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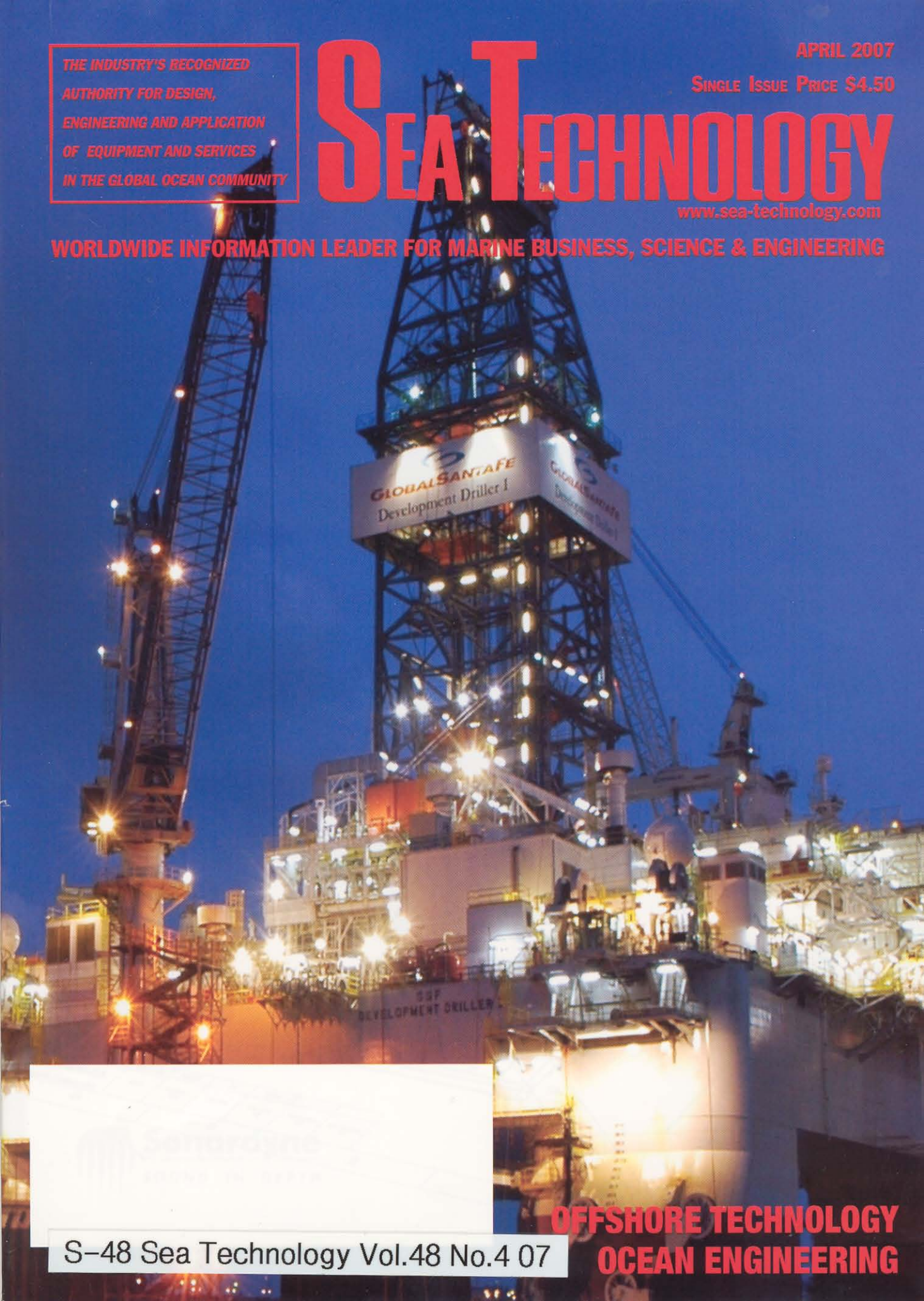
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OFFSHORE TECHNOLOGY
OCEAN ENGINEERING

First Real-Time Cabled Seismic and Tsunami Detection System

Lighthouse R & D Enterprises Inc. (Houston, Texas) recently completed the development of the first integrated real-time cabled seismic and tsunami detection system. This one-of-a-kind package incorporates a seismometer and an accelerometer. Integrating sensitive scientific equipment in this configuration is made possible only via fiber optic cable and is not supportable by buoy-based systems, which are limited by available power and bandwidth.

The Lighthouse Environmental Tsunami-Ocean Bottom Seismic (LET-OBS) system was demonstrated to senior members of Oman's tsunami preparedness task force and other key officials from around the Indian Ocean in Muscat, Oman.

The LET-OBS prototype will become part of the Lighthouse Ocean Research Initiative by mid-April 2007 and operational after system checks are performed. Data will be received from the northwest fringe of the Makron subduction zone, Gulf of Oman, and will offer the community a reliable, long-term, real-time and full-duplex solution for characterizing seismically complex areas utilizing data unprecedented to date. In addition, the LET-OBS can operate as a stand-alone national effort or seamlessly integrate with the Indian Ocean Tsunami Warning System (IOTWS) or the Pacific Tsunami Warning Center (PTWC).