

Seacoast Science, Inc. Awarded SBIR Phase I Contract by The US Department of Homeland Security.

Carlsbad, CA, Oct 1, 2007 – Seacoast Science, Inc. (Seacoast) announced that it has been awarded a Phase I Small Business Innovation Research (SBIR) contract by the US Department of Homeland Security to develop a microelectromechanical systems (MEMS) based chemical sensor capable of detecting small gas molecules. The field deployable microsensors will be small enough and light enough to be carried by personnel entering dangerous areas. This 6-month program will allow time for Seacoast to study the feasibility of using novel functionalized siloxane-based polymers as sorbent materials for these types of gases.

The Seacoast system uses a multiplexed array of microfabricated electrodes as detectors, with each detector in the array coated with a different chemically selective absorbent material. When these materials absorb a chemical from the air, the smart sensor's electronics measures the electrical changes in these materials, and identifies the chemical by the collective pattern created by the array.

This program will complement Seacoast's continuing work on chemical sensors by expanding the number and types of chemicals Seacoast's sensors can detect, thereby making the sensors applicable to a wider variety of applications and markets. Seacoast's goal is to develop the sensor arrays for a wide range of applications, such as homeland security, law enforcement, and public safety. Because of their small-size, low-power requirements and low-cost these sensors can be deployed to detect harmful chemicals anywhere including in government facilities, industrial complexes, commercial buildings, and even unmanned air vehicles.

About Seacoast Science, Inc.

Seacoast Science, Inc. (www.seacoastscience.com) is a privately held R&D company located in Carlsbad, California. Seacoast develops chemical microsensors, and fabrication and testing systems for chemical sensors. Seacoast's technologies focus on chemical and biological sensing systems homeland security, military and civilian first responders, environmental compliance, and many other markets.

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This project is sponsored by the U.S. Department of Homeland Security. The content of this news release does not necessarily reflect the position or the policy of the Government, and no official endorsement should be inferred.

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