UP 2020 | CALL FOR PAPERS

UP 2020 | THE 22nd INTERNATIONAL CONFERENCE ON ULTRAFAST PHENOMENA

JULY 19-24, 2020 | SHANGHAI, CHINA

Paper Submission Deadline ➤ January 31, 2020

GENERAL CHAIRS
Franz Kärntner DESY-CFEL and University of Hamburg, Germany
Munira Khalil University of Washington, Seattle, USA
Ruxin Li Shanghai Institute of Optics and Fine Mechanics, CAS, China (Local Chair)

PROGRAM CHAIRS
François Légaré INRS-EMT, Canada
Tahei Tahara RIKEN, Japan

TOPICS

APPLICATIONS Real world applications of ultrafast technology, including ultrafast near-field, nonlinear and confocal microscopes, coherent Raman microscopes, real-time/real-space electron microscopy, medical applications, high speed communication, micromachining, 3D nanofabrication and more.

BIOLOGY Photosynthesis, vision, heme proteins, photosensitive proteins, photosynthesis in chromatophores, wavepacket dynamics, femtobiology, structural dynamics with X-rays and electrons, medical applications.

CHEMISTRY Vibrational and conformational dynamics, energy transfer, femtotechnology, proton and electron transfer, solvation dynamics, wave packet dynamics and coherent control of reactions, structural dynamics with X-rays and electrons.

ELECTRONICS & OPTOELECTRONICS Photoconductivity, generation, propagation and detection of ultrafast electrical signals, plasmonics, terahertz radiation, electro-optical sampling and detectors.

MATERIALS SCIENCE Highly correlated systems, coherent phonons in solids, carrier dynamics in nanomaterials, carbon-based materials, two-dimensional materials, structural dynamics with X-rays and electrons.

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

PULSE GENERATION AND MEASUREMENT Ultrafast ultra-intense laser, new sources, new wavelength regimes, frequency conversion techniques, amplifiers, attosecond pulse generation, free electron lasers, pulse shaping, pulse diagnostics, measurement techniques and frequency standards.

CONTACT: up2020@siom.ac.cn 86-21-69918691 www.up2020.cn

INVITED SPEAKERS (Updating)

Minhaeng Cho Korea University, Korea
Ralph Ernstorfer Fritz Haber Institute, Germany
Naomi S. Ginsberg University of California, Berkeley, USA
Keith Nelson Massachusetts Institute of Technology, USA
Ilme Schlichting Max Planck Institute for Medical Research, Germany
Martin Schultz Max Planck Institute, Germany
Eiji J. Takahashi RIKEN, Japan
Jian Wu East China Normal University, China
Xiaojun Wu Beihang University, China