[KISM 2025 BUSAN] Program at a Glance (ver. 2025. 11. 04)

	Tin	ne	Room A (Capri Room, 2F)	Room D (Sydney Room, 2F)	Lobby, 2F		
			Tutorial I				
	13:00 -	16:00	Current and Future Challenges and Solutions in Al & HPC System Thermal Management				
Nov. 10			Dr. Gamal Refai-Ahmed (AMD, USA)				
(Mon.)			Tutorial II (in Korean Language)	Short Course (in Korean Language)	Registration		
	16:00 -	17:30	Non-Volatile Memory-Based Al Semiconductors for Low-Power Neural Networks	Technical Trends and Challenges in 3D NAND Flash Memory Evolution			
			Prof. Jong-Ho Lee (Seoul Nat'l Univ., Korea)	Prof. Sungnam Chang (Hanyang Univ. / PeDiSem Ltd., Korea)			
	18:15 -	20:00	Welcome Receptio	in (Sicily Room, 1F)			

18:1	18:15 20:00 Welcome Reception (Sicily Room, 1F)									
	Time	Room A (Capri Room, 2F)	Room B (Grand Ballroom 1, 2F)	Room C (Grand Ballroom 3, 2F)	Room D (Sydney Room, 2F)	Room E (Sicily Room, 1F)	Room F (Panorama Room, 16F)	Lobby, 2F		
Plenary Session I (Capri Room, 2F) 10:00 - 10:45 Semiconductor Technology Trends to Overcome the Integration Limitations for Future Al Memory Devices										
	Dr. Jiho Kang (SK hynix Inc., Korea) 10:45 - 11:00 Coffee Break (Lobby, 2F)									
	6 - 11:00 0 - 11:30									
) - 13:00				unch					
		TuA1 (Thin Film)	TuB1 (Etching)	TuC1 (MI)	TuD1 (Power)	TuE1 (CMP)				
		Nanoscale Thin Film Deposition I	Advanced Etch I	Advanced Metrology & Inspection, Process Diagnostics & Control, and	Power Devices I	Innovative Abrasives and Carbon Layer CMP				
		Session Chair: Prof. Woo Hee Kim (Hanyang Univ., Korea)	Session Chair: Prof. Heeyeop Chae (Sungkyunkwan Univ., Korea)	Yield Management I Session Chair: Dr. Byoung-Ho Lee (Hitachi High-Tech Corp., Japan)	Session Chair: Prof. Hyemin Kang (KENTECH, Korea)	Session Chair: Dr. Yongsik Moon (EHWA Diamond, Korea)	+			
		[13:00-13:30] Invited (30')	[13:00-13:45] Plenary (45')	[13:00-13:45] Plenary (45')	[13:00-13:25] Invited (25')	[13:00-13:30] Invited (30')	1			
		Rong Chen (Huazhong Univ. of Science and Tech.)	Thorsten Lill (Lam Research)	Daniel Schmidt (IBM Research)	Dong-Seok Kim (KAERI)	Ungyu Paik (Hanyang Univ.)				
		01_1152 Selective Atomic Laver Deposition in Advancing Semiconductor	03_1136 Etch Innovation for 3D Electronic Devices	06_1068 Characterizing Complexity: Metrology Innovations for Next-Gen Logic	07_1053 Cosmic-Ray Radiation Effects on Power Devices	02_1022 Molybdenum CMP: Aspects of Thermodynamics and Kinetics				
		Selective Atomic Layer Deposition in Advancing Semiconductor Manufacturing	Etch innovation for 3D Electronic Devices	Nodes	Cosmic-Ray Radiation Effects on Fower Devices	inorybaenam CMF. Aspects of Thermodynamics and Knieucs				
		[13:30-14:00] Invited (30')	[13:45-14:15] Invited (30')	[13:45-14:15] Invited (30')	[13:25-13:50] Invited (25')	[13:30-13:50] Oral (20')				
		Jongho Lee (SK hynix Inc.) 01 1159	Thi-Thyu-Nga Nguyen (Nagoya Univ.) 03_1223	Kazuhiko Omote (Rigaku Corporation) 06_1101	Ho-Young Cha (Hongik Univ. and ChipsK Corp.) 07 1121	Ganggyu Lee (Hanyang Univ.) 02 1061				
13:0		Development of a Selective-Area ALD Process for Buried Word Line in	Nonhalogen Etching for Hard-to-Etch Materials: A Concept Developed	Progress of X-ray Metrology for Analyzing Devise Nanostructure in	III-N Heterojunction Devices for Power Electronics and Extreme	Mitigating Galvanic Corrosion in Cu/Ru Interfaces through Selective				
13:00	- 14:40	DRAM	from Wet-like Plasma Technology for Semiconductor Device Fabrication		Environment Applications	Surface Interactions for Ru Barrier Metal CMP				
		[14:00-14:20] Invited (20')	[14:15-14:40] Invited (25')	[14:15-14:45] Invited (30')	[13:50-14:15] Invited (25')	[13:50-14:20] Invited (30')	-			
		Seung hyun Lee (Soulbrain Co., Ltd.)	Hae June Lee (Pusan Nat'l Univ.)	Trevor A. Norman (NeXray, Inc.)	Jeong-Gil Kim (Dong-A Univ.)	Jea-Gun Park (Hanyang Univ.)				
		01_1092	03_1265	06_1197	07_1143	02_1080				
		Novel Organic Molecular Inhibitors for Improved Step Coverage in		Spatially Coherent Xray Imaging Over a Large FOV, High-resolution,	Possibility of AIN/GaN/AIN Heterostructure for Power Device	Surface Modification Mechanism of Carbon-Metal-Carbon Structures for	•			
		High-Temperature ALD Dielectrics	Plasmas	Within Seconds	Applications	Enhanced Mechanical Polishing Performance in Hard Amorphous Carbon Layer Chemical-Mechanical-Planarization				
		[14:20-14:40] Oral (20')			[14:15-14:40] Invited (25')	[14:20-14:40] Oral (20')	1			
		Jieun Oh (Hanyang Univ.)			Dongkwang Lee (Semipower Inc.)	Ikjoon Kim (ENF Technology Co., Ltd.)				
		01_1047			07_1149	02_1106				
		Enhancing Oxide/Nitride Selectivity in Area-Selective ALD via Pyridine- Catalyzed Inhibition			Power Semiconductor Packaging Using Ceramic Clip	Zirconia as a Novel Abrasive for CMP of Amorphous Carbon Layer (ACL)				
Nov. 11 14:4	14:50	0			ak (Lobby, 2F)			D. sisteration		
Nov. 11 14:44 (Tue.)	14:50	0 TuA2 (Thin Film)	TuB2 (Etching)	TuC2 (MI)	TuD2 (Power)	TuE2 (CMP)	TuF2 (PKG)	Registration		
Nov. 11 14:4 (Tue.)	14:50	TuA2 (Thin Film) Nanoscale Thin Film Deposition II	TuB2 (Etching) Sustainable Etch		TuD2 (Power)	TuE2 (CMP) CMP Consumables: Conditioning, Monitoring, and Abrasives	TuF2 (PKG) Processing for 3D Integration	Registration & Exhibition		
Nov. 11 14:40 (Tue.)	14:50	TuA2 (Thin Film) Nanoscale Thin Film Deposition II Session Chair: Prof. Rong Chen (HUST, China)	Sustainable Etch Session Chair: Dr. Thorsten Lill (Lam Research, USA)	TuC2 (MI) Advanced Metrology & Inspection, Process Diagnostics & Control, and Yield Management II Session Chair: Dr. WooSeok Kang (KIMM, Korea)	TuD2 (Power) Power Devices II Session Chair: Prof. Ho-Jun Lee (Pusan Nat'l Univ., Korea)	CMP Consumables: Conditioning, Monitoring, and Abrasives Session Chair: Dr. Hyunkyu Moon (KIMM, Korea)	Processing for 3D Integration Session Chair: Dr. Kwang-Seong Choi (ETRI, Korea)			
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[KISM 2025 BUSAN] Program at a Glance (ver. 2025. 11. 04)

T	me	BUSAN] Program at a Glance (ver. 20 Room A (Capri Room, 2F)	Room B (Grand Ballroom 1, 2F)	Room C (Grand Ballroom 3, 2F)	Room D (Sydney Room, 2F)	Room E (Sicily Room, 1F)	Room F (Panorama Room, 16F)	
		WeA1 (Thin Film)	WeB1 (Etching)	WeC1 (MI) Advanced Metrology & Inspection, Process Diagnostics & Control, and	WeD1(Litho)	WeE1 (CMP)	WeF1 (PKG)	
		Nanoscale Thin Film Deposition III Session Chair: Prof. Min Hyuk Park (Seoul Nat'l Univ., Korea)	HARC Etch and Plasma Source Session Chair: Dr. Jie Li (imec, Belgium)	Yield Management III Session Chair: Dr. Hyuksang Kwon (KRISS, Korea)	Lithography Process Session Chair: Dr. Jeong-Ho Yeo (Applied Materials, Korea)	Nanostructured Materials and Surface Chemistry Session Chair: Prof. Jihoon Seo (Clarkson Univ., USA)	Processing for Al Semiconductor Modules Session Chair: Prof. Hongyun So (Hanyang Univ., Korea)	
		[09:00-09:30] Invited (30')	[09:00-09:30] Invited (30')	[09:00-09:30] Invited (30')	[09:00-09:30] Invited (30')	[09:00-09:30] Invited (30')	[09:00-09:45] Plenary (45')	
		Jungho Lee (Lam Research Korea) 01 1242	Jaeho Min (Samsung Electronics Co., Ltd.) 03 1074	Joonho You (Nexensor Inc.) 06 1287	Jong-Hwa Baek (Samsung Electronics Co., Ltd.) 04 1297	Panart Khajornrungruang (Kyushu Inst. of Tech.) 02 1043	Seungbae Park (State Univ. of New York at Binghamton) 05 1238	
		Non-Fluorinated Molybdenum Metallization in 3D NAND	Next Generation HARC Etch Technologies Requiring Ultra-High Aspect	Next-Generation Optical Metrology for Advanced Semiconductor	Journey to the Future: Low & High NA EUV Lithography for Next	3D Observation Method of Transporting Nano-Particle near a Surface		
			Ratio, High Selectivity, and Very High Etch Rate for VNAND Device	Packaging	Generation Logic Devices			
		[09:30-10:00] Invited (30')	[09:30-09:55] Invited (25')	[09:30-09:50] Invited (20')	[09:30-10:00] Invited (30')	[09:30-10:00] Invited (30')	[09:45-10:15] Invited (30')	
		Chang Bong Yeon (Soulbrain Co., Ltd.) 01 1049	Dongsoo Lee (Lam Research Korea) 03 1025	Hyun-Jung Kim (Nexus1 Co., Ltd.) 06 1219	Chan-Uk Jeon (Tekscend Photomask Corp.) 04 1248	Seho Sun (Yeungnam Univ.) 02 1104	Jaehwa Park (Samsung Electronics Co., Ltd.) 05 1015	
09:00 -	10:40	Atomic Layer Deposition of Molybdenum Thin Films: Enhancing	3D NAND Dielectric Etch Technology Challenges and Breakthroughs	Wafer Fracture Stress Due to Edge Cracks and Crack Inspection Method	EUV Mask Technology: Evolution and Future Outlook	Oxidation Behavior of Co Metal for CMP Slurry Design	Challanges of hybrid Cu bonding for high bandwitdh memory	
		Deposition Characteristics and Film Quality with Advanced Deposition Materials						
		[10:00-10:20] Oral (20')	[09:55-10:10] Oral (15')	[09:50-10:10] Invited (20')	[10:00-10:20] Invited (20')	[10:00-10:30] Invited (30')	[10:15-10:35] Invited (20')	
		Taewon Hwang (Hanyang Univ.) 01 1240	Sung-Hyeon Jung (Pusan Nat'l Univ.) 03_1229	Janghwan Kim (SEMES) 06 1172		Tae-Dong Kim (Hannam Univ.) 02 1190	Kwang-Seong Choi (ETRI) 05 1146	
		Interlayer Engineering for Reliable Hybrid Channel NAND Flash	Investigation of Toroidal Slot Antennas for Microwave Heating and	Development of designing motion profile with advanced jerk for	1	Surface Modified Nanoparticle Abrasives for Efficient CMP Process	Cu Post Bonding Technology, Based on Laser-Assisted Bonding with	
			Plasma Generation	vibration suppression and high wafer throughput	Device Like Target Using E-Beam Simulation		Compression (LABC) and Fume-Free Laser Solder Paste for Advanced 3D Interconnections	
		[10:20-10:40] Oral (20')	[10:10-10:25] Oral (15')	[10:10-10:30] Invited (20')	[10:20-10:40] Invited (20')	[10:30-10:50] Oral (20')		
		Yeong-Seo Cho (Pusan Nat'l Univ.) 01 1206	Seong Eun Oh (Pusan Nat'l Univ.) 03 1227	Jihye Seo (KETI) 06 1298		Pil-Su Kim (Hanyang Univ.) 02 1081		
		Atomic Layer Deposition of Binary Alloy Thin Films for Advanced	Investigation of Plasma Density Distribution and Electron Heating	AI-Based Multi-Sensor Integrated Process Intelligence for Atomic Layer	Development of EUV Pellicles supporting High EUV Power	Si-Wafer Polishing Rate Enhancing Mechanism Through Accelerating		
10.40	10:55	Interconnects	Mechanisms in Capacitively Coupled Plasma	Deposition Coffee Pres	sk (Lobby, 2F)	Hydrolysis Reaction at Si-Wafer Surface		
				Plenary Session I	II (Capri Room, 2F)			
10:55 -	11:40				ives in Advancing Semiconductor Manufacturing iv. of Twente, The Netherlands)			
11:40 -	13:10			Lu	unch			
13:10 -	13:55				III (Capri Room, 2F) anical Breakthroughs in Semiconductor Packaging			
				Dr. Gamal Refai-A	Ahmed (AMD, USA)			
13:55 -	14:10	WeA2 (Thin Film)	WeB2 (Etching)	WeC2 (MI)	sk (Lobby, 2F) WeD2 (Litho)	WeE2 (CMP)	WeF2 (PKG)	
		Nanoscale Thin Film Deposition IV	Advanced Etch II	Advanced Metrology & Inspection, Process Diagnostics & Control, and Yield Management IV	Material & Process	Al-Driven CMP and Emerging Process Strategies	Materials and Processing for Advanced Packaging	
		Session Chair: Prof. Jin-Seong Park (Hanyang Univ., Korea)	Session Chair: Dr. Dongsoo Lee (Lam Research Korea, Korea)	Session Chair: Dr. Ansoon Kim (KRISS, Korea)	Session Chair: Prof. Su-Mi Hur (Chonnam Nat'l Univ., Korea)	Session Chair: Prof. Seho Sun (Yeungnam Univ., Korea)	Session Chair: Prof. Ah-Young Park (Univ. of Seoul, Korea)	
		[14:10-14:40] Invited (30') Kibum Kang (KAIST and TDS Innovation Co., Ltd.)	[14:10-14:40] Invited (30') Jie Li (imec)	[14:10-14:40] Invited (30') Hagyong Kihm (KRISS and Univ. of Science and Tech.)	[14:10-14:40] Invited (30') Ben Eynon (Lam Research)	[14:10-14:40] Invited (30') Jihoon Seo (Clarkson Univ.)	[14:10-14:30] Invited (20') Bo Yeon Lee (ENF Technology Co., Ltd.)	
		01_1217	03_1029	06_1100	04_1137	02_1002	05_1147	
		2D Semiconductor Crystal Layer Deposition Toward Fab-Line Compatibility	Advanced Patterning of Metal Oxide Semiconductors for Memory Applications: IBE, RIE, and ALE Approaches	Development of DUV & EUV Optics for Semiconductor Inspection	Advanced Patterning: Tackling the Big Problems in Printing Small Features	Machine Learning-Based Strategic Corrosion Management for Targeted Inhibitor Implementation in CMP Applications	Development of an Eco-Friendly Photoresist Stripper for Advanced Semiconductor Packaging Processes	
		[14:40-15:10] Invited (30')	[14:40-15:05] Invited (25')	[14:40-15:10] Invited (30')	1000000	[14:40-15:00] Oral (20')	[14:30-14:50] Invited (20')	
		Kwangmin Park (Samsung Electronics Co., Ltd.) 01 1120	Taeho Shin (ICD Ltd.) 03 1293	In-Yong Park (KRISS) 06 1072	Byeri Yoon (Samsung SDI) 04 1300	Chang-Jin Lee (Hanyang Univ.) 02 1156	Seok-Joon Lee (ITI) 05 1284	
v. 12		Innovations in Depostion Technologies at the Onset of 3D Devices	r-Wave Resonance-Enhanced ICP Etcher for High-Precision Dry Etching	-	Overview of Innovative Lithography Patterning Process Materials	Mechanism on Formation of Selective Hindrance Layer on Si-Film	FINE Cut and FINE Forming (TGV) of HBM4, Glass Core and Interposer	
/ed.)				(Reflection Electron Energy Loss Spectroscopy)	Contributing to Next Wave of Challenge on Semiconductor	Enhancing Etch-Rate Selectivity of Si1-xGex- to Si-Film		
14:10 -	15:50	[15:10-15:30] Invited (20')	[15:05-15:20] Oral (15')	[15:10-15:40] Invited (30')	[15:10-15:30] Invited (20')	[15:00-15:20] Oral (20')	[14:50-15:10] Invited (20')	
		Van Quang Nguyen (ISAC Research Inc.) 01 1292	Somyeong Shin (Wonik IPS) 03 1019	A.D. Giddings (Infinitesima Ltd.) 06 1180	Hyungkun Lee (Dongjin Semichem Co., Ltd.) 04 1010	Hyun Jun Ryu (KAIST) 02 1195	Jimin Kwon (UNIST) 05 1164	
		ALD/ALE for the Advanced Technology	Crystalline Ultra-Thin High-K Films Enabled by Fluorine-Radical-Based	Applications of High-Speed AFM for Advanced Packaging, EUV	-	Design Rules for Micro-Structured Chemical Mechanical Polishing Pads	Glass Package Substrates for High-Performance Chiplet Systems	
		[15:30-15:50] Oral (20')	Atomic Layer Etching [15:20-15:35] Oral (15')	Lithography and CMP	Optimization Strategies [15:30-15:50] Invited (20')	to Enhance MRR [15:20-15:40]	[15:10-15:30] Invited (20')	
		Myung-Jin Jung (Pusan Nat'l Univ.)	Chang-Min Lim (Hanyang Univ.)		Byeonggeun Kim (SEMES)	Nandan Baradanahalli Kenchappa (Applied Materials)	Ah-Young Park (Univ. of Seoul)	
		01_1205 Development of ALD-Based Initial Surface Control Technology for Sub-	03_1264 Study on SiO ₂ Atomic Scale Etching Using Selective Control of Ar		04_1204 EUV mask local CD correction system development via laser irradiation	02_1295 CMP: Enabling Advanced Packaging for the AI Era	05_1167 Bonding Strength and Fracture Behavior in Patterned Cu-SiO ₂ Hybrid	
		10 nm Continuous Ir Films in Advanced Interconnect Metallization	Metastable Atom Generation			(Pre-recorded video presentation)	Interfaces	
							[15:30-15:50] Invited (20')	
							Hongyun So (Hanyang Univ.) 05 1200	
							Development of Optical Interconnection Core Technologies for	
							Implementation and Reliability Enhancement of Co-Packaged Optics	
15:50 -	16:05	WeA3 (Thin Film)		Br	reak WeD3 (Litho)	WeE3 (CMP)	WeF3 (PKG)	
		Nanoscale Thin Film Deposition V			Computational Lithography & Mask	Reliability and Integration Challenges in Advanced Packaging	Advanced Designs, Processing, and Reliability	
		Session Chair: Prof. Woo-Jae Lee (Pukyong National Univ., Korea)				Session Chair: Prof. Tae-Dong Kim (Hannam Univ., Korea)	Session Chair: Dr. Tae-Ik Lee (KITECH, Korea)	
		[16:05-16:35] Invited (30') Jin-Seong Park (Hanyang Univ.)			[16:05-16:35] Invited (30') Jeonghoon Lee (imec)	[16:05-16:25] Invited (20') Jae-Dong Lee (KCTech)	[16:05-16:25] Invited (20') Hak-Sung Kim (Hanyang Univ.)	
		01_1220				02_1079	05_1178	
		Atomically Ordered ALD Oxide Semiconductors for High-Mobility, Low- Temperature Logic and BEOL Integration			EUV and High-NA EUV Patterning for DRAM Scaling: Challenges and Opportunities	Emerging CMP Solutions For Next Generation Advanced Packaging Process	Advanced Flip-chip Bonding Process via Intense Pulsed Light Irradiation: From Single-Chip to Multi-Chip Stacking Applications	
		[16:35-17:05] Invited (30')				[16:25-16:55] Invited (30')	[16:25-16:45] Invited (20')	
		Young-Rae Cho (Pusan Nat'l Univ.) 01 1113			Su-Mi Hur (Chonnam Nat'l Univ.) 04 1201	Young-Hoo Kim (Samsung Electronics Co., Ltd.) 02 1203	Junyong Park (Kyung Hee Univ.) 05 1150	
		High-Performance Transparent Conducting Oxides via Nano-Textured			From Molecular Simulations to Artificial Intelligence for Advanced	Wet Cleaning Process Issues with Memory Device Scaling	Statistical Signal Integrity Analysis with Nonideal Buffer of DFE for	
					Patterning Materials Designs		Chiplet [16:45-17:05] Invited (20')	
16-05	17-45	Substrates and Ag Interlayer			[16:55-17:10] Oral (15')	[16:55-17:15] Oral (20')		
16:05 -	17:45	Substrates and Ag Interlayer [17:05-17:25] Oral (20') Minji Kim (Ewha Womans Univ.)			Seong-Ji Ha (UNIST)	[16:55-17:15] Oral (20') Man-Hyup Han (Hanyang Univ.)	Tae-Ik Lee (KITECH)	
16:05 -	17:45	Substrates and Ag Interlayer [17:05-17:25] Oral (20') Minji Kim (Ewha Womans Univ.) 01_1090			Seong-Ji Ha (UNIST) 04_1279	Man-Hyup Han (Hanyang Univ.) 02_1086	Tae-lk Lee (KITECH) 05_1213	
16:05 -	17:45	Substrates and Ag Interlayer [17:05-17:25] Oral (20') Minji Kim (Ewha Womans Univ.)			Seong-Ji Ha (UNIST) 04_1279 Pioneering Carboxylated Zirconium Oxo Cluster Resist for Precision	Man-Hyup Han (Hanyang Univ.)	Tae-Ik Lee (KITECH) 05_1213 Visualized Thermo-Mechanical Failure Mechanisms in Advanced Semiconductor Package Interconnects via Microscale Deformation	
16:05 -	17:45	Substrates and Ag Interlayer [17:05-17:25] Oral (20') Minji Kim (Ewha Womans Univ.) 01_1090 Theoretical Study of Radical Decomposition of Low GWP Alternative Gases and Fluorocarbon Film Formation on SiO2			Seong-Ji Ha (UNIST) 04_1279 Pioneering Carboxylated Zirconium Oxo Cluster Resist for Precision Nanoscale Patterning	Man-Hyup Han (Hanyang Univ.) 02_1086 Fenton Reaction Enhancing Significant Chemical Oxidation for Ag Chemical Mechanical Planarization	Tae-Ik Lee (KITECH) 05_1213 Visualized Thermo-Mechanical Failure Mechanisms in Advanced Semiconductor Package Interconnects via Microscale Deformation Analysis	
16:05 -	17:45	Substrates and Ag Interlayer [17:05-17:25] Oral (20') Minji Kim (Ewha Womans Univ.) 01_1090 Theoretical Study of Radical Decomposition of Low GWP Alternative Gases and Fluorocarbon Film Formation on SiO2 [17:25-17:45] Oral (20') Gyeong Min Jeong (Hanyang Univ.)			Seong-Ji Ha (UNIST) 04-1279 Pioneering Carboxylated Zirconium Oxo Cluster Resist for Precision Nanoscale Patterning [17:10-17:30] Invited (20') Rieko Nishimura (NuFlare Technology, Inc.)	Man-Hyup Han (Hanyang Univ.) 02_1086 Fenton Reaction Enhancing Significant Chemical Oxidation for Ag Chemical Mechanical Planarization [17:15-17:35] Oral (20') Min UK Jeon (Hanyang Univ.)	Tae-Ik Lee (KITECH) 05_1213 Visualized Thermo-Mechanical Failure Mechanisms in Advanced Semiconductor Package Interconnects via Microscale Deformation Analysis [17:05-17:25] Oral (20') Haksoon Jung (UNIST)	
16:05 -	17:45	Substrates and Ag Interlayer [17:05-17:25] Oral (20') Minji Kim (Ewha Womans Univ.) 01-1090 Theoretical Study of Radical Decomposition of Low GWP Alternative Gases and Fluorocarbon Film Formation on SiO2 [17:25-17:45] Oral (20')			Seong-Ji Ha (UNIST) 04_1279 Pioneering Carboxylated Zirconium Oxo Cluster Resist for Precision Nanoscale Patterning [17:10-17:30] Invited (20') Rieko Nishimura (NuFlare Technology, Inc.) 04_1155	Man-Hyup Han (Hanyang Univ.) 02_1086 Fenton Reaction Enhancing Significant Chemical Oxidation for Ag Chemical Mechanical Planarization [17:15-17:35] Oral (20') Min Uk Jeon (Hanyang Univ.) 02_1082	Tae-Ik Lee (KITECH) 05_1213 Visualized Thermo-Mechanical Failure Mechanisms in Advanced Semiconductor Package Interconnects via Microscale Deformation Analysis [17:05-17:25] Oral (20') Haksoon Jung (UNIST) 05_1148	
16:05 -	17:45	Substrates and Ag Interlayer [17:05-17:25] Oral (20') Minji Kim (Ewha Womans Univ.) 01_1090 Theoretical Study of Radical Decomposition of Low GWP Alternative Gases and Fluorocarbon Film Formation on SiO2 [17:25-17:45] Oral (20') Gyeong Min Jeong (Hanyang Univ.) 01_1241			Seong-Ji Ha (UNIST) 04.1279 Pioneering Carboxylated Zirconium Oxo Cluster Resist for Precision Nanoscale Patterning [17:10-17:30] Invited (20') Rieko Nishimura (NuFlare Technology, Inc.) 04.1155 MBM-4000; electron multi-beam mask writer for advanced mask making	Man-Hyup Han (Hanyang Univ.) 02_1086 Fenton Reaction Enhancing Significant Chemical Oxidation for Ag Chemical Mechanical Planarization [17:15-17:35] Oral (20') Min UK Jeon (Hanyang Univ.)	Tae-Ik Lee (KITECH) 05_1213 Visualized Thermo-Mechanical Failure Mechanisms in Advanced Semiconductor Package Interconnects via Microscale Deformation Analysis [17:05-17:25] Oral (20') Haksoon Jung (UNIST) 05_1148 3D-Printed Organic Interposer with Embedded Fan-Out Interconnects Enabled by Additive Manufacturing	
16:05 -	17:45	Substrates and Ag Interlayer [17:05-17:25] Oral (20') Minji Kim (Ewha Womans Univ.) 01_1090 Theoretical Study of Radical Decomposition of Low GWP Alternative Gases and Fluorocarbon Film Formation on SiO2 [17:25-17:45] Oral (20') Gyeong Min Jeong (Hanyang Univ.) 01_1241 Work Function Modulation of Chlorine-Free TiAIN Films through			Seong-Ji Ha (UNIST) 04.1279 Pioneering Carboxylated Zirconium Oxo Cluster Resist for Precision Nanoscale Patterning [17:10-17:30] Invited (20') Rieko Nishimura (NuFlare Technology, Inc.) 04.1155 MBM-4000; electron multi-beam mask writer for advanced mask making [17:30-17:45] Oral (15')	Man-Hyup Han (Hanyang Univ.) 02_1086 Fenton Reaction Enhancing Significant Chemical Oxidation for Ag Chemical Mechanical Planarization [17:15-17:35] Oral (20') Min Uk Jeon (Hanyang Univ.) 02_1082 Si-Wafer Polishing Rate Enhancement by Amine Functional Group as	Tae-Ik Lee (KITECH) 05_1213 Visualized Thermo-Mechanical Failure Mechanisms in Advanced Semiconductor Package Interconnects via Microscale Deformation Analysis [17:05-17:25] Oral (20') Haksoon Jung (UNIST) 05_1148 3D-Printed Organic Interposer with Embedded Fan-Out Interconnects Enabled by Additive Manufacturing [17:25-17:45] Oral (20')	
16:05 -	17:45	Substrates and Ag Interlayer [17:05-17:25] Oral (20') Minji Kim (Ewha Womans Univ.) 01_1090 Theoretical Study of Radical Decomposition of Low GWP Alternative Gases and Fluorocarbon Film Formation on SiO2 [17:25-17:45] Oral (20') Gyeong Min Jeong (Hanyang Univ.) 01_1241 Work Function Modulation of Chlorine-Free TiAIN Films through			Seong-Ji Ha (UNIST) 04_1279 Pioneering Carboxylated Zirconium Oxo Cluster Resist for Precision Nanoscale Patterning [17:10-17:30] Invited (20') Rieko Nishimura (NuFlare Technology, Inc.) 04_1155 MBM-4000; electron multi-beam mask writer for advanced mask making [17:30-17:45] Oral (15') Asheesh Nautiyal (Gudeng Precision Industry Co., Ltd.) 04_1007	Man-Hyup Han (Hanyang Univ.) 02_1086 Fenton Reaction Enhancing Significant Chemical Oxidation for Ag Chemical Mechanical Planarization [17:15-17:35] Oral (20') Min Uk Jeon (Hanyang Univ.) 02_1082 Si-Wafer Polishing Rate Enhancement by Amine Functional Group as	Tae-Ik Lee (KITECH) 05,1213 Visualized Thermo-Mechanical Failure Mechanisms in Advanced Semiconductor Package Interconnects via Microscale Deformation Analysis (17:05-17:25] Oral (20') Haksoon Jung (UNIST) 05,1148 3D-Printed Organic Interposer with Embedded Fan-Out Interconnects Enabled by Additive Manufacturing [17:25-17:45] Oral (20') Jonghee Park (Myongji Univ.) 05,1091	
	17:45	Substrates and Ag Interlayer [17:05-17:25] Oral (20') Minji Kim (Ewha Womans Univ.) 01.1090 Theoretical Study of Radical Decomposition of Low GWP Alternative Gases and Fluorocarbon Film Formation on SiO2 [17:25-17:45] Oral (20') Gyeong Min Jeong (Hanyang Univ.) 01.1241 Work Function Modulation of Chlorine-Free TiAIN Films through Controlled Al Incorporation by Thermal ALD		S.	Seong-Ji Ha (UNIST) 04,1279 Pioneering Carboxylated Zirconium Oxo Cluster Resist for Precision Nanoscale Patterning [17:10-17:30] Invited (20') Rieko Nishimura (NuFlare Technology, Inc.) 04,1155 MBM-4000; electron multi-beam mask writer for advanced mask making [17:30-17:45] Oral (15') Asheesh Nautiyal (Gudeng Precision Industry Co., Ltd.)	Man-Hyup Han (Hanyang Univ.) 02_1086 Fenton Reaction Enhancing Significant Chemical Oxidation for Ag Chemical Mechanical Planarization [17:15-17:35] Oral (20') Min Uk Jeon (Hanyang Univ.) 02_1082 Si-Wafer Polishing Rate Enhancement by Amine Functional Group as	Tae-Ik Lee (KITECH) 05_1213 Visualized Thermo-Mechanical Failure Mechanisms in Advanced Semiconductor Package Interconnects via Microscale Deformation Analysis [17:05-17:25] Oral (20') Haksoon Jung (UNIST) 05_1148 3D-Printed Organic Interposer with Embedded Fan-Out Interconnects Enabled by Additive Manufacturing [17:25-17:45] Oral (20') Jonghee Park (Myongji Univ.)	

[KISM 2025 BUSAN] Program at a Glance (ver. 2025. 11. 04)

Time	Room A (Capri Room, 2F)	Room B (Grand Ballroom 1, 2F)	Room C (Grand Ballroom 3, 2F)	Room D (Sydney Room, 2F)	Room E (Sicily Room, 1F)	Room F (Panorama Room, 16F)	
- 11 '	ThA1 (Thin Film)	ThB1 (Etching)	ThC1 (MI)	ThD1 (Litho)	ThE1 (CMP)	ThF1 (ESG)	
	Nanoscale Thin Film Deposition VI	Atomic Scale Etching	Advanced Metrology & Inspection, Process Diagnostics & Control, and Yield Management V	Process & Mask	CMP for Heterogeneous Integration and New Materials	Carbon Neutrality in Semiconductor Industry I	
- 11 '	Session Chair: Prof. Young-Rae Cho (Pusan National Univ., Korea)	Session Chair: Prof. Thi-Thuy-Nga Nguyen (Nagoya Univ., Japan)	Session Chair: Dr. Dae-Woong Kim (KIMM, Korea)	Session Chair: Mr. Jeonghoon Lee (imec, Belgium)	Session Chair: Prof. Kangchun Lee (Kwangwoon Univ., Korea)	Session Chair: Prof. Hongsik Jeong (UNIST, Korea)	
- 11 '	[09:00-09:30] Invited (30')	[09:00-09:30] Invited (30')	[09:00-09:20] Invited (20')	[09:00-09:45] Plenary (45')	[09:00-09:45] Plenary (45')	[09:00-09:45] Plenary (45')	
- 11 '	Changhwan Choi (Hanyang Univ.)	Yeonghun Han (SK hynix Inc.)	Won Jun Jang (Sungkyunkwan Univ.)	Kurt Ronse (imec)	K. Mikhaylichenko (Applied Materials)	Shih-Nan Hsiao (Nagoya Univ.)	
- 11 '	01_1278	03_1026	06_1234	04_1221	02_1280	08_1040	
- 11 '	Multi-Threshold Voltage (Vth) Engineering using ALD TaN-based HKMG	Challenges and Approaches of HARC Patterning for Al Memory Devices	High-/Low-Pressure Swing Annealing for Uniform Curing of High-	Advances in Lithography and Patterning for Logic and DRAM	Role of CMP in Enabling New Materials for Heterogeneous Integration	Advances in Etching Technologies for Next Generation Semiconductor	
	Gate Stack for Advanced Logic and DRAM Devices		Aspect-Ratio TiN Electrodes in DRAM Capacitors			Manufacturing Towards Sustainable Development Goals	
	[09:30-09:50] Invited (20')	[09:30-10:00] Invited (30')	[09:20-09:50] Invited (30') [09:45-10:15] Invited (30')	[09:45-10:15] Invited (30')	[09:45-10:15] Invited (30')	[09:45-10:10] Invited (25')	
- 11 '	Seul-Gi Kim (KETI)	Taewook Nam (Sejong Univ.)	Ali Ozhan Altun (UNISERS AG)	Heeyoul Lim (SK hynix Inc.)	Taeseup Song (Hanyang Univ.)	Jeongsoon Lee (KRISS)	
	01_1253	03_1041	06_1122	04_1062	02_1060	08_1035	
09:00 - 10:40	Ultrathin Freestanding Ceramic Membranes for Yield Enhancement in	Conversion-Free Atomic Layer Etching (ALE) of ZnO: Effect of Precursor	A New Approach to High-Throughput Defect Review of Unpatterned	EUV ECO Equal Maximizing Productivity	Oxide Layer Engineering for Cobalt CMP	Estimating GWP Based on a Comprehensive Analysis of R134a: A	
- 11 '	Extreme Ultraviolet Lithography	on the ALE Process	Wafers for Leading Edge Nodes			Method for Accurate Monitoring of Greenhouse Gas Emissions	
- 11 '	[09:50-10:10] Invited (20')	[10:00-10:25] Invited (25')	[09:50-10:20] Invited (30')	[10:15-10:35] Invited (20')	[10:15-10:45] Invited (30')	[10:10-10:35] Invited (25')	
- 11 '	Jinwoo Kim (HEX A.I. Labs Inc.)	Sangheon Lee (Ewha Womans Univ.)	Hagyoul Bae (Jeonbuk Nat'l Univ.)	Hyun-Dam Jeong (Chonnam Nat'l Univ.)	Haeri Kim (SK hynix Inc.)	Wontae Noh (Wonik IPS)	
- 11 '	01 1236	03 1184	06 1291	04 1177	02 1202	08 1065	
- 11 '	Transforming Semiconductor Manufacturing with Al: Changing the	Ab Initio Analysis of Atomistic Diffusion of Halogen Species at the	Advanced Technique for Analysis of Defect States in Future 3D	Recent Progress in Tin-Based Inorganic Molecular Resists for EUV	Hybrid Bonding Challenges and Advanced CMP Strategies for Yield	Development of NF3 Alternative Gas for Global Warming Potential	
		Etching Front	Semiconductor Devices	Lithography and Proposal of Cyclic Siloxane Resist for Blue-X	Enhancement	Reduction	
- [['				Lithography			
- [['		[10:25-10:40] Oral (15')		[10:35-10:50] Invited (15')			
- [] '		Sanghyun Jo (Hanyang Univ.)		Dong Hyup Kim (Chonnam Nat'l Univ.)			
- 11 '		03 1283		04 1210			
- 11 '		Investigation of Wafer Edge Tilting in Capacitively Coupled Plasmas via		Cartridge-Based Van Der Waals Printing for Versatile Device Integration			
- 11 '		IEADF-Driven Monte Carlo Feature-Scale Simulation		Cardiage based van ber waars rinning for versatile bevice integration			
10:40 - 10:50		ILADI -Diver Monte Cano Feature-Scale Simulation	Coffee Brea	ık (Lobby, 2F)			
 ,	ThA2 (Thin Film)	ThB2 (Etching)	ThC2 (MI)	ThD2 (Litho)	ThE2 (CMP)	ThF2 (ESG)	
	Nanoscale Thin Film Deposition VII	Etch Process Monitoring	Advanced Metrology & Inspection, Process Diagnostics & Control, and	Alternative Lithography	Next-Generation Slurries and Pad Technologies	Carbon Neutrality in Semiconductor Industry II	
- 11 '	Session Chair: Prof. Changhwan Choi (Hanyang Univ., Korea)	Session Chair: Prof. Taewook Nam (Sejong Univ., Korea)	Yield Management VI Session Chair: Dr. Jeong Won Kim (KRISS, Korea)	Session Chair: Dr. Jisung Kwon (Korea Univ., Korea)	Session Chair: Prof. Seho Sun (Yeungnam Univ., Korea)	Session Chair: Prof. Hu Young Jeong (UNIST, Korea)	
- 11 '	[10:50-11:20] Invited (30')	[10:50-11:05] Oral (15')	[10:50-11:20] Invited (30')	[10:50-11:10] Invited (20')	[10:50-11:10] Oral (20')	[10:50-11:15] Invited (25')	
- 11 '	Woojin Jeon (Kyung Hee Univ.)	Zimeng Wang (Eindhoven Univ. of Tech.)	Seolhye Park (Samsung Display Co., Ltd.)	Minah Seo (Sogang Univ.)	Jae Uk Hur (Soulbrain Co., Ltd.)	Chulhwan Choi (Samsung Electronics Co., Ltd.)	
- 11 '	01 1244	03 1013	06 1114	04 1140	02 1020	08 1054	
	· -	T = T T	117-	1 - 1		-	
		Endpoint Detection of Plasma Etching in Small Open Area based on	Data-Driven Plasma Science-based Plasma Etching Process Design in	Large Scaled Metasurface Design and Fabrication for Terahertz	Synthesis Strategies of Ceria Abrasives for Optimizing Dielectric	Toward Sustainability: Green CVD Approaches for Decarbonizing	
11 1	for the DRAM Capacitor Electrode Applications	Feature Extraction and Trend Identification	OLED and Semiconductor Mass Productions Referring to PI-VM	Electromagnetic Wave Modulation and Their Applications	Chemical Mechanical Planarization Performance	Semiconductor Fabs	
11 1	[11:20-11:40] Invited (20')	[11:05-11:20] Oral (15')	[11:20-11:50] Invited (30')	[11:10-11:30] Invited (20')	[11:10-11:40] Invited (30')	[11:15-11:40] Invited (25')	
	Woo-Jae Lee (Pukyong Nat'l Univ.)	Seonghyeon Seo (Chungnam Nat'l Univ.)	Dae-Woong Kim (KIMM)	Min Seok Jang (KAIST)	Ja-Eung Koo (Dupont)	Yongjin Kim (ECO ENERGEN Co., Ltd.)	
	Woo-Jae Lee (Pukyong Nat'l Univ.) 01_1214	Seonghyeon Seo (Chungnam Nat'l Univ.) 03_1023	Dae-Woong Kim (KIMM) 06_1116	Min Seok Jang (KAIST) 04_1123	Ja-Eung Koo (Dupont) 02_1016	Yongjin Kim (ECO ENERGEN Co., Ltd.) 08_1162	
	Woo-Jae Lee (Pukyong Nat'l Univ.) 01_1214 Optimization of Atomic Layer Deposition Chemistry Toward Advanced	Seonghyeon Seo (Chungnam Nat'l Univ.) 03_1023 Quantitative Analysis of Radical Species in a Plasma Chamber Using	Dae-Woong Kim (KIMM) 06_1116 Advances in plasma diagnostics for process chamber monitoring and	Min Seok Jang (KAIST)	Ja-Eung Koo (Dupont)	Yongjin Kim (ECO ENERGEN Co., Ltd.) 08_1162 Improvement of PFC Gas Treatment Technology for Etching Using	
	Woo-Jae Lee (Pukyong Nat'l Univ.) 01_1214 Optimization of Atomic Layer Deposition Chemistry Toward Advanced Semiconductor Applications	Seonghyeon Seo (Chungnam Nat'l Univ.) 03_1023	Dae-Woong Kim (KIMM) 06_1116	Min Seok Jang (KAIST) 04_1123	Ja-Eung Koo (Dupont) 02_1016	Yongjin Kim (ECO ENERGEN Co., Ltd.) 08_1162	
	Woo-Jae Lee (Pukyong Nat'l Univ.) 01_1214 Optimization of Atomic Layer Deposition Chemistry Toward Advanced	Seonghyeon Seo (Chungnam Nat'l Univ.) 03_1023 Quantitative Analysis of Radical Species in a Plasma Chamber Using	Dae-Woong Kim (KIMM) 06_1116 Advances in plasma diagnostics for process chamber monitoring and	Min Seok Jang (KAIST) 04_1123	Ja-Eung Koo (Dupont) 02_1016	Yongjin Kim (ECO ENERGEN Co., Ltd.) 08_1162 Improvement of PFC Gas Treatment Technology for Etching Using	
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Nov	14	Room A (capit Room, 21)	Room b (Grand Ballicom 1, E1)	Room C (Grand Ballicom 3, Er)	Room D (Sydney Room, 21)	Room E (Sichy Room, 11)	Room (talloralla Room, 101)	LODDy, LI
	08:30-12:00							
(Fri	.) 08:30-17:30				Optional Tour			
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Торіс	Session	How to See the Session Codes						
1. Nanoscale Thin Film Deposition	TuA1, TuA2, WeA1, WeA2, WeA3, ThA1, ThA2			_			D	
2. Advanced CMP & Cleaning	TuE1, TuE2, WeE1, WeE2, WeE3, ThE1, ThE2	Day of Week		Room	Session No.	Presentation No.	Presentation Cod	
3. Advanced Etching Technology	TuB1, TuB2, WeB1, WeB2, ThB1, ThB2	Tuesdav Tu		Α	1	1	TuA1-1	
4. Advanced Lithography + Patterning	WeD1, WeD2, WeD3, ThD1, ThD2		-		-			
5. Advanced Packaging Technology	TuF2, WeF1, WeF2, WeF3	Wednesday	We	В	2	2	WeB2-2	
6. Advanced Metrology & Inspection, Process Diagnostics & Control,	TuC1, TuC2, WeC1, WeC2, ThC1, ThC2	Thursday	Th	С	3	3	ThC3-3	
and Yield Management	Tuci, Tucz, weci, wecz, Inci, Incz		1					
7. Power Semiconductor Devices and Manufacturing Process	TuD1, TuD2							
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