

Japan-Taiwan Joint Symposium on Innovative Synthesis for New Materials Chemistry

October 3–7, 2010

Uji Obaku Plaza, Kyoto University, Japan

Sponsors and Collaborations

- Interchange Association, Japan
- The National Science Council, Taiwan
- Taipei Economic & Cultural Representative Office in Japan
- Kyoto University Global COE Program “Integrated Materials Science”
- MEXT Project of Integrated Research on Chemical Synthesis
- Joint Usage/Research Center at Institute for Chemical Research, Kyoto University

Oral Session

October 4 (Mon) 9:30–17:35

Y. Shimakawa (Kyoto U, JP)
S. Yamamoto (Kyoto U, JP)
L.-F. Wang (KMU, TW)
H. Kurata (Kyoto U, JP)
S.-C. Hsieh (NSYSU, TW)
K. Awaga (Nagoya U, JP)
K.-T. Wong (NTU, TW)
Y. Tsujii (Kyoto U, JP)
M. Chen (NSYSU, TW)

Young Scientist Session

October 5 (Tue) 9:00–17:45

K. Yoshizawa (Kyushu U, JP)
J.-T. Lee (NSYSU, TW)
S. Yamago (Kyoto U, JP)
W.-Y. Yeh (NSYSU, TW)
M. Nakamura (Kyoto U, JP)
C.-H. Chou (NSYSU, TW)
N. Tokitoh (Kyoto U, JP)
H.-W. Chen (NSYSU, TW)
F. Ozawa (Kyoto U, JP)
M.-J. Wu (NSYSU, TW)

Young Scientist Session

Contact Address

F. Ozawa and N. Ikeda
(ICR, Kyoto U, Kyoto 611-0011, JP)
phone: +81-774-38-3035
<http://www.kuicr.kyoto-u.ac.jp/>

Japan-Taiwan Joint Symposium on Innovative Synthesis for New Materials Chemistry

Date

October 3–7, 2010

Venue

Uji Obaku Plaza, Kyoto University, Japan

Organizers

Prof. Fumiyuki Ozawa: Institute for Chemical Research, Kyoto University, Japan

Prof. Ming-Jung Wu: Department of Chemistry, National Sun-Yat Sen University, Taiwan

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Schedule

- Oct. 3 Arrival in Kyoto (Kansai Airport/Kyoto Station/APA Hotel, Kyoto Station)
Welcome Party (18:00 at APA Hotel, Kyoto Station)
- Oct. 4 Symposium (9:30–17:35 at Uji Obaku Plaza)
Reception by Taipei Economic & Cultural Representative Office in Japan
(19:00–21:00 at Hotel Granvia Kyoto)
- Oct. 5 Symposium (9:00–17:45 at Uji Obaku Plaza)
Reception by Interchange Association, Japan
(19:00–21:00 at The Garden Oriental Kyoto)
- Oct. 6 Labo Tour (Uji, Yoshida, and Katsura Campuses, Kyoto University) (9:00–17:00)
Good-by Party (18:00 at a Japanese Restaurant)
- Oct. 7 Return to Taiwan (APA Hotel, Kyoto Station/Kyoto Station/Kansai Airport)

Oral Sessions

Lectures: 30 min including discussion; Short Talks: 15 min including discussion

Oct. 4 (Mon)

9:00 – 9:30	Registration
9:30 – 9:40	Opening Remarks (Prof. N. Tokitoh, Director of ICR, Kyoto U)
9:40 – 10:40	Session 1
Y. Shimakawa (Kyoto U, JP)	New Functional Oxide Materials
L.-F. Wang (KMU, TW)	Synthesis and Characterization Functionalized Magnetic Nanoparticles for Biomedical Applications
10:40 – 11:00	Break
11:00 – 12:30	Session 2
S. Yamamoto (Kyoto U, JP)	Corrosion-Resistant, Dispersible, and Organo-Functional α -Fe Nanoparticles
S.-C. Hsieh (NSYSU, TW)	Plasma-based Patterning of Polydimethylsiloxane (PDMS) Surfaces and Their Application in Cellular Mechanics
H. Kurata (Kyoto U, JP)	Local Analysis by Transmission Electron Microscopy
12:30 – 14:00	Photo & Lunch
14:00 – 16:00	Session 3
K. Awaga (Nagoya U, JP)	Application of Thiazyl Radicals and Related Materials to Organic Electronics
K.-T. Wong (NTU, TW)	Chemical Approach for Highly Efficient Electrophosphorescent Devices
Y. Tsujii (Kyoto U, JP)	Newly Designed Tribomaterials Synthesized by Living Radical Polymerization
M. Chen (NSYSU, TW)	Synthesis and Characterization of Poly(butylene succinate) and Its Copolyesters Containing Minor Amounts of Propylene Succinate
16:00 – 16:20	Break
16:20 – 17:35	Young Scientist Session 1
W.-T. Chen (Kyoto U)	High pressure synthesis, structural and property studies of the A-site-ordered perovskites $ACu_3Fe_4O_{12}$ (A = Ca, La)
C.-P. Chen (NSYSU)	Synthesis, Structure and Electron-transport Properties of Redox-active Ferrocenyl-ethynyl Molecules
S. Nakamura (Kyoto U)	Non-equilibrium Fluctuation Relations in a Quantum Electrical Conductor
C.-H. Lin (NSYSU)	Synthesis and Characterization of Nitroxide Polymers by Atom Transfer Radical Polymerization
S. Yokota (Kyoto U)	Synthesis and Properties of Well-defined Concentrated Brushes of Weak Polyelectrolytes
19:00 –	Reception by Taipei Economic & Cultural Representative Office in Japan

Oct. 5 (Tue)

9:00 – 10:30	Session 4
K. Yoshizawa (Kyushu U, JP)	Frontier Orbital Views of Molecular Conductance
J.-T. Lee (NSYSU, TW)	Nitroxide Polymer Brush Cathodes for Batteries
S. Yamago (Kyoto U, JP)	Synthesis and Properties of Cycloparaphenylenes
10:30 – 10:50	Break
10:50 – 12:20	Session 5
W.-Y. Yeh (NSYSU, TW)	Functionalization and Complexation of the Tetrairon Cluster [CpFe(CO)] ₄
M. Nakamura (Kyoto U, JP)	Selective C–C Bond Formations under Iron Catalysis
C.-H. Chou (NSYSU, TW)	Syntheses and Pyrolyses of Furan Analogue of α -Oxo- <i>o</i> -quinodimethane and Its Derivatives
12:20 – 14:00	Lunch
14:00 – 16:00	Session 6
N. Tokitoh (Kyoto U, JP)	New Reactivity of a 1,2-Diaryldisilyne, the First Carbon-substituted Disilyne
H.-W. Chen (NSYSU, TW)	Synthesis of MWCNTs with and without Metallic Catalysts
F. Ozawa (Kyoto U, JP)	Catalytic Synthesis of Regioregular Poly(3-allylthiophene)s via Direct Arylation
M.-J. Wu (NSYSU, TW)	Palladium-Catalyzed Cyclization of Enediynes to Benzocoumarines and Carbazoles
16:00 – 16:20	Break
16:20 – 17:35	Young Scientist Session 2
C.-H. Chen (NSYSU)	Synthesis of C ₆₀ (C ₂ H ₃ NMe)(<i>o</i> -(C ₆ H ₄)PPh ₂) and Its Transition Metal Complexes
M. Murata (Kyoto U)	Molecular Surgery of Fullerenes and Development of New Acceptors for Organic Photovoltaic Devices
C.-S. Chen (NSYSU)	Synthesis and Characterization of Molybdenum <i>o</i> -(Diphenylphosphino)benzaldehyde Complexes
T. Yoshimura (Kyoto U)	Asymmetric Synthesis of Cyclic Ethers via Short-lived C–O Axially Chiral Enolates
J.-H. Chu (NSYSU)	Palladium(II)-Catalyzed <i>Ortho</i> Arylation of 2-Phenoxypyridines with Potassium Aryltrifluoroborates via C–H Functionalization
17:35 – 17:45	Closing Remarks (Prof. M.-J. Wu, NSYSU)
19:00 –	Reception by Interchange Association, Japan