	Time		Room A (Capri Room, 2F)	Room B (Grand Ballroom 1, 2F)	Room C (Grand Ballroom 2, 2F)	Room D (Grand Ballroom 3, 2F)	Room E (Sidney Room, 2F)	Room F (Sicily Room, 1F)	2F Lobby
			Tutorial 1				Tutorial 2		
Nov. 19			Session Chair: Jeonglim Nam (Hanyang Univ.)				Session Chair: Se Hun Kwon (Pusan Nat'l Univ.)		
(Sun.)	15:00	- 18:00	Jeongdong Choe (TechInsights)				Prof. Il-Kwon Oh (Ajou Univ.)		
			Memory Process and Materials Technology: DRAM, NAND,				Atomic Layer Deposition and Area-Selective Deposition in		
			Emerging Memory				Semiconductor Process		
	18:30	- 20:00			Welcome Re	ception (Sicily Room, 1F)			

Time		Room A (Capri Room, 2F)	Room B (Grand Ballroom 1, 2F)	Room C (Grand Ballroom 2, 2F)	Room D (Grand Ballroom 3, 2F)	Room E (Sidney Room, 2F)	Room F (Sicily Room, 1F)			
10:00	- 10:45	Plenary Session I (Capri Room, 2F) "Memory Technology Innovation for the New Al Era" SVP. Hsup Jin (Sk Pynis, Korea)								
10:45	- 11:00			Coffee Brea	ık (2F Lobby)					
11:00	- 11:30				and Ballroom 1, 2, 3, 2F)					
11:30	13:00 MA1 MB1 MC1 MD1 ME1									
		Advanced Atomic Scale Thin Films I	Power Device I	Advanced Ceria-abrasive based CMP	Novel Etch Technology	EUV Lithography I	Frontier Metrology and Modeling I			
		Session Chair: Hyeongtag Jeon (Hanyang Univ.)	Session Chair: Ogyun Seok (Kumoh Nat'l Inst. of Tech.)	Session Chair: Tae Dong Kim (Hannam Univ.)	Session Chair: Gottlieb S. Oehrlein (Univ. of Maryland)	Session Chair: Sangsul Lee (POSTECH)	Session Chair: Tae-Hun Shim (Hanyang Univ.)			
		[13:00-13:30] Invited (30') Yukihiro Shimogaki (The Univ. of Tokyo) 01_1269 Development of Material Systems and Processes for Highly-	[13:00-13:20] Invited (20') Kevin Kyoheon Cho (onsemi) 07_1010 Low Turn-On Voltage Silicon Carbide Diode	[13:00-13:20] Invited B (20') Satoyuki Nomura (Resonac) 02_1026 Polishing Mechanism on Ceria/SiO ₂ Interface	[13:00-13:20] Oral (20') Jiwon Jung (Hanyang Univ.) 03_1253 Low-Energy Electron Beam Assisted Etching in Inductively	[13:00-13:30] Invited (30') Takeo Watanabe (Univ. of Hyogo) 04_1298 EUV R&D Activity at New SUBARU	[13:00-13:45] Plenary (45') Victor M. Blanco Carballo (imec) Patterning and Metrology Challenges in EUV Lithography			
		[13:30-14:00] Invited (30') Chunhyung Chung (Samsung Electronics Co., Ltd.) 01_1153 The Advancements of Atomic Scale Interface Engineering for	[13:20-13:40] Invited (20') Han Seok Seo (RIST)	[13:20-13:40] Oral (20') PII-Su Kim (Hanyang Univ.) 02_1184 Remarkable SIO_Film Polishing-Rate Enhancement Using Wet-Ceria-Abrasives Based Chemical-Mechanical-	Coupled Plasma [13:20-13:40] Oral [20'] MunPyo Hong (Korea Univ.) 03_1179 Reactive Proton Assisted Etching for Cu and Ni Alloy Dry Etching	13:30-14:00] Invited (30') Sangsul Lee (POSTECH) 04_1173 Synchrotron Based Actinic EUV Metrology and Inspection Technologies	13:45-14:15] Invited (30') Seong Oh Kim (Park Systems) 06_1004 Advancing Semiconductor Research with AFM: High- Resolution Imaging, Precise Measurements, and Failure			
13:00	- 14:40	High Quality Dielectric Thin Films [14:00-14:20] Invited (20") Hao Van Bul (Phenikas Univ.) 01_1293 Spontaneous Surface Reactions in Atomic Layer Deposition of Platinum Using Atomic Hydrogen as a Reactant	[13:40-14:00] Oral (20') Hyowon Yoon (Kumoh Nat'l Inst. of Tech.) 07_1092 Design of A 1.2 kV SIC MOSFET with Buried Oxide for Improved Gate Charge Characteristics	Planarization Slurry and Radical Oxidation [13:40-14:00] Oral (20') Sungmin Kim (Hanyang Univ.) 02-1262 Ce ³⁺ Enriched Ceria Nanoparticles for Silicate Adsorption	13:40-14:00) Oral (20') Sang-Woo Kim (Pusan Nat'l Univ.) 03 1343 Characteristics of Segmented-Dielectric Window Inductively Coupled Plasma	[14:00-14:30] Invited 3(30') Jebum Yoon (ESOL Inc) 04_133 Development of High-Efficiency EUV Zoneplate for Advanced EUV Lithography Equipment	Analysis [14:15-14:45] Invied (30') Jun Ho Lee (Kongju Nat'l Univ.) 06. 1354			
		[14:20-14:40] Invited (20') Woo-Jae Lee (Pukyong Nat'l Univ.) 01 _ 1151 Pt Thin Films by Atomic Layer Deposition Using Dimethyli(N,H-Dimethyl-3-Buten-1-Amine-N) Platinum and 0, Reactant towards the Semiconductor Application	[14:00-14:45] Plenary (45') Hyemin Kang (KENTECH) On the Origin of Gate Oscillation of Power Devices	[14:00-14:20] Oral (20") Jeong Ho Lee (Soulbrain) 02_1007 Nano Cerium Oxide Slurry for Scratch Free with High Selectivity in Various Film	[14:00-14:30] Invited (30') R. Dussart (GREMI Univ. of Orleans CNRS) 03_1038 Crygenic Etching Processes Applied to the Next Generation of Nanoelectronic Technologies					
	- 14:55			[14:20:44:0] Oral [20'] Min-Uk Jeon (Hanyang Univ.) 02_183 Super-Fine CeO ₂ Abrasives Having 4- min in Diameter Synthesized via Oxidation Reaction between Trivalent Cerium and H ₂ O ₂	sk (ZF Lobby)					
14:40	- 14.55	MA2	MB2	MC2	MD2	ME2	MF2			
		Advanced Atomic Scale Thin Films II	Power Device II	CMP Challenges for the Next Generation Devices	Plasma-Surface Interaction	EUV lithography II	Frontier Metrology and Modeling II			
		Session Chair: Se Hun Kwon (Pusan Nat'l Univ.)	Session Chair: Hojun Lee (Pusan Nat'l Univ.)	Session Chair: Jihoon Seo (Clarkson Univ.)	Session Chair: Remi Dussart (GREMI University of Orleans CNRS)	Session Chair: Changhyun Cho (ex. SK hynix, Samsung Electronics Co., Ltd.)	Session Chair: Jun Ho Lee (Kongju Nat'l Univ.)			
		[14:55-15:40] Plenary (45') Erwin Kessels (Eindhoven Univ. of Tech.) Elevating Atomic Layer Deposition to the Angstrom Era	[14:55-15:15] Invited (20') Hyungseok Lee (ETRI) 07_1016 GAN Power Devices for High Temperature and High Voltage Applications	[14:55-15:25] Invited (30') Hoyoung Kim (Samsung Electronics Co., Ltd.) 02_1292 CMP Challenges and Opportunities for the Next Generation Devices	[14:55-15:15] Oral (20") Taegun Park (Yonsei Univ.) 03_1124 Improvement of Mass Transfer Characteristics in Si ₃ N ₄ Etching in H ₃ PO ₄ Solution for 3D NAND Manufacturing	[14:55-15:25] Invited (30') ChangMin Park (Samsung Electronics Co., Ltd.) 04_1033 High NA EUV: Eco Systems & Requirements	[14:55-15:25] Invited (30') Younghoon Sohn (Samsung Electronics Co., Ltd.) 06_1176 3D Gray Level Index for Pattern Depth Monitoring Using SE Image			
					[15:40-16:00] Invited (20') Myung Mo Sung (Hanyang Univ.) 01_1198 Hybrid Multilayer EUV Photoresist for 1.5 Technology Node	[15:15-15:35] Oral (20') Tai Hee Eun (RIST) 07_1103 A Study on 4H-SiC Single Crystal Growth Using Recycled Powders	[15:25-15:45] Oral (20') Muskan Dogra (Hanyang Univ.) 02_1140 Effect of Organic Amine on Ceria Contamination for Nitride Surface During STI CMP	[15:15-15:35] Oral (20') Se Youn Moon (Jeonbuk Nat'l Univ.) 03_1352 Plasma Process Switching from Deposition to Etching in Ar/C4F8 Plasma by N2 Addition	[15:25-15:55] invited (30') Changhyun Cho (ex. SK hynix, Samsung Electronics Co., Ltd.) 04_1284 EUV Application for Memory Devicess	[15:25-15:55] Invited (30') Byoung-Ho Lee (Hitachi Hightech) 06_1379 MI's Direction for Next Journey
14:55	- 16:35		[15:35-15:55] Oral (20') Myeong-Hun Jo (Seoul Nati'l Univ. of Science and Tech.) 07_1289 3D-Printed Micro-Intersection of Thin/Thick Films for Ultrafast Charge Transport	[15:45-16:05] Oral (20') Youngwook Park (KITECH) 02_1108 Effect of Pad Topography with Engineered Surfaces on Removal Rate in CMP	[15:35-15:55] Oral (20') Hee Tae Kwon (Kwangwoon Univ.) 03_1387 Cryogenic Aspect Ratio Etching of SiO ₂ at CF _d /H ₂ /Ar Plasma	[15:55-16:15] Oral (20') Jaeyeong Kim (ESOL Inc) 04_1129 Cleaning of Contaminated EUV Optics Using 172 nm Radiation	[15:55-16:25] Invited (30') Mohit Kumar (Ajou Univ.) 06_1035 Local Probe Microscopy: A Potential Tool for Material Characterization at Nanoscale			
		[16:20-16:40] Oral (20') Jinsik Kim (UP Chemical) 01_1076 High Throughput SiO ₂ Thin Films Using Novel Si Precursors	[15:55-16:15] Oral (20') Yeongeun Park (Kumoh Nat'l Inst. of Tech.) 07_1091 Design Optimization of 1.2 kV SiC Trench MOSFETs	[16:05-16:35] Invited (30') Tae Dong Kim (Hannam Univ.) 02_1196 Surface Modified Nanoparticles Abrasives for Efficient CMP Process	[15:55-16:40] Plenary (45') Gottlieb S. Oehrlein (Univ. of Maryland) Low Temperature Plasma-Materials Interactions for Plasma Etching					
			[16:15-16:35] Oral (20") Jaehun Jeong (Pusan Nat'l Univ.) 07 1071 Enhancement of Low Specific On-Resistance and Reduced Switching Loss in 4H-SiC Single-Channel MOSFET with Extend P-Laver							
16:35	- 16:50		F-Ldyel	Bi	eak					
16:35					rand Ballroom 4, 2F)					

Time		Room A (Capri Room, 2F)	Room B (Grand Ballroom 1, 2F)	Room C (Grand Ballroom 2, 2F)	Room D (Grand Ballroom 3, 2F)	Room E (Sidney Room, 2F)	Room F (Sicily Room, 1F)	2F Lobby			
		TA1	TB1	TC1	TD1	TE1	TF1				
		Advanced Atomic Scale Thin Films III	Heterogeneous Integration Device and Packaging	Challenges and Opportunities in CMP	Plasma Characterization	DTCO and Computational Lithography	Frontier Metrology and Modeling III				
		[09:20 09:50] [milted /20]	Session Chair: Gu-Sung Kim (Kangnam Univ.) [08:30-08:50] Invited (20') - Pre-recorded Video Kitty Pearsall (IEEE EPS) Supply Chain Trends, Challenges, and Disruptions in Semiconductor Packaging	Session Chair: Tae Dong Kim (Hannam Univ.) [08:40-09:00] Oral (20') Sumit Kumar (Hanyang Univ.) 02_1044 Effect of Colloidal Silica and Molybdenum Ions on PVA Brush Loading during Mo Post-CMP Cleaning		[08:30-09:00] invited (30') Young-Chang Kim (Siemens EDA) 04_1083	Session Chair: Mohit Kumar (Ajou Univ.) [08:30-09:00] Invited (30') Jaehyun Kim (SK hynix) 05.1378 Important Gor i Nano-Scale Metrology for Next Generation Device Manufacturing				
		[08:50-09:10] Invited (20') Viet Huong Nguyen (Phenikaa Univ.) 01_1268 Spatial Atomic Layer Deposition of Functional Thin Films	[08:50-09:10] Invited (20') - Pre-recorded Video Jan Vardamann (Techsearch International)	[09:00-09:20] Oral (20') Jongwon Lee (KCTech) 02_1256 A Better Way of Removing Topography to Improve Surface Roughness of the Tungsten Film	Beom-jun Seo (Hanyang Univ.) 03_1243 Floating Harmonic Probe Measurement Using Indium Tin	Memory OPC Technology Development History and Future	[09:00-09:30] Invited (30') Hyungtak Seo (Ajou Univ.) 06_1304 Spectroscopically Resolved Electronic Band Structures of Ultrathin Oxide Layers and Interfaces for Advanced ICs and IG2CD-Rased TFIS				
08:30	- 10:10	Seulwon Choi (Soonchunhyang Univ.) 01_1249	[09:10-09:40] Invited (30') Seok Hyun Lee (Samsung Electronics Co., Ltd.) 05_1288 Advanced Packaging Technology for Heterogeneous Integration	[09:20-09:40] Oral (20') Jinhyung Park (UBM) TBA	Sung Kyu Jang (KETI) 03_1279 Employing Data-Driven Methods for the Evaluation of	Ryoung-han Kim (imec) 04_1086	[09:30-09:50] Oral (20') Woohul Lee (Sungkyunkwan Univ.) 06-1255 Comparative Electrical Characterization of High-K Dielectrics on Ge: Single and Stacked Structures Grown by H ₂ O and O ₂ - Based ALD				
		Seung-Moo Lee (TES Co., Ltd.) 01_1232 Development of Low-K Smart PECVD Equipment and Process	[09:40-10:10] Invited (30') Takao Enomoto (Rapidus Corp. Inc.) 05_117 Challenge Again for Latest Logic Semiconductor and Packaging Device	[09:40-10:10] Invited (30') Haedo Jeong (Pusan Nat'l Univ.) 02_1382 Challenges and Opportunities in CMP for More than Moore Innovation	Hyunju Lee (Seoul Nat'l Univ.) 03_1385 Dayslopment of PLVM for Monitoring Wafer Etch	Yonghwi Kwon (Synopsys)					
		[09:50-10:10] Oral (20') Yunseok Klim (Soonchunhyang Univ.) 01_1241 Transient Analysis and Optimization of a Spatial Atomic Layer Deposition Model Utilizing Dynamic Mesh Methods									
10:10	10:20										
			· · · · · · · · · · · · · · · · · · ·		·	* 1 1 1	**				
		[10:20-10:50] Invited (30') JinHee Park (5K hynix)	Session Chair: Changhwan Choi (Hanyang Univ.) [10:20-10:50] Invited (30') Minsuk Suh (SK hynix) 55_1117 Technology Trend of the Interposer for 2.5D SIP	Session Chair: Haedo Jeong (Pusan Nat'i Univ.) [10:20-10:50] Invited (30') Jea-Gun Park (Hanyang Univ.) Achieving Erosion-Less Depending on Pattern Density via Radical Oxidation in Copper-Film Chemical-Mechanical Planarization	[10:20-10:40] Oral (20") Cheongbin Cheon (Pusan Nat'l Univ.) 03_1344 Dependence of Gas Mixing Ratio and Pressure on Optimal Condition for Abundant Ol [†] D) Surface Flux in O ₂ /Ar	[10:30-10:50] Oral (20') Jungchul Song (NNFC)	Session Chair: Byung-Ho Lee (Hitachi Hightech) [10:20-10:50] Invited (30') Tae Yong Lee (imec) 06. 1119 Wethodology for Efficient Inspection of Wafer Defects in Very Low Volume Manufacturing (VLVM)				
10.20	42.00	Area Calestina Denocition on Fontures with Nanoscale	[10:50-11:10] Invited (20') Gu-Sung Kim (Kangnam Univ.) 05_1389 2.5D Interposer Technologies for Heterogeneous Integration	[10:50-11:10] Oral (20') Ganggyu Lee (Hanyang Univ.) 02_1259 Electrochemical Galvanic Corrosion Behavior of the Cu/Ru Bimetallic System in the Chemical Mechanical Planarization	[10:40-11:00] Oral (20') Yeon No Im (Jeonbuk Nat'l Univ.) 03_1351 Predictable Process Simulation Platform for Next-Generation	[10:50-11:20] invited (30') Myung-Gil Kim (Sungkyunkwan Univ.) 04_1252 Recent Advances in Inorganic EUV Photoresist	[10:50-11:10] Oral (20') Jae-Hong Park (Agilent Technologies) 02_1377 Analysis Theory and Method of Single Particle ICP-MS				
10:20		-			[11:20-11:40] Invited (20') Woo Hee Kim (Hanyang Univ.) 01_1325 Combined Atomic Layer Deposition and Etching Process towards Advanced Atomic Level Patterning	[11:10-11:30] Invited (20') Jihwan An (POSTECH) High Density Thin Film Capacitor by Plasma Assisted Atomic Layer Annealing	[11:10-11:30] Oral (20') Seunghun Jeong (Pusan Nat'l Univ.) 02_1099 CMP Strategy for Dishing Control of TGV Interposers	(11:00-11:30) Invited (30') Won-Jun Lee (Sejong Univ.) 03_1362 Etching Mechanism of Amorphous Hydrogenated Silicon	Jiyoung Bang (Chonnam Nat'l Univ.) 04 1126 Electron Beam Cross-Linking Mechanism of Cyclotetrasiloxane-Based Inorganic Molecular Resists for	[11:10-11:30] Oral (20") H. B. Lim (RAM Tech.) 06_1114 Characterization of Nanoparticles in Size and Particle Concentration by Inductively Coupled Plasma-Mass Spectrometry	Exhibition
									[11:40-12:00] Invited (20')	[11:30-11:50] Invited (20') Jinsub Park (Hanyang Univ.) 05_1311 Metal-Oxide Based Thermal Interface Materials for Improvement of Heat Transfer Characteristics	[11:30-11:50] Oral (20') Nayoung Kang (Hanyang Univ.) 02_1178 Investigation and Characterization of Mo Surface during Mo Post-CMP Cleaning Process
			[11:50-12:10] Oral (20') Sun Bum Kim (Hanyang Univ.)								
			05_1310 FEOL Process-Based Redistribution Layer (RDL) Formation								
12:00	- 13:30			Lui Plenary Session II	····						
	08:30	08:30 - 10:10 10:10 10:20 10:20 - 12:00	Time (Capri Room, 2F) TA1 Advanced Atomic Scale Thin Films III Session Chair: Woo Hee Kim (Hanyang Univ.) [108:30-08:50] Invited (20') Se Hun Kwon (Pusan Nat'l Univ.) 01.1370 Effect of Surface Pre-Treatment on the Initial Growth Stages of ALD-Ir Thin Films [08:50-09:10] Invited (20') Viet Huong Nguyen (Phenikaa Univ.) 01.1268 Spatial Atomic Layer Deposition of Functional Thin Films 08:30 - 10:10 [09:10-09:30] Oral (20') Seulwon Choi (Soonchunhyang Univ.) 01.1249 Computational Fluid Dynamics of Flow through Line Charge Volume Design for Atomic Layer Deposition [09:30-09:50] Oral (20') Seung-Moot Lee (TES Co., Ltd.) 01.1232 Development of Low-K Smart PECVD Equipment and Process for System LSI Devices-II [09:50-10:10] Oral (20') Yunseok Kim (Soonchunhyang Univ.) 01.1241 Transient Analysis and Optimization of a Spatial Atomic Layer Deposition Model Utilizing Dynamic Mesh Methods 10:10 10:20 TA2 Advanced Atomic Scale Thin Films IV Session Chair: Jin-Seong Park (Hanyang Univ.) 01.118 Challenges and Requirements of ThinFilm Technology in the Era of Moore's Law Extension and Beyond [10:50-11:20] Invited (30') Annelies Delable (innec) 01.1248 Area-Selective Deposition on Features with Nanoscale Dimensions for Semionductor Device Manufacturing 11:20-11:40] Invited (20') Woo Mee Kim (Hanyang Univ.) 01.1325 Combined Atomic Layer Deposition and Etching Process towards Advanced Atomic Level Patterning [11:40-12:00] Invited (20') Woongkyu Lee (Soongsil Univ.) 01.1165 The Improvement of Interfacial Properties of MIM	Capit Room, 27 Capit Room, 27 TA1 TB1 TB1	Table	Part Company Company	Page				

Coffee Break (2F Lobby)

14:15 - 14:25

		TA3	ТВЗ	TC3	TD3	TE3	TF3	
		Advanced Atomic Scale Thin Films V	Process and Equipment	CMP Innovations	HARC Etching/Green Etch Technology	EUV HVM Status and Cutting-Edge Topics in Advanced Lithography	Frontier Metrology and Modeling V	
		Session Chair: Hanwool Yeon (GIST)	Session Chair: Jihwan An (POSTECH)	Session Chair: Sangwoo Lim (Yonsei Univ.)	Session Chair: Shin Jae You (Chungnam Nat'l Univ.)	Session Chair: Jong-Rak Park (Chosun Univ.)	Session Chair: Hyungtak Seo (Ajou Univ.)	
		Seán T. Barry (Carleton Univ.) 01_1361	[14:25-14:55] Invited (30') Masahiro Kobayashi (Nippon Electric Glass Co., Ltd.) 05_1381 Glass Wafer for Supporting Semiconductors	[14:25-14:55] Invited (30') Hyo Chol Koo (5K hynix) 02_1233 Enhancing Advanced Memory Development through CMP Innovations	[14:25-14:45] Oral (20') Wonnyoung Jeong (Chungnam Nat'l Univ.) 03_1152 Study of Redeposition Effects on the High Aspect Ratio SiO2 Etching Profile Evolution	[14:25-15:10] Plenary (45') Stuart Young (ASML Netherlands B.V.) EUV Systems for High Volume Manufacturing	[14:05-14:35] Invited (30') Seungwo Han (Seoul Nat'l Univ.) 06_1001 Atomistic Simulation of Semiconductor Processing Using Machine Learning Potentials	
		Ngoc Linh Nguyen (Phenikaa Univ.) 01_1220 Atomistic Modeling of Electronics and Thermodynamics of	[14:55-15:15] Invited (20") Hyunkyu Moon (KIMM) 05_1367 Development of Heterogenous and Multi-Stack Flexible Packaging with Photo-Patternable Polymer Elastic Bumps	[14:55-15:15] Oral (20') Seong In Kim (Hanyang Univ.) 02_1186 1-Step Tungsten Chemical-Mechanical Planarization Performing Remarkable High Tungsten Film Polishing-Rate and Reverse Polishing-Rate Selectivity between Tungsten- And SiO_*film via Radical Oxidation	Gilyoung Choi (Korea Univ.) 03_1332 A Study on the High-Aspect-Ratio Oxide Etching	[15:10-15:40] invited (30') Sumi Hur (Chonnam Nat'l Univ.) 04_1104 Deciphering Line Edge Roughness Formation in EUV Patterning: Insights from Molecular Simulations and Strategies for Minimization	[14:35-15:05] Invited (30') Yoon Jong Park (Semilab Korea) 06_1309 The Optical System and Analysis for Thickness and Transitio Zone Measurement of Epitaxial Layer	
14:25 - 16		Won-Jun Lee (Sejong Univ.) 01_1250 Atomic Layer Deposition of Silicon Oxide Films Using	[15:15-15:35] Invited (20') Nam Son Park (Tech Univ. of Korea) 05_1322 Development Trends of Plasma System and Applications in Semiconductor Packaging and Substrate	[15:15-16:00] Plenary (45') Jihoon Seo (Clarkson Univ.) A Holistic Approach to Optimizing Chemical Mechanical Planarization (CMP) for Enhanced Semiconductor Manufacturing and Sustainability	Innovative Cyclic Etching Process for High-Aspect-Ratio SiO ₂	[15:40-16:10] invited 13(30') Min Seok Jang (KAIST) 04_1106 Note Thermal Emission Steering and Mid-IR Complex Amplitude Modulation with Graphene-Based Active Metasurfaces	[15-05-15:35] Invited (30') Sangioon Cho (Park Systems) 06_1363 Inline Convergence AFM Solutions for Advanced Packaging	
		Seung-Ho Seo (GO Element Co., Ltd.) 01_1251 Computational Fluid Dynamics Analysis of Cyclone-Type	[15:35-15:55] Invited (20") lae-Seong Jeong (KETI) 05_1280 Adhesion of Plated Thick Film Metal on Epoxy Molding Compound under Thermal Cycle		[15-25-15-55] Invited (30") Hulchan Seo (SK hynix) 03_1169 Green Technologies in Advanced Etching Process		[15:35-16:05] Invited (30') A. D. Giddings (AMFTEK Korea Co. Ltd., Korea) 06 1372 Improved Semiconductor Nanodevice Metrology with Next Generation Atom Probe	
		[15:55-16:15] Oral (20') Kyuho Cho (EGTM) 01_1084 Novel Liquid Precursors of Group IV/V Transition Metals for High Temperature ALD Process			[15-55-16:15] Oral (20') Hongsik Jeong (UNIST) 03_1384 The Investigation of Etching Characteristics between Isomer Gases of Low GWP Etch Gases			
16:05 - 18	18:30	Break						
18:30 - 20	20:30			Banque	(Grand Ballroom, 2F)			

Time	Room A (Capri Room, 2F)	Room B (Grand Ballroom 1, 2F)	Room C (Grand Ballroom 2, 2F)	Room D (Grand Ballroom 3, 2F)	Room E (Sidney Room, 2F)	Room F (Sicily Room, 1F)	2F Lo	
	WA1	WB1	WC1	WD1	WE1	WF1		
	Advanced Atomic Scale Thin Films VI	Materials and Innovation	Functional Wet Etching Technology	New Materials Etching	Advanced Lithography for Future Optical Devices I	Advanced Lithography for Future Optical Devices I	4	
	Session Chair: Ngoc Linh Nguyen (Phenikaa Univ.)	Session Chair: TBA	Session Chair: Jea-Gun Park (Hanyang Univ.)	Session Chair: Heeyeop Chae (Sungkyunkwan Univ.)	Session Chair: Myungki Kim (Korea Univ.)	Session Chair: Tae-Hun Shim (Hanyang Univ.)		
	[08:30-08:50] Oral (20')	[08:30-09:00] Invited (30')	[08:30-09:00] Invited (30') Ungyu Paik (Hanyang Univ.)	[08:30-08:50] Oral (20')	[08:30-09:00] invited (30')			
	Jong Hyun Kim (DNF Co., Ltd.) 01 1235	Hidenori Abe (Resonac) 05 1015	02_1212	Seunghyo Lee (Yonsei Univ.) 03 1125	Hyounghan Kwon (KIST) 04 1180			
	Characteristics for IGZO Films Deposited with New In & Ga	Advanced Packaging Materials and Evaluation Platform at	Enhancing Planarity and Defect Management in Chemical Mechanical Planarization (CMP) Slurry for Advanced Middle-	Highly Selective Etching of SiGe over Si for GAAFET	Dielectric Metasurfaces for Optical Field Imaging Devices and			
	Precursors	Resonac	of-Line (MOL) Semiconductor Processes	Fabrication	Optimized Photonic Devices			
	[08:50-09:10] Oral (20')		[09:00-09:20] Oral (20')	[08:50-09:10] Oral (20')	[09:00-09:30] invited (30')	[09:00-09:30] invited (30')		
	Dow Wook Lee (Hanyang Univ.) 01 1373	[09:00-09:20] Invited (20') Dae-bong Yoon (Samhwa Paints Ind Co., Ltd.)	Changjin Lee (Hanyang Univ.)	JinNyoung Jang (APS Research)	Hansuek Lee (KAIST)	Seak-Joon Lee (ITI) 06 1391		
	Effects of Plasma Enhanced Chemical Vapor Deposition Parameters on Silicon Oxide Thin Film Characteristics and Its	05_1360	02_1193 Novel Wet Oxidant for Highly Selective Etching of Si _{0.7} Ge _{0.3} -	Development of Copper Dry Etching Equipment via ECR	On-Chip Ultra-Low-Loss Optical Components for Mid-	Laser COOL Forming1 TGV for Glass Substrate of Semiconductor Packaging and Laser COOL Cut1 without		
08:30 - 10:	Warpage	Con Cre Epoxy incomine the semiconductor i denuging	to Si-film Using Hydroxyl Radical Oxidation	Plasma Source	Infrared Photonics	Crack for Wafer(SiC, GaN, TSV, Sapphire)		
08.30	[09:10-09:30] Oral (20')	[09:20-09:40] Invited (20')	[09:20-09:40] Oral (20')	[09:10-09:40] Invited (30')	[09:30-09:50] Oral (20')			
	Seo-Hyun Lee (Hanyang Univ.) 01_1375	Daewon Lee (Myongji Univ.) 05_1320	Jieun Lee (Hanyang Univ.) 02_1194	Hyeong-U Kim (KIMM) 03_1317	Sunghoon Hong (ETRI) 04_1161	[09:30-10:00] invited (30') Taegeun Kim (Cubixel Inc.)		
	Enhanced Metal/Dielectric Selectivity in Ru Atomic Layer Deposition with Alkyl-Chain Length Dependent Phosphonic	Fluidic Self-Assembly Packaging: The Future of Microchip	Enhancing Etch Rate Selectivity between Si _{0.7} Ge _{0.3} - and Si- Film via Radical Concentration Control for Radical Oxidation-	Implementation of a Plasma-Based Integrated System for	Fabrication of Tunable Metasurface Platform for Hologram Display	Flying-over Scanning Holography for Industrial Inspection		
	Acid Self-Assembled Monolayers	Transfer Technologies in MicroLED Display	Based Wet Etchant	Synthesis, Etching, Machine-Learning of 2D TMDc	o open,	Trying over seasoning roots opiny for maturities inspection		
	[09:30-09:50] Oral (20') Hae Lin Yang (Hanyang Univ.)	[09:40-10:00] Oral (20')	[09:40-10:10] Invited (30')	[09:40-10:10] Invited (30')	[09:50-10:10] Oral (20')			
	01_1239	CheongHa Jung (Kangnam Univ.)	Sangwoo Lim (Yonsei Univ.)	Kukhan Yoon (Samsung Electronics Co., Ltd.)	Moohyuk Kim (Korea Univ.) 04 1208			
	Modulating ALD Molybdenum Oxide Film Properties for DRAM Application through Controlled Oxidants and H ₂	05_1318 Study on Finite Element Analysis for Interposer Structures	02_1040 Surface Preparation for InGaAs MOSFET Fabrication	03_1374 Extendable Etch Solutions for Sub 10-nm DRAM Device	Multilayered All-Polymer Metasurfaces on Optical Fiber Apex Using Micropunching Method			
	Annealing with Mo(NMe ₂) ₄ Precursor				Apex osnig with opuniting wethou			
	[09:50-10:10] Invited (20') Hyeongtag Jeon (Hanyang Univ.)	[10:00-10:20] Oral (20')						
	01_1303	Uhyeon Kim (POSTECH) 05_1077						
	Ozone Concentration Dependence of Tetragonal Phase of ZrO ₂	Ultra-Thin Heterogeneous Integration via Transfer Printing					E	
10:10 10:	20 WA2		WC2	reak WD2	WE2		- "	
	Advanced Atomic Scale Thin Films VII		Advanced Cleaning Technology	Atomic Layer Etching/Damage-Free Etching	Advanced Lithography for Future Optical Devices II			
	Session Chair: Sean Barry (Carleton Univ.)		Session Chair: Jinsub Park (Hanyang Univ.)	Session Chair: Hyeong-U Kim (KIMM)	Session Chair: Hansuek Lee (KAIST)			
	[10:20-10:50] Invited (30')		[10:20-10:50] Invited (30')	[10:20-10:40] Oral (20')	[10:20-10:50] invited (30') Myungki Kim (Korea Univ.)			
	HongGun Kim (TEL)		Andreas Klipp (BASF)	Ji Eun Kang (Sungkyunkwan Univ.) 03 1359	04_1166			
	01_1296 Advanced Process Technologies for Future Logic Devices		New Cleaning and Etch Solution Approaches for Advanced Sub 5nm Technology Nodes	Layer-By-Layer Etching of 2 Dimensional Palladium Diselenide	Advanced On-Demand Micro-Transfer Printing Techniques for Seamless Integration of Nanophotonic and Metasurface			
	[10:50-11:20] Invited (30')		[10:50-11:10] Invited (20')	[10:40-11:00] Oral (20')	Devices [10:50-11:10] Oral (20')			
	Changbong Yeon (Soulbrain) 01 1075		Myung Ho Lee (ENF Tech. Co., Ltd.) 02 1307	Minseok Kim (Hanyang Univ.) 03 1244	Gookho Song (KAIST)			
10:20 - 12:	Advanced Deposition Materials for Atomic Layer Deposition		BOE-Based High Selective SiO ₂ Etching Technology Applicable to Next-Generation Semiconductor	Ultra-Low Electron Temperature (ULET) Plasma for Damage- Free Plasma Processing	04_1266 Double-Layered Disordered Metasurface Spectrometer			
	and Beyond [11:20-11:40] Invited (20')		[11:10-11:30] Oral (20')	[11:00-11:30] Invited (30')	[11:10-11:30] Oral (20')			
	Byungjin Cho (Chungbuk Nat'l Univ.)		Man Hyup Han (Hanyang Univ.) 02 1190	Heeyeop Chae (Sungkyunkwan Univ.) 03 1356	Yongjun Lim (Korea Univ.)			
	Memtransistor Devices based on 2D Layered Semiconductor		Fenton Reaction for Enhancing Ag-Film Polishing Rate in	Plasma-Enhanced Atomic Layer Etching for Metals and	Unconventional Approach for Fabricating Diffractive Optical			
	for Energy-Efficient Neuromorphic Computing	_	Chemical–Mechanical Planarization	Dielectric Materials	Elements via Holographic Inscription			
	[11:40-12:00] Invited (20') Hanwool Yeon (GIST)				[11:30-11:50] Oral (20') Sung Hun Park (Korea Univ.)			
	01_1357				04_1300			
	SMART Metallization for Reliable and Power-Efficient Hetero Integrated Systems	·			Self-Assembly-Based Molecular Addressing on Chemically Modified Gold Surface			
12:00 - 13:	- 13:30 Lunch							
		Plenary Session III (Capri Room, 2F) "EUV Lithography in High Volume Manufacturing" Fellow, Young Seog Kang (Samsung Electronics Co., Ltd., Korea)						
	15		"EUV Lithography in Higi Fellow. Young Seog Kang (Sam:	sung Electronics Co., Ltd., Korea)				
13:30 - 14: 14:15 - 14:	30		Fellow, Young Seog Kang (Sam: Bi	sung Electronics Co., Ltd., Korea) reak				
13:30 - 14: 14:15 - 14: 14:30 - 15:	30 20		Fellow, Young Seog Kang (Sam: Bi Poster Session II (G	sung Electronics Co., Ltd., Korea)				
13:30 - 14: 14:15 - 14:	30 20 35		Fellow, Young Seog Kang (Sam: Bi Poster Session II (G Bi	sung Electronics Co., Ltd., Korea) reak rrand Ballroom 4, 2F)				
13:30 - 14: 14:15 - 14: 14:30 - 15: 15:20 - 15:	30 20 35	Room B (Grand Baltroom 1. 2F)	Fellow, Young Seog Kang (Sam: Bi Poster Session II (G Bi	sung Electronics Co., Ltd., Korea) reak irand Ballroom 4, 2F] reak	Room E	Room F (Sidly Room, 1F)	2F	

Optional Tour

Торіс	Sessions	Poster Session	
1. Advanced Atomic Scale Thin Films	MA1, MA2, TA1, TA2, TA3, WA1, WA2		
2. CMP & Post CMP Cleaning	MC1, MC2, TC1, TC2, TC3, WC1, WC2	Poster Session II	
3. Advanced Etching Technology	MD1, MD2, TD1, TD2, TD3, WD1, WD2		
4. Advanced Lithography	ME1, ME2, TE1, TE2, TE3, WE1, WE2		
5. Post Fabrication Technology and System Packaging	TB1, TB2, TB3, WB1	Poster Session I	
6. Frontier Metrology, Diagnosis, and Modeling for Nanoscale IC Integration and Emerging Device Process	MF1, MF2, TF1, TF2, TF3		
7. Power Device	MB1, MB2		

Nov. 23 (Thu.)

(Half) 08:30-12:00 (Full) 08:30-17:30