

# NBOSI

NEIL BROWN OCEAN SENSORS, INC.

Saltwater Stone Introduces NBOSI

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## **Media Alert: Introducing NBOSI- Pioneering Innovations in Maritime Robotics Sensor Technology**

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**Saltwater Stone Introduces NBOSI: Pioneering Innovations in Maritime  
Robotics Sensor Technology**

Saltwater Stone, a dedicated maritime communications agency, is pleased to

announce its partnership with Neil Brown Ocean Sensors Inc. (NBOSI), a specialist developer and manufacturer of cutting-edge sensors for the maritime robotics industry.

Run by a highly skilled team with extensive experience in engineering and oceanographic research, NBOSI is uniquely positioned to provide operators in the defence, offshore, and ocean research sectors with state-of-the-art Conductivity-Temperature-Depth (CTD) sensors for subsea and surface ocean vehicle operations.

**Unique Value Proposition:** NBOSI specializes in designing and manufacturing semi-custom CTD sensors tailored to meet the specific requirements of autonomous subsea and surface ocean vehicles. Operators in the defence, offshore, and ocean research sectors can now harness research-quality data on ocean temperature, salinity, density, and sound velocity to optimize vehicle performance, navigation, and acoustic payload functionality.

**Advancements and Innovations:** NBOSI brings a range of advancements and innovations to the maritime robotics industry. Their sensors deliver accurate and precise data, while being compact and hydrodynamically efficient, enabling seamless integration as externally-attached modular cabled sensors, or directly attached using a variety of custom hull penetrators. Additionally, NBOSI's sensors feature convenient off-vehicle calibration, ensuring reliable measurements throughout the sensor's lifetime.

**Addressing Challenges and Gaps:** NBOSI's technology addresses existing challenges and gaps in maritime communications and operations. By providing essential oceanographic data in real-time, their sensors enable operators to optimize vehicle performance and payload capabilities. This leads to improved decision-making, enhanced situational awareness, and increased operational efficiency.

**Effectiveness and Reliability:** NBOSI has a proven track record of delivering high-quality sensors to researchers and vehicle manufacturers worldwide. The effectiveness and reliability of its sensors are widely recognized and trusted. Due to their reliability and performance, NBOSI sensors are deployed on underwater vehicles globally, and offered as standard equipment on leading platforms, including the Hydroid (now Huntington Ingalls Industries) REMUS family and the OceanServer (now L3Harris) IVER vehicles.

**Contributing to Efficiency, Safety, and Sustainability:** NBOSI's sensor technology stands as a vital component in advancing the efficiency, safety, and sustainability of robotic operations in various marine applications. The sensors are designed specifically for hydrodynamic efficiency ensuring low drag to prevent any interference with vehicle movement. Seamlessly integrated into the hull, they further reduce the risk of snagging, and their robust construction allows years of reliable service.

Since the company's inception, the sensors have experienced significant demand for their application in underwater vehicles used for defence. By enabling accurate remote operation instead of human intervention, they ensure improved personnel safety, for tasks such as mine-hunting and EOD. NBOSI likely has more sensors deployed worldwide than any other manufacturer for this purpose.

The impact of NBOSI's sensors goes beyond safety; they deliver accurate and real-time oceanographic data, allowing operators to optimize vehicle performance. This optimization leads to reduced energy consumption and a minimized environmental impact, contributing to a more sustainable and responsible approach to maritime activities.

**Track Record and Experience:** NBOSI has a long history in implementing robotics solutions in the maritime sector. Founded in 2003 by Dr. Ray Schmitt, a renowned scientist from Woods Hole Oceanographic Institution (WHOI), along with WHOI engineers Bob Petitt and Neil Brown, the company has consistently pushed the boundaries of sensor technology for mobile ocean platforms. With the addition of President Dr. Dave Fratantoni, an experienced ocean scientist and engineer, NBOSI's team comprises experts with a wealth of experience in developing and operating oceanographic instrument systems and autonomous marine platforms.

**Partnerships and Collaborations:** NBOSI has established long-term partnerships and collaborations with industry players, research institutions, and government agencies. These collaborations allow NBOSI to continue to drive technological advancements, along with contributing to the development of standards and best practices in the maritime robotics industry. The company's commitment to collaboration underscores its dedication to driving innovation and delivering exceptional solutions.

Saltwater Stone is pleased to have been chosen by NBOSI as its marketing

partner, to help elevate the brand's presence, and increase the recognition of NBOSI's contribution in advancing mobile marine platforms.

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For more information about NBOSI's innovative sensor technology, its impact on the maritime robotics industry, or to arrange an interview with team, please contact:

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**Attached supporting documentation:**

- Biographies of founding members, the late Neil Brown, Dr. Ray Schmitt, and Bob Petitt, and President Dr. Dave Fratantoni.
- Headshots of founding members
- Concise company overview
- Selection of images of ROVs with NBOSI sensors
- Images of NBOSI's sensors
- Media Alert pdf

About Saltwater Stone:

Saltwater Stone is a specialist marine marketing and communications agency offering PR, social media, advertising and design services. With expertise covering all forms of seafaring, from leisure sailing and yacht racing to superyachts and commercial shipping, as well as long-term experience working with satellite communications providers, the Saltwater team builds lasting marketing partnerships that help brands thrive and grow.

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Bluestone Group is a leading technical services company specialising in Marine, Offshore Renewables, and New Building Supervision. With a mission to solve marine challenges, Bluestone Group offers turnkey solutions, global presence, and third-party independence to ship owners and stakeholders worldwide.

## Contacts



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