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News Release

OFS ANNOUNCES HIGHLY NONLINEAR FIBER

Improves Nonlinear Efficiency

OFC/ NFOEC 2013, Booth 2627, Anaheim, California, March 18, 2013 - OFS, a leading designer, manufacturer and supplier of innovative fiber optic network products, today announced the launch of a new highly nonlinear fiber (“HNLF”) with stable phase-matching for improved nonlinear efficiency (“HNLF-SPINE”). The new HNLF combines a high nonlinear coefficient with a zero dispersion wavelength that is ultra-stable along the fiber length making it especially well-suited for application in parametric amplifiers and related devices.

The HNLF-SPINE provides enhanced parametric processes with extended operating bandwidth and high power conversion efficiency,” says David DiGiovanni, Chief Technology Officer for OFS. “Ultra-stable zero dispersion wavelength has been achieved using a new type of fiber design, which has drastically minimized the normally high sensitivity of HNLF dispersion to small perturbations of the fiber dimensions,” he adds.

Fiber variations impose the most important limitation on many nonlinear fiber systems, as demonstrated in many results from Professor Stojan Radic’s group at the University of California San Diego (UCSD). This work predicted dramatically improved performance if a fiber with enhanced phase-matching stability could be achieved. Confirming this prediction, the OFS HNLF-SPINE demonstrated a 2.5 times improvement in the power conversion efficiency of a short, infrared-band parametric oscillator in a paper published by UCSD and OFS in Optics Express in August 2012.

“The HNLF-SPINE is a nice extension of our already broad product offering within highly nonlinear fibers,” says Bera Pálsdóttir, Manager of Incubation Center OFS Denmark.

About OFS

OFS is a world-leading designer, manufacturer and provider of optical fiber, optical fiber cable, connectivity, FTTx and specialty photonics solutions. Our marketing, sales, manufacturing and research teams provide forward-looking, innovative products and solutions in areas including Telecommunications, Medicine, Industrial Automation, Sensing, Government, Aerospace and Defense applications. We provide reliable, cost effective optical solutions to enable our customers to meet the needs of today's and tomorrow's digital and energy consumers and businesses.

OFS' corporate lineage dates back to 1876 and includes technology powerhouses such as AT&T and Lucent Technologies. Today, OFS is owned by Furukawa Electric, a multi-billion dollar global leader in optical communications.

For more information, please visit www.ofsoptics.com.

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