

SCIENTIFIC SESSION:

INTERNATIONAL SYMPOSIUM: POLYMER AND MATERIALS CHEMISTRY (PM)

Thursday May 22, 2008

1300 - 1700 Registration

Friday, May 23, 2008

0800 - 0900 Registration

0900 - 1000 Opening Ceremony

1030 - 1130 **Plenary 1** (BANYAN HALL)

Chairperson: Prof. C. L. Gajurel

Molecular Beam Studies of Dynamics of Chemical Reactions

Nobel Laureate Professor Yuan T. Lee

Academia Sinica, Taipei, Taiwan

1130 - 1300 **LUNCH**

POLYMER AND MATERIALS CHEMISTRY (PM) (BANYAN HALL)

CHARACTERIZATION (I)

1300 - 1330 Chairperson: Prof. S. C. Kim

Keynote (PM-01)

Thermoplastic Vulcanizates (TPV) by Reactive Compounding of Thermoplastics-Rubber Mixtures: Technology and Morphology-Properties Relationships

Hans-Joachim Radusch

Martin Luther University Halle-Wittenberg, Germany

1330 - 1350 **Invited (PM-02)**

Gel Emulsions with Structured Continuous Phase

Kenji Aramaki

Yokohama National University, Japan

1350 - 1410 **Invited (PM-03)**

Non Adiabatic Thin-Film (Chip) Nanocalorimetry for Fast (10^6 K/s) Scanning Calorimetry

Christoph Schick

University of Rostock, Germany

1410 - 1430 **Invited (PM-04)**

Structural Relaxation in Glassy Polymers Modified by Nano Particles

Jean Marc Saiter

Institut des Matériaux, Faculté des Sciences, Saint Etienne du Rouvray, France

1430 - 1450 **Invited (PM-05)**

Novel Incorporation of Antioxidant for Improve Long Term Aging Resistance

Rani Joseph

Cochin University of Science and Technology Kerala, India

1450 - 1510 **Invited (PM-06)**

Glass Transition in Ultra Thin Polymeric Films Measured by Differential AC-Chip Calorimetry

Heiko Huth

University of Rostock, Germany

1450 - 1520 **COFFEE BREAK**

1520 - 1620 **Plenary 2** (BANYAN HALL)

Chairperson: Prof. T. P. Pathak

Recovery of Gold from e-Wastes by using Biomass Wastes

Katsutoshi Inoue

Saga University, Japan

1620 - 1720 **Plenary 3** (BANYAN HALL)

Chairperson: Prof. V. P. Agrawal

Chemistry for Sustainable Development

S. P. Dhoubhadel

Tribhuvan University, Kathmandu, Nepal

1730 - 2000 **WELCOME RECEPTION**

Saturday May 24, 2008

0900 - 1000 **Plenary 4** (BANYAN HALL)

Chairperson: Prof. G. H. Michler

Nanostructure Characterization in Multilayered Polymer Systems using X-Ray Scattering Methods and Microindentation Techniques

F.J. Baltá Calleja

Instituto de Estructura de la Materia, Madrid, Spain

1000 - 1020 **COFFEE BREAK**

NANOCOMPOSITES

1020 -1050 Chairperson: Prof. Nikos Hadjichristidis (BANYAN HALL)

Keynote (PM-07)

Polymer-Based Nanocomposites: Morphological and Structural Characterization

Valerio Causin

Università di Padova, Italy

1050 - 1120 **Keynote (PM-08)**

Polyurethane/Clay Nanocomposite Materials

Sung Chul Kim

Korea Advanced Institute of Science and Technology, Daejeon, Korea

1120 - 1140 **Invited (PM-09)**

Processing of Composite Nanostructures from Novel Nanomaterials

Toyoko Imae

Keio University, Yokohama, Japan

1140 - 1200 **Invited (PM-11)**

Indentation Methods for Characterizing the Mechanical and Fracture Behaviour of Polymer Nanocomposites

Ralf Lach

Martin-Luther University Halle-Wittenberg, Germany

1200 - 1220 **Invited (PM-12)**

Preparation, Characterization and Properties of Poly (vinyl chloride)/CaSO₄ Nanocomposites

N. G. Shimpi

College of Engineering and Technology, Jalgaon, India

1220 - 1230 **Oral (PM-13)**

Poly (ε-caprolactone) Grafted Dextran Electrospun Matrix: Scaffold for Tissue Engineering

Madhab Prasad Bajgai

Chonbuk National University, Chonju, Korea

1230 - 1240 **Oral (PM-14)**

Polymer Research in Nepal: Present Status and Future Perspectives

Rameshwar Adhikari

Central Department of Chemistry, Tribhuvan University, Kathmandu, Nepal

1240 - 1400 **LUNCH BREAK**

SELF ASSEMBLED AND NANOSTRUCTURED POLYMERS (BANYAN HALL)

1400 - 1430 Chairperson: J. -I. Jin

Keynote (PM-15)

Living Stars: Precursors for Complex Macromolecular Architectures

Nikos Hadjichristidis

University of Athens, Greece

1430 - 1500 **Keynote (PM-16)**

Control of Nanopatterns in Block Copolymer Systems

Hirokazu Hasegawa

Kyoto University, Japan

- 1500 - 1530** **Keynote (PM-17)**
Hydrogen Bonded Supramolecular Polymers: From Controlled Synthesis to Defined Nanostructure Formation
Wolfgang H. Binder
Martin-Luther University Halle-Wittenberg, Germany
- 1530 - 1550** **Invited (PM-18)**
Big Molecules at the Nanometer Scale: Self-Assembling Versus Multifunctionality
Mari Cruz Garcia-Gutierrez
Instituto de Estructura de la Materia, CSIC, Madrid, Spain
- 1550 - 1600** **Oral (PM-19)**
New Phase Separating Poly(Norbornene)-Block Co-Polymers: Synthesis and Characterization of Phase Morphology by SAXS
P. N. Bhanuprathap
Martin-Luther University Halle-Wittenberg, Germany
- 1600 - 1620** **COFFEE BREAK**
- 1620 - 1720** **Plenary 5** **(BANYAN HALL)**
Chairperson: Prof. F. J. Balta Calleja
Application of Zeolites as Advanced Materials
Kyung Byung Yoon
Sogang University, Seoul, Korea
- 1720 - 1735** **Structure and Activities of IUPAC**
Jung-II Jin
President, IUPAC

Sunday May 25, 2008

0900 - 1000 **Plenary 6** **(BANYAN HALL)**

Chairperson: Prof. C. L. Gajurel

Challenges and Visions for Chemistry and Chemists in the 21st Century

Jung-Il Jin

Department of Chemistry, Korea University, Seoul 136-701, Korea

President, IUPAC

1000 - 1020 **COFFEE BREAK**

CHARACTERIZATION (II)

1020 - 1050 Chairperson: Prof. H. J. Radusch **(BANYAN HALL)**

Keynote (PM-20)

Structure-Property Correlations of Nanostructured Polymers and Nanocomposites

Goerg H. Michler

Martin Luther University Halle-Wittenberg, Germany

1050 - 1110 **Invited (PM-21)**

Nondestructive Characterization of Nanoparticles-Polymer Suspensions

R. R. Yadav

University of Allahabad, India

1110 - 1130 **Invited (PM-22)**

Mechanical and Thermal Properties of Polystyrene Crosslinked with a Multifunctional Zirkonium Oxo Cluster

Thomas Koch

Vienna University of Technology, Austria

1130 - 1150 **Invited (PM-23)**

Molecular Characterization of Synthetic Polymers by Size Exclusion Chromatography

Dusan Berek

Polymer Institute of the Slovak Academy of Sciences, Bratislava, Slovakia.

1150 - 1210 **Invited (PM-24)**

High Performance Nanocomposite with Special Reference to Interfacial Adhesion

C. K. Das

Materials Science Centre, Indian Institute of Technology, Kharagpur, India

1210 - 1220 **Oral (PM-25)**

Size Dependent Acoustical Properties of Gan Nanotubes

A. K. Yadav

University of Allahabad, India

1220 - 1230 **Oral (PM-33)**

Study on Thermal, Morphology and Electrical Characteristics of Acrylonitrile-butadiene-styrene (ABS)/CNT Nanocomposites in Presence and Absence of Liquid Crystalline Polymer

T. Ratha,

Materials Science Centre, Indian Institute of Technology, Kharagpur, India

1230-1240 **Oral (PM-34)**

Viscoelastic Micellar Solutions in Mixed Environmentally Friendly Surfactants System

Suraj Chandra Sharma

Tokyo University of Science, Chiba, Japan

1240 - 1250 **Oral (PM-35)**

Acoustical Investigations in Lyotropic Liquid Crystal

Giridhar Mishra

University of Allahabad, India

BIOPOLYMERS AND BIO-BASED POLYMERS

- 1020 - 1050 Chairperson: Prof. T. Imae (SAKURA HALL)
Keynote (PM-26)
New Renewable and Environmentally Friendly Materials through Molecular Modification and Blending of Biorelated Polymers
Francesco Ciardelli
PolyLab-CNR, Pisa, Italy
- 1050 - 1110 **Invited (PM-27)**
Synthesis of Cellulose Derivatives in Ionic Liquids
Werner Mormann
Universität Siegen, Laboratorium f. Makromolekulare Chemie, Germany
- 1110 - 1130 **Invited (PM-28)**
Polymers in Health Care Applications
Golok Bihari Nando
Indian Institute of Technology (IIT), Kharagpur, India
- 1130 - 1150 **Invited (PM-29)**
Organic-Inorganic Nanocomposites: Learning from Nature
Sven Henning
Translational Centre for Regenerative Medicine (TRM), University Leipzig, Germany
- 1150 - 1210 **Invited (PM-30)**
Studies on the Blends of Cardanol-Based Epoxidized Novolac Resins with Different Carboxyl-Terminated Liquid Rubbers-I: Thermal and Morphological Viewpoint
Deepak Srivastava
H. B. Technological Institute, Kanpur, India.
- 1210 - 1220 **Oral (PM-31)**
Conducting Polymer Based Pna Biosensor for M. Tuberculosis Detection
Nirmal Prabhakar
National Physical Laboratory, New Delhi, India
- 1220 - 1230 **Oral (PM-32)**
A Non -oxidative Sensor Based on a Self-Doped Polyaniline/Carbon Nanotube Composite for Sensitive and Selective Detection of the Neurotransmitter Dopamine
Rishi R. Parajuli
The State University of New Jersey, USA
- 1230 - 1400 **LUNCH**
- 1300 - 1400 **Poster Session**

YOUNG CHEMIST AWARDEE LECTURE (YCAL)

- 1400 - 1415 Chairperson: Dr. Shiva Ram Vaidya
YCAL-1
Lead and Cadmium Contents in Organic, Hygienic and Conventional Chinese Kales
Weeraya Karnpanit
Mahidol University, Nakhon Pathom, Thailand
- 1415 - 1430 **YCAL-2**
Theoretical Studies of 1,2-Disubstituted Ethanes and their Analogues
Ponnadurai Ramasami
Department of Chemistry, University of Mauritius, Republic of Mauritius
- 1430 - 1445 **YCAL-3**
Small-Angle X-ray Scattering of Reverse Micelles in Nonaqueous System
Lok Kumar Shrestha
Yokohama National University, Tokiwadai, Yokohama, Japan
- 1400 - 1800 **Local Sight Seeing for Foreign Participants**
- 1800 - 2100 **Dinner**