

18TH INTERNATIONAL MICROSCOPY CONGRESS 7-12 September 2014

PRAGUE, CZECH REPUBLIC



MICROSCOPY FOR GLOBAL CHALLENGES
touching atoms, molecules, nanostructures and cells
by multidimensional microscopy

1ST ANNOUNCEMENT

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The host:



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MAIN DEADLINES

- 1 September 2013** On-line abstract submission open
On-line registration available at the website
- 3 March 2014** Abstract submission deadline
Early registration deadline
- 1 July 2014** Standard registration deadline



SCIENTIFIC TOPICS

Instrumentation and Techniques

Electron optics and optical elements
High resolution TEM and STEM
Super-resolution light microscopy and nanoscopy imaging
Scanning electron microscopy
Analytical electron microscopy
Environmental electron microscopy
In-situ microscopic techniques and cryo-microscopies
Ultrafast and high-throughput microscopies
Electron and X-ray diffraction techniques
Electron tomography
Electron holography and lens-less imaging
Surface microscopy, spectromicroscopy and microspectroscopy
Focused ion beam microscopy and techniques
Scanning probe microscopy and near-field microscopies
X-ray, atom probe, neutron and other microscopies
Electron microscopy theory and simulations
Applications of microanalysis

Life Sciences

Live imaging of cells, tissues and organs
Structure and function of cells and organelles
High-resolution localization of molecular targets and macromolecular complexes
Structure of macromolecules and macromolecular complexes
Cellular transport and dynamics
Microbiology and virology
Invertebrates and parasitology
Plant science and mycology
Gene-modified organisms and animal science
Human health and disease
Physiology and pathology
Advances in immunohistochemistry and cytochemistry
Embryology and development biology
Neuroscience

Material Sciences

Nanoobjects and engineered nanostructures, catalytic materials
Carbon-based nanomaterials, nanotubes, fullerenes, graphenes
Thin films, coatings and surfaces
Metals, alloys and metal matrix composites
Ceramics and inorganic materials
Polymers and organic materials
Composite materials and hybrids
Semiconductors and materials for information technologies
Defects in materials and phase transformations
Porous and architected materials
Amorphous and disordered materials, liquid crystals, quasicrystals
Magnetic, superconducting, ferroelectric and multiferroic materials
Materials in geology, mineralogy and archeology
Energy-related materials

Interdisciplinary

Correlative microscopy in life and material sciences
Imaging mass spectrometry
Microscopy of single molecule dynamics
High-throughput microscopy and its applications in life and material sciences
Nanoparticles: Biomedical applications and bio-safety issues
Microscopy in forensic science
Microscopy in arts, restoration and archeology
Three-dimensional reconstructions in microscopy
Microscopic image analysis and stereology
Advances in sample preparation techniques
Multidisciplinary applications of progressive light microscopy imaging techniques
In-situ and environmental microscopy of processes in materials and material reactions
Materials for medicine and biomaterials

CONGRESS SECRETARIAT

IMC 2014 Congress Secretariat, GUARANT International, Na Pankráci 17, 140 21 Prague 4, Czech Republic

Tel: +420 284 001 444 Fax: +420 284 001 448 E-mail: info@imc2014.com

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