

# PROGRAM

Date: Monday, April 14, 2008

Place: Meeting Room 1, 7th FL, Research Center for Advanced Science Technology

*General Chair: Prof. Koji Abe*

9:00-9:15      Opening address  
                 Prof. Toshihiro Hirai (*Program leader*).

## PRESENTATION

*Chair : Prof. Makoto Shimosaka*

9:15-9:30      In search for new material of aquatic insect's thread  
                 Goro KIMURA

9:30-9:45      Structural and functional analyses of aquatic insect silk toward  
                 their application for purification and/or restoration of river  
                 environment  
                 Eiso INOUE

9:45-10:00    Demethylation dynamics of paternal genomes in pronuclear bovine  
                 zygotes  
                 Hany ABDALLA

10:00-10:15   The study of DNA marker which is effective for breeding of head  
                 vegetables.  
                 Daisuke ARUGA

*Chair : Prof. Kimio Hirabayashi*

10:15-10:30   Isolation and characterization of novel chitinolytic bacteria,  
                 and construction of stable chitinolytic microbial community  
                 Kazuaki SATO

10:30-10:45   Break

10:45-11:00   Cloning of the genes of the silk proteins of the *Trichoptera* an insect  
                 which lived in water and the adhibition of the silk  
                 Yujun WANG

- 11:00-11:15 Sequence structure and transcriptional profiles of a defensin-like gene from silkworm  
Wen HONGXIU
- 11:15-11:30 Studies on Biopolymers and Their Synthetic/Degradation Genes of *Bacillus*  
I Putu SUDIARTA
- Chair : Prof. Kousaku Ohkawa*
- 11:30-11:45 Building of the energy production system using photosynthetic proteins  
Takamitsu UEKI
- 11:45-12:00 Research of Stimulus Responsive Conjugated Polymer Nano-paricle and Nano-fiber  
Naoya ADACHI
- 12:00-13:00 Lunch
- 13:00-13:15 Micro 3D culture for skeletal muscle derived cells using hyaluronan-collagen based capsule  
Kayoko TONO
- Chair : Prof. Kunihiro Hamada*
- 13:15-13:30 Creation of Organic-Inorganic Composite Nano-Fiber materials  
Shinya HAYASHI, Kousaku Ohkawa
- 13:30-13:45 Chirality exchange benzannulation for central chirality to axial chirality and its application to the total synthesis of axially chiral natural lignane lactones  
Eri YOSHIDA
- 13:45-14:00 Synthetic studies utilizing *gem*-dihalocyclopropanes, and its application to functionalized organic molecules  
Takao NAGANO
- Chair : Prof. Mutsumi Kimura*
- 14:00-14:15 Studies on molecular direction controlling and opt electronic properties of thiophene oligomer derivatives  
Shusuke KANAZAWA
- 14:15-14:30 Characterization of nanostructured-metal oxide modified electrocatalysts for polymer electrolyte membrane fuel cells  
Takahiro SAIDA
- 14:30-14:45 Break

*Chair : Prof. Mikihiro Miura*

- 14:45-15:00 Study of Propulsion Mechanism Using Dynamic Variable Stiffness Fin  
Masataka NAKABAYASHI
- 15:00-15:15 Mechanical properties of polybenzimidazole reinforced by carbon nanofibers  
Zhang LI
- 15:15-15:30 Health Monitoring Technology of High-performance Fiber Composite Structure  
Du CHAO

*Chair : Prof. Toyonori Nishimatu*

- 15:30-15:45 Study on thermal properties of composite reinforced by high performance fiber  
Hua YANG
- 15:45-16:00 Value of Kansei on applying interlocutory production to Co-creation activity  
Tomohiro UEMAE

- 16:00-16:05 Closing Remarks  
Prof. Mikihiro Miura
- 16:20-17:40 Comments by External Reviewers
- 18:00-20:00 Banquet (Mulberry Hall)