



Call for Papers

OMC '14 (1st OPTICAL MANIPULATION CONFERENCE)

<http://physics.tp.chiba-u.jp/~omatsu/OMC2014/>

Sponsored by
The Japan Society of Applied Physics
In cooperation with

The Optical Society of Japan & The Laser Society of Japan

Apr. 22(Tues.)-Apr. 25(Fri.), 2014
Pacifico Yokohama, Yokohama, Japan

Paper Deadline: Dec. 27 (Fri.) 2013

OBJECTIVE

The 1st OPTICAL MANIPULATION CONFERENCE (OMC '13) will be held at Pacifico Yokohama, Kanagawa Prefecture, Japan on April 22 - April 25, 2014. This conference is organized and sponsored by the Japan Society of Applied Physics in cooperation with several academic societies and associations. The OMC '14 aims to present and learn about up-to-date scientific subjects and new technologies related in the field of optical trapping & manipulation and its satellite topics such as structured optical fields. In particular, the conference also welcomes plasmon-resonant fields and metamaterials for optical manipulation. This conference will also provide scientific and professional networking as well as scientific inspiration discuss to the attendee.

SCOPE

The 1st Optical Manipulation Conference covers the optical manipulation technology in the following topical fields;

A. Structured optical fields

Beam shaping, Polarization control, Pulse shaping, Frequency extension, Ultrafast laser technologies

B. Optical trapping & manipulation

Optical tweezer, Holographic optical manipulation, Plasmon trapping, Multi-photon trapping

C. Advanced devices & instruments

Spatial light modulator, Adaptive optics, Near-field optical devices

D. Applications

Structured material processing, Single molecule trapping, Bio-photonics, Metamaterials with a twist, Quantum communications, Selective control of chemical reaction

E. Novel approach

Novel interaction between optical fields and materials on nano-scale, Novel regimes of spin-orbit interaction, Quantum control of molecular dynamics etc.

SUBMISSION OF PAPERS

Original papers that have not been previously presented and that describe new technical contributions to the areas covered by the technical descriptions in the aforementioned scope will be accepted for presentation. A detailed instruction will be available from the Web site.

PLENARY TALKS

Kishan Dholakia (Univ. St. Andrews, UK)
Hiroshi Masuhara (National Chiao Tung Univ., Taiwan)

INVITED SPEAKERS

Hajime Ishihara (Osaka Prefecture University, Japan)
Natalia M. Litchinitser (State University of New York at Buffalo, USA)
Roman Quidant (University of Rochester, USA) (TBD)
Halina Rubinsztein-Dunlop (University of Queensland, Australia) (TBD)
Juan Jose Saenz (Universidad Autonoma de Madrid, Spain)
Pavel Zemanek (Academy of Sciences of the Czech Republic, Czech Republic)

REGISTRATION FEES

	Before/On Mar. 31, 2014	After Mar. 31, 2014
General	¥35,000	¥40,000
Student, Retiree	¥15,000	¥20,000

OMC '14 COMMITTEE MEMBERS

CONFERENCE CHAIR

Takashige Omatsu (Chiba Univ., Japan)

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