



First Call for Papers

The Tenth Memorial of Asia-Pacific Conference on Near-Field Optics (APNFO-10)

Hakodate Research Center for Fishers and Oceans, Hakodate, Hokkaido, Japan

July 7-10, 2015

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The Asia-Pacific Conference on Near-field Optics (APNFO) has provided an opportunity for leading scientists and young researchers in the field of nano-optics to discuss new ideas and approaches in cutting-edge research, and to network with each other. APNFO has been held every two years, following the first meeting in Seoul in 1996, in Beijing, Melbourne, Taroko, Niigata, Yellow Mountain, Jeju, Adelaide, Singapore, and celebrates its 10th biennial anniversary in Hakodate, Japan in 2015.

In these last 20 years, rapid progress in nanoscience and nanotechnology has made nano-optics more attractive and applicable to various research fields, including molecular and solid-state physics, chemistry, and biology. The unique characteristics of light-matter interaction on the nanoscale have provided a tool for microscopic study to pursue basic science interests, including the quantum mechanical nature of light and electrons. It has also brought a discipline to address engineering and manufacturing challenges for making devices smaller, faster, and more energy-efficient, and more importantly, for promoting conceptually new device paradigms.

In the coming phase, we will go even smaller to the atomic scale and deal with more complex and multiscaled systems to cover much broader scientific and engineering fields. At APNFO-10, we organize a special session entitled "Exploring the Future of Light on the Nanoscale" to allow participants to share their experiences, problems, and concerns, and to discuss promising future directions. In addition, keynote and invited speakers are also arranged to exhibit the current trends in nano-optics, which will inspire and motivate young researchers and students.

Plenary Talk

Prof. Sei-Ichi Saitoh, Hokkaido University

"Satellite visible remote sensing from small phytoplankton to large fishing vessels - sustainable ocean monitoring and utilization"

Conference Topics

- Novel concepts and phenomena in near-field nano-optics
- Theory and modeling in nano-photonics
- Near-field enhancement phenomena
- Nonlinear and quantum optics of near-field regime
- Plasmonics
- Fano resonance
- Metamaterials
- Infra-red and THz technology
- NSOM, super-resolution and nanofocusing
- Nano-optical fabrication and manipulation of matters
- Nano-optical characterization, optical spectroscopy and instrumentation
- Nano-photonic materials, structures and waveguides, devices and designs
- Applications in sensing, solar cells, biology, chemistry, solid-state physics and material sciences etc.

Important date

Submission of Abstracts:	February 6, 2015
Conference Registration:	July 7, 2015
Special Issue deadline:	July 1, 2015

Further Information

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