

Program overview

	May 8 (Wed)	May 9 (Thu)	May 10 (Fri)
Morning		Plenary talk & Professor session	Professor session
Afternoon	Registration	Student short oral & poster session	Excursion for students and professors
Evening	Welcome reception	Student activity & Faculty meeting	Banquet

Detailed Program

May 8 (Wed)

Hoam Faculty House Convention Center, Magnolia Hall (목련홀)

17:00~ **Registration**

19:00~21:00 **Welcome Reception**

May 9 (Thu)

Hoam Faculty House Convention Center, Magnolia Hall (목련홀)

09:00~09:20 Opening address / Announcements
Kyunghyun Ahn
(Director of Center for Coating Materials and Processing / Seoul National University, Korea)

Plenary Talk

09:20~10:00 Protecting layer coating on various devices through spatial
atmospheric atomic layer deposition for life time enhancement
Kyung-Hyun Choi
(Jeju National University, Korea)

Long Oral Session

10:00~10:20 Detailed structural control of organic films prepared by a solution
process to realize highly efficient organic light emitting diodes
Enju Sakai
(The University of Tokyo, Japan)

10:20~10:40 Recent studies on printing technology development at Department
of Chemical Engineering, National Taiwan University
Ying-Chih Liao
(National Taiwan University, Taiwan)

10:40~11:00 **Coffee Break**

11:00~11:20 Anti-thixotropic fluids in coating process
Masato Yamamura
(Kyushu Institute of Technology, Japan)

11:20~11:40 Film formation process of latex film accompanied by coupling reaction
Yoshiyuki Komoda
(Kobe University, Japan)

11:40~12:00 Drying, packing and formation of packed layers of particles from various colloidal suspensions
Susumu Inasawa
(Tokyo University of Agriculture and Technology, Japan)

12:00~13:30 **Lunch**

Student Short Oral Session

(5mins each, with 1min break in between)

13:30~13:35 **(P01)** Titanium dioxide thin films for perovskite solar cell devices deposited with ultrasonic spray method
Tsubasa Shibata
(The University of Tokyo, Japan)

13:36~13:41 **(P02)** Formulation of 3D-Printable Resin with High Conductivity
Shang-Cheng Tsai
(National Taiwan University, Taiwan)

13:42~13:47 **(P03)** Effect of Rheological Properties of TiO₂ Slurry on Gravure Printing Process
Ryuki Yamamoto
(Kobe university, Japan)

13:48~13:53 **(P04)** Analysis anti-fouling mechanism of patterned surface using Lattice Boltzmann simulation
Giwook Lee
(Korea University, Korea)

- 13:54~13:59 **(P05)** Application of polycarbonate diol with hindered urea to polyurethane-based clearcoat systems for tuning scratch-healing properties
Donggeun Lee
(Korea University, Korea)
- 14:00~14:05 **(P06)** Evaluation of heat resistance of ternary UV cured resin
Ayumi Nishimura
(Kanazawa University, Japan)
- 14:06~14:11 **(P07)** Effects of truncated domain size on the computation of blade coating
Hyungjoo Yim
(Seoul National University, Korea)
- 14:12~14:17 **(P08)** Drying Mechanism of Latex Film
Hiroaki Tanaka
(Kobe University, Japan)
- 14:18~14:23 **(P09)** Impact of slot die geometry on the coating window of two-layer slot coating process
Hyungyeol Kwak
(Seoul National University, Korea)
- 14:24~14:29 **(P10)** Roles of water wettability of particles on drying of particle-stabilized water droplets immersed in oil
Kohei Abe
(Tokyo University of Agriculture and Technology, Japan)
- 14:30~14:35 **(P11)** Effect of Silica Nanoparticle and Ionic Liquid on the Poly (ethylene oxide) - based SPEs and Suspensions
Sunkyung Kim
(Pusan National University, Korea)
- 14:36~14:41 **(P12)** Synthesis of red light emitting Si nanoparticles in liquid phase
Keiichiro Ishihara
(The University of Tokyo, Japan)

- 14:42~14:47 **(P13)** Numerical analysis of microfluidic passive mixer with herringbone patterns
Minho Lee
(Seoul National University, Korea)
- 14:48~14:53 **(P14)** Mathematical model of drying film in high Peclet number region
Taehyung Yoo
(Korea University, Korea)
- 14:54~14:59 **(P15)** Numerical simulation on capillary suspension using coarse grained potential for describing interaction between particle and fluid droplet
Jinhwan Choi
(Seoul National University, Korea)
- 15:00~15:20 **Coffee Break**
- 15:20~15:25 **(P16)** Critical cracking thickness of particle dispersion films containing liquid crystal phases
Ryousuke Shitada
(Kyushu Institute of Technology, Japan)
- 15:26~15:31 **(P17)** Operability windows of dual-layer slot coating processes for shear-thinning liquids
Jinseok Park
(Korea University, Korea)
- 15:32~15:37 **(P18)** Self-assemble Silver Nanoplates Thin Films
Yi-Chin Lai
(National Taiwan University, Taiwan)
- 15:38~15:43 **(P19)** Numerical analysis of flow rate disturbances inside a coating die manifold
Heechan Jung
(Seoul National University, Korea)

- 15:44~15:49 **(P20)** Effect of Flocculated Cluster Size and Aggregation Degree of Polyvinyl Alcohol/Silver Nanowire Suspensions on Rheological and Electrical Properties
Suyeon Kim
(Pusan National University, Korea)
- 15:50~15:55 **(P21)** Light-driven solvent transport in acrylic coatings with reaction-induced phase separation
Tomoki Ogata
(Kyushu Institute of Technology, Japan)
- 15:56~16:01 **(P22)** Grid Pattern Formation in Blade Coating: Spanwise pattern
Onyu Kim
(Sungkyunkwan University, Korea)
- 16:02~16:07 **(P23)** Rheological and mechanical observation on radical and urethane dual curable clearcoats during low temperature curing process
Kevin Injoe Jung
(Korea University, Korea)
- 16:08~16:13 **(P24)** Experimental evaluation of fiber attrition behavior in twin screw extruder and prediction based on Hele-Shaw simulation
Yuya Obata
(Kanazawa University, Japan)
- 16:14~16:19 **(P25)** Controlling the distribution of small particles using capillary force in suspension
Jieun Park
(Seoul National University, Korea)
- 16:20~17:20 **Poster Session**
- 18:00~ **Student activity @ Yeouido, Banpo Hangang Park**
Faculty meeting @ Seoul National University Faculty Club

May 10 (Fri)

Hoam Faculty House Convention Center, Magnolia Hall (목련홀)

Announcements

09:00~09:10 **Jaewook Nam**
(Seoul National University, Korea)

Long Oral Session

09:10~09:30 Effect of silica nanoparticles (SiNPs) and coating conditions on electrical properties of polyvinyl alcohol (PVA)/silver nanowire (AgNW) conductive films
Kyu Hyun
(Pusan National University, Korea)

09:30~09:50 Recent studies on particle dynamics in suspension coating and drying processes
Hyun Wook Jung
(Korea University, Korea)

09:50~10:10 **Coffee Break**

10:10~10:30 Electrical conductivity analysis for networks of conducting rods
Dongjae Kim
(Seoul National University, Korea)

10:30~10:50 Thin-film formation flows and impact of rheological properties on the operating limits in coating processes
Jaewook Nam
(Seoul National University, Korea)

10:50~11:10 Scaling relationship between UV intensity and gelation time for insight into the cross-linked network structure of photopolymerized multifunctional monomers
Kentaro Taki
(Kanazawa University)

11:10~11:40 **Closing address, Photo session**

11:40~12:40 **Lunch**

12:40~18:30 **Excursion for professors and students**

18:30~ **Banquet @ Olbaan Premium, Central City (올반 프리미엄
센트럴시티점)**