

For Immediate Release

Contact: Giovanni Tomasi
Email: gptomasi@rslfibersystems.com

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

[February 14, 2017]

RSL Fiber Systems, LLC presented a paper “Laser Based Fiber Optic Distributed Lighting Networks for Flexible and Reconfigurable Ships’ Illumination” at the American Society of Naval Engineers’ Symposium in Arlington, VA. The paper summarizes the work RSL has been undertaking using diode lasers for lighting applications and how this technology can be utilized to improve ships’ survivability and reduce maintenance.

Unlike Light Emitting Diodes (LEDs) that have a relatively large emission area and a wide emission pattern, diode lasers have a very small emission area, 10,000 smaller than an LED of comparable output, and a highly concentrated emission pattern. A diode laser is 475 times more efficient than an LED in coupling into an optical fiber, making it ideal for fiber optic remote source lighting applications. A system using a green, a blue, and a red laser will provide nearly infinite color combinations. Another benefit of diode laser lighting is that there is no emission in the infra-red as is from many incandescent, gas discharge and even LED sources. Infra-red emissions can interfere with the Night Vision Imaging Systems worn by aircraft pilots during night operations.

“Laser diodes are the game changers in the lighting industry, with capabilities far beyond what we can imagine” said Giovanni Tomasi, RSL’s CEO and Chief Technology Officer. “Laser diodes based illumination will give us capabilities well beyond lighting, including reconfigurable light distribution networks, hybrid lighting and communication systems, non-lethal defensive systems, and hybrid-solar networks”.

More Information about the American Society for Naval Engineers and how to purchase the papers can be found at: <http://www.navalengineers.org/Publications/Symposia-Proceedings>