

Program

Program at a glance

	Morning	Afternoon	Evening
May 7 (Wed)			Welcome Reception
May 8 (Thu)	Topical Session I "Printed Electronics"	Topical Session II "Novel Experimental and Simulation Techniques"	Faculty meeting
			International Student Tour
May 9 (Fri)	Student Session Short time oral & Poster presentations		Banquet

Program

May 7 (Wednesday)

18:00~ Welcome Reception

May 8 (Thursday)

8:00~ Registration

9:00~ Welcoming Address/Announcement

Session I "Printed Electronics"

Invited Talk (Session Chair: Prof. Yoshiyuki Komoda)

9:20~ Solution-processed organic thin-film transistors
Masatoshi Kitamura
(Kobe University, Japan)

Session I-1 (Session Chair: Prof. Ying-Chih Liao)

9:50~ Fully Gravure Printed Thin Film Transistor Based Electronic Devices for The Ubiquitous Society
Gyoujin Cho
(Sunchon National University, Korea)

10:10~ Self-assembly of conjugated molecules in drying polymeric solutions: a photoluminescence study
Y. Amano and Masato Yamamura
(Kyushu Institute of Technology, Japan)

10:30~ Nanostructure and Properties of Organic and Inorganic Semiconductor Films by Solution Processes
Yoshiko Tsuji and Y. Yamaguchi
(The University of Tokyo, Japan)

10:50~11:10 Coffee Break

Session I -2 (Session Chair: Prof. Kentaro Taki)

11:10~ Printing Technology for Biomedical and Electronic Devices

Ying-Chih Liao

(National Taiwan University, Taiwan)

11:30~ Uniform coating of conductive nanomaterials on cellulose nanofiber paper through a papermaking process

Hiroataka Koga, M. Nogi and K. Suganuma

(Osaka University, Osaka, Japan)

12:10~ Porous electrode evaluation for the optimization of fabrication process of secondary battery and fuel cell

Gen Inoue

(Kyoto University, Japan)

12:10~13:30 Lunch

Topical Session II ~ Novel Experimental and Simulation techniques ~

Session II-1 (Session Chair: Prof. Yoshiko Tsuji)

13:30~ Recent Development on the Coated Optical-Electronic and Biomedical Products at Tsing Hua University

Ta-Jo Liu

(National Tsing Hua University, Taiwan)

13:50~ Numerical simulation of UV additive printing system

Kentaro Taki, Y. Watanabe, H. Ito, and M. Ohshima

(Yamagata University, Japan)

14:10~ Analysis of slot coating flow under tilted die

Semi Lee and J. Nam

(Sungkyunkwan University, Korea)

14:30~ Visualization of coating flows for a new multi-layer slot coater

Yi-Kuang Yen, T. L. Chen and A-B Wang

(National Taiwan University, Taiwan)

14:50~15:20 Coffee Break

Session II-2 (Session Chair: Prof. Jaewook Nam)

15:20~ Glassy layer formation and strain development during drying of polymer coatings
Madhu Vinjamur and D. Shah
(Indian Institute of Technology, Bombay, India)

15:40~ Non-equilibrium phase transition of colloidal paste in the process of mixing and kneading
Yukio Yamaguchi and O. Koike
(The University of Tokyo, Japan)

16:00~ Direct numerical simulation of breakup of fine particle aggregates under simple shear
Osamu Koike, T. Yagi, R. Tatsumi and Y. Yamaguchi
(The University of Tokyo, Japan)

16:20~ Simulation model of colloidal dispersions with solute transport and adsorption onto the particle surface
Rei Tatsumi, O. Koike and Y. Yamaguchi
(The University of Tokyo, Japan)

16:40 End of the first day

16:40~ 1) Faculty meeting
 2) International Student City Tour

May 9 (Friday)

Student Session

Morning session (Session Chair: Prof. Susumu Inasawa and Prof. Osamu Koike)

9:00~ Short oral presentations (3min each)

- PO1 Periodic stress oscillation in co-solvent nanoparticle suspensions
Eunhye Jang, Y. Mawatari, H. Kage and M. Yamamura
(Kyushu Institute of Technology, Japan)
- PO2 Formation of Stripe Structures of Silica Particles by Convective Self-Assembly Method
Riho Kitagawa, R. Sakamoto, K. Tsuchiya and Y. Mori (Doshisha University, Japan)
- PO3 Effect of line speed on curing behavior of UV curable resin in Roll to Roll UV nanoimprint process
Shunsuke Kondo, T. Takayama, K. Taki and H. Ito (Yamagata University, Japan)
- PO4 Formation dynamics of small molecular / polymer hybrid thin films for organic light emitting diodes
Hironori Kon, Y. Tsuji and Y. Yamaguchi (The University of Tokyo, Japan)
- PO5 Drying of two-layer polymeric films with interfacial mixing
Yudai Kawashima, H. Kage, Y. Mawatari and M. Yamamura
(Kyushu Institute of Technology, Japan)
- PO6 Drying of oil-in-water emulsions containing liquid crystalline phases
Michinori Okamoto, H. Kage, Y. Mawatari and M. Yamamura
(Kyushu Institute of Technology, Japan)
- PO7 Characterization of Indium-Gallium-Zinc-Oxide Thin-Films by Wet Process
Katsutoshi Moriya, Y. Tsuji and Y. Yamaguchi (The University of Tokyo, Japan)
- PO8 Effect of catalyst ink preparation on performance of PEFC with carbon core structure
Shohei Baba, G. Inoue and M. Kawase (Kyoto University, Japan)
- PO9 Frequency response analysis of sloped slot die lip system
Won-Gi Ahn, S. H. Lee, H. S. Ji, J. Nam and H. W. Jung (Korea University, Korea)

- P10 The Effect of Film Thickness on the Depth-wise Microstructure of Rod-shaped Polyimide
Byoung Wook Jo and K. H. Ahn (Seoul National University and SK Innovation, Korea)
- P11 The mechanism of latex migration in battery slurry during drying: Effect of microstructure
of slurry
Sanghyuk Lim, S. J. Lee and K. H. Ahn (Seoul National University, Korea)
- P12 Dynamic Contact Angle and the Transfer Ratio of a Stretching Liquid Bridge between Two
Separating Plates
Yu-Chih Chang and Y-C Liao (National Taiwan University, Taiwan)
- P13 An Experimental Study on Coating Silver-Nanowires
Hung-Chih Chen, T-J Liu and S-L Kuo (National Tsing Hua University, Taiwan)
- P14 Fabrication of a Multiple-layered Organic Light-emitting Diodes by Wet Process
Chun-Ning Chang Chien and T-J Liu (National Tsing Hua University, Taiwan)
- P15 Solution-processed Single Emission Layer Orange Phosphorescent Organic Light-Emitting
Devices using Mixed Host Systems.
Chang-Ting Chung and T-J Liu (National Tsing Hua University, Taiwan)
- P16 Lamination for a Viscous Liquid Layer
Tan Fan and T-J Liu (National Tsing Hua University, Taiwan)
- 10:00~ Poster Session with Coffee break
- 12:00~13:30 Lunch

Afternoon Session (Session Chair: Prof. Madhu Vinjamur and Prof. Gen Inoue)

13:30~ Short oral presentations (3min each)

- P17 Influence of Mixing and Kneading Process during Electrodes Preparation to the Performance of Lithium-ion Batteries
Takahiro Miura, S. Inasawa, Y. Tsuji and Y. Yamaguchi (The University of Tokyo, Japan)
- P18 Direct thickness measurement of doctor-bladed liquid film on gravure roll surface
Hidenobu Miura and M. Yamamura
(Kyushu Institute of Technology and Fuji Kikai Kogyo, Japan)
- P19 Coating of Poly(vinyl alcohol) Hydrogel on Paper by Using Ink Jet Printer for Cell Culture
Tithimanan Srimongkon and T. Enomae (University of Tsukuba, Japan)
- P20 Change of propagation and termination kinetic constants with temperature and molecular chain length of UV curing resin
Takehiro Taguchi, T. Takayama, K. Taki and H. Ito (Yamagata University, Japan)
- P21 Vapor-induced phase separation in acrylic monomer solution films
Hirokazu Ohya, Y. Mawatari, H. Kage and M. Yamamura
(Kyushu Institute of Technology, Japan)
- P22 Particle Accumulation Analysis of Latex Dispersion in a One-dimensional Drying Process
Hiroki Okada, Y. Komoda, H. Suzuki and R.i Hidema (Kobe University, Japan)
- P23 Microrheological investigation on the local drying behavior of dilute polymer solutions
Yudai Tanaka, Y. Komoda, H. Suzuki and R. Hidema (Kobe University, Japan)
- P24 The effect of sinusoidal disturbances on the sensitivity in dual-layer slot coating flow
Ho Suk Ji, W-G Ahn and H. W. Jung (Korea University, Korea)
- P25 Dip coating flow analysis: wetting and confinement
Onyu Kim and J. Nam (Sungkyunkwan University, Korea)
- P26 Effect of ink viscoelasticity on the stability of Taylor cone jet
Milim Yu and K. H. Ahn (Seoul National University, Korea)

- P27 Development of a Stripe Slot Die Coater for Precision Coating
Shu-Hung Lai, Y-W Hsieh, Y-K Yen and A-B Wang (National Taiwan University, Taiwan)
- P28 The Development of an Large-area Organic Light-Emitting Diodes (OLED) Panel with Spin
Coating Method
Shao-Hsuan Lo and T-J Liu (National Tsing Hua University, Taiwan)
- P29 The Establishment of Calcium Test for Gas Barrier Film
Yi-Hui Lu and T-J Liu (National Tsing Hua University, Taiwan)
- P30 Poly(Glycerol Sebacate) Film making Process
Erh-Yeh Tsou and T-J Liu (National Tsing Hua University, Taiwan)
- P31 Metallized Carbon Nanotube Coatings for Transparent Conductive Thin Films
Po-Hsuan Wang, Y-S Li, W-H Chiang and Y-C Liao (National Taiwan University, Taiwan)
- 14:30~ Poster Session with Coffee break
- 16:30 End of the second day
- 18:00~ Banquet (Rokkosan Hotel)