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NEWS RELEASE

For Immediate Release

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Sergey Maksimenko Elected SPIE Fellow



SPIE will honor 59 new Fellows of the Society this year. Fellows are members of distinction who have made significant scientific and technical contributions in the multidisciplinary fields of optics, photonics, and imaging. They are honored for their technical achievement, for their service to the general optics community, and to SPIE in particular. More than 600 SPIE members have become Fellows since the Society's inception in 1955.

"The annual recognition of Fellows provides an opportunity for us to acknowledge outstanding members for their service to the general optics community," says Maria Yzuel, SPIE President.

Sergey Maksimenko, Belarusian State University, Belarus, for achievements in nanoelectromagnetics.

Maksimenko's work on electromagnetic response properties and electronic transport in carbon nanotubes, quantum dots, and onion-like carbons has led to an entirely new research discipline—nanoelectromagnetics. This new concept is the synthesis of macroscopic electrodynamics and solid-state physics.

His overall research centers on the electrodynamics of complex media, which encompasses the field of optical and electromagnetic properties of nanostructured materials, such as semiconductor quantum dots and nanocarbons. Maksimenko's work is especially focused on carbon nanotubes, including establishing the concepts of nanotubes as nanowaveguides and terahertz-range nanoantennas and harmonic generation in metallic carbon nanotubes. He has made great progress exploring the electrodynamic properties of nanotubes, including their dynamic conductivity, and has made contribution to the idea of the carbon nanotube as a light emitter. He is also very influential in demonstrating the use of onion-like carbon composites for the design of electromagnetic shields.

Maksimenko is an active participant in the greater optics community including as a member of the Belarus Physical Society, the European Material Research Society, and Società Italiana di Fisica. His contributions to SPIE include conference chair of *Nanotubes and Nanowires*, and two-time chair of the *Nanomodeling* conference. He is also an associate editor of the SPIE *Journal of Nanophotonics*.

SPIE is the international optics and photonics society, founded in 1955 to advance light-based technologies. Serving more than 188,000 constituents from 138 countries, the Society advances emerging technologies through interdisciplinary information exchange, continuing education, publications, patent precedent, and career and professional growth. SPIE annually organizes and sponsors approximately 25 major technical forums, exhibitions, and education programs in North America, Europe, Asia, and the South Pacific. In 2008, the Society provided \$1.9 million for scholarships, grants, and other activities supporting research and education around the world. For more information, visit SPIE.org.