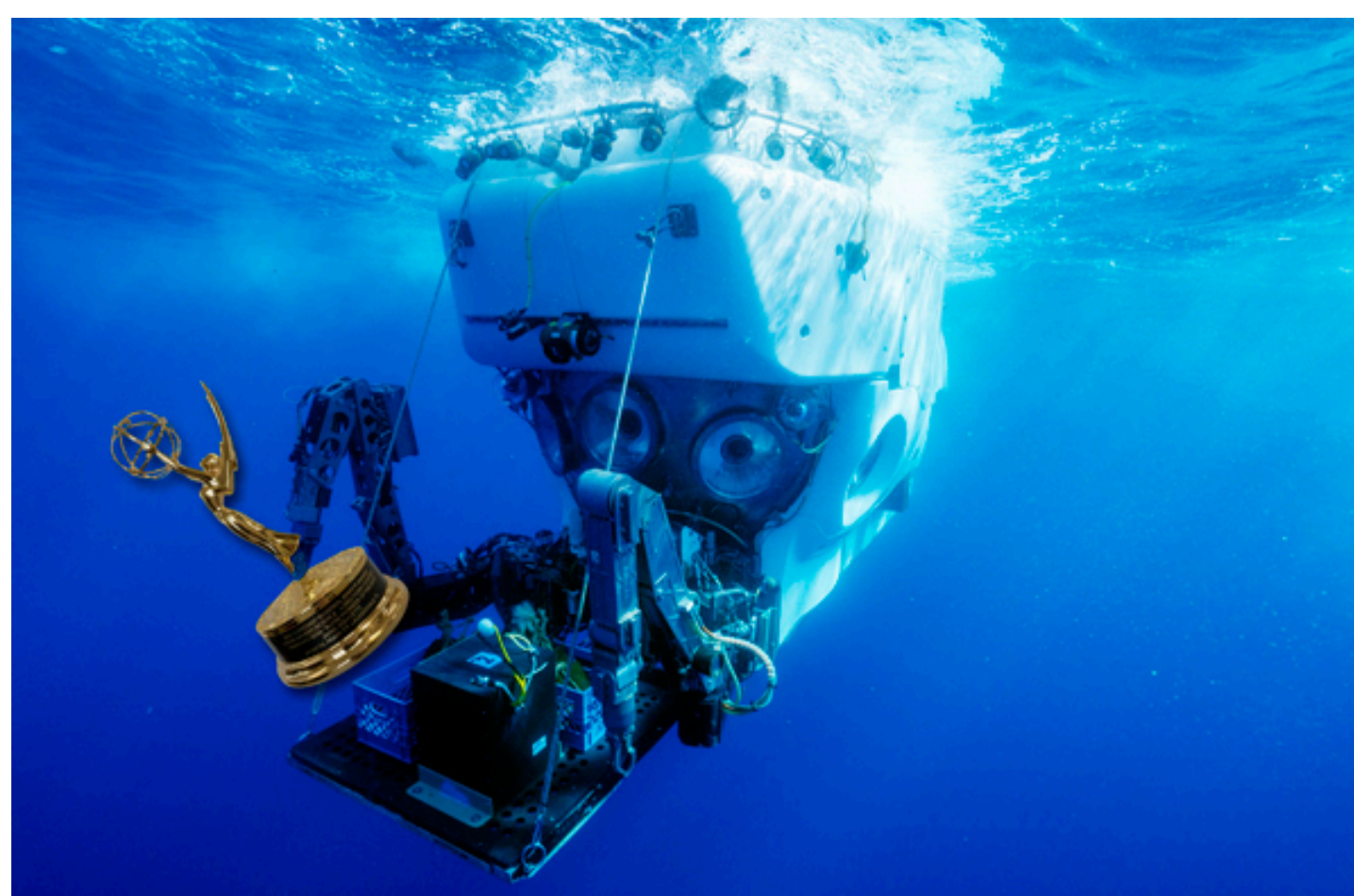
THE ACADEMY OF NATURAL SCIENCES OF DREXEL UNIVERSITY

New Exhibition Reveals the Mysteries of the Ocean's Greatest Depths

IEEE SPECTRUM

The First US Human-Operated Submersible Changed the Course of Oceanography

And the Emmy goes to...



Woods Hole Oceanographic Institution has been awarded a regional Emmy as a co-producer, along with South Florida PBS for Changing Seas: "Alvin, Pioneer of the Deep."

The 2021 Suncoast Chapter of the National Academy of Television Arts & Sciences Emmy Awards announced the honor in December. Special thanks to the collaborative team at WHOI that worked with South Florida PBS on the program, especially Digital Assets Director, Jayne Doucette. [Watch the award-winning program here.](#)