

PROGRAM

Wed, June 30, 2010

6:00 PM Welcoming reception

Thursday, July 1, 2010

8:30 AM Registration

9:00 AM Welcome/Announcement

Liu group

Department of Chemical Engineering, National Tsing Hua University, Taiwan

9:20 AM Review of Coating Research at Tsing Hua University

Tajo Liu

9:40 AM Operating Window for the Peeling of Polyimide Film

Han-Yi Wang

10:00 AM Coating Die Design for Suspensions

Yu-Yan Lin

10:20 AM Break

Yamamura group

Department of Applied Chemistry, Kyushu Institute of Technology, Japan

10:50 AM Measuring Drying Rate of Mixed Solvent Coating using Heat-Flux Method

Masato Yamamura

11:10 AM Effects of Film Thickness and Composition on Drying Rate of Phase-Separating Coatings

Shosuke Hadara

11:30 AM Transferring Liquid from Model Gravure Cells to a Flat Surface

Yuki Hirahara

11:50 AM **Electrical Properties of Polyimide Precursor-Particle**

Composite Coatings

Hiroki Matsumoto

12:10 PM **Enhanced/Suppressed Drying of Liquid Film Coatings Induced by Cationic Surfactant Addition**

Tetsuo Nasu, Kentaro Taki, Masahiro Ohshima

12:30 PM Lunch

Ahn group

School of Chemical and Biological Engineering, Seoul National University, Korea

2:00 PM **Heterogeneity Control – a New Paradigm of Materials Processing**

Kyung Hyun Ahn

2:20 PM **Characterization of Inks for Inkjet Printing Process**

Ayoung Lee

2:40 PM **Analysis of Ink Transfer in Gravure Printing Process**

Mi Lim Yu

3:00 PM **Break**

Yamaguchi/Inasawa group

Department of Chemical System Engineering, The University of Tokyo, Japan

3:20 PM **Periodic Lateral Crack Formation in Particulate Films during Unidirectional Drying of Silica Colloidal Suspension**

Susumu Inasawa

3:40 PM **Contact Line Behavior and the Formation of Network Structure during Drying of Nanoparticle Suspension**

Kentaro Jin

4:00 PM **Birefringent Particulate Films Formed via Drying of Spherical Colloidal Suspension**

Kouhei Yamaguchi

4:20 PM **Break**

Kim group

Department of Chemical and Biomolecular Engineering, Korea Advanced Institute of Science and Technology, Korea

4:40 PM **Distribution of Dye in a Dye-Encapsulated Silica Particle**

Do Hyun Kim

5:00 PM **Functionalization Effects of Single-Walled Carbon Nanotubes as Templates for the Synthesis of Silica Nanorods**

Kyoung G. Lee

5:20 PM **Introduction to Coating Lab of HNU-KIMM in Manufacturing Innovation Research Institute**

Myung Ho Kim

5:40 PM **Discussions**

6:30 PM **Banquet**

Friday, July 2, 2010

9:00 AM **The coating Research and Precision Coating Industry Trend and Challenge**
Shuzo Fuchigami

Wang group

Institute of Applied Mechanics, National Taiwan University, Taiwan

9:20 AM **Fluid Mechanics – From Traditional to Modern Technology**
An-Bang Wang

9:40 AM **Micro-Two-Phase Flow Generation and Coating Phenomenon of Air-Bubble Coating**
Yu-Wen Hseih

10:00 AM **Development of Capillary Coating Technology and its Application in Silver Conductive Circuit Patterning**
Po-Ting Pan

10:20 AM **Break**

Komoda group

Department of Chemical and Science Engineering, Kobe University , Japan

10:40 AM **Dispersion and Agglomeration of Particles under Unsteady Shear Flow**
Yoshiyuki Komoda

11:00 AM **Comparative Study on Drying Processes of Emulsion and Suspension Coated Films**
Kohei Niga

11:20 AM **Break**

Jung group

Department of Chemical and Biological Engineering, Korea University, Korea

11:40 AM **Dynamics of Single Polymer Molecules in Slot Coating and Micro-Channel Flows**

Jeong Yong Lee

12:00 PM **Theoretical Studies on Stability and Sensitivity in Slot and Curtain Coating Flows**

Si Hyung Lee,

12:20 PM **Closing**

12: 40 PM **City Tour**

7: 00 PM **Farewell Party**