

SINGAPORE INTERNATIONAL SYMPOSIUM 2006

<A*STAR - EDB - Mitsui Chemicals>

17th & 18th April 2006

Auditorium, Level 2
Matrix Building, Biopolis

Advances in Materials & Chemicals

To register: <http://www.a-star.edu.sg/SIS2006>

To enquire: sis2006@a-star.edu.sg

Jointly organised by



Mitsui Chemicals



Professor Krzysztof Matyjaszewski



Professor Yoshiki Chujo



Professor Andy Hor



Professor Dr. Dr. h.c. Stan Veprek

Symposium Chair:

Dr Keith Carpenter, Executive Director

*Institute of Chemical and Engineering Sciences, A*STAR*

17 April 2006

09.00-10.00 Registration

10.00-10.05 Information & Notice

10.05-10.10 Opening Speech by Dr. Vivian Balakrishnan,
Minister for Community Development, Youth and Sports
Second Minister for Trade and Industry

10.10-10.15 Opening Speech by Kenji Fujiyoshi,
President, Mitsui Chemicals Inc., Japan

10.15-11.00 **Professor Krzysztof Matyjaszewski**
Carnegie Mellon University, U.S.A.
New Nanostructured Materials Enabled by
Controlled/Living Radical Polymerization

11.00-11.45 **Professor Yoshiki Chujo**
Kyoto University, Japan
Organic-Inorganic Polymer Hybrids

11.45-14.00 Lunch <Posters Session>

14.00-14.45 **Professor Andy Hor**
National University of Singapore, Singapore
Stabilization and Catalytic Activation of Unstable and
Elusive Organometallic Complexes

14.45-15.30 **Professor Dr. Dr. h.c. Stan Veprek**
Technical University Munich, Germany
Superhard and Functional Nanostructured Thin Films:
From a Generic Design Principle to Industrial Applications

15.30-15.50 Tea Break

15.50-16.35 **Dr. Shin Fukuda**
Mitsui Chemicals, Inc., Japan
Applications of Sputtered Thin Film on Polymeric Substrate
to Electronic Materials



Dr. Shin Fukuda



Professor William A. Goddard III



Professor Myongsoo Lee



Professor Takuzo Aida

18 April 2006

09.00-09.30 Registration

09.30-10.15 **Professor William A. Goddard III**
California Institute of Technology, U.S.A.
First Principles Design of Materials and Catalysts

10.15-11.00 **Professor Myongsoo Lee**
Yonsei University, Seoul, Korea
Supramolecular Assembly Toward Functional Nanostructures

11.00-11.15 Tea Break

11.15-12.00 **Professor Takuzo Aida**
The University of Tokyo, Japan
Novel Electronic Nanomaterials by Programmed
Self-Organization

12.00-12.05 Closing Speech by Dr Keith Carpenter,
Executive Director,
Institute of Chemical and Engineering Sciences, A*STAR

12.05-13.30 Posters Session

Posters

Mitsui Chemicals, Inc., Japan

- Icross Tape: Best Quality Tapes for Wafer Back-Grinding Process
- Mitsui's Agrochemicals - High Performance - Around the World
- PDP Optical Filter --- FILTOP ---
- Nucleosides: An Unprecedented Chemo-Enzymatic Hybrid Process
- NOTIO: Nano-Crystal Structure Controlled Elastomer for New Generation
- Super Polyolefin TPX for Releasability and Heat Resistance
- Excerox: Miracle Processing Aid
- Organic-Inorganic Hybrid Coatings with High Gas Barrier and Abrasion Resistance
- Orientation Control Technique of Organic Molecules by Laser Radiation
- Functional Polymers Created by New Catalysts

Institute of Materials Research and Engineering, A*STAR, Singapore

- Polymer Nanocomposites
- Novel Design of Hyperbranched Polymers and Applications

Institute of Chemical and Engineering Sciences, A*STAR, Singapore

- Three Dimensional Ligands (carboranes) in Homogeneous Catalysis
- Functionalised Specialty Polymers-Synthesis and Applications
- The Use of Raman Array Microscopy and Numerical Analysis for the Authentication of Commercial Objects

Institute of High Performance Computing, A*STAR, Singapore

- DFT Calculations on Nanometal-Polymer Composites, the case of Polyimide-Cu(100) / Ni(100) Adhesion

National University of Singapore, Singapore

- Mesoporous Functional Materials with Highly Ordered Nanoarrays
- Functional Polymers for Applications in Environmental Analytical Chemistry

Nanyang Technological University, Singapore

- Asymmetric Synthesis of Amine Derivatives using Ferrocene-based Chiral Carbocation
- Multi-layered Biodegradable Polymer Structure for Drug Eluting Stents

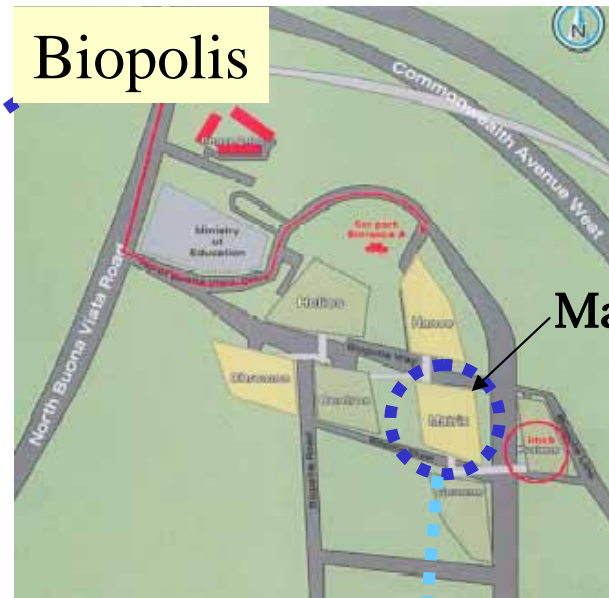
Advances in
Materials & Chemicals

SIS2006 Biopolis

Singapore: One-North



Biopolis



Matrix



Auditorium, Matrix
Capacity: 480

Biopolis

