



Advanced Lighting Technologies

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RSL's McFADDEN DISCUSSES THE ROLE OF FIBER OPTICS IN WORKPLACE SAFETY

East Hartford, Ct. (May 1, 2013) - Jeff McFadden, the director of engineering at RSL Fiber Systems LLC will present a technical paper on fiber optic-based methane detection systems during a technology seminar, Adaptive Thinking to Create New Opportunities, at the Offshore Technology Conference this month in Houston.

“This is a great opportunity to introduce our technology to the oil and gas community,” said Mr. McFadden who is responsible for new product development. RSL Fiber Systems offers fiber optic-based safety systems to monitor hazardous gas levels, predict equipment failures, and improve workplace visibility and safety that also offer cost savings and workload reductions.

The Methane Sensor System monitors the presence of methane gas in real time with a permanently installed, expandable optical sensor network. The sensing is via a low power laser distributed to the sensors by the fiber optic network, inherently safe for use in mines and environments where explosive gases are present. The Distributed Temperature Sensing System predicts equipment failure by monitoring the operating temperature before it becomes catastrophic. It can also signal the presence of fire at an early phase by reporting abnormal changes in ambient temperature. Both systems use a graphic interface that layers the location of fiber optic sensors on a mine map. Warning set points are programmed; and alarm messages are displayed with the specific location of the event. The Machinery Visual Warning System outlines mining and industrial equipment to enhance its visibility and improve safety. The optical fibers provide a non-electric, highly durable illuminated contour pattern allowing for immediate identification of the equipment by personnel. The Personnel Active Visual Warning System makes miners more visible by utilizing side emitting optical fibers incorporated in suspenders and safety vests. All three systems are approved by the Mine Safety and Health Administration for permissive and non-permissive environments.

The OTC is the world's largest event for the development of offshore resources in the fields of drilling, exploration, production and environmental protection. It is held annually in Houston and attracts more than 100,000 attendees from 110+ countries and 2,700 exhibiting companies.

RSL Fiber Systems LLC is the market leader in advanced remote source fiber optic lighting systems solutions, di-electric passive safety systems and comprehensive engineering services for military and commercial markets.