

Agenda

This is a preliminary agenda and is subject to change.

Wednesday - June 11, 2025

12:45-17:00	Tomakomai CCS Demonstration Site Tour
17:00-19:00	Registration <i>Location: Exchange Lobby, Hokkaido University Conference Hall</i>

Thursday - June 12, 2025

9:00-9:20	Welcome Coffee Registration <i>Location: Exchange Lobby, Hokkaido University Conference Hall</i>
-----------	--

Opening *Location: Main Hall*

Chair Prof. Yoshiko Tsuji, The University of Tokyo, Japan

9:20	Opening remarks Prof. Yoshiko Tsuji, Chair of ACW2025, The University of Tokyo
9:25	Welcome address Prof. Hiroki HABAZAKI, Dean, Faculty and School of Engineering, Hokkaido University

Technical Session Professor Oral *Location: Main Hall*

Chair Prof. Yi-Ju Chou, National Taiwan University, Taiwan

9:30 PO-01	A25-2 Recent advances in sustainable and functional printing materials for wearable sensors Prof. Ying-Chih Liao, National Taiwan University, Taiwan
9:48 PO-02	A25-45 Development of rheological data-driven constitutive models of complex fluids Dr. Takeshi Sato, Kanazawa University, Japan
10:06 PO-03	A25-25 Understanding the rheology-microstructure-performance relationship in electrode slurry processing Prof. Seon Yeop Jung, Dankook University, Korea

10:24-10:36 **Coffee Break** *Location: Exchange Lobby*

Technical Session Student Oral *Location: Main Hall*

Chair Prof. Seon Yeop Jung, Dankook University, Korea

10:36 SO-01	A25-14 Establishment of a standard operating procedure for the measurement of droplet adhesion forces Hsi-Hsuan Huang, National Taiwan University, Taiwan
10:46 SO-02	A25-35 Impact of PVP molecular weight on electrode fabrication: dispersion, microstructure, and electrochemical evaluation Cheolheon Hyun, Seoul National University, Korea
10:56 SO-03	A25-39 Edge-profile control in thick-film slot-die coating process Kyengmin Min, Seoul National University, Korea

11:06 SO-04	A25-10 In-situ observation and its evaluation of bending glass substrate induced by packing of colloidal particles Kanne Ando, Tokyo University of Agriculture and Technology, Japan
11:16 SO-05	A25-3 Laser-induced carbonization for biodegradable electrode fabrication Pei-Xuan Hong, National Taiwan University, Taiwan
11:26 SO-06	A25-12 Evaluating anode slurry macrostructure via EIS and USANS Chan Hyeok Ahn, Seoul National University, Korea
Technical Session Short Presentation for Poster Session <i>Location: Main Hall</i>	
Chair Dr. Takeshi Sato, Kanazawa University, Japan	
11:26-12:00	1-min Presentations
P-01	A25-4 Direct printed wearable strain sensor for early extravasation detection Yun Hsuan Lin, National Taiwan University, Taiwan
P-02	A25-5 Numerical investigation of flow effects on antibody-antigen binding efficiency in thin-film immuno-coating Jen-Yu Hu, National Taiwan University, Taiwan
P-03	A25-8 Rheo-impedance behavior of inkjet inks during the drying process Tomomi Wataya, Anton Paar Japan K.K., Japan
P-04	A25-11 Concentration distribution in drying suspensions with and without backflow Taiki Ichikawa, Tokyo University of Agriculture and Technology, Japan
P-05	A25-13 Stability and aggregation of droplets stabilized by plate-particles Rentaro KINUKAWA, Tokyo University of Agriculture and Technology, Japan
P-06	A25-16 Prediction of glassy region thickness during drying of polymer solution coatings Kouki Koike, Kyushu Institute of Technology, Japan
P-07	A25-17 Measurement of critical crack thickness during drying of two-layer suspension coating Mai Nomura, Kyushu Institute of Technology, Japan
P-08	A25-18 Effect of coating roll speed on flow behavior in slot-coating die system Keigo Sato, Kanazawa University, Japan
P-09	A25-19 Effect of IR heater on drying rate of wet material in convection oven Hyuga Miyamura, Kanazawa University, Japan
P-10	A25-21 Development of ceramic membranes for membrane distillation by alkoxide treatments Miwa Taguchi, The University of Tokyo, Japan

P-11	A25-22 Pseudo-azeotropic compositions of Nafion-water propanol solutions Mao Komi, Kyushu Institute of Technology, Japan
P-12	A25-23 Particle packing density in cellulose nanocrystal-silica composite coatings Kenshin Takata, Kyushu Institute of Technology, Japan
P-13	A25-24 Structural formation of CsSnBr₃ perovskite thin films by spray deposition Taejune Kim, The University of Tokyo, Japan
P-14	A25-26 Modeling of complex fluid behavior in slurry coating process using Immersed Boundary Lattice Boltzmann Method Gwanhee Jeong, Seoul National University, Korea
P-15	A25-28 Packing of anisotropic particles in drying Yuki Ishiyama, Kyushu Institute of Technology, Japan
P-16	A25-29 Evaluation of the internal structure of aqueous dense slurry of conductive additives for lithium-ion batteries Ryusei Soyama, Kobe University, Japan
P-17	-
P-18	A25-32 Control of interparticle interaction through grafting of pH-responsive polymers onto nanoparticle surface Yu Jin Kim, Korea University, Korea
P-19	A25-33 Crosslinking and self-healing properties of disulfide-urethane dual-crosslinked coating films SeungKi Lee, Korea University, Korea
P-20	A25-34 Simulation of polymer electrolyte fuel cell catalyst ink and cell performance Yuki Saito, Kyushu University, Japan
P-21	A25-37 Effect of slurry composition and coating conditions on electrochemical performance and relate with heavy edge in lithium-ion battery anodes Kimin Kim, Soonchunhyang University, Korea
P-22	A25-42 Image-based quantitative analysis of dispensing pattern stability Chi-Jan Fang, National Taiwan University, Taiwan
P-23	A25-43 Visual quantitative analysis and key factor identification of heavy edge formation in lithium-ion battery electrode coating Haegeon Lee, The university of Soonchunhyang, Korea
P-24	A25-44 Sedimentation behavior analysis of cathode slurry for lithium-ion batteries using an oscillation viscometer Kotaro Fujita, Kobe University, Japan

12:00-13:15	Lunch <i>Location: Main Hall (Pick up lunch box at Exchange Robby)</i>
Technical Session Keynote Lecture <i>Location: Main Hall</i>	
Chair Prof. Susumu Inasawa, Tokyo University of Agriculture and Technology, Japan Prof. Jaewook Nam, Seoul National University, Korea	
13:15 KY-01	About Drying, Diffusion & Interdiffusion in Multicomponent Coatings Prof. Wilhelm Schabel, Thin Film Technology, Material Research Center for Energy Systems, Karlsruhe Institute of Technology, Germany
13:45 KY-02	Low-Temperature Sintered Conductive Pastes Based on Copper Nanoparticles: Development and Applications Prof. Tetsu Yonezawa, Division of Materials Science and Engineering, Faculty of Engineering, Hokkaido University, Japan
14:15 KY-03	Coating Technologies for Next Generation Solar Cells Dr. Masahide Kawaraya, National Institute of Advanced Industrial Science and Technology, Japan
Technical Session Poster Presentation <i>Location: Exchange Lobby</i>	
14:45-15:15	odd numbered presentation
15:15-15:45	even-numbered presentation
Networking Session by Sponsored Companies <i>Location: Exchange Lobby</i>	
14:45-15:45	
Technical Session Industry Oral <i>Location: Exchange Lobby</i>	
Chair Dr. Kohei Abe, Okinawa Institute of Science and Technology Graduate University, Japan	
15:45 IO-01	A25-40 Research on the behavior and influencing factors of the “solution-gel-glass transition” three-state transformation during the drying stage of linear polymer solution coatings Ming Peng, China Academy of Printing Technology, China
16:00 IO-02	A25-1 The study of bar coating thickness and ribbing instability limit Nobuo Hamamoto, AndanTEC, Japan
16:15 IO-03	A25-41 Application of slot die coating in the preparation process of perovskite thin film solar cells Lianhua Li, China Academy of Printing Technology, China
16:30 IO-04	A25-6 Roll-to-roll coating machine for perovskite solar cells Takanobu Hira, HIRANO TECSEED Co., Ltd., Japan
16:45 IO-05	A25-36 Relationship between the rheological properties and structure of suspensions: A numerical investigation Rei Tatsumi, Products Innovation Association, Japan
Banquet <i>Location: Asahi Beer Garden</i>	
18:00	

Friday - June 13, 2025

Technical Session Professor Oral *Location: Main Hall*

Chair Prof. Hyun Wook Jung, Korea University, Korea

9:00 PO-04	A25-9 In-situ measurement of drying complex solutions Prof. Susumu INASAWA, Tokyo University of Agriculture and Technology, Japan
9:18 PO-05	A25-15 Effect of ethanol on the rheological behavior and drying process of lithium-ion battery anode slurries Prof. Kyu Hyun, Pusan National University, Korea
9:36 PO-06	A25-46 Drying of electrochemical CO2 reduction electrode Prof. Masato Yamamura, kyushu institute of technology, Japan
9:54 PO-07	A25-20 Fundamental research project of coating and drying process launched Prof. Kentaro Taki, Kanazawa University, Japan
10:12-10:30	Coffee Break <i>Location: Exchange Lobby</i>

Technical Session Professor Oral *Location: Main Hall*

Chair Prof. Ying-Chih Liao, National Taiwan University, Taiwan

10:30 PO-08	A25-31 Recent studies on particle dynamics in suspension coating flows and drying processes Prof. Hyun Wook Jung, Korea University, Korea
10:48 PO-09	A25-7 Deformation and coalescence of monodispersed droplets in a drying suspension Dr. Kohei Abe, Okinawa Institute of Science and Technology Graduate University, Japan
11:06 PO-10	A25-47 Stress evolution in the drying coating layer of latex-silica dispersions Prof. Yoshiyuki Komoda, Kobe University, Japan
11:24 PO-11	A25-27 Mixing and coating processes for lithium-ion battery anode slurries: Rheology, defect structures, and the statistical analyses Prof. Dongjae Kim, Soonchunhyang University, Korea

Closing *Location: Main Hall*

Chair Prof. Yoshiyuki Komoda, Kobe University, Japan

11:42	Poster Awards Ceremony
11:52	Announcement Prof. Ying-Chih Liao, National Taiwan University, Taiwan
11:55	Closing remarks Prof. Masato Yamamura, kyushu institute of technology, Japan
12:30-13:30	Lunch <i>Location: Off-campus</i>