

The 14th Osaka City University International Symposium on

# Chemistry and Topology

November 19, 2009, Osaka, Japan

Venue: OCU Media Center, Osaka City University

<http://www.sci.osaka-cu.ac.jp/chem/phy2/ocuic091119/ocu14conf.html>

The 14th Osaka City University International Symposium on Chemistry and Topology is held at Sugimoto Campus of Osaka City University. The 14th OCU Symposium will cover advanced research fields in chemistry and materials science as well as interdisciplinary fields in pure and applied sciences. Distinguished scientists from overseas will give stimulating lectures. The symposium is under the auspices of the Osaka City University Priority Research on “Mathematical knot and evolution to scientific objects.”

## Invited Speakers

Paul M. Lahti (University of Massachusetts Amherst, USA)

Martin Baumgarten (Max Planck Institute for Polymer Research, Germany)

Galina Skubnevskaya (Institute Chemical Kinetics & Combustion, Russia)

Elena Bagryanskaya (International Tomography Center, Russia)

Matvey Fedin (International Tomography Center, Russia)

Sergey Veber (International Tomography Center, Russia)

Evgeny Tretyakov (International Tomography Center, Russia)

Vitaliy Morozov (International Tomography Center, Russia)

Lawrence J. Berliner (University of Denver, USA)

Hiroyuki Miyake (Osaka City University, Japan)

## Organizing Committee

Kazunobu Sato

Hiroshi Tsukube

Keiji Okada

Masatoshi Kozaki

Kazuo Toyota

Shuichi Suzuki

## Contact Information

Kazunobu Sato, Professor  
Department of Chemistry  
Graduate School of Science  
Osaka City University

Phone: +81-6-6605-3072

E-mail: [sato@sci.osaka-cu.ac.jp](mailto:sato@sci.osaka-cu.ac.jp)



## Program

13:00-13:05 Opening

Chairman; Kazunobu Sato(OCU)

13:05-13:45 Multifrequency EPR study of functional nitroxides and spin traps in nanocapsules

E. G. Bagryanskaya and D. N. Polovyanenko (International Tomography Center, Russia)

13:45-14:05 EPR study of temperature-dependent exchange interactions in strongly-coupled spin triads

Sergey Veber (International Tomography Center, Russia)

14:05-14:25 Photoinduced spin state switching in "breathing crystals" Cu(hfac)<sub>2</sub>LR  
Matvey Fedin (International Tomography Center, Russia)

14:25-15:05 Sunlight action on the oxidation SO<sub>2</sub> into sulphate aerosol affecting the climate and ecology of the earth

Galina Skubnevskaya (Institute Chemical Kinetics & Combustion, Russia)

Break

Chairman; Masatoshi Kozaki (OCU)

15:20-16:00 Conjugated Oligomers and Polymers for Molecular Electronics (and sensing)

Martin Baumgarten (Max Planck Institute for Polymer Research, Germany)

16:00-16:20 Spin crossover in elastic chain of exchange clusters

Vitaliy Morozov (International Tomography Center, Russia)

16:20-16:40 Multiple molecular motions based on helical metal complexes

Hiroyuki Miyake (Osaka City University, Japan)

16:40-17:00 Nitroxides in Design of Molecular Based Magnets: Chemistry and Topology

Evgeny Tretyakov (International Tomography Center, Russia)

Chairman; Keiji Okada(OCU)

17:10-17:50 Magnetostructural behavior of hydrogen-bonded organic radicals - Can we figure out the details?

Paul M. Lahti (University of Massachusetts Amherst, USA)

17:50-18:30 My career in science and being a professor: work, serendipity and sometimes stupidity

Lawrence J. Berliner (University of Denver, USA)

18:30- Closing