

UP 2014

The 19th International Conference on Ultrafast Phenomena

July 7 (Mon) - **11** (Fri), 2014

Okinawa Convention Center

<http://up2014.org/>

General Chairs

Kaoru Yamanouchi, University of Tokyo, Japan

Steven Cundiff, JILA, NIST and University of Colorado, USA

Regina de Vivie-Riedle, Ludwig-Maximilians-University, Germany

Program Chairs

Makoto Kuwata-Gonokami, University of Tokyo, Japan

Louis DiMauro, Ohio State University, USA

Paper Submission Deadline ▶ **February 13, 2014, at 12:00 noon EST (17:00 GMT)**

About UP 2014

The 2014 Ultrafast Phenomena Conference will be the nineteenth in a series on advances in ultrafast science and technology. This meeting is widely recognized as the main international forum for the discussion of progress in this rapidly moving field. The conference is organized by the Japan Intense Light Field Science Society and the University of Tokyo in cooperation with the Optical Society of America and the European Physical Society.

TOPICS

Pulse generation and measurement • *New sources, new wavelength regimes, frequency conversion techniques, amplifiers, attosecond pulse generation, pulse shaping, pulse diagnostics, measurement techniques and frequency standards.*

Physics • *Ultrafast nonlinear optical processes, kinetics of non-equilibrium processes, quantum confinement, coherent transients, nonlinear pulse propagation, novel ultrafast spectroscopic techniques, high intensity physics, attosecond dynamics.*

Materials science • *highly correlated systems, coherent phonons in solids, carrier dynamics in nanoparticles, carbon-based materials, structural dynamics with X-rays and electrons.*

Chemistry • *Vibrational and conformational dynamics, energy transfer, femtochemistry, proton and electron transfer, solvation dynamics, wave packet dynamics and coherent control of reactions, structural dynamics with X-rays and electrons.*

Biology • *Photosynthesis, vision, heme proteins, photoactive proteins, photoisomerization in chromoproteins, wavepacket dynamics, femtobiology, structural dynamics with X-rays and electrons, medical applications.*

Electronics & optoelectronics • *Photoconductivity, generation, propagation and detection of ultrafast electrical signals, plasmonics, terahertz radiation, electro-optical sampling and detectors.*

Applications • *Real world applications of ultrafast technology, including ultrafast near-field, nonlinear and confocal microscopes, real-time/real-space electron microscopy, medical applications, high speed communication, micromachining and more.*