

For Immediate Release

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RSL Fiber Systems, LLC Presents at the American Society of Naval Engineers' Symposium in Philadelphia, PA

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May 24, 2017: RSL Fiber Systems, LLC presented a paper "Fiber Optic Distributed Temperature Sensing for Shipboard Systems Monitoring and Optimization" at the American Society of Naval Engineers' Symposium in Philadelphia, PA. The paper summarizes the work the company has been doing in the area of distributed temperature sensing (DTS) using fiber optic cables, with applications ranging from coal mines, to industrial refrigerators, to naval vessels. "DTS is a well known technology in several industry sectors however the Navy community has not yet applied it in the many areas where it could be used" said Giovanni Tomasi, RSL's CEO and Chief Technology Officer. "We have found that, as we make more stakeholders aware of this technology, we identify new applications where it can reduce maintenance costs and improve safety".

One of the applications under evaluation for the DTS technology consists of monitoring the bolted connections in electrical panels. Bolts may come loose with vibration, resulting in heating at the connection point. Unless the fault is identified and fixed before it becomes severe, catastrophic failure will occur with electrical arc flashing and the possibility of fire. Electrical panels on U.S. Navy ships are inspected annually however the high voltage levels in these panels (4,160 VAC and 13,000 VAC) make the process cumbersome and hazardous. A fiber optic DTS system can use optical fibers to remotely monitor all the connection points, detect localized increases in temperature that may indicate a connection is becoming loose, and inform maintenance personnel when remedial action needs to be taken based on the severity of the condition.

To purchase the paper from ASNE <http://www.navalengineers.org/Resources/Product-Info/productcd/ISS2017-Proceedings>