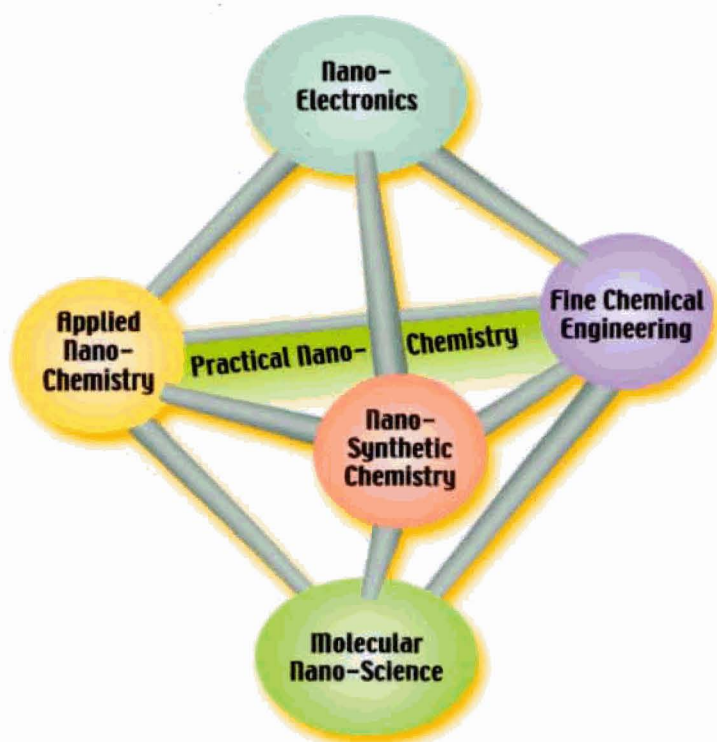




The 3rd 21COE International Symposium on 'Practical Nano-Chemistry'

Waseda University, 2005



November 14 and 15, 2005

International Conference Center, Waseda University

Organized by
'Center for Practical Nano-Chemistry' in Waseda University

Co-Organized by
*Waseda University,
Institute for Nano-Process in Waseda University,
Consolidated Research Institute for Advanced Science and Medical Care in Waseda
University*

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November 14 (Monday)

- 10:30-10:50 "21COE (Center of Excellence), Center for Practical Nano-Chemistry"
Kuniaki Tatsuta (Waseda University)
- 10:50-11:35 "Unusual Acid Catalysis on Mesoporous Silica"
M. Iwamoto (Tokyo Institute of Technology)
- 11:35-12:20 "Alkane Activation on Nanostructured Solid Acids"
J. A. Lercher (Technische Universität München, Germany)
- 12:20-13:20 Lunch
- 13:20-14:05 "Lithium-Ion Batteries: From The Genesis To The Future"
B. Scrosati (University La Sapienza)
- 14:05-14:50 "The 21st Century COE -Program Advanced Fiber Science and Textile Technology-"
H. Shirai (Shinshu University)
- 14:50-15:20 Coffee Break (Poster Presentation)
- 15:20-16:05 "Dinuclear Ruthenium Complex-Catalyzed Organic Synthesis"
S. Uemura (Okayama University of Science)
- 16:05-16:50 "Molecular Imaging and Visualization of Bioactivity of a Living Yeast Cell by Time- and Space-resolved Raman Spectroscopy"
H. Hamaguchi (The University of Tokyo)
- 17 : 00- Reception

November 15 (Tuesday)

- 9:30-10:15 "A R&D Try for Activating Chemical Industry"
M. Imanari (Mitsubishi Chemical Corp.)
- 10:15-11:00 "Properties Of One-Dimensional Platinum Chain Complexes With Delocalized Pt-Pt Bonds"
K. Matsumoto (Waseda University)
- 11:00-11:45 "Interaction of Thioamides, Selenoamides and Amides with di-iodine. A Study of the Mechanism of Action of Anti-thyroid Drugs"
N. Hadjiliadis (University of Ioannina, Greece)
- 11:45-12:45 Lunch Break (Poster Presentation)
- 12:45-13:30 "Weak Interactions in Metal-Containing Chemical and Biological Systems "
O. Yamauchi (Kansai University)
- 13:30-14:15 "Prospects of Microporous Membranes"
M. Matsukata (Waseda University)
- 14:15-14:20 Break
- 14:20-15:05 "Gatekeeping Effect: Multi-functionalized Mesoporous Silica Nanomaterials for Catalysis and Biotechnological Applications"
V. S.-Y. Lin (Iowa State University, USA)
- 15:05-15:50 "Synthesis of Nanoporous Materials by Chiral Anionic Surfactant"
S. Che (Shanghai Jiao Tong University, China)

**Welcome to the 21COE International Symposium on “Practical Nano-Chemistry,”
Waseda University**

It is our great pleasure on behalf of the organizers to welcome you to the 21COE International Symposium on “Practical Nano-Chemistry.” The symposium is supported by the "Center for Practical Nano-Chemistry" Project in the 21st Century-Center of Excellence (21COE) Program of Ministry of Education, Culture, Sports, Science, and Technology of Japan. The Symposium will be held on November 14 and 15, 2005, at the International Conference Center of Waseda University, Tokyo, Japan.

The oral presentations on the main topics of this symposium are given in the Masaru Ibuka Auditorium. Poster sessions are given in Seminar Room on the third floor. The program of this symposium is designed to give the participants, especially young Ph. D. students and postdoctoral fellows, ample time for scientific discussions while viewing the posters and for personal exchange. We hope that all the participants will find the symposium stimulating and enjoyable.

Kuniaki Tatsuta,
Chair

ORGANIZING COMMITTEE

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The 21COE International Symposium on Practical Nano-Chemistry 2005 is organized under the auspices of the following Organizations:

Catalysis Society of Japan

The Ceramic Society of Japan

The Chemical Society of Japan

The Electrochemical Society of Japan

The Japan Petroleum Institute

The Japan Society of Applied Physics

The Society of Chemical Engineers, Japan

The Society of Polymer Science, Japan

The Society of Synthetic Organic Chemistry, Japan

Research Members of 21COE 'Center for Practical Nano-Chemistry'

This project group consists of 26 faculties in the Graduate School of Science & Engineering, Waseda University, and is divided into five fields of nanotechnologies.

Nano-Synthetic Chemistry

Kuniaki Tatsuta
Hiroyuki Nishide
Makoto Nitta
Yoshiyuki Sugahara
Shinji Takeoka

Fine Chemical Engineering Applied Nano-Chemistry

Eiichi Kikuchi
Kiyotaka Sakai
Akira Hirata
Izumi Hirasawa
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Satoshi Tsuneda

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