	Гime		Room A (Capri Room, 2F, Paradise Hotel Busan)				om D Paradise Hotel Busan)		Lobby, 2F, Paradi Busan & Lobby, ! Josun Busa	
14:00	- 17:00	Tutorial 1 (in Korean Language) Technology Trend of Advanced package for AI semiconductor Dr. Minsuk Suh (Camtek Korea, Korea)		Tutorial 2 (in Korean Language) Development Trend and Prospect of NAND Memory Device and Process Integration Prof. Changhan Kim (Hanyang Univ., Korea)						
17:00			Short Course (in Korean Language)		Break					
17:15	- 18:15 - 20:00		The Principle and Device Structure of DRAM VP. In-Ho Nam (PeDiSem Ltd., Korea)		Welcome Reception (Sicily Room, 1F, Paradise H	Hotel Busan)				
	11 -514									
	Гime	Room A (Capri Room, 2F, Paradise Hotel Busan)	Room B (Grand Ballroom 1, 2F, Paradise Hotel Busan)	Room C (Grand Ballroom 3, 2F, Paradise Hotel Busan)	Room D (Sidney Room, 2F, Paradise Hotel Busan)	Room E (Sicily Room, 1F, Paradise Hotel Busan)	Room F (Ballroom, 5F)	Room G (Meeting Room, 5F)	Lobby, 2F, Para Busan & Lobby Josun Bu	
10:00	- 10:45	The Evolution of Metrology &			rry Session I (Capri Room, 2F, Paradise Hotel Busan) ry & Inspection Technologies in Semiconductor; Past, Pro	esent, and Future				
10:45	- 11:00				Yusin Yang (Samsung Electronics Co., Ltd., Korea) Coffee Break					
11:00 11:30	- 11:30 - 13:00			Opening Ce	remony (Grand Ballroom 1, 2, 3, 2F, Paradise Hotel Busa Lunch	an)				
12.50	15.00	TuA1 (CMP)	TuB1 (Power)		TuD1 (Litho)	TuE1 (Etching)	TuF1 (Thin Film)	TuG1 (MI)		
		Advanced Ceria Abrasive Based CMP	Power Device I	[13] Sai O4, Ne of De [13] W0 O4, Thh abo De	Advanced Lithography I	Plasma Surface Interaction	Nano Thin Film Deposition I	Frontier Metrology and Modeling I		
		Session Chair: Jihoon Seo (Clarkson Univ) [13:00-13:25] Invited (25') Satoyuki Nomura (Resonac) 02_1141 Effect of Ceria Surface Orientation on SiO ₂ CMP	Session Chair: Jang-Kwon Lim (RISE Research) [13:00-13:45] Plenary (45') Scott Allen (Onsemi) 07_1159 Silicon Carbide MOSFETs for Efficient EV Drivetrains and Renewable Energy Conversion		Session Chair: Youself Drissi (imec) [13:00-13:45] Plenary (45') Sandip Halder (imec) 04_1285 Next-Generation Semiconductor Manufacturing: Role of EUV Lithography and Advanced Process Development	Session Chair: Chin-Wook Chung (Hanyang Univ.) [13:00-13:45] Plenary (45') Jean-Paul Booth (CNRS) 03_1061 Atom Recombination on Surfaces in Plasmas - an Experimental Study	Session Chair: Woo Hee Kim (Hanyang Univ.) [13:00-13:45] Plenary (45') Steven George (Univ. of Colorado) 01_1185 New Mechanisms for Metal Thermal Atomic Layer Etching	Session Chair: Hyungtak Seo (Ajou Univ.) [13:00-13:45] Plenary (45') Ye Feng (Intel Corp.) 06.1287 Process Optimization and Control in Dry Etch		
13:00	- 14:40	[13:25-13:50] Invited (25') Keon-Soo Jang (Univ of Suwon) 02_1076 Development of Spherical Wet Ceria Slurry for Improved Chemica and Mechanical Planarization Performances	[13:45-14:15] Invited (30') Sang-Mo Koo (Kwangwoon Univ.) 07_1269 ISIC MOSFET: Recent Research Trends on Device Structures and Deep-Level Defects		[13:45-14:15] Invited (30') Woojin Jung (Samsung Electronics Co., Ltd.) 04.1149 The Challenges of EUVL Patterning and Discussion about the Technology to Prepare for Next Generation Devices	[13:45-14:05] Oral (20') Chang-Koo Kim (Ajou Univ.) 03_1168 Plasma Etching of Silicon Carbide Using Low-GWP Heptafluoroisopropyl Methyl Ether	[13:45-14:15] Invited (30') Satoshi Hamaguchi (Osaka Univ.) 01_1234 Surface Reaction Mechanisms of SiN ALD Analyzed with Atomic-Scale Simulations	[13:45-14:05] Oral (20') Sanghee Han (Sungkyunkwan Univ.) 06, 1205 Etch Rate Uniformity Monitoring for Photoresist Etch Using Multi-Channel Optical Emission Spectroscopy in an Inductively Coupled Plasma Reactor		
		[13:50-14:15] Invited (25') Jaedong Lee (KCTech) 02_1099 Colloidal Ceria Innovation and Its Behaviors in Accordance with Abrasive Size	[14:15-14:40] Invited (25') Youseung Rim (Sejong Univ.) 07_1181 Interface Engineering of Ultra-Wide Bandgap Gallium Oxide-Based Power Devices		[14:15-14:45] Invited (30') Sangsul Lee (POSTECH) 04_1277 Integrating Actinic EUV Metrology with Advanced Analytical Technologies	[14:05-14:25] Oral (20') Hojin Kang (Sungkyunkwan Univ.) 03_1220 Plasma-Enhanced Atomic Layer Etching of Tantalum Nitride with Surface Fluorination and Ar Sputtering	[14:15-14:40] Invited (25') Sang Ick Lee (DNF Co. Ltd.) 01_1191 Surface Adsorption/Desorption Reactions and Precursor Design for ALD/ALE	[14:05-14:25] Oral (20') Seob Sim (SK Siltron) 06_1281 Measuring Electrical Resistivity of p-Type Si Wafer with Low Dopant Concentration and Its Dependence on Thermal Donor Formation and Surface Treatments	_	
14:40	- 14:55	[14:15-14:35] Oral (20') Min-Uk Jeon (Hanyang Univ) 02_1198 Dependency of Amine Surfactant on Diameter and Morphology of Colloidal Silica Abrasives	ıf		Coffee Break				Exhibi	
14.40	14.55	TuA2 (CMP)	TuB2 (Power)		TuD2 (Litho)	TuE2 (Etching)	TuF2 (Thin Film)	TuG2 (MI)		
		Challenges and Opportunities in CMP	Power Device II		Advanced Lithography II	Advanced Device and Processes	Nano Thin Film Deposition II	Frontier Metrology and Modeling II		
		Session Chair: Keon-Soo Jang (Univ of Suwon)	Session Chair: Ogyun Seok (Pusan Nat'l Univ.)		Session Chair: Sangsul Lee (POSTECH)	Session Chair: Jean-Paul Booth (Inst. Polytechnique de Paris)	Session Chair: Satoshi Hamaguchi (Osaka Univ.)	Session Chair: Tae-Hun Shim (Hanyang Univ.)		
		[14:55-15:25] Invited (30') Hyo-Chol Koo (SK Hynix) 02_1189 Planarization for Advanced Semiconductor Processing: Challenges	[14:55-15:25] Invited (30') Wonjae Lee (Dong-Eui Univ.) 07_1217 High Quality SiC Single Crystals Obtained with		[15:00-15:30] Invited (30') Kyoungho Jang (TEL) TEL's Challenge for High NA EUV	[15:00-15:30] Invited (30') Ilgyo Koo (imec) 03_1079 The Next Generation of Complementary FET (CFET)	[14:55-15:25] Invited (30') Jinhee Park (SK Hynix) 01_1163 The Challenges and the Future of Thin Film Technology	[15:00-15:30] Invited (30') Sang-Joon Cho (Park Systems) 06_1072 Bridging the Gap: From Surface Topography to		
		and Opportunities	Modification of Crucible Structure and Process Condition in PVT Growth			Etch Challenge and Progress	in the New Era of Paradigm Shift	Semiconductor Applications with ISE and AFM		
14:55	- 16:35	- 16:35	[15:25-15:55] Invited (30') Jihoon Seo (Clarkson Univ) 02_1009 Eco-Innovations in Semiconductor Manufacturing: Sustainable CMP Approaches for the Next Generation [15:25-15:50] Invited (25') Yusup Jung (PowerCubeSemi Inc.) 07_1225 Investigation of β-Ga ₂ O ₃ Based Hetero-Junction Barrier Schottky Diode		[15:30-16:00] Invited (30') Seo-Min Kim (SK hynix) 04_1262 High NA EUV Lithography: Prospects and Challenges	[15-30-16:00] Invited (30') Huichan Seo (SK hynix) 03_1249 Recent Trend and Challenge of Advanced Dry Etching Technology	[15:25-15:50] Invited (25') Il Kwon Oh (Ajou Univ.) 01_1066 Recent Development of Area-Selective Atomic Layer Deposition for Electronic Devices	[15:30-16:00] Invited (30') Sung Beom Cho (Ajou Univ.) 06_1086 Multiscale Simulation and AI-Driven Approaches for Comprehensive Understanding of Advanced Materials and Semiconductor Processing		
		[15:55-16:15] Invited (20') Eun Su Jung (Chung Ang Univ) 02_1069 Monitoring of Slurry Components and Concentrations for CMP Process via Raman Spectroscopy	[15:50-16:15] Invited (25') Hyemin Kang (KENTECH) 07_1077 Flat Wire Inductor for Wide Bandgap Power Devices' Characterization		[16:00-16:30] Invited (30') Youssef Drissi (imec) 04_1144 High NA EUV: What does it change for Design, OPC and Mask?	[16:00-16:20] Oral (20') Daeun Hong (Sungkyunkwan Univ.) 03_1212 Selective Isotropic Atomic Layer Etching of Si ₃ N ₄ over SiO ₂ with Surface Fluorination Using CF ₄ /H ₂ O Plasma and Thermal Heating	[15:50-16:10] Oral (20') Sangyeop Jo (Wonik IPS) 01_1172 Development of Warpage Control Technique for High- STACK 3D NAND Flash Memory Device	[16:00-16:30] Invited (30') Taegeun Kim (CUBIXEL) 06_1243 Recent Progress of Display and Semiconductor Unspection Using FSH (Flying-over Scanning Holography)		
		[16:15-16:35] Oral (20') Man-Hyup Han (Hanyang Univ) 02_1195 Sulfate Radical Oxidation for Enhancing Polishing-Rate for WC-Film Chemical Mechanical Planarization	[16:15-16:35] Oral (20') Min Seok Jang (Pusan Nat'l Univ.) 07_1137 Study for the 4H-SiC FIN-Channel MOSFET with Additional Channels with Improved the Electrical Characteristics				[16:10-16:30] Oral (20') Yuhei Otaka (The Univ. of Tokyo) 01_1120 Low Temperature Flow Modulation (FM)-CVD for High Thermal Conductivity AIN Film Formation for Advanced 3DICs	[16:30-17:00] Invited (30') Jae-Hyun Kim (SK hynix) 06_1309 Next Generation Metrologies in Support of Emerging Materials and Devices		
			Characteristics							
	- 16:50 - 17:40			on I (Grand Ballroom 4, 2F, Paradise Hotel Busan) / Topi	Break			om, 5F, Grand Josun Busan) / Topic 1		

Time	Room A (Capri Room, 2F, Paradise Hotel Busan)	Room B (Grand Ballroom 1, 2F, Paradise Hotel Busan)	Room C (Grand Ballroom 3, 2F, Paradise Hotel Busan)	Room D (Sidney Room, 2F, Paradise Hotel Busan)	Room E (Sicily Room, 1F, Paradise Hotel Busan)	Room F (Ballroom, 5F)	Room G (Meeting Room, 5F)		
	WeA1 (CMP)	WeB1 (Power)	WeC1 (PKG)	WeD1 (Litho)	WeE1 (Etching)	WeF1 (Thin Film)	WeG1 (MI)		
	CMP Innovations	Power Device III	Advanced Bonding Technology	Lithography Process I	Advanced Etching I	Nano Thin Film Deposition III Session Chair: Jeong Hwan Han (Seoul Nat'l Univ. of	Frontier Metrology and Modeling III		
	Session Chair: Tae-Dong Kim (Hannam Univ)	Session Chair: Ho-Jun Lee (Pusan Nat'l Univ.)	Session Chair: Gu-Sung Kim (Kangnam Univ.)	Session Chair: Chawon Koh (Yonsei Univ.) [09:00-09:45] Invited (45') - Online	Session Chair: Peter Ventzek (Tokyo Electron America)	Science and Tech.)	Session Chair: Sung Beom Cho (Ajou Univ.)		
	[09:00-09:30] Invited (30')		[09:00-09:45] Plenary (45')	Anthony Yen (ASML)	[09:00-09:30] Invited (30')	[09:00-09:30] Invited (30')	[09:10-09:40] Invited (30') Mohit Kumar (Ajou Univ.)		
	Sanha Kim (KAIST) 02 1301		Tadatomo Suga (Unv. of Tokyo) 05 1294	04_1302	Chanmin Lee (Samsung Electronics) 03 1237	Taewook Nam (Sejong Univ.) 01 1128	06_1068		
	Surface-Structured Pads for Scratch-Less Chemical Mechanical	RISE Wide Bandgap Technology for System Integration:		EUV Lithography – Latest Progress and Outlook		Growth Inhibition of ZnS ALD by Atomic Layer Etching	Advancements in Metrology for Materials and Device Characterization: Exploring Innovative In-Materials		
	Polishing	Research Activities and Facilities	Integration Current Status and Future Prospects		Microelectronics	for Area Selective Deposition	Processing Techniques for Emerging Applications		
			[09:45-10:15] Invited (30')		[09:30-10:00] Invited (30')		у тольный толь		
	[09:30-10:00] Invited (30')	[09:30-09:55] Invited (25')	Thomas Glinsener (EV Group.)	[09:45-10:15] Invited (30') Toru Kimura (JSR Corp.)	YS Kim (SEMES)	[09:30-09:55] Invited (25')	[09:40-10:10] Invited (30')		
00 - 10:4	Wei-Tsu Tweng (IBM) 0 02_1014		05_1160	04 1307	03_1161	Woo-Jae Lee (Pukyong Nat'l Univ.) 01 1153	Younghoon Sohn (Samsung Electronics)		
20	The Mechanical Aspects of Chemical Mechanical Planarization	Current Status of R.Ga.O. Single Crystals by Edge-	The Role of Hybrid Bonding in Modern Semiconductors	Advanced Lithography Technology Materials towards	Controlling Lateral Modification on Plasma Oxidation Using Optimizing Plasma Conditions during Isotropic	Atomic Layer Deposition Process and Its Application	06_1075 Data Intelligence for Semiconductor Autonomous Fab		
	(CMP): Its Known, Unknown, and Challenges in Industry	Defined Film-Fed Growth Method	Semiconductors	Next Generation; Challenges and Opportunities	Atomic Layer Etching	for Semiconductor Field	Data Intelligence for Semiconductor Autonomous Pab		
	[10:00-10:20] Oral (20')	[09:55-10:15] Oral (20')	[10:15-10:40] Invited (25')		[10:00-10:20] Oral (20')		[10:10-10:40] Invited (30')		
	Sohee Hwang (Hannam Univ)		Seak-Joon Lee (ITI)		Heeju Ha (Sungkyunkwan Univ.)	[09:55-10:20] Invited (25') Van Quang Nguyen (ISAC Research Inc.)	Jeong Won Kim (KRISS)		
	02_1167 Study on CMP Performance of Ceria Nanoparticles according to		05_1308 FINE Cut for HBM Wafer and FINE Forming for TVG of		03_1216 Plasma-Enhanced Atomic Layer Etching of Titanium	01_1201	06_1209 Semiconductor Electronic Structure Measurement by		
	Differences in Synthesis Method		Glass Substrate		Nitride Using Surface Fluorination or Chlorination	Atomic-Layer-Deposition for the Advanced Technology	Photoelectron Spectroscopy		
	[10:20-10:40] Oral (20')	[10:15-10:35] Oral (20')				[10:20-10:40] Oral (20')	,		
	Pil-Su Kim (Hanyang Univ)	Dusan Baek (Pusan Nat'l Univ.)				Jeonghee Jo (EUGENETECH)			
	02_1197	07_1062				01_1012			
	Dependencies of Super-Fine Wet-Ceria Abrasive on Solubility Enhancement Surfactant Having Amine Functional Group	A Low Gate-to-Drain Charge of 1.2 kV SiC DMOSFETs Utilizing a H-Shaped Poly-Si Gate				A New Plasma Source for ALD Process in Large Batch System			
40 10:5				Coffee Break					
				ry Session II (Capri Room, 2F, Paradise Hotel Busan)					
55 - 11:4	0			ective Deposition for Advanced Semiconductor Devices Gregory Parsons (North Carolina State Univ., USA)					
40 - 13:1	0		Prot.	Lunch					
.5 15:1			Plenai	ry Session III (Capri Room, 2F, Paradise Hotel Busan)					
10 - 13:5	55		Wide Ban	ndgap Power Electronics: Challenges and a Path Forward					
			Pi	rof. Robert Nemanich (Arizona State Univ., USA)					
55 - 14:1			W 22 7W2	Coffee Break					
	WeA2 (CMP) Advanced Cu and Mo CMP	WeB2 (ESG) Carbon Neutrality in Semiconductor Industry I	WeC2 (PKG)	WeD2 (Litho)	WeE2 (Etching) Advanced Etching II	WeF2 (Thin Film)	WeG2 (MI)		
	Session Chair: Ho Jun Kim (Hanyang Univ.)	Session Chair: Hankwon Lim (UNIST)	Hybrid Bonding & Evaluations Session Chair: Kwang-Seong Choi (ETRI)	Lithography Process II Session Chair: Su-Mi Hur (Chonnam Nat'l Univ.)	Session Chair: Steve Shannon (North Calorina Univ.)	Nano Thin Film Deposition IV Session Chair: Mihaela Popovici (imec)	Frontier Metrology and Modeling IV Session Chair: Kumar Mohit (Ajou Univ.)		
				[14:10~14:40] Invited (30')			Session chair. Rumar World (Ajou Ontv.)		
	[14:10-14:40] Invited (30')	1.	[14:10-14:40] Invited (30') Jean-charles Souriau (CEA Leti)	Youngmin You (Yonsei Univ.)	[14:10-14:40] Invited (30')	[14:10-14:40] Invited (30')	[14:10-14:40] Invited (30')		
	Kangchun Lee (Kyonggi Univ.) 02 1029	Hyukhwa Kwon (SK hynix) 08 1057	05 1084	04_1238 Layer-Ordered Organotin Clusters for Extreme-	Peter Ventzek (Tokyo Electron America) 03 1070	Hanmei Choi (Samsung Electronics) 01 1021	Dieter Van den Heuvel (imec)		
	Predicting Corrosion Inhibition Efficiency based on Charge	Research on Carbon Neutrality Efforts and Product Life	3D & Heterogeneous Integration at CEA-Leti for the	Ultraviolet Photolithography	Engineering Semiconducting and Dielectric Materials	Nano Thin Film Technologies for Charge Trap Flash in	06_1129 Metrology and Inspection Challenges for High NA EUV		
	Transfer Factor	Cycle Assessment (LCA) in the Semiconductor Industry	Co-Optimization of the System and the Technology	3,4,3	and Processes Using Integrative Methods	VNAND	Metrology and Inspection Chanenges for High NA EOV		
		[14:40-15:05] Invited (25')	[14:40-15:10] Invited (30')	[14:40~15:10] Invited (30')	[14:40-15:00] Oral (20')	[14:40-15:05] Invited (25')	[14:40-15:10] Invited (30')		
	[14:40-15:05] Invited (25') Jea-Gun Park (Hanyang Univ.)	1	Minwoo Rhee (Samsung Electronics)	Jungyoul Lee (Dongjin Semichem)	MunPyo Hong (Korea Univ.)	Hanwool Yeon (GIST)	Nahee Park (KLA Corporation)		
	02 TBA	_	05_xxxx	04_1056	03_1142	01_1233	06_1074		
10 - 15:5	Amorphous Cabon Layer CMP: Material Properties and Solution		Recent Advances in Hybrid Bonding Technologies for Advanced Packaging	Improvement of EUV Resist Performance through EUV Underlayers	Reactive Proton Assisted Etching for Silicon Carbide Dry Etching	SMART Nanometallization for Energy-Efficient and Reliable Edges	Optical Metrology Development Trends in Today's Advanced Device Nodes		
			[15:10-15:30] Oral (20')	[15:10-15:40] Invited (30')	Dry Etching	[15:05-15:30] Invited (25')	Advanced Device Hodes		
	[15:05-15:25] Oral (20')	[15:05-15:25] Oral (20°)	Jinsub Park (Hanyang Univ.)	Su-Mi Hur (Chonnam Nat'l Univ.)	[15:00-15:20] Oral (20')	Jeong Hwan Han (Seoul Nat'l Univ. of Science and	[15:10-15:40] Invited (30')		
	Daehoon Yang (Soulbrain) 02_1007		05_1288	04_1241	Chang Min Lim (Hanyang Univ.) 03_1194	Tech.)	Jun Ho Lee (Kongju National Univeristy) 06_1146		
	Study on the Effect of Corrosion Inhibitors during Chemical	Application of Life Cycle Assessment (LCA) to Chemical	Nanoparticle-Based Thermal Interface Materials :	Enhancing EUV Lithography with Directed Self- Assembly: Defect Correction and Pattern Quality	Optimization of BOSCH Process Using Real-Time	01_1298	High NA Objective Lens Optical Design for Metrology		
	Mechanical Planarization of Molybdenum		Alignment Strategy for Improvement of Thermal Conductivity	Improvement	Plasma Measurement	Recent Advances in Mo-Based Electrode Materials for High-Performance DRAM Cell Capacitors	& Inspection		
		[15:25-15:45] Oral (20')	•	[15:40-16:10] Invited (30')					
	[15:25-15:45] Oral (20')	Tae Hoon Oh (UNIST)	[15:30-15:50] Oral (20')	Young Min Song (GIST)		[15:30-15:55] Invited (25')			
	Junkyuk Kim (Soulbrain) 02 1005	08_1199	Changhwan Choi (Hanyang Univ.) 05_1295	04_1250		Woojin Jeon (Kyung Hee Univ.) 01 1065			
	Advanced Additives for Enhanced Removal Rate and Defect	Advanced Optimal Control Strategies for Sustainable Green Chemical Vapor Deposition in Semiconductor	m	Biologically-Inspired Optic Designs for Advanced Imaging Systems		Advanced ALD Process for Meta-Stable Phased Thin			
	Mitigation in Copper CMP Slurries	Industry	PSPI Packaging Substrate			Film Deposition			
industry Industry PSPI Packaging Substrate Break									
	WeA3 (CMP)				WeE3 (Etching)	WeF3 (Thin Film)	WeG3 (MI)		
	Advanced Cleaning Technology	4			Plasma Source Technology	Nano Thin Film Deposition V	Frontier Metrology and Modeling V		
	Session Chair: Jea-Gun Park (Hanyang Univ.)	_			Session Chair: Ho-Jun Lee (Pusan Nat'l Univ.)	Session Chair: Taewook Nam (Sejong Univ.)	Session Chair: Byoung-Ho Lee (Hitachi-hightech)		
	[16:05-16:50] Plenary (45')				[16:05-16:35] Invited (30')	[16:05-16:35] Invited (30')	[16:10-16:40] Invited (30')		
	Paul Bernatis (DuPont) 02_1124				Steven Shannon (North Carolina State Univ.) 03_1303	Mihaela Popovici (imec) 01_1073	Byoung-Ho Lee (Hitachi High-Tech)		
	Recent Advancements In Cleans Technology to Reduce Particle				Advances in Pulsed RF Power Delivery for Plasma	Interfacial Engineering for Ferroelectric Memories with	06_1154 MI's New Challenges and Approaches		
	Defectivity and Corrosion	4			Processes	Improved Performance	3 New Chanenges and Approaches		
	116-F0 17-201 Invited (20%				[16:35-16:55] Oral (20')	[16:35-17:00] Invited (25')	[16:40-17:00] Oral (20')		
	[16:50-17:20] Invited (30') Kuntack Lee (Samsung)				Minseok Kim (Hanyang Univ.) 03 1203	Min Hyuk Park (Seoul Nat'l Univ.)	Min Seok Kim (Samsung Electronics) 06 1008		
	02_1147				Charge-Free Plasma Processing Using Ultra-Low	01_1143	Multi-Spectrum and In-FAB Data Based Deep Learning		
1.1	Paradiam Shift in Samiconductor Cleaning				Electron Temperature Plasma for Atomic Scale	Correlation between Device Physics and Material Chemistry in (Hf,Zr)O ₂ -Based Ferroelectric Memories	Modeling for Early Prediction of Electrical		
05 - 17:4		A			Semiconductor Devices	,,,,,,	Characteristics		
05 - 17:4	717 00 17 401 O . I (201)				[16:55-17:15] Oral (20')	[17:00-17:25] Invited (25')	777 00 17 201 O. J. (201)		
05 - 17:4					Sung-Hyeon Jung (Pusan Nat'l Univ.) 03 1107	Woongkyu Lee (Soongsil Univ.)	[17:00-17:20] Oral (20') Hyun Bo Shim (Samsung Electronics)		
05 - 17:4	[17:20-17:40] Oral (20') Channi Kim (Soulbrain)				Microwave Heating Techniques in Wafer Processing:	01_1121 Synthesis of Percyckite SrTiO2 Thin Films by Atomic	06_1060		
05 - 17:4	(Lirzo-17:40) Grai (20) Chanmi Kim (Soulbrain) 02_1035				Utilizing Toroidal Slot Antennas and Resonant Cavity	Synthesis of Perovskite SrTiO3 Thin Films by Atomic Layer Deposition for MIM Capacitors	AI Image Enhancement for High Speed On-Cell Overlay		
05 - 17:4	Chanmi Kim (Soulbrain)				Modes				
05 - 17:4	Chanmi Kim (Soulbrain) 02_1035						[17:20-17:45] Invited (25')		
05 - 17:4	Chanmi Kim (Soulbrain) 02_1035 Post CMP Cleaning Solution for Removal of Ceria Nanoparticles [17:40-18:00] Oral (20')				[17:15-17:35] Oral (20')	[17:25-17:45] Oral (20')			
05 - 17:4	Chanmi Kim (Soulbrain) 02_1035 Post CMP Cleaning Solution for Removal of Ceria Nanoparticles [17:40-18:00] Oral (20') Sanjay Bisht (Hanyang Univ)				Dong-Jin Kang (Pusan Nat'l Univ.)	Seung Hyun Lee (Soulbrain)	Young Heon Kim (Chungnam National University)		
05 - 17:4	Chanmi Kim (Soulbrain) 02_1035 Post CMP Cleaning Solution for Removal of Ceria Nanoparticles [17:40-18:00] Oral (20')					Seung Hyun Lee (Soulbrain) 01_1290			
05 - 17:4	Chanmi Kim (Soulbrain) 02_1035 Post CMP Cleaning Solution for Removal of Ceria Nanoparticles [17:40-18:00] Oral (20') Sanjay Bisht (Hanyang Univ) 02_1126 Investigating the Role of Benzotriazole on Silica and Copper Ions Loading to Polyvinyl Acetal (PVA) Brush during Copper Post-CMP	-			Dong-Jin Kang (Pusan Nat'l Univ.) 03_1101 Enhancement of Plasma Characteristics by Using 2.45[GHz] Microwave Source in Inductively Coupled	Seung Hyun Lee (Soulbrain) 01_1290 Achieving Superior ALD Metal Oxide Films with	Young Heon Kim (Chungnam National University) 06_1222 In situ and Operando Transmission Electron Microscopy Study of Compound Semiconductor and		
05 - 17:4 45 18:3	Chanmi Kim (Soulbrain) 02_1035 Post CMP Cleaning Solution for Removal of Ceria Nanoparticles [17:40-18:00] Oral (20') Sanjay Bisht (Hanyang Univ) 02_1126 Investigating the Role of Benzotriazole on Silica and Copper Ions Loading to Polyvinyl Acetal (PVA) Brush during Copper Post-CMP Cleaning			Break	Dong-Jin Kang (Pusan Nat'l Univ.) 03_1101 Enhancement of Plasma Characteristics by Using	Seung Hyun Lee (Soulbrain) 01_1290	Young Heon Kim (Chungnam National University) 06_1222 In situ and Operando Transmission Electron		

									Lobby, 2F, Pa
Tim	ne	Room A (Capri Room, 2F)	Room B (Grand Ballroom 1, 2F)	Room C (Grand Ballroom 3, 2F)	Room D (Sidney Room, 2F)	Room E (Sicily Room, 1F)	Room F (Ballroom, 5F)	Room G (Meeting Room, 5F)	Busan & Lobb Josun E
		ThA1 (CMP)	ThB1 (ESG)	ThC1 (PKG)	ThD1 (Litho)	ThE1 (Etching)	ThF1 (Thin Film)	ThG1 (MI)	Josuii i
		Functional Wet Etching Technology	Carbon Neutrality in Semiconductor Industry II	Heterogeneous Integration	Alternative Lithography I	Advanced Etching and Monitoring	Nano Thin Film Deposition VI	Frontier Metrology and Modeling VI	
		Session Chair: Kangchun Lee (Kyonggi Univ)	Session Chair: Ayeon Kim (UNIST)	Session Chair: Jinsub Park (Hanyang Univ.)	Session Chair: Myung-Ki Kim (Korea Univ.)	Session Chair: Won-Jun Lee (Sejong Univ.)	Session Chair: Se-Hun Kwon (Pusan Nat'l Univ.)	Session Chair: Tae-Hun Shim (Hanyang Univ.)	
		[09:00-09:25] Invited (25') Sangseun Park (ENF Technology) 02_1080	[09:00-09:30] Invited (30') Shih-Nan Hsiao (Nagoya Univ., Japan)	=	[09:00~09:40] Invited (40') - Online Douglas Resnick (Canon Nanotechnologies)	[09:00-09:20] Oral (20') Junyoung Park (Hanyang Univ.) 03 1213	[09:00-09:30] Invited (30') Changbong Yeon (Soulbrain)		
		Breakthrough Additive Technology for Cu Post-CMP Cleaning Solutions in Semiconductor Processes: Achieving Selective CuO Etching	Cryogenic Plasma Etching for Semiconductor Processes	Assisted Bonding with Compression (LABC) with Laser	Nanoimprint Lithography: Market Spaces and	US_1213 Ideal Si Etching with Ultra-Low Electron Temperature CF4 Plasma	01_1011 Enhancing ALD Growth Characteristics through Surface Reaction Control		
		[09:25-09:50] Invited (25') Sangwoo Lim (Yonsei Univ)	Manhee Byun (Carbon Value) 08 1123	Fumihiro Inque (Yokohama National Univ.)	[09:40-10:10] Invited (30') Sunae So (Korea Univ.) 04_1242	[09:20-09:40] Oral (20') Minho Kim (Myeongji Univ.) 03_1085	[09:30-09:50] Oral (20') Okhyeon Kim (Sejong Univ.) 01_1116 Thermal Atomic Layer Deposition of Aluminum Nitride	[09:30-09:55] Invited (25') Shinyoung Ryu (Aurostechnology) 06_1006	
0:00		02_1151 Highly Selective Etching for 3D Semiconductor Architecture		Wafer Ronding for Chiplet and Logic Devices		In-situ Plasma Monitoring using Multiple Plasma Information (PI) for SiO ₂ Etch Process with CF ₄ /O ₂	Films Using Tris(dimethylamido)aluminum and Ammonia	Manipulating Techniques of AI: AI Combined Optical Metrology	
		[09:50-10:10] Oral (20') Chang-Jin Lee (Hanyang Univ)	Jong-Moon Park (Myongji Univ.)	[10:00-10:25] Invited (25') Seungwoo Choi (TEL)	Sangyoon Han (DGIST)	[09:40-10:00] Oral (20') Hyeon Ho Nahm (Hanyang Univ.) 03 1206	[09:50-10:10] Oral (20') Ji Ye Lee (Korea Univ.) 01 1039	[09:55-10:15] Oral (20') Joohee Oh (Sungkyunkwan Univ.)	
		02_1226 Mechanism of Polymeric Inhibiting Layer in Wet Etchant for Highly Selective Etching of Si _{1-x} Ge _x . to Si-Film	Recent Efforts for Carbon Neutrality Study in	Wafer Bonding Technology for 3D Integration from In-	Illtra-Low Power Programmable Photonic Circuits	Optical Emission Spectroscopy Analysis (Line Ratio Method) Integrated with Electrical Method for Measuring Accurate Plasma Radical Density	Effect of Tunable Sub-Source and Sub-Drain Device Behavior in Four-Terminal Operation Using Metal- Capping Thin-Film Transistors	06_1020 Responses of Various Electrical Trap Measurement Methods to Grain Boundary Traps	
		[10:10-10:30] Oral (20') Palwasha Jalalzai (Hanyang Univ)	[10:20-10:40] Oral (20') Aejin Lee (UNIST) 08_1010				[10:10-10:30] Oral (20') Na-Gyeong Kang (Hanyang Univ.) 01_1045	[10:15-10:35] Oral (20') Changsug Lee (Korea Spectral Product)	
		02_1130 Effect of pH and Dissolved Oxygen Levels on the Efficiency of Corrosion Inhibitors for Molybdenum during the CMP Process	Economic and Environmental Analysis of Optimized Extractive Divided-Wall Distillation Process to Recover Semiconductor Industrial Waste				Ultrathin Metal Films with Low Resistivity via Atomic Layer Deposition: Process Pressure Effect on Initial Growth Behavior of Ru Films	06_1286 Spectral and Imaging Sensors for Diagnostics in Next- Generation Semiconductor Processes	
):40	10:50			Coffee Break					
		ThA2 (CMP) Cleaning Challenges for the Next Generation Devices	ThB2 (ESG) Carbon Neutrality in Semiconductor Industry III	ThC2 (PKG) Process and Integration	ThD2 (Litho) Alternative Lithography II	ThE2 (Etching) Modeling Etch Processes	ThF2 (Thin Film) Nano Thin Film Deposition VII		
		Session Chair: Sangwoo Lim (Yonsei Univ.)	Session Chair: Hankwon Lim (UNIST)		Session Chair: Myung-Ki Kim (Korea Univ.)	Session Chair: Heeyeop Chae (Sungkyunkwan Univ.)	Session Chair: Woo-Jae Lee (Pukyung Nat'l Univ.)		
		[10:50-11:15] Invited (25') Kwangwook Lee (SEMES) 02_1164 Study on Bubbles in Wafer Clean System	08_1148 Green Aluminum Metal-Organic Frameworks (Al-MOFs) Assisted Commercial Activated Carbon for Enhanced	[10:50-11:20] Invited (30') Heejin Lee (SK hynix) 05_1306	04_1244 III-V/Si Light Source Integration from on-Demand to Three-Dimensions	[10:50-11:20] Invited (30') Won Jun Lee (Sejoing Univ.) 03_1297 Thermal Atomic Layer Etching Mechanism of Aluminum Oxide: A First Principle Study	[10:50-11:15] Invited (25') Jin Sik Kim (UP Chemical Co. Ltd.) 01_1087 Precursor Chemistry in Semiconductor Industry		Exhib
0:50 -	12:30	[11:15-11:40] Invited (25') Ho Jun Kim (Hanyang Univ) 02_1140 Introduction to Two-Phase Flow Analysis Techniques for Fluid Dynamic Analysis of Cleaning Processes: Volume of Fluid, Level	Byeong-Ok Cho (Wonik Materials) 08_1252 Novel Low Global Warming Potential Gases for Etching	Seung Keun Oh (Dongjin Semichem) 04_1032 Negative Type Bump Photoresist for Advanced	Nanoparticles	[11:20-11:40] Oral (20') Sangheon Lee (Ewha Womans Univ.) 03_1258 Ab Initio Investigation of Chelation on CoCl2 Films for Atomic Layer Etching	[11:15-11:40] Invited (25') Seung-Ho Seo (GO Element) 01_1145 Computational Fluid Dynamics Analysis of Canisters for Mass Delivery of Solid Precursors		
		Set, and Volume of Fluid - Level Set Coupling Methods			A second	Atomic Layer Etching	wass belivery of solid Frecursors		
		[11:40-12:05] Invited (25')		[11:45-12:10] invited (25')		[11:40-12:00] Oral (20') Byeong-Yeop Choi (Chungnam Nat'l Univ.)	[11:40-12:00] Oral (20') Gyuha Lee (POSTECH)		
		[11:40-12:05] Invited (25') Tae-Dong Kim (Hannam Univ) 02_1170 Preparation and Characterization of High Purity Colloidal Silica	[11:45-12:05] Oral (20') Boon Chye Hoe (BBP) 08 1279 Finerry Savings at \$0 Investment	Dongchun Lee (Park system) 05_1071 AFM Measurement Techniques in Advanced Packaging		[11:40-12:00] Oral (20') Byeong-Yeop Choi (Chungnam Nat'l Univ.) 03_1230 Computational Study of Re-Deposition Effects due to Geometric Differences in MASK Patterns in High	[11:40-12:00] Oral (20') Gyuha Lee (POSTECH) 01_1155 Dielectrics with Sub-Surface Dopant Implantation- Mediated Lattice Relaxation and VO Annihilation via		
		[11:40-12:05] Invited (25') Tae-Dong Kim (Hannam Univ) 02_1170	[11:45-12:05] Oral (20') Boon Chye Hoe (BBP) 08 1279 Finerry Savings at \$0 Investment	Dongchun Lee (Park system) 05_1071		Byeong-Yeop Choi (Chungnam Nat'l Univ.) 03_1230 Computational Study of Re-Deposition Effects due to	Gyuha Lee (POSTECH) 01_1155 Dielectrics with Sub-Surface Dopant Implantation-		
		[11:40-12:05] Invited (25') Tae-Dong Kim (Hannam Univ) 02_1170 Preparation and Characterization of High Purity Colloidal Silica	[11:45-12:05] Oral (20') Boon Chye Hoe (BBP) 08_1279 Energy Savings at \$0 Investment [12:05-12:25] Oral (20') Ayeon Kim (UNIST)	Dongchun Lee (Park system) 05_1071 AFM Measurement Techniques in Advanced Packaging		Byeong-Yeop Choi (Chungnam Nat'l Univ.) 03_1230 Computational Study of Re-Deposition Effects due to Geometric Differences in MASK Patterns in High Aspect Ratio Plasma Etching [12:00-12:20] Oral (20') Inho Seong (Chungnam Nat'l Univ) 03_1208	Gyuha Lee (POSTECH) 01_1155 Dielectrics with Sub-Surface Dopant Implantation- Mediated Lattice Relaxation and VO Annihilation via		
		[11:40-12:05] Invited (25') Tae-Dong Kim (Hannam Univ) 02_1170 Preparation and Characterization of High Purity Colloidal Silica Abrasives for CMP Slurry [12:05-12:25] Oral (20') Maheepal Yadav (Hanyang Univ)	[11:45-12:05] Oral (20') Boon Chye Hoe (BBP) 08, 1279 Energy Savings at \$0 Investment [12:05-12:25] Oral (20') Ayeon Kim (UNIST) 08, 1150 Could Overseas-Originated Green Ammonia Be A	Dongchun Lee (Park system) 05_1071 AFM Measurement Techniques in Advanced Packaging and Hybrid Bonding Processes [12:10-12:40] Invited (30') - Pre-recorded Wei-Chung Lo (Industrial Tech. reasearch Inst.)		Byeong-Yeop Choi (Chungnam Nat'l Univ.) 03_1230 Computational Study of Re-Deposition Effects due to Geometric Differences in MASK Patterns in High Aspect Ratio Plasma Etching [12:00-12:20] Oral (20') Inho Seong (Chungnam Nat'l Univ)	Gyuha Lee (POSTECH) 01_1155 Dielectrics with Sub-Surface Dopant Implantation- Mediated Lattice Relaxation and VO Annihilation via Chemo-Physical Plasma Annealing [12:00-12:20] Oral (20') Sunjin Lee (Gachon Univ.)		
2:30 -		[11:40-12:05] Invited (25') Tae-Dong Kim (Hannam Univ) 02_1170 Preparation and Characterization of High Purity Colloidal Silica Abrasives for CMP Slurry [12:05-12:25] Oral (20') Maheepal Yadav (Hanyang Univ) 02_1136 Study on Scratch Generation during Copper Post-CMP Brush	[11:45-12:05] Oral (20') Boon Chye Hoe (BBP) 08, 1279 Energy Savings at \$0 Investment [12:05-12:25] Oral (20') Ayeon Kim (UNIST) 08, 1150 Could Overseas-Originated Green Ammonia Be A	Dongchun Lee (Park system) 05_1071 AFM Measurement Techniques in Advanced Packaging and Hybrid Bonding Processes [12:10-12:40] Invited (30') - Pre-recorded Wei-Chung Lo (Industrial Tech. reasearch Inst.) 05_1305 An Innovative 2D/3D Chiplets Integration with Fan-out Switching Chip	Lunch	Byeong-Yeop Choi (Chungnam Nat'l Univ.) 03_1230 Computational Study of Re-Deposition Effects due to Geometric Differences in MASK Patterns in High Aspect Ratio Plasma Etching [12:00-12:20] Oral (20') Inho Seong (Chungnam Nat'l Univ) 03_1208 A Unified Global Model Accompanied with a Voltage and Current Sensor for Low Pressure Capacitively	Gyuha Lee (POSTECH) 01_1155 Dielectrics with Sub-Surface Dopant Implantation-Mediated Lattice Relaxation and VO Annihilation via Chemo-Physical Plasma Annealing [12:00-12:20] Oral (20') Sunjin Lee (Gachon Univ.) 01_1054 Effect of Oxygen Binding Energy of Hf, Ga and Al on		
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45 30 40	14:00 14:45 15:30 15:40	[11:40-12:05] Invited (25') Tae-Dong Kim (Hannam Univ) 02_1170 Preparation and Characterization of High Purity Colloidal Silica Abrasives for CMP Slurry [12:05-12:25] Oral (20') Maheepal Yadav (Hanyang Univ) 02_1136 Study on Scratch Generation during Copper Post-CMP Brush	[11:45-12:05] Oral (20') Boon Chye Hoe (BBP) 08, 1279 Energy Savings at \$0 Investment [12:05-12:25] Oral (20') Ayeon Kim (UNIST) 08, 1150 Could Overseas-Originated Green Ammonia Be A	Dongchun Lee (Park system) 05.1071 AFM Measurement Techniques in Advanced Packaging and Hybrid Bonding Processes [12:10-12:40] Invited (30') - Pre-recorded Wei-Chung Lo (Industrial Tech. reasearch Inst.) 05_1305 An Innovative 2D/3D Chiplets Integration with Fan-out Switching Chip Specia Basi Specia Memory Techn	Lunch al Session I (Capri Room, 2F, Paradise Hotel Busan) sics of Space Radiation Effects on Microelectronics Dr. Insoo Jun (NASA JPL, USA) al Session II (Capri Room, 2F, Paradise Hotel Busan) nology 2024 and Outlook: DRAM, NAND, Emerging Mem Dr. Jeongdong Choe (Techinsights, Canada) Break	Byeong-Yeop Choi (Chungnam Nat'l Univ.) 03,1230 Computational Study of Re-Deposition Effects due to Geometric Differences in MASK Patterns in High Aspect Ratio Plasma Etching [12:00-12:20] Oral (20') Inho Seong (Chungnam Nat'l Univ) 03,1208 A Unified Global Model Accompanied with a Voltage and Current Sensor for Low Pressure Capacitively Coupled RF Discharge	Gyuha Lee (POSTECH) 01_1155 Dielectrics with Sub-Surface Dopant Implantation-Mediated Lattice Relaxation and VO Annihilation via Chemo-Physical Plasma Annealing [12:00-12:20] Oral (20') Sunjin Lee (Gachon Univ.) 01_1054 Effect of Oxygen Binding Energy of Hf, Ga and Al on		
00 - 45 30 40	14:00 14:45 15:30 15:40	[11:40-12:05] Invited (25') Tae-Dong Kim (Hannam Univ) 02_1170 Preparation and Characterization of High Purity Colloidal Silica Abrasives for CMP Slurry [12:05-12:25] Oral (20') Maheepal Yadav (Hanyang Univ) 02_1136 Study on Scratch Generation during Copper Post-CMP Brush	[11:45-12:05] Oral (20') Boon Chye Hoe (BBP) 08_1279 Energy Savings at \$0 Investment [12:05-12:25] Oral (20') Ayeon Kim (UNIST) 08_1150 Could Overseas-Originated Green Ammonia Be A Green Fuel For Factories?	Dongchun Lee (Park system) 05.1071 AFM Measurement Techniques in Advanced Packaging and Hybrid Bonding Processes [12:10-12:40] Invited (30') - Pre-recorded Wei-Chung Lo (Industrial Tech. reasearch Inst.) 05_1305 An Innovative 2D/3D Chiplets Integration with Fan-out Switching Chip Specia Basi Specia Memory Techn	Lunch al Session I (Capri Room, 2F, Paradise Hotel Busan) icts of Space Radiation Effects on Microelectronics Dr. Insoo Jun (NASA JPL, USA) al Session II (Capri Room, 2F, Paradise Hotel Busan) nology 2024 and Outlook: DRAM, NAND, Emerging Mem Dr. Jeongdong Choe (Techlnsights, Canada) Break ry Session IV (Capri Room, 2F, Paradise Hotel Busan) e Challenge of the Process Materials at Semiconductor Induction Dr. Deoksin Kil (SK hynix, Korea) Coffee Break	Byeong-Yeop Choi (Chungnam Nat'l Univ.) 03,1230 Computational Study of Re-Deposition Effects due to Geometric Differences in MASK Patterns in High Aspect Ratio Plasma Etching [12:00-12:20] Oral (20') Inho Seong (Chungnam Nat'l Univ) 03,1208 A Unified Global Model Accompanied with a Voltage and Current Sensor for Low Pressure Capacitively Coupled RF Discharge	Gyuha Lee (POSTECH) 01_1155 Dielectrics with Sub-Surface Dopant Implantation-Mediated Lattice Relaxation and VO Annihilation via Chemo-Physical Plasma Annealing [12:00-12:20] Oral (20') Sunjin Lee (Gachon Univ.) 01_1054 Effect of Oxygen Binding Energy of Hf, Ga and Al on Amorphous Zn-Sn-O Thin Film Transistor	a, SF, Grand Josun Busan) / Topic 1, 6	

Nov. 15	Room A (Capri Room, 2F)	Room B (Grand Ballroom 1, 2F)	Room C (Grand Ballroom 3, 2F)	Room D (Sidney Room, 2F)	Room E (Sicily Room, 1F)	Room F (Ballroom, 5F)	Room G (Meeting Room, 5F)	Lobby, 2F, Paradise Hotel Busan & Lobby, 5F, Grand Josun Busan		
(Half) 08:30-12:00 (Full) 08:30-17:30										

Topics	Sessions		
1. Nano Thin Film Deposition	TuF1, TuF2, WeF1, WeF2, WeF3, ThF1, ThF2		
2. CMP & Cleaning	TuA1, TuA2, WeA1, WeA2, WeA3, ThA1, ThA2		
3. Advanced Etching Technology	TuE1, TuE2, WeE1, WeE2, WeE3, ThE1, ThE2		
4. Advanced Lithography + Patterning	TuD1, TuD2, WeD1, WeD2, ThD1, ThD2		
5. Post Fabrication Technology and System Packaging	WeC1, WeC2, ThC1, ThC2		
6. Frontier Metrology, Diagnosis, and Modeling for Nanoscale IC Integration and Emerging Device Process	TuG1, TuG2, WeG1, WeG2, WeG3, ThG1		
7. Power Device	TuB1, TuB2, WeB1		
8. Carbon Neutrality in Semiconductor Industry	WeB2, ThB1, ThB2		
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	How to See the Oral Session Codes									
Da	Day of Week		Session No.	Presentation No.	Presentation Code					
Tuesday	Tu	Α	1	1	TuA1-1					
Wednesday	We	В	2	2	WeB2-2					
Thursday	Th	С	3	3	ThC3-3					

How to See the Poster Session Codes									
Poster Session Place		Session No.	Presentation No.	Presentation Code					
	Paradise Hotel Busan	Р	1	01	PP1-01				
Р	Grand Josun Busan	G	1	02	PG1-02				
	Paradise Hotel Busan	Р	2	03	PP2-03				