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spie.org
spie@spie.org

Mail: PO Box 10
Bellingham, WA
98227-0010

Tel: +1 360 676 3290
Fax: +1 360-647 1445

NEWS RELEASE

For Immediate Release

For more information, contact Stacey Crockett media@SPIE.org 360.676.3290 ext 402

Manuel Martínez-Corral Elected SPIE Fellow



SPIE will honor 62 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 800 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 Ralph James, SPIE President.

Manuel Martínez-Corral, Universitat de València, Spain, for achievements in three-dimensional imaging.

Martínez-Corral's important research spans many areas in 3-D imaging including laser beam shaping, confocal scanning microscopy, and multiperspective 3-D imaging and display systems. His work characterizing 3-D focused fields has resulted in the design of novel PSF engineering strategies and contributed to improved scanning microscopes and laser trapping technology. One such advance is his development of an analytical formulation, which is valid in both the paraxial and scalar non-paraxial regimes, for the expedient analysis of the 3-D structure of focused fields, and allows the design of new beam-shaping approaches. His research in multiperspective imaging has not only improved the resolution and depth of field of such systems, but also created new display architectures for the enlargement of the viewing angle of 3D monitors.

Martínez-Corral is active in the greater optics community with his work on conferences, topical editor and guest editor for the *IEEE/OSA Journal of Display Technology*, and especially as a member of SPIE. He has been co-chair of the Three-Dimensional Imaging, Visualization, and Display conference for the past two years, and a program committee member of several other conferences such as the Optics and Photonics Information Processing conference and the Optical Information Systems conference.

About SPIE

SPIE is the international optics and photonics society founded in 1955 advancing light-based technologies. Serving the interests of its more than 188,000 active constituents representing 138 different countries, SPIE acts as a catalyst for collaboration among technical disciplines for information exchange, continuing education, publishing opportunities, patent precedent, and career and professional growth. As the organizer and sponsor of approximately 25 major conferences and education programs annually in North America, Europe, Asia, and the South Pacific, SPIE provides publishing, speaking, and learning opportunities on emerging technologies. For more information, visit SPIE.org.

