

DPS2025 Timetable (tentative)

November 13 (Thu)		November 14 (Fri)	
8:10	Registration	8:10	Registration
8:20			
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9:00	Opening Remark / Award Ceremony	9:00	Session F AS2. Atomic layer processes (ALE/ALD/ASD) for ultimate control of surface reaction
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9:50	Nishizawa Award Lecture Masaru Izawa (Hitachi High-Tech Corporation) "Understanding Plasma Etching Processes through Surface Reaction Models"	9:40	F-3 N. Tamaaki (Univ. of Tokyo) "Simulation-Based Prediction of Metal-ALD Growth per Cycle using Molecular Dynamics with Neural Network Potentials"
10:00			
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Break 10min		Break 20min	
10:20	A-1 <Invited> Sung-Il Cho (Samsung Electronics Co., Ltd.) "Breaking new ground : From current progress to future innovations in HARC etching technology"	10:20	Session G Computational Approaches (Modeling, Simulation, Machine Learning, AI, Informatics, DX) for Dry Process
10:30			
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11:10	A-2 <invited> Thorsten Lill (Lam Research Corporation) "Ion scattering during cryo etching of silicon oxides and nitrides"	11:00	G-3 Y. Ando(Nagoya Univ.) "Atomistic Origins of Stress in Amorphous Carbon Films: A First-Principles Investigation"
11:20			
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12:00	Poster Session Day1 (80min)	12:00	Poster Session Day2 (80min)
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13:40	Lunch Break 13:00-14:20 (80min)	13:40	Lunch Break 12:40-14:00 (80min)
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15:20	B-1 J. Hoang (Lam Research Corp.) "Deposition and Etch Co-Optimization for Merged 3D NAND Memory Hole and Interlayer Dielectric Contact Etches"	15:20	Session H AS3. Dry process technology for 3D-IC and advanced packaging
15:30			
15:40			
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16:10	B-2 T.Kurushima (Nagoya Univ.) "Effect of Gas-Phase Radical Composition Ratio on Cfx Sticking Probability in High-Aspect-Ratio Holes"	16:10	H-2 <Invited> Chulhyun Lim (Samsung Electronics Co., Ltd.) "Packaging Innovations: Leveraging the dry etch process for Hybrid Copper Bonding die singulation"
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17:00	B-3 K. Tanaka (Daikin Industries, Ltd.) "Novel Additive Gas Development for HF-based Cryogenic HAR Dielectric Etching using Digital Twin"	17:00	Break 20min
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17:50	C-1 M. Sekine (Nagoya Univ.) "Role of H2O in SiO2 cryogenic etching using HF plasma"	17:50	Session I New Dry Process Concepts
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18:40	D-1 D. Kim (Nagoya Univ.) "Quantitative evaluation of the influence of ion-neutral collisions in the sheath on ion angular distributions"	18:40	Break 20min
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19:30	E-1 <invited> Vincent M. Donnelly (University of Houston) "Mechanistic Insights and New Approaches to Atomic Layer Etching of Silicon in Chlorine and Bromine-Containing Plasmas"	19:30	Session J Surface Reaction and Damage
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20:20	E-2 M. Fukasawa (AIST) "Plasma-surface interactions of extreme ultraviolet photoresist in atomic layer etching processes"	20:20	Session K Deposition Technologies (CVD / PVD)
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21:10	E-3 M. ADJABI (Univ. of Orleans) "Cryogenic Atomic Layer Etching of MoS2 using Cyclic Fluorocarbon and Argon plasma"	21:10	Closing Remarks
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22:00	E-4 L. Ghorbani (Ku Leuven and imec) "ALE and Pulsed ALE of Mg-based Oxide Semiconductors (MgZnO) at Sub-100 nm Pitches Using Ru Hard Mask"	22:00	
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