

**1st Joint International Seminar of Faculty of Science and Technology (Universiti
Kebangsaan Malaysia) and Faculty of Engineering (Gifu University) 2014**
“Nurturing Science and Technology”

Program

Venue: 6th Assembly Room, University Hall, Gifu University, Japan

Thursday, July 31, 2014

13:00-13:20 Opening ceremony (and group photo with the President)
President of Gifu University, Prof. Hisataka Moriwaki

13:20-15:20 Moderators: Prof. Aminah and Prof. Murai

Research Presentation I

O-01 Rice Husk Filled Thermoplastic Natural Rubber Composites

Prof. Ibrahim Abdullah

Universiti Kebangsaan Malaysia, Malaysia

O-02 Defect Chemistry of Indium Oxide Semiconductor

Prof. Yutaka Ohya

Gifu University, Japan

**O-03 Removal of Methylene Blue Dye in Aqueous Solution by Sorption on a
Bacterial-g-Poly-(Acrylic Acid) Polymer Network Hydrogel**

Dr. Azwani Mat Lazim

Universiti Kebangsaan Malaysia, Malaysia

O-04 Chemically Reactive Supramolecular Materials

Dr. Masato Ikeda

Gifu University, Japan

O-05 Composite Membranes for Waste Water Treatment

Dr. Rizafizah Othaman

Universiti Kebangsaan Malaysia, Malaysia

O-06 Vermicomposting Treatment of Vegetable and Fruit Wastes

Dr. Kui Huang

Gifu University, Japan

**O-07 Solvent Free Synthesis of Spiropyran derivatives Using Microwave Irradiation
Method**

Dr. Aishah Hasbullah

Universiti Kebangsaan Malaysia, Malaysia

O-08 Rapid Synthesis of Titanium Dioxide Nanocrystals and Their Applications

Dr. Kazuhiro Manseki

Gifu University, Japan

15:20-15:40 Coffee break

15:40-17:40 Moderators: Prof. Pauzi and Dr. Lim

Research Presentation II

- O-09 Structural and Biological Studies of
c-5-bromo-2-hydroxyphenylcalix[4]-2-methylresorcinarene and
c-p-methoxyphenylcalix[4]resorcinarene**
Prof. Bohari M. Yamin
Universiti Kebangsaan Malaysia, Malaysia
- O-10 Proton Coupled Mixed Valency in Quadruple Hydrogen Bonded Dimers of
Bis(biimidazole)dirhodium Complexes**
Prof. Masahiro Ebihara
Gifu University, Japan
- O-11 Synthesis of Nonplanar Porphyrins and Arrays**
Dr. Muntaz Abu Bakar
Universiti Kebangsaan Malaysia, Malaysia
- O-12 Thiocarbonyl Compounds with Nitrogen- and Oxygen-containing Substituents:
Key Species for New Reactions and Functional Molecules**
Prof. Toshiaki Murai
Gifu University, Japan
- O-13 Fucoidan: A Potential Ingredient from Malaysian *Sargassum binderi***
Dr. Wan Aida Wan Mustapha
Universiti Kebangsaan Malaysia, Malaysia
- O-14 Semiconductor Clathrate Developed as a New Photovoltaic Material**
Dr. Tetsuji Kume
Gifu University, Japan
- O-15 Potential of Polylactide Based Block Copolymer as Solid Polymer Electrolyte**
Dr. Farah Hannan Anuar
Universiti Kebangsaan Malaysia, Malaysia
- O-16 Mechanical Detection of Residual Stresses in Composite Materials: in the Cases of
Wood Cells Wall and Carbon Fiber Reinforced Plastics**
Dr. Keisuke Toba
Gifu University, Japan

18:00-20:00 Dinner (The 2nd Dining Hall, Gifu University)

Welcoming speech by the vice President of Gifu University, Prof. Fumiaki Suzuki

Friday, August 1, 2014

9:00-11:00 Moderators: Prof. Rozali and Prof. Koketsu

Research Presentation III

- O-17 Malaysia: Pioneering Halal Food Products Certification and Standards**
Prof. Aminah Abdullah
Universiti Kebangsaan Malaysia, Malaysia
- O-18 Application and Morphology of Crazed Porous Polymer**
Dr. Akiyoshi Takeno

Gifu University, Japan

O-19 Rediscovering Natural Products: Sourcing of Natural Products Diversity from the Malaysian Forests

Prof. Ikram Said

Universiti Kebangsaan Malaysia, Malaysia

O-20 Long Carbon-Chain Polyols Isolated from the Marine Dinoflagellate *Amphidinium* sp.

Dr. Toshiyasu Inuzuka

Gifu University, Japan

O-21 Interaction of Metal Complexes with DNA

Dr. Nurul Huda Abd Karim

Universiti Kebangsaan Malaysia, Malaysia

O-22 Stereocontrolled Synthesis of *P*-chiral Oligonucleotide Analogs

Dr. Natsuhisa Oka

Gifu University, Japan

**O-23 Structural Study of Protonated
5,5,7,12,12,14-hexamethyl-1,4-8,11-tetraazacyclotetradeca-7,14-dienium
Complexes**

Dr. Siti Fairus Yusoff

Universiti Kebangsaan Malaysia, Malaysia

O-24 Recent Topics in Dye Chemistry

Prof. Masaki Matsui

Gifu University, Japan

11:00-11:15 Coffee break

11:15-12:15 Visiting Analytical Center of Gifu University and some laboratories in the Engineering Faculty

12:15-14:00 Lunch (Optional: praying at Gifu mosque)
(For Committee Members, please attend the committee meeting at 3rd Assembly Room)

14:00-15:30 Moderators: Prof. Bohari and Prof. Li

Research Presentation IV

O-25 Pharmaceutical Residues in Water: Implication to the Quality of Water Supply

Prof. Md. Pauzi Abdullah

Universiti Kebangsaan Malaysia, Malaysia

O-26 Analysis of Adsorption Isotherms of Dissolved Organic Matter in Water and Wastewater

Prof. Fusheng Li

Gifu University, Japan

O-27 Metabolites from Microbes and Their Potential for Bioprospecting

Dr. Jalifah Latif

Universiti Kebangsaan Malaysia, Malaysia

- O-28 Designing Microdevices Integrated with Biological Molecular Machines**
Dr. Takahiro Nitta
 Gifu University, Japan
- O-29 Formulation and Physical Characterization of Microemulsions Based-oleic Acid**
Dr. Suria Ramli
 Universiti Kebangsaan Malaysia, Malaysia
- O-30 Characterization of Amorphous/Crystalline-Si Heterojunction Solar Cells via Polarized Light and Positron Annihilation**
Dr. Nobuyuki Matsuki
 Gifu University, Japan

15:30-16:00 Coffee break

16:00-16:45 Moderators: Prof. Ibrahim and Dr. Nitta

Research Presentation V

- O-31 Development of Charcoal Base Metallic Composite Electrode in Wastewater Treatment**
Prof. Mohamed Rozali Othman
 Universiti Kebangsaan Malaysia, Malaysia
- O-32 Impact of Effluents from Small-scale Onsite Wastewater Treatment Facilities (*johkasou*) on a Local Water Environment**
Dr. Toshiro Yamada
 Gifu University, Japan
- O-33 Zwitterionic Stationary Phases for Capillary Ion Chromatography**
Dr. Lee Wah Lim
 Gifu University, Japan

16:45-17:00 Introduction of Gifu University's Global Environment and Energy Program (GU-GEEP) by the Head of Promotion Office, Prof. Mamoru Koketsu (also Vice Dean of the Faculty of Engineering, Gifu University)

17:00- Closing Ceremony
 Chairperson of UKM delegates, Dr. Rizafizah Othaman
 Dean of the Faculty of Engineering, Prof. Keitetsu Rokugo

Saturday, August 2, 2014

7:45-16:30 Trip to Takayama and Shirakawa Village (UNESCO Culture Heritage)

16:30-21:00 Naraga River Fireworks sponsored by Gifu Shinbun (Gifu Newspaper)