Day 1		April 6 -	SCHEDULE FINA	AL VERSION 03232021
	All Times are Central Daylight Time			
			Greg Parsons (North Carolina State	
	Session 1	Chair	University)	
			John Ekerdt (University of Texas at	
	10:00 AM	Welcome	Austin)	
				The Role and Requirements of Selective Deposition in Advanced
	10:10 AM	Invited	Charles Wallace (Intel Corporation)	Patterning
	10:30 AM	Contributed	James Engstrom (Cornell University)	Introducing Competition to Achieve Area Selective Deposition
				Area-Selective Atomic Layer Deposition on Chemically Similar
	10:42 AM	Contributed	Tzu-Ling Liu (Stanford University)	Materials
			Marceline Bonvalot (LTM-CNRS CEA-	New strategy for topographically selective deposition by low
	10:54 AM	Contributed	LETI)	temperature ion-assisted plasma enhanced atomic layer deposition
	11:06 AM		,	
	11:21 AM	Break		
	Session 2	Chair	Andrea Illiberi (ASM)	
				Measuring What Matters: Wafer-Scale Metrology for Area Selective
	11:30 AM	Invited	Kavita Shah (Nova)	Deposition
				Area-Selective Atomic Layer Deposition Patterned by
				Electrohydrodynamic Jet Printing for Additive Nanomanufacturing
	11:50 AM	Contributed	Tae Cho (University of Michgan)	of Functional Materials and Devices
			Cheng Wang (Lawrence Berkeley	
	12:02 PM	Contributed	National Lab)	Advancing Spatiochemical Metrology via Resonant Soft X-rays
				PiFM – Nanoscale Chemical Mapping via AFM-IR for Area Selective
		Contributed	Padraic O'Reilly (Molecular Vista)	Deposition
	12:26 PM	Q&A		
<u> </u>	12:41 PM	Break		
	Session 3	Chair	Dennis Hausmann (Lam)	
	3033.0113	O. IGII	Dennis Haasmann (Lann)	I .

		Ainhoa Romo Negreira (Tokyo Electron	Spin-on Self-assembled monolayers (SAMs) for enabling area
12:50 PM	Invited	Europe)	selective deposition (ASD)
			Surface functionalization by dimethylamino-trimethylsilane and
1:10 PM	Contributed	Annelies Delabie (imec, KU Leuven)	impact on adsorption and diffusion during area-selective deposition
			Area-selective ALD of TiN using aromatic inhibitor molecules for
1:22 PM	Contributed	Marc Merkx (TUe))	metal/oxide selectivity
			Analysis of Reaction and Decomposition of Isopropyl Alcohol on
1:34 PM	Contributed	Takezo Mawaki (Tohoku University)	Copper and Copper Oxide Surfaces Toward Area-selective Processes
1:46 PM	Q&A		
2:00 PM	Poster Session	1	
		Nickolas Asburn (University of Texas at	Role of surface catalytic reactions on area-selective atomic layer
		Dallas)	deposition of Co and Ru interconnect metals
			Electroless Pb Monolayer Deposition – Prelude for Further
		Stanko Branovic (University of Houston)	Advances in Electroless Atomic Layer Deposition
		Bart de Braaf (Eindhoven University of	Nucleation and Growth in Localized Thermal Atomic Layer
		Technology)	Deposition
			Area Selective Deposition of Dielectrics using Mulitlayer SAM as
		Lanxia Cheng (EMD Electronics)	Surface Passivation
			Area-Selective Atomic Layer Deposition by 2D-like Carbon
		Seunghwan Lee (Hanyang University)	Fabricated by Molecular Layer Deposition
			Investigation into the effect of Molecular Weight on the Thickness
		Caitlin McFeely (Dublin City University)	of Polymer Brush Monolayers Suitable for Area Selective Deposition
			Reduced temperature preparation of atomically clean Si surfaces to
		Fabian Pena (Sandia National Labs)	augment CMOS with atomic precision devices
		Jeffrey Woodward (U.S. Naval Research	Area Selective Deposition Studied Using Grazing Incidence Small
		Laboratory)	Angle X-ray Scattering
		Chengwu Zhang (University of	Optical Response of Plasmonic Nanoantenna Dimer Arrays with Sub-
		Connecticut)	10 nm Nanogaps by Area Selective ALD
3:00 PM	END OF DAY 1		

Day 2		April 7 -		
	Session 4	Chair	Ravindra Kanjolia (EMD Electronics)	
	10:00 AM	Welcome	Stacey Bent (Stanford University)	
	10:10 AM	Invited	Christopher Bates (UC Santa Barbara)	Selective Spin-on Polymer Coatings
	10.30 414	Contributed	Marcel Junige (University of Colorado at Boulder)	Area-Selective Molecular Layer Deposition of Nylon 6,2: Growth on Carbon and Inhibition on SiO ₂
	10.30 AIVI	Contributed	•	_
	10 12 114	Control de la colonia	Junsik Kim (North Carolina State	Substrate Selectivity of Poly(3,4-ethlenedioxythiophene) by
	10:42 AM	Contributed	University)	Oxidative Molecular Layer Deposition
				Direct deposition of high-resolution 3D nanostructures by Atomic-
		Contributed	Sarah Tymek (University of Erlangen)	Layer Additive Manufacturing (ALAM)
	11:06 AM	Q&A		
	11:21 AM	Break		
	Session 5	Chair	Shashi Vyas (Intel)	
	11:30 AM	Invited	Fabio Grillo (ETH Zurich)	When surface diffusion matters more than adsorption
	11:50 AM	Contributed	Henrik Pedersen (Linkoping University)	ASD of Metallic Films using Plasma Electrons as Reducing Agents
	12:02 PM	Contributed	Himamshu Nallan (University of Texas at Austin)	Low Temperature Area-Selective Deposition of Palladium via Atomic Layer Deposition
	12·14 DM	Contributed	Rohit Narayananan Kavassery Ramesh (Colorado School of Mines)	Area Selective Atomic Layer Deposition of SiO ₂ using Fluorothiol Multilayers on Cu in an ABC-Type Cycle
	12:26 PM		(Colorado Scridor di Willies)	Indictiayers on cum an Abc-Type Cycle
	12.20 PIVI	QQA		
	12:41 PM	Break		
	Session 6	Chair	Kavita Shah (Nova)	
	12:50 PM	Invited	Shashank Misra (Sandia National Labs)	Expanded toolkit for atomic precision advanced manufacturing
	1:10 PM	Contributed	Alfredo Mameli (TNO-Holst Centre)	High-Throughput Area-Selective Spatial Atomic Layer Deposition of SiO ₂ with integrated etching correction steps for low defectivity

		Wangxing Xu (Colorado School of	
1:22 PM	Contributed	Mines)	Area-selective Atomic Layer Deposition of Al_2O_3 on SiN_x over SiO_2
		Ghewa Akiki (LPICM-CNRS, Ecole	Role of Fluorinated Precursor in Area Selective PECVD of Silicon on
1:34 PM	Contributed	Polytechnique, France)	SiO _x Ny
1:46 PM	Q&A		
2:00 PM	Poster Session	<u> </u>	
			Role of surface catalytic reactions on area-selective atomic layer
		Dallas)	deposition of Co and Ru interconnect metals
			Electroless Pb Monolayer Deposition – Prelude for Further
		Stanko Branovic (University of Houston)	Advances in Electroless Atomic Layer Deposition
		Bart de Braaf (Eindhoven University of	Nucleation and Growth in Localized Thermal Atomic Layer
		Technology)	Deposition
			Area Selective Deposition of Dielectrics using Mulitlayer SAM as
		Lanxia Cheng (EMD Electrons)	Surface Passivation
			Area-Selective Atomic Layer Deposition by 2D-like Carbon
		Seunghwan Lee (Hanyang University)	Fabricated by Molecular Layer Deposition
			Investigation into the effect of Molecular Weight on the Thickness
		Caitlin McFeely (Dublin City University)	of Polymer Brush Monolayers Suitable for Area Selective Deposition
			Reduced temperature preparation of atomically clean Si surfaces to
		Fabian Pena (Sandia National Labs)	augment CMOS with atomic precision devices
		Jeffrey Woodward (U.S. Naval Research	Area Selective Deposition Studied Using Grazing Incidence Small
		Laboratory)	Angle X-ray Scattering
		Chengwu Zhang (University of	Optical Response of Plasmonic Nanoantenna Dimer Arrays with Sub-
		Connecticut)	10 nm Nanogaps by Area Selective ALD
3:00 PM	END OF DAY 2	2	

Day 3		April 8 -		
	Session 7	Chair	Mark Saly (Applied)	
	10:00 AM	Welcome	Mark Saly	
			Amy Walker (University of Texas at	Building a New Materials Toolkit: Using Surface Chemistry to Direct
	10:10 AM	Invited	Dallas)	the Morphology and Deposition of Thin Films and Nanoobjects

		Tamar Segal-Peretz (Technion - Israel	Metal oxide heterostructures via selective and spatialy controlled
10:30 AM	Contributed	Institute of Technology)	growth within polymer templates
10.42 414	Contributed	Xin Yang (University of Texas at Austin)	Area Selective Atomic Layer Deposition of Sn(0) as an Etch Barrier
10:42 AIVI	Contributed	Alli falig (Olliversity of Texas at Austili)	Area selective Atomic Layer Deposition of Shi(o) as an Etch Barrier
			300 mm-Wafer Characterization of Ruthenium Area-Selective
10·54 AM	Contributed	Jan-Willem Clerix (imec))	Deposition in Nanoscale Line-Space and Hole Patterns
11:06 AM		san vinem eierik (imeejj	
11:21 AM	Break		
		Erwin Kessels (Eindhoven University of	
Session 8	Chair	Technology)	
			Strategies for Area Selective Deposition: From Inherently Selective
11:30 AM	Invited	Ravi Kanjolia (EMD Electronics)	Precursors to Inhibitor Molecules and Processes
		Tania Sandoval (Universidad Técnica	Effect of precursor dimerization in area-selective atomic layer
11:50 AM	Invited	Federico Santa María)	deposition
			Machine learning-based screening of the precursors for area-
	Contributed	Bonggeun Shong (Hongik Univerisity)	selective atomic layer deposition
12:22 PM	Q&A		
12:40 PM	Break		
Session 9	Moderator	Rudy Wojtecki (IBM)	
	Panel Discussi		
12.30 FIVI	Paneists	Milind Weling (EMD Electronics)	
	T difeises	Robert Clark (TEL)	
		Annelies Delabie (imec)	
		Adrie Mackus (Eindhoven University of	
		Technology)	
		Anuja DeSilva (Lam)	
1:50 PM	Concluding Re	emarks	
		John Ekerdt / Stacey Bent	

2:00 PM END OF WORKSHOP	