

# Materials and Polymer Chemistry

**ROOM: Yangtze River Hall**

**Monday, September 14, 2009**

**Section A (10:30-11:50)**

**Moderator: LEE, Jae-Suk**

| <b>Time</b> | <b>No.</b> | <b>Title and Speaker Information</b>   |
|-------------|------------|--|
| 10:30-10:55 | PM-IL-01   | <b>Overview on the progress of polymer science in China</b><br><u>DONG, Jianhua</u><br>National Natural Science Foundation of China, China<br><a href="mailto:dongjih@nsfc.gov.cn">dongjih@nsfc.gov.cn</a>                           |
| 10:55-11:20 | PM-IL-02   | <b>Photo-controlled Self-assembly and Disassembly for Functional Supramolecular Materials</b><br><u>ZHANG, Xi</u><br>Tsinghua University, China<br><a href="mailto:xi@mail.tsinghua.edu.cn">xi@mail.tsinghua.edu.cn</a>              |
| 11:20-11:35 | PM-OP-01   | <b>Synthesis and Optical Properties of Cis- or Trans-Datpp and Their Soluble Polyimides</b><br><u>TANTAYANON, Supawan</u><br>Chulalongkorn University, Thailand<br><a href="mailto:supawan.t@chula.ac.th">supawan.t@chula.ac.th</a>  |
| 11:35-11:50 | PM-OP-19   | <b>Iron mediated ICAR ATRP of Styrene and Methyl Methacrylate in the Absence of Thermal Radical Initiator</b><br><u>CHENG, Zhenping</u><br>Soochow University, China<br><a href="mailto:sudaczp@hotmail.com">sudaczp@hotmail.com</a> |

**11:50-14:00 Lunch**

**Section B (14:00-15:45)**

**Moderator: CHEN, Shou'an**

| <b>Time</b> | <b>No.</b> | <b>Title and Speaker Information</b>   |
|-------------|------------|--|
| 14:00-14:25 | PM-IL03    | <b>Synthesis and Self-Assembly of Triblock Copolypeptides in Water</b><br><u>HADJICHRISTIDIS, Nikos</u><br>University of Athens, Greece<br><a href="mailto:hadjichristidis@chem.uoa.gr">hadjichristidis@chem.uoa.gr</a>  |
| 14:25-14:50 | PM-IL04    | <b>Precise Synthesis of Asymmetric Star-Branched Polymers by Iterative Approach Using Living Anionic Polymerization</b><br><u>HIRAO, Akira</u><br>Tokyo Institute of Technology, Japan<br><a href="mailto:ahirao@polymer.titech.ac.jp">ahirao@polymer.titech.ac.jp</a> |

---

|             |         |   |
|-------------|---------|---|
| 14:50-15:15 | PM-IL05 | <b>Living Anionic Polymerization of n-hexyl isocyanate and Its Block Copolymerization with 2-Vinylpyridine</b><br><u>LEE, Jae-Suk</u><br>Gwangju Institute of Science and Technology, Korea<br><a href="mailto:jslee@gist.ac.kr">jslee@gist.ac.kr</a> |
| 15:15-15:30 | PM-OP02 | <b>Metallopolynes and Metallophosphors: New Multifunctional Materials for Optoelectronic Applications</b><br><u>WONG, Waiyeung</u><br>Hong Kong Baptist University, Hong Kong, China<br><a href="mailto:rwywong@hkbu.edu.hk">rwywong@hkbu.edu.hk</a>  |
| 14:30-15:45 | PM-OP03 | <b>Design and Functions of Two-Dimensional Macromolecules</b><br><u>JIANG, Donglin</u><br>Institute for Molecular Science, Japan<br><a href="mailto:jiang@ims.ac.jp">jiang@ims.ac.jp</a>  |

---

**15:45-16:00 Break**

**Section C (16:00-17:50)**

**Moderator: HIRAO, Akira**

| <b>Time</b> | <b>No.</b> | <b>Title and Speaker Information</b>  |
|-------------|------------|---|
| 16:00-16:25 | PM-IL06    | <b>Organic Dipolar Compounds with Functional Properties</b><br><u>CHOW, Tahsin J.</u><br>Institute of Chemistry, Academia Sinica, Taiwan, China<br><a href="mailto:tjchow@chem.sinica.edu.tw">tjchow@chem.sinica.edu.tw</a>                         |
| 16:25-16:50 | PM-IL07    | <b>Blue Electroluminescent Conjugated Polymer with High Efficiency</b><br><u>CHEN, Shou'an</u><br>National Tsing Hua University, Taiwan, China<br><a href="mailto:sachen@che.nthu.edu.tw">sachen@che.nthu.edu.tw</a>                                |
| 16:50-17:05 | PM-OP04    | <b>Acetylenic Polymers: Syntheses, Structures and Functions</b><br><u>HUANG, Jianguo</u><br>Zhejiang University, China<br><a href="mailto:jghuang@zju.edu.cn">jghuang@zju.edu.cn</a>  |
| 17:05-17:20 | PM-OP05    | <b>Effect of the miscibility on the dewetting inhibition</b><br><u>SHI, Tongfei</u><br>Changchun Institute of Applied Chemistry, CAS, China<br><a href="mailto:tfshi@ciac.jl.cn">tfshi@ciac.jl.cn</a>   |
| 17:20-17:35 | PM-OP06    | <b>Spectrokinetics Study of Probable Interaction of Diverse Inorganic Material Ions on Bleaching of Dye</b><br><u>AZMAT, Rafia</u><br>Jinnah University for Women, Pakistan<br><a href="mailto:rafiasaeed200@yahoo.com">rafiasaeed200@yahoo.com</a> |
| 17:35-17:50 | PM-OP07    | <b>Controllable Synthesis of Nanostructured Conducting Polymers</b><br><u>WEI, Zhixiang</u><br>National Center for Nanoscience and Technology, Beijing, China<br><a href="mailto:weizx@nanoctr.cn">weizx@nanoctr.cn</a>                             |

---

**Tuesday, September 15, 2009**

**Section A (10:30-11:50)**

**Moderator: LI, Zichen**

| <b>Time</b> | <b>No.</b> | <b>Title and Speaker Information</b>   |
|-------------|------------|--|
| 10:30-10:55 | PM-IL08    | <b>Acetylenic Polymers: Syntheses, Structures and Functions</b><br><u>TANG, Benzhong</u><br>The Hong Kong University of Science & Technology, China<br><a href="mailto:tangbenz@ust.hk">tangbenz@ust.hk</a>  |
| 10:55-11:20 | PM-IL09    | <b>Anti-Fouling, Non-Cytotoxic, Magnetic Nanoparticles For Simultaneous Imaging And Efficacious siRNA Delivery</b><br><u>DAVIS, Thomas P.</u><br>University of New South Wales, Australia<br><a href="mailto:t.davis@unsw.edu.au">t.davis@unsw.edu.au</a>      |
| 11:20-11:35 | PM-OP08    | <b>Reinforcing mechanism of carbon nanotubes in soft polymers</b><br><u>NAH, Changwoon</u><br>Chonbuk National University, Korea<br><a href="mailto:cnah@chonbuk.ac.kr">cnah@chonbuk.ac.kr</a>   |
| 11:35-11:50 | PM-OP09    | <b>Preparation and Characterization of Polypyrrole-silica Nanocomposites via a dispersion polymerization</b><br><u>JAFARZADEH, Mohammad</u><br>Universiti Sains Malaysia, Malaysia<br><a href="mailto:mjafarzadeh1027@yahoo.com">mjafarzadeh1027@yahoo.com</a> |

**11:50-14:00 Lunch**

**Section B (14:00-15:45)**

**Moderator: TANG, Benzhong**

| <b>Time</b> | <b>No.</b> | <b>Title and Speaker Information</b>  |
|-------------|------------|---|
| 14:00-14:25 | PM-IL10    | <b>Synthesis and Supramolecular Self-Assembly of Nonlinear-Shaped Responsive Polymers</b><br><u>LIU Shiyong</u><br>University of Science and Technology of China, China<br><a href="mailto:sliu@ustc.edu.cn">sliu@ustc.edu.cn</a>   |
| 14:25-14:50 | PM-IL11    | <b>Synthesis and Characterization of Optically Active Polymers Containing L-Methionine Amino Acid Linkages in Ionic Liquids as a Green Media</b><br><u>MALLAKPOUR, Shadpour</u><br>Isfahan University of Technology, Iran<br><a href="mailto:mallak777@yahoo.com">mallak777@yahoo.com</a> |
| 14:50-15:15 | PM-IL12    | <b>Macromolecular Engineering of Poly (vinyl alcohol)</b><br><u>LI, Zichen</u><br>Peking University, China<br><a href="mailto:zeli@pku.edu.cn">zeli@pku.edu.cn</a>  |

---

|             |         |   |
|-------------|---------|---|
| 15:15-15:30 | PM-OP10 | <b>Synthesis of Biodegradable Multi-Armed Star Polymeric Architectures via RAFT Mechanism</b><br><u>LIU, Jingquan</u><br>The University of New South Wales, Australia<br><a href="mailto:jingquan.liu@unsw.edu.au">jingquan.liu@unsw.edu.au</a>     |
| 15:30-15:45 | PM-OP15 | <b>Well-Defined Amphiphilic and Double Hydrophilic Graft Copolymer: Synthesis and Application</b><br><u>HUANG, Xiaoyu</u><br>Shanghai Institute of Organic Chemistry, China<br><a href="mailto:xyhuang@mail.sioc.ac.cn">xyhuang@mail.sioc.ac.cn</a> |

---

**15:45-16:00 Break**

**Section C (16:00-17:45)**

**Moderator: DAVIS, Thomas P.**

---

| <b>Time</b> | <b>No.</b> | <b>Title and Speaker Information</b>  |
|-------------|------------|---|
| 16:00-16:25 | PM-IL13    | <b>Fluorene based Conjugated Rod-Coil Block Copolymers: Synthesis, Morphology, Photophysical Properties, and Stimuli-Responsive Applications</b><br><u>CHEN, Wenchang</u><br>National Taiwan University, Taiwan China<br><a href="mailto:chenwc@ntu.edu.tw">chenwc@ntu.edu.tw</a> |
| 16:25-16:50 | PM-IL14    | <b>Rapid, Selective and Reversible Nitroxide Radical Coupling (NRC) Reactions at Ambient Temperature</b><br><u>MONTEIRO, Michael J.</u><br>University of Queensland Australia<br><a href="mailto:m.monteiro@uq.edu.au">m.monteiro@uq.edu.au</a>                                   |
| 16:50-17:15 | PM-IL15    | <b>Functional Nanomaterials based on Self-Assembled Block Copolymer Thin Films</b><br><u>KIM, Jin Kon</u><br>Pohang University of Science and Technology Korea<br><a href="mailto:jkkim@postech.ac.kr">jkkim@postech.ac.kr</a>  |
| 17:15-17:30 | PM-OP12    | <b>Synthesis of Silica-Polymer Hybrids By Combinatorial Approaches</b><br><u>ZHAO, Youliang</u><br>Soochow University China<br><a href="mailto:ylzhao@suda.edu.cn">ylzhao@suda.edu.cn</a>   |
| 17:30-17:45 | PM-OP13    | <b>Polymer Controlled Crystallization: a New Way toward Hierarchical Inorganic and Hybrid Materials</b><br><u>YU, Shuhong</u><br>University of Science and Technology of China, China<br><a href="mailto:shyu@ustc.edu.cn">shyu@ustc.edu.cn</a>                                   |

---

## Wednesday, September 16, 2009

### Section A (10:30-11:50)

Moderator: LIU Shiyong

| Time        | No.     | Title and Speaker Information  |
|-------------|---------|--|
| 10:30-10:55 | PM-IL16 | <b>Programmed Molecular Design for Tailoring Functional Nanobiomaterials</b><br><u>AIDA, Takuzo</u><br>The University of Tokyo, Japan<br><a href="mailto:aida@macro.t.u-tokyo.ac.jp">aida@macro.t.u-tokyo.ac.jp</a>                          |
| 10:55-11:20 | PM-IL17 | <b>Recent Advances in Living Radical Polymerization Using Universal (Switchable) RAFT Agents</b><br><u>THANG, San H.</u><br>CSIRO Molecular and Health Technologies, Australia<br><a href="mailto:San.Thang@csiro.au">San.Thang@csiro.au</a> |
| 11:20-11:35 | PM-OP14 | <b>Thermal Behaviours of Silver-Biopolymer Nanocomposites</b><br><u>TAN, Weileng</u><br>Universiti Sains Malaysia, Malaysia<br><a href="mailto:weileng80@hotmail.com">weileng80@hotmail.com</a>  |
| 11:35-11:50 | PM-OP11 | <b>Mechanism of MADIX Polymerization of Vinyl Acetate Mediated by Dithionodisulfide</b><br><u>HE, Junpo</u><br>Fudan University, China<br><a href="mailto:jphe@fudan.edu.cn">jphe@fudan.edu.cn</a>   |

**11:50-14:00 Lunch**

### Section B (14:00-15:45)

Moderator: SHAO, Zhengzhong

| Time        | No.     | Title and Speaker Information  |
|-------------|---------|--|
| 14:00-14:25 | PM-IL18 | <b>Use of Universal (Switchable) RAFT Agents in Block Copolymer Synthesis</b><br><u>MOAD, Graeme</u><br>CSIRO Molecular and Health Technologies, Australia<br><a href="mailto:graeme.moad@csiro.au">graeme.moad@csiro.au</a> |
| 14:25-14:50 | PM-IL19 | <b>Shaped Polymer Nano- objects from Gelable Block Copolymers</b><br><u>CHEN, Yongming</u><br>Institute of Chemistry, CAS, China<br><a href="mailto:ymchen@iccas.ac.cn">ymchen@iccas.ac.cn</a>                               |
| 14:50-15:15 | PM-IL20 | <b>Structural Analysis of Epitaxial Grain Boundary of Block Copolymers</b><br><u>CHANG, Taihyun</u><br>Pohang University of Science and Technology, Korea<br><a href="mailto:tc@postech.ac.kr">tc@postech.ac.kr</a>          |

---

|             |         |  |
|-------------|---------|--|
| 15:15-15:30 | PM-OP16 | <b>Unusual Micelles from Polyisoprene-block-poly(2-vinylpyridine)</b><br><u>HUANG, Haiying</u><br>Pohang University of Science and Technology, Korea<br><a href="mailto:tc@postech.ac.kr">tc@postech.ac.kr</a>   |
| 15:30-15:45 | PM-OP17 | <b>Versatile Coordination Mode in Multi-Dentate Amine-Phenolate Calcium, Magnesium and Zinc Complexes and Influence on Ring-Opening Polymerization of rac-Lactide</b><br><u>MA, Haiyan</u><br>East China University of Science and Technology, China<br><a href="mailto:haiyanma@ecust.edu.cn">haiyanma@ecust.edu.cn</a> |

---

**15:45-16:00 Break**

**Section C (16:00-17:45)**

**Moderator: CHEN, Yongming**

---

| <b>Time</b> | <b>No.</b> | <b>Title and Speaker Information</b>  |
|-------------|------------|---|
| 16:00-16:25 | PM-IL21    | <b>Formation Kinetics and Fractal Characteristics of Regenerated Silk Fibroin Alcolgel Developed from Nanofibrillar Network</b><br><u>SHAO, Zhengzhong</u><br>Fudan University, China<br><a href="mailto:zzshao@fudan.edu.cn">zzshao@fudan.edu.cn</a>                             |
| 16:25-16:50 | PM-IL22    | <b>Complex formation of DNA and polycations of various chain topologies</b><br><u>SCHMIDT, Manfred</u><br>University of Mainz Germany<br><a href="mailto:mschmidt@uni-mainz.de">mschmidt@uni-mainz.de</a>   |
| 16:50-17:15 | PM-IL-23   | <b>Functional Hyperbranched Polymers for DNA and Drug Delivery</b><br><u>ZHU, Xinyuan</u><br>Shanghai Jiao Tong University China<br><a href="mailto:xyzhu@sjtu.edu.cn">xyzhu@sjtu.edu.cn</a>  |
| 17:15-17:30 | PM-OP-18   | <b>Long term controlled release of Dex from a biodegradable substrate (PLGA): drug loaded by ink-jet printing technique</b><br><u>SANTIAGO, Karen</u><br>University of Santo Tomas, Philippines<br><a href="mailto:ksantiag@uow.edu.au">ksantiag@uow.edu.au</a>                   |
| 17:30-17:45 | PM-OP-20   | <b>in situ Reaction Analysis for Understanding Polymerization Process and Kinetics Using Mid-IR Spectroscopy</b><br><u>Dr. LIU, Huimin</u><br>AutoChem. Dept., Mettler-Toledo Instruments (Shanghai) Co., Ltd., China<br><a href="mailto:Selina.liu@mt.com">Selina.liu@mt.com</a> |

---