

MISW Program and Contents

Monday, 8th August

Registration (8:30-9:00) Registration Desk

Opening Remark (9:00-9:10)

Digital Multi-Purpose Hall, Tokyo Tech. W9

Prof. Yoshinao Mishima

President, Tokyo Institute of Technology

Photo Session (9:10-9:25)

Digital Multi-Purpose Hall, Tokyo Tech. W9

Short Presentation (9:30-10:10)

Digital Multi-Purpose Hall, Tokyo Tech. W9

Introduction of Overseas University

1. Chulalongkorn University
2. University of Malaya
3. Bandung Institute of Technology
4. Hong Kong University of Science and Technology
5. KAIST (Korea Advanced Institute of Science and Technology)
6. Hanoi University of Science and Technology
7. Tsinghua University
8. National Taiwan University

Poster Session (10:10-11:10)

Media Hall and Collaboration Room (in front of Digital Multi-Purpose Hall)

P-1 Iron(II)-doped Synthetic Zeolite for removing Cyanide from Aqueous Solutions

Irwin Maulana, Fumitake Takahashi

Department of Transdisciplinary Science and Engineering

P-2 Multispectral Imaging using Micro Prism Array Optical Film

F.C. Soon, Kittu Chumkesornkulkit and Itsuo Kumazawa

Department of Information and Communications Engineering

P-3 Magnetic Carbon Nanotubes for Dissolved Organic Matter Removal from Water

Astri Diani Nur Mufliah, Mohamed Ateia

Department of Civil and Environmental Engineering

P-4 RFID-based Virtual Touchscreen by Micro-Doppler Effect

Nopphon Keerativoranan and Junichi Takada

Department of Transdisciplinary Science and Engineering

P-5 On Effects of Wave Absorber to BAN Measurement in Anechoic Chamber

Kosorl Thourn, Takahiro Aoyagi, and Jun-ichi Takada

Department of Transdisciplinary Science and Engineering

P-6 Innovative Vehicle Load Sensing System for Orthotropic Steel Deck Bridges

Cao Vu Dung, Eiichi Sasaki

Department of Civil and Environmental Engineering

P-7 Effects of oxygen on furan resin curing

Jun NAKAI, Masatoshi Kubouchi and Yoshihiko Arao

Department of Chemical Science and Engineering

P-8 Slip Casting of Textured Boron Carbide with Alumina as Sintering Aid in a Strong Magnetic Field by Spark Plasma Sintering

Muhammad Fajar, Katsumi Yoshida, Toyohiko Yano

Department of Materials Science and Engineering

P-9 A 56Gb/s W-Band CMOS Wireless Transceiver

Korkut Kaan Tokgoz, Shotaro Maki, Seitaro Kawai, Noriaki Nagashima, Yoichi Kawano, Toshihide Suzuki, Taisuke Iwai, Kenichi Okada, Akira Matsuzawa

Department of Electrical and Electronic Engineering

P-10 Initial tests of a micro generator powered by fluid-induced flutter

Nguyen Van Sy

Department of Mechanical Engineering

Poster presentation of UK-Japan Engineering Education League Workshop will also be held on this poster session.

Break (11:10-11:20)

Invited Talk from UK-Japan (11:20-12:00)

Digital Multi-Purpose Hall, Tokyo Tech. W9

Prof. Roderick Smith

Mechanical Engineering, Imperial College London, UK

Global Sustainability: Do I hear echoes of Malthus?

Lunch (12:10-13:30)

ORAL SESSION 1 (13:30-14:45)

Presentation time: 8 min + Q&A: 3 min

Room A: W934 Lecture Room (3rd Floor)

Civil and Environmental Engineering

- A1-1 13:30-13:41 Shear Behavior of UFC-RC Hybrid Structure with Zylon Fiber and Different Design**
Pichaya Maneerattanaporn, ChihHsuan Changand, and Professor Junichiro Niwa
Department of Civil and Environmental Engineering
- A1-2 13:42-13:53 Probabilistic study on base-isolated buildings with different structural systems**
Satish Bhagat, A. C. Wijeyewickrema
Department of Civil and Environmental Engineering
- A1-3 13:54-14:05 A Biaxial Contact Element to Simulate Seismic Pounding between Asymmetric Buildings with Partial Collision Interface**
Sanjeema Bajracharya and Anil C. Wijeyewickrema
Department of Civil and Environmental Engineering
- A1-4 14:06-14:17 A Design Procedure to Enhance the Seismic Performance of Existing Reinforced Concrete Buildings using Supplementary Viscous Dampers**
Gobirahavan Rajeswaran
Department of Civil and Environmental Engineering
- A1-5 14:18-14:29 Analysis of Bicycle Usage and Awareness by the Citizens in Ota-Ward, Tokyo**
Nurul Asyikin Hj Hashim, Daisuke Fukuda
Department of Civil and Environmental Engineering
- A1-6 14:30-14:41 Centrifuge modelling of self-standing large diameter steel pipe sheet pile walls embedded in soft rock**
K. Vijayakanthan, Jiro Takemura, Sakae Seki
Department of Civil and Environmental Engineering

Room B: W935 Lecture Room (3rd Floor)

Chemical Science and Engineering

- B1-1 13:30-13:41 BULK POLYMERIZATION IN CFI MICROREACTOR**
Makoto Abe, N. Hansupalak, S. Ookawara, S. Yoshikawa, K.D.P. Nigam
Department of Chemical Science and Engineering

- B1-2 13:42-13:53 LiNi_{1/3}Co_{1/3}Mn_{1/3}O₂ synthesized by Spray Pyrolysis: a promising cathode material for all-solid-state batteries**
 Assem Ayaganova, Izumi Taniguchi
Department of Chemical Science and Engineering
- B1-3 13:54-14:05 Wastewater Treatment by Photo Fenton Reaction in Microreactor**
 Yusuke Shinozawa, Shinichi Ookawara, Shiro Yoshikawa
Department of Chemical Science and Engineering
- B1-4 14:06-14:17 Biodiesel production in micro-reactor using Ionic liquid as a heterogenous catalyst**
 Mohamed Rami Gaddem, Shinichi Ookawara and Shiro Yoshikawa
Department of Chemical Science and Engineering
- B1-5 14:18-14:29 Fluorescence Enhancement in Imide Compounds by Introducing Steric Electron-Donor Groups**
 R.Orita, K. Kanosue, R. Ishige, and S. Ando
Department of Chemical Science and Engineering
- B1-6 14:30-14:41 Fabrication of bimodal porous structure from ordered mesoporous silica-alumina spheres**
 Yuki.Takahashi and M.Okamoto
Department of Chemical Science and Engineering

Break (14:45-14:55)

ORAL SESSION 2 (14:55-16:10)

Presentation time: 8 min + Q&A: 3 min

Room A: W934 Lecture Room (3rd Floor)

Electronic and Architecture

- A2-1 14:55-15:06 Dynamic Analysis on Seismic Performance of High-Rise Building**
 K. Punjathrapsin and H. Hotta
Department of Architecture and Building Engineering
- A2-2 15:07-15:18 Non-Linear Finite Element Analysis on the Shear-Resistance of RC Pile Cap.**
 N. ZHANG, S. KONO and J.S. KUANG
Department of Architecture and Building Engineering
- A2-3 15:19-15:30 Fabrication of SmFe₂ thin films with negative giant magnetostriction**
 Masato Tomita, Yugo Ishitani, Yota Takamura, Shigeki Nakagawa
Department of Electrical and Electronic Engineering

- A2-4 15:31-15:42 Templated Perovskite Solar Cells Based on Colloidal Solution Processing**
Taishi Noma, Ye Zhang, Zhibo Yao, Mitsumasa Iwamoto and Hong Lin
Department of Electrical and Electronic Engineering
- A2-5 15:43-15:54 Co₂FeSi/Mn₃Ge bilayered films with perpendicular magnetic anisotropy**
Taishi Yabushita, Naoki Matsushita, Yukimasa Naganuma, Yota Takamura, Shigeki Nakagawa
Department of Electrical and Electronic Engineering

Room B: W935 Lecture Room (3rd Floor)	Chemical Science and Engineering
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- B2-1 14:55-15:06 Fabrication of PVA Nanoparticles by Supercritical Fluid Extraction of Emulsion**
Yuya Murakami, Yusuke Shimoyama
Department of Chemical Science and Engineering
- B2-2 15:07-15:18 Characteristic and performance of supercritical drying carbon porous electrode for Li-air battery**
Nattanai Kunanusont, Yusuke Shimoyama
Department of Chemical Science and Engineering
- B2-3 15:19-15:30 Decomposition of Tar in Molten Salt Reactor**
LUCIANA, S. KODAMA, H. SEKIGUCHI
Department of Chemical Science and Engineering
- B2-4 15:31-15:42 Molecular interaction inside ionic liquid gel for toluene absorption**
Risako Nakai, Yusuke Shimoyama
Department of Chemical Science and Engineering
- B2-5 15:43-15:54 Preparation of antibacterial drug cocrystal by CO₂ switchable solvent**
Seiji Shinoda, Yusuke Shimoyama
Department of Chemical Science and Engineering

Break (16:10-16:20)

ORAL SESSION 3 (16:20-17:35)

Presentation time: 8 min + Q&A: 3 min

Room A: W934 Lecture Room (3rd Floor)

Communication and Engineering

- A3-1 16:20-16:31 A study on patient view toward teleconsultation: Comparisons between Japan and Indonesia, and their future perspectives**
Timothy Alexander Tandian, Itoh Kenji, Gu Xiuzhu
Department of Industrial Engineering and Economics
- A3-2 16:32-16:43 An Easy Generation of Thriller Movie Poster from 3D Models**
Suzi KIM, Sunghee CHOI, Hiroshi NAGAHASHI
Department of Information and Communications Engineering
- A3-3 16:44-16:55 Propagation Measurement for VHF-Band Public Broadband Mobile Communication System**
H. Ohara, H. Sawada, M. Oodo, F. Kojima, and J. Takada
Department of Transdisciplinary Science and Engineering
- A3-4 16:56-17:07 Necessity of Small Fading Model in Deploying Wireless Sensor Network in Agriculture Field**
Tossaporn Srisooksai and Jun-ichi Takada
Department of Transdisciplinary Science and Engineering
- A3-5 17:08-17:19 Channel Synthesis for Wideband MIMO Channel Performance Prediction**
Dwi Joko Suroso, Kentaro Saito, Jun-ichi Takada
Department of Transdisciplinary Science and Engineering

Room B: W935 Lecture Room (3rd Floor)

Chemical Science and Engineering

- B3-1 16:20-16:31 Redox-mediated photocatalytic water-splitting in optofluidic coiled microreactor tubes**
Paolo Perez
Department of Chemical Science and Engineering
- B3-2 16:32-16:43 Coating Mesoporous Silica Pore Walls with Metal Oxides**
H. Satake, M. Okamoto
Department of Chemical Science and Engineering

- B3-3 16:44-16:55 Preparation of highly dispersed nickel metal catalysts supported on silica by heat treatment with water**
K. Tsuruta and M. Okamoto
Department of Chemical Science and Engineering
- B3-4 16:56-17:07 Evidence of the microwave special effects on the one electron reduction reactions of methyl viologen over Ni surface**
Masayuki Matsuhisa, Fuminao Kishimoto, Shuntaro Tsubaki, Masato Maitani, Eiichi Suzuki, Yuji Wada
Department of Chemical Science and Engineering
- B3-5 17:08-17:19 Asymmetric Hydrogenation of 1,2-Diimines Catalyzed by Iridium Complexes Bearing a Chiral N-Sulfonyldiamine Ligand**
Y. Sonoda, A. Matsunami, S. Kuwata, Y. Kayaki
Department of Chemical Science and Engineering
- B3-6 17:20-17:31 Optimization in the fabrication of High Throughput MoS₂ Based FETs for stable Biomolecular Detection**
Wang-Shin Kung, Yatsu Kazuki, Hayamizu Yuhei
Department of Materials Science and Engineering