



For immediate release

Ion Tiginyanu Elected SPIE Fellow

BELLINGHAM, WA, USA — 15 February 2018 -- SPIE will promote 73 new Fellows of the Society this year, to recognize the significant scientific and technical contributions of each in the multidisciplinary fields of optics, photonics, and imaging. SPIE Fellows are honored for their technical achievements and for their service to the general optics community and to SPIE in particular. More than 1,300 SPIE members have become Fellows since the Society's inception in 1955.

The annual recognition of Fellows provides an opportunity for SPIE to acknowledge Members for their outstanding technical contributions and service to SPIE.



Ion Tiginyanu, National Center for Materials Study and Testing, Academy of Sciences and Technical University of Moldova, Republic of Moldova, for achievements in optics, electro-optics and photonics

Tiginyanu is an internationally recognized authority in the field of luminescent and nonlinear optical semiconductor materials and nanostructures. He has made important contributions to the development of nonlithographic technologies for nanostructuring of semiconductor compounds. He succeeded in fabricating two-dimensional photonic crystals based on ultrathin membranes of gallium nitride. He also observed and explained the anomalous retroreflection from strongly absorbing nanoporous semiconductors. He demonstrated the heavy-ion-irradiation-enhanced optical nonlinearities and ultrafast all-optical terahertz emission in porous III-V compounds and developed three-dimensional graphene aerogels - semiconductor hybrid networks for multifunctional applications.

He has given significant service to the optics community. He has been a first vice president of the Moldavian Academy of Sciences since 2012. He is a member of the editorial board of several international scientific journals, including *IOP Semiconductor Science and Technology* and *European Journal of Engineering Education*. He sits on the review panels of many national and European funding bodies.

Tiginyanu's service to SPIE has been notable. He actively contributes to many SPIE conferences. He chaired SPIE Nanotechnology Conferences VI, VII, and VIII (Grenoble, France, 2013; Barcelona, Spain, 2015 and 2017) and edited the respective SPIE Proceedings.

He has received many awards and honors. Among them are the Outstanding Inventor Award from the World Intellectual Property Organization, the Award of the Academies of Sciences of Belarus, Moldova and Ukraine for scientific achievements, and the Award of Excellence from the Pittsburgh Invention and New Product Exposition. He is an honorary professor of Shizuoka University, an honorary member of the Romanian Academy, and an honorary doctor of the Joint Institute for Nuclear Research, Dubna, Russia.

SPIE is the international society for optics and photonics, a not-for-profit organization founded in 1955 to advance light-based technologies. The Society serves more than 235,000 constituents from approximately 155 countries, offering conferences, continuing education, books, journals, and a digital library in support of interdisciplinary information exchange, professional growth, and patent precedent.

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