



For immediate release

## Joseph Rosen Elected SPIE Fellow



BELLINGHAM, Washington, USA – March 20, 2012 – Each year, SPIE promotes members as new Fellows of the Society. SPIE will honor 75 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 900 SPIE members have become Fellows since the Society's inception in 1955.

"The annual recognition of Fellows provides an opportunity for us to acknowledge Members for their outstanding technical contributions and service to SPIE," says Eustace L. Dereniak, SPIE President.

**Joseph Rosen**, Ben-Gurion University of the Negev, Israel, for achievements in digital holography and coherence optics.

Rosen is a leading researcher in holography, diffractive optics, statistical optics, and coherent optical metrology. Among many breakthroughs in these fields, he initiated research on optical 3-D spatial correlation and introduced computer-generated holography for controlling the diffraction and propagation properties of optical beams and for controlling the 3-D coherence function of optical waves.

Recently, Rosen has made advances in superresolution by scanning holography, particularly by inventing new types of incoherent holograms including the Fresnel incoherent correlation hologram and several types of multiple viewpoint projection holograms.

His work with the greater optics community stands out as well. Rosen is a fellow of the Optical Society of America (OSA), a consultant to companies, and a grant proposal reviewer for foundations such as the Israel Science Foundation, the U.S.-Israel Binational Science Foundation, and the Hong Kong Research Grants Council. His work on conference organization includes serving as program committee member for several conferences including the OSA's Digital Holography and 3-D Imaging conference since 2006. Rosen has contributed to optics publications over the years as editor and reviewer; currently he is an associate editor of the journal *Advances in Optical Technologies*, a topical editor of the *Journal of Applied Optics*, and editorial board member of the journal *3D Research*.

Rosen is an active member of SPIE, serving as program committee member for many conferences, in particular for the Optics and Photonics for Information Processing conference since its inception in 2007 at the SPIE Optics + Photonics symposium. He was a four-time member of the program committee for the Optical Information Systems conference as well as additional conferences on 3-D TV, video, displays, and optical information processing.

**SPIE**, the international society for optics and photonics, was founded in 1955 to advance light-based technologies. Serving more than 180,000 constituents from 168 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, and supports scholarships, grants, and other education programs around the world. See [www.SPIE.org](http://www.SPIE.org) for information.

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