



Scientific Solutions, Inc.

Press Release

Scientific Solutions, Inc. Wins 2001 Photonics Circle of Excellence Award

N. Chelmsford, Massachusetts; January 25, 2002 – Scientific Solutions, Inc. (SSI) announced today that it has received Laurin Publishing's prestigious 2001 Photonics Circle of Excellence Award in recognition of their NIR High-Resolution Liquid Crystal Fabry-Perot Etalon, a next-generation tunable optical filter optimized for use in the Near Infrared. For 14 years now, the optics industry has looked upon this annual competition as the benchmark for innovation in photonics. The competition has earned the respect of the photonics community as winning products are carefully assessed by a distinguished panel of acknowledged experts, *Photonic Spectra's* Editorial Advisory Board. Circle of Excellence Awards are bestowed on winners in recognition of excellence, innovation, and achievement in new product development in photonics technology. Product worthiness is based on uniqueness, importance to the industry, and technological achievement. The awards honor the 25 most technically innovative products of the year, selected from among hundreds of entries. Awards were presented on January 21, 2002 at a ceremony held at the Fairmont Hotel in San Jose, California, in concurrence with SPIE's Photonics West Exhibition. SSI's President, Dr. John Noto, accepted the award on behalf of the company.

The NIR High-Resolution Liquid Crystal Fabry-Perot (HR-LCFP) Etalon is the first Scientific Solutions product to earn a Photonics Circle of Excellence Award. SSI's novel technology allows for very narrow bandpass, arbitrary resonant gap size, complete solid state construction, and tunability over several orders of interference. Developed from the perceived need of NIR scientists and researchers for a robust, easily tunable interferometer with no moving parts, this product eliminates the need for using active piezoelectric stabilization - the closest competing technology – which is commonly evaluated as awkward, difficult, and frustrating to calibrate. Absolute spectral sensitivity is maximized by Fabry-Perot technology – the most luminous available – which provides 100 times the throughput of common grating spectrometer devices for a similar spectral resolution. The NIR HR-LCFP is virtually impervious to mechanical shock and vibration and boasts extreme thermal and temporal stability, making it a perfect spectroscopic instrument for harsh-environment applications. This product can be used for LIDAR, spectroscopy, laser tuning, narrow-band spectral imaging (IR, chemical, medical, environmental), telecommunications, WDM tuning and calibration, astrophysics research, and spaceborne sensing. Etalons may be stacked in series to increase spectral resolution while maintaining tunability across broad spectral regions. Easily incorporated as an OEM component, the LCFP introduces a next-generation optical technology around which customers can build a variety of instruments.

Scientific Solutions, Inc., a small business located in North Chelmsford, Massachusetts, was established in 1995 to provide new frequency-agile solutions to spectroscopic systems. In addition to their Liquid Crystal Tunable Filters, SSI designs optical cross-switches, holographic circle-to-point converters, and switchable circle-to-point converters, primarily for use in WDM applications. SSI would like to thank all of the early-adopters of their technologies including the Massachusetts Institute of Technology and SRI International as well as the support of the National Science Foundation (notably the Aeronomy Division), CEDAR, and the Small Business Innovative Research (SBIR) programs of the National Aeronautics and Space Administration, the United States Air Force, the Ballistic Missile Defense Organization, and the Department of Energy, without which the development of this technology would not have been possible.

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