



Breaking the Quantum Barriers

For Immediate Release

DARPA Awards Orbits Lightwave with a Phase II SBIR Contract for Development of a 1550 nm Source Laser

DARPA SBIR program requires a narrow-linewidth, low-noise and high power laser at 1550 nm

Pasadena, Calif., May 1, 2006– Orbits Lightwave, Inc., an innovative supplier of ultra-stable, low noise fiber lasers today announced the award of a DARPA Phase II contract for further development of its popular ETERNAL™ fiber laser. The contract calls for R&D and commercialization of a narrow-linewidth, low-noise and high power laser at 1550 nm.

Based on a novel and patented "virtual ring" laser architecture, ETERNAL™ fiber lasers from Orbits Lightwave offer state of the art S/N and side-mode suppression, shot-noise limited RIN, narrow (<1kHz) line-width, with excellent frequency stability. The "virtual ring" design enables traveling wave operation in the linear fiber cavity and thus prevents the phenomena known as "spatial hole burning". The elimination of the spatial-hole-burning phenomenon leads to higher stability, lowered noise levels and better overall efficiency.

"The industry-leading performance of our ETERNAL™ laser platform played a key role in the selection for this highly competitive award," said Dr. Yaakov Shevy, Orbits Lightwave co-Founder and President. The "ETERNAL™ technology already exceeds the current state of the art, and offers a realistic pathway to further the laser performance in a commercial product."

About Orbits Lightwave:

Founded in 1999 and privately held, Orbits Lightwave, Inc. of Pasadena, California, designs, manufactures, and markets Fiber Lasers for sensing, LIDAR, test, and coherent communications. Orbits Lightwave ETERNAL™ products benefit the researcher and system designer alike by providing unprecedented levels of laser performance for sensing, interferometry microwave photonics and other highly sensitive coherent laser applications.

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Press Release