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, Kitti 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 Muflihah, 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)**

- **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 Chang and, and Professor Junichiro Niwa
  *Department of Civil and Environmental Engineering*

  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  LiNi1/3Co1/3Mn1/3O2 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

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

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

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
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

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

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

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