



# MNE 2025 Tentative Schedule (V 1.1)

Please note that the schedule is subject to change  
Last Updated: 19<sup>th</sup> August 2025

Tuesday (16 Sep 2025)

Plenary					
Time	Speaker		Paper ID	Title	Room Location
Start	End			Chair: Prof Zahid Durrani	
09:00	09:45	Dr Drew Nelson	464	Plenary 1: Building Globally Relevant Semiconductor Clusters and Their Relevance to the UK Semiconductor Strategy	Plenary Hall
09:45	10:30	Dr Naoto Horiguchi	454	Plenary 2: CMOS scaling paradigm shift from CMOS 1.0 to CMOS 2.0	Plenary Hall
11:00	11:45	Prof Dinesh Pamunuwa	455	Plenary 3: Edge Computing Platform based on Nanoelectromechanical Relays	Plenary Hall
11:45	12:30	Prof Lars Montelius	457	MNE Fellow Award: Science in our time - for People, Planet and Prosperity	Plenary Hall
Oral Session 1					
		TRACK 1		Oral Session 1A : Microsystem and MEMS Applications	
				Chair: Dr Yoshishige Tsuchiya	
14:00	14:15	Mr Ali Kassem	129	Fabrication of Flexible III-Nitride MEMS Resonators by Lift-Off and Transfer onto Thin Metal Substrates	Plenary Hall
		Ms Aida Gabriela Fernández			
14:15	14:30	Contreras	163	Probing Cell Mechanosensitivity in Microengineered 3D Scaffolds	Plenary Hall
14:30	15:00	Dr Sten Vollebregt	450	Wafer-scale Transfer-free Multi-layer Graphene Process for MEMS Sensors (Invited)	Plenary Hall
15:00	15:15	Mr Wending Hou	189	High Speed Nickel Electrodeposition in a Supercritical CO2 Emulsified Nickel Sulfamate Bath toward MEMS Applications	Plenary Hall
15:15	15:30	Ms Mathilde Roig	81	High-resolution laser ablation of a copper layer for the fabrication of 3D-printed MEMS and microsensors	Plenary Hall
		TRACK 1		Oral Session 1B : Electron Beam Lightgraphy	
				Chair: Dr Kian S. Kiang	
14:00	14:15	Mr Hao Zhang	294	Precise Dimension Control of Narrow Gaps in High Density Pattern on InP-Based Substrate by Electron Beam Lithography	Charnock Lecture
14:15	14:30	Dr Alexei Bogdanov	395	Qualification of Direct Write E-beam Lithography Tools with Two-Dimensional Vernier Patterns	Charnock Lecture
14:30	14:45	Dr Yandong Yang	271	Direct Fabrication of 3-D PEDOT:PSS Nanostructures by Electron Beam Lithography	Charnock Lecture
14:45	15:00	Ms Pragya Sah	224	High Resolution Electron Beam Lithography Patterning for Advanced Grating Couplers	Charnock Lecture
15:00	15:15	Mr Bryan Benz	177	A novel patterning approach enabling consistent high aspect ratio nanostructures with functional tops	Charnock Lecture
15:15	15:30	Dr Umut Kerimzade	173	Sub-100nm suspended silicon nanowire fabrication with reduced thermal budget	Charnock Lecture
		TRACK 2		Oral Session 1C : Electronics 1	
				Chair: Dr Ruomeng Huang	
14:00	14:30	Prof. Andrew Flewitt	439	P-Channel Oxide Thin Film Transistors For CMOS Logic (Invited)	Seminar Room
14:30	14:45	Dr Philip Calado	419	Electric Field Confinement-Induced Potentiation In Inert Mixed Ionic-Electronic Conducting Memristors	Seminar Room
14:45	15:00	Dr Jerome Cuenca	435	Towards Aluminium Nitride On Diamond Surface Acoustic Wave Devices	Seminar Room
15:00	15:15	Mr Qin Liu	298	Nanoscale Back-End-Of-Line Silicon Carbide Memristor For Resistive Memory	Seminar Room
15:15		Ms Nigama Vykari	169		
	15:30	Vajjula/Prof Ethan Ahn		2D Materials For Electrostrictive FET	Seminar Room
		TRACK 3		Oral Session 1D: Biodevices and Systems 1	
				Chair: Dr Ioannis Zeimpekis	
14:00	14:15	Ms Chaeun Lee	288	Contactless Measurement of Radial Artery Pulse Waves Using an Acoustic Sensing System	One Ocean Suite
14:15	14:30	Dr Rahman Sabahi-Kaviani	428	A microfluidic Cartilage-on-Chip platform for personalized cartilage transplant compatibility screening	One Ocean Suite
14:30	14:45	Mr Ehsanollah Moradi	96	A Microfluidic Device For Monitoring Functional Enzyme Activity Of Primary Human Hepatocyte Spheroids Based On Cell-Secreted Extracellular Vesicles	One Ocean Suite
14:45	15:00	Mr Zhengwei Liao	321	Wavelength-Selective Photodetector For NADH Fluorescence Detection	One Ocean Suite
15:00	15:30	Prof Nako Nakatsuka	441	Nano- and Microscale Aptamer Biosensors for Monitoring Biomarkers of Human Health (Invited)	One Ocean Suite

Plenary					
Time				Title	Room Location
				Chair: Dr Mervyn Jones	
08:00	08:45	Prof Shinichi Saito	13	Plenary 4: Why Micro is different from Macro? A Challenge towards Macroscopic Quantum Technologies	Plenary Hall
08:45	09:30	Prof Mariana Medina Sanchez	460	Plenary 5: Medical Microrobots with Functional Nanomaterials for Precision Women’s Healthcare	Plenary Hall
Oral Session 2					
		TRACK 1		Oral Session 2A: Nanoimprint and alternative lithography	
				Chair: Prof Martin Charlton	
10:00	10:15	Dr Jean-Baptiste Doucet	440	Comparison of 2 processes based on NIL and lift-off for the fabrication of thick nano antennas for solar PV-TE applications	Plenary Hall
10:15	10:30	Mr Takumi Ashida	21	Fine silver wiring using replica mold with light-shielding film	Plenary Hall
10:30	10:45	Dr James Owen	394	Single-nm Mask Writing for Nanoimprint Lithography, as an Energy-Efficient Alternative to EUV	Plenary Hall
10:45	11:00	Dr Peng Tian	240	Optimization of grayscale direct-write laser lithography for the fabrication of large-area 2.5D molds for nanoimprint lithography	Plenary Hall
11:00	11:15	Mrs Andrea Kneidinger	49	Advanced Patterning For Smart Optical Devices: Integrating Inkjet Coating with Nanoimprinting for Precise Height Control and Minimal Residual Layers	Plenary Hall
11:15	11:30	Mr Haohui Yang	201	Exploring water-soluble polymeric stamps for ultraviolet light nano-imprint lithography	Plenary Hall
11:30	11:45	Ms Maaya Watanabe	156	Fabrication and Evaluation of Curved Mirror for Co-packaged optics Using Photo Nanoimprint Technology	Plenary Hall
11:45	12:00	Ms Julia Stark	103	Advances in parallelization of thermal scanning probe lithography and large-area patterning	Plenary Hall
		TRACK 1		Oral Session 2B: Photonics, Photonic structures and Metasurfaces	
				Chair: Dr Bruce Ou	
10:00	10:30	Prof. Junsuk Rho	445	Sustainable Manufacturing Of Optical Metasurfaces For Imaging, Sensing And Display (Invited)	Charnock Lecture
10:30	10:45	Mr Jeevan Rois	228	Understanding 3D Structural Control in Metasurface-Based Holographic Lithography	Charnock Lecture
10:45	11:00	Dr Kai Sun	132	A Novel Manufacturing Platform for Large-diameter Si Metalens using Deep-UV Lithography	Charnock Lecture
11:00	11:15	Mr Christian Einsiedler	382	Fabrication of Substrates with Plasmonic Gold Nanostructures for Cellular Membrane Rupture	Charnock Lecture
11:15	11:30	Ms Hyunjung Kang	51	Printable Spin-Multiplexed Metasurfaces for Ultraviolet Holographic Displays	Charnock Lecture
11:30	11:45	Ms Zixuan Wang	316	Embedded-Holey Metasurfaces for Enhanced Mechanical Robustness and Integration Compatibility	Charnock Lecture
11:45	12:00	Dr Alexander Plucinski	211	Novel UV-curable organic-inorganic polymers for micro-optical and photonic components with enhanced reliability	Charnock Lecture
		TRACK 2		Oral Session 2C: Photonics and Optoelectronics	
				Chair: Prof David Thomson	
10:00	10:15	Dr Fatemeh Moradiani	130	Monolithic Integration Of Gev Centers In Ring Waveguides For Quantum Light Emission	Seminar Room
10:15	10:30	Ms Xiliang Yang	55	Microsphere-Assisted Generation Of Localized Optical Emitters In 2D Hexagonal Boron Nitride	Seminar Room
10:30	10:45	Dr Bingrui Lu	356	Chip-Scale Infrared Fourier-Transform Spectrometer Based On Nano-Opto-Electro-Mechanical Systems	Seminar Room
10:45	11:00	Prof. Chun-Hung Lin	175	Hydrophobic And Sticky Silver-Decorated Nanoimprinted ZnO Nanograss Substrates For Enhanced SERS Performance	Seminar Room
11:00	11:15	Mr Kei Hirata	58	Antireflection of near-infrared light using a moth-eye structure film	Seminar Room
11:15	11:30	Ms Eunji Lee	275	One-Step Printable Fabrication of Tantalum Pentoxide Metasurfaces for UV–Visible Optics	Seminar Room
11:30	11:45	Dr Olaf Brox (TBC)	54	Red Emitting DBR Laser Array with 0.1 nm Wavelength Spacing Defined by Direct Write Ebeam Lithography (TBC)	Seminar Room
					Seminar Room
		TRACK 3		Oral Session 2D: Information Communication Technologies	
				Chair: Dr Stuart Boden	
10:00	10:15	Prof Jin Choi	369	A Passive and Wireless Sensing System Using Near-Field Communication (NFC) and Off-the-Shelf Components	One Ocean Suite
10:15	10:30	Ms Nefeli Dimogerontaki	274	Anti-reflection and radiative cooling bifunctional polymer film fabricated via nanoimprint lithography and in situ boehmite formation by hydrothermal treatment	One Ocean Suite
10:30	11:00	Dr Javed Niazi	444	Semiconductor Quantum Dots: From Tailored Synthesis to Advanced Sensing and Biosensing Applications (Invited)	One Ocean Suite
11:00	11:15	Mr Marco Bruno	376	Adaptive Adhesion through Bio-Inspired Interlocking Micropatterns for Harsh Environments	One Ocean Suite
11:15	11:30	Mr Jingbo Chen	180	Single-Charge Detection in a Room Temperature Single-Electron Memory	One Ocean Suite
11:30	11:45	Ms Fatemeh Arefi	392	Design and Characterization of Surface Acoustic Wave on Thin Film Lithium Niobate on Insulator for Acousto-optic Applications	One Ocean Suite

Oral Session 3					
		TRACK 1		Oral Session 3A: UV, EUV, and two-photon lithography	
				Chair: Prof Junsuk Rho	
Time	Speaker		ID	Title	
13:30	13:45	Dr Dimitrios Kazazis	355	EUV interference lithography at PSI: pushing the limits of resolution of next generation photolithography	Plenary Hall
13:45	14:00	Dr Giulia Malvicini	351	Towards sub-nm roughness in 3D topography for reflective X-ray focusing optics	Plenary Hall
14:00	14:15	Dr Sander Reniers	125	Quantifying and overcoming wafer distortion on bonded wafers for deep-UV lithography	Plenary Hall
14:15	14:30	Mr Pratyaksh Yemulwar	77	Pushing the Boundaries: in situ Development and Multi-Material Exchange for Two-Photon 3D Printing	Plenary Hall
		TRACK 1		Oral Session 3B: Advanced Nanofabrication I	
				Chair: Dr Yasin Ekinci	
13:30	13:45	Dr Kieran Spruce	420	Fabrication of arsenic-in-silicon single-electron transistors using scanning tunnelling microscopy hydrogen resist lithography	Charnock Lecture
13:45	14:00	Dr Xiangyu Chen	10	Tailoring Vertical Gradients in Thin Films: Design and Fabrication	Charnock Lecture
14:00	14:15	Prof Takeshi Ito	14	Anti-virus performance of Si nanopillar array mimicking cicada wing surface	Charnock Lecture
14:15	14:30	Mrs Mira Baraket	8	3D structured local thin film deposition by Micro Direct Atomic Layer Deposition (μDALP™)	Charnock Lecture
		TRACK 4		Oral Session 3C: Sustainable Devices and Process Technology	
				Chair: Dr Ben Rowlinson	
13:30	13:45	Ms Estelle Lu	200	Shaping of a bio-sourced AESO polymer for micro-encapsulation purposes	One Ocean Suite
13:45	14:00	Mr Aditya Patwari	111	Layer-by-layer functionalization of cotton fabric for enhanced electrokinetic energy harvesting	One Ocean Suite
14:00	14:15	Mr Jens Munk Nielsen	43	Process development for improved passivation in IBC Solar Cells	One Ocean Suite
14:15	14:30	Dr Akinobu Yamaguchi	30	Inkjet printing of stealth nanobeacons	One Ocean Suite
		TRACK 2		Oral Session 3D: Devices and Systems	
				Chair: Prof Dinesh Pamunuwa	
13:30	13:45	Dr Laurent Malaquin	185	Selective Laser Etching as a Key Enabler of Custom Silica-Based AFM Probes	Seminar Room
13:45	14:00	Dr Linh Nguyen	97	Scalable Piezo-Optomechanical Transducer for Optical Readout of a Superconducting Qubit	Seminar Room
14:00	14:15	Ms Ting Hou	336	Nonlinear Resonators Based On Nano Optomechanical Metamaterials	Seminar Room
14:15	14:30	Dr Jens Bolten	33	Carbon-based contacts for integrated nanoelectromechanical switches	Seminary Room

Thursday (18 Sep 2025)					
Oral Session 4					
		TRACK 1		Oral Session 4A: Advanced Nanofabrication II	Room Location
				Chair: Prof Zahid Durrani	
Time		Speaker	ID	Title	
08:30	08:45	Dr Rucha Deshpande	345	Nanofabrication of shadow masks for josephson-junction quantum devices	Plenary Hall
08:45	09:00	Dr Noemi Cesario	431	Geometric Optimization Improves The Performance Of Organic Electrochemical Transistors For Bio-Sensing Applications	Plenary Hall
09:00	09:15	Mx Iker Uranga	340	Introducing thermal scanning probe lithography into the fabrication of semiconductor quantum devices	Plenary Hall
09:15	09:30	Mr Loïc Lahaye	338	Fabrication of Vanadium Dioxide Resistors on Fully-released Polyimide Thin Films for High Strain Studies	Plenary Hall
09:30	09:45	Dr Jan Tiepelt	334	FabuBlox – An AI-driven Platform Connecting the Nanofabrication World	Plenary Hall
09:45	10:00	Ms Nathalie Pranzner	308	Fabrication of Seamless, Homogenous Al2O3 Membranes by Gas-Phase-Deposition for highly stable Liquid Cells for Transmission Electron Microscopy	Plenary Hall
10:00	10:15	Mr Thomas Howe	41	Localised O2 Plasma Treatment of AZO and Zn for Broadband Modulation of Optical and Radio Frequency Response.	Plenary Hall
		TRACK 1		Oral Session 4B: Advanced Nanofabrication and Characterisation	
				Chair: Prof Harold Chong	
08:30	08:45	Dr Elaheh Akbarnejad	237	Ti-Ni-Cu shape memory alloy thin films with improved adhesion and controlled residual stress for MEMS applications	Charnock Lecture
08:45	09:00	Mr Gowtham Arivanandhan	266	Temperature Homogenization for Local Electro-Thermal Annealing of Shape Memory Alloy Microstructures	Charnock Lecture
09:00	09:30	Prof Frank Niklaus	451	3D Printing of MEMS Devices (Invited)	Charnock Lecture
09:30	09:45	Dr Ben Rowlinson	105	Lightweight Machine-Learned Surrogate Models for Carrier Transport using Gradient-Boosted Feature Selection	Charnock Lecture
09:45	10:00	Dr Alexandros El Sachat	357	Unconventional Geometric Thermoelectricity in Nanopatterned Two-dimensional Materials	Charnock Lecture
10:00	10:15	Mr Euan McDonald	347	Breaking the Resolution Barrier: Phased Exposure Methodology for Precision Microfluidic Injection Moulding Tools	Charnock Lecture
10:15	10:30	Dr Paul Gow	220	Ultra-precision diamond micro-grinding of integrated mirrors in silicon for quantum atomic technologies	Charnock Lecture
		TRACK 2		Oral Session 4C: Electronics II	
				Chair: Prof Andrew Flewitt	
08:30	08:45	Mr Bohao Ding	358	Mesoporous Silica-Based Memristor For Neuromorphic Computing	Seminar Room
08:45	09:00	Mrs Trishala Desai	229	Novel Reagents For The Solution-Processible Deposition Of Low-Dimensional Materials And Their Composites For Flexible Memristors And Smart Sensors	Seminar Room
09:00	09:15	Mrs Sneha Pottekkad	386	Non-Planar Patterning Of An Organic Electrochemical Transistor (OECT) On A Tapered Optical Fiber-Based Neural Interface	Seminar Room
09:15	09:30	Dr Michael Haslinger	401	Towards Additive Manufacturing And Conformal Metallization Of 3D-Printed Antennas For Radar Applications	Seminar Room
09:30	10:00	Prof. Sungjun Kim	452	Adaptive Reservoir Computing With Electro-Optical And 3D Structured Memristor Hardward Platforms (Invited)	Seminar Room
10:00	10:15	Mr Bingkai Ding	329	VO2-Based Memristor Grown By ALD For Neuromorphic Computing	Seminar Room
10:15	10:30	Mr Joongho Yoon	389	Enhancement of Data Retention Characteristics in 2D and 3D NAND Flash via Hydrogen Trap Engineering	Seminar Room
		TRACK 4		Oral Session 4D: Sustainable Fabrication Processes I	
				Chair: Prof Sébastien Toussaint	
08:30	08:45	Dr Klaus Zimmer	367	Pattern transfer using atmospheric pressure plasma processes	One Ocean Suite
08:45	09:00	Ms Laura Cavedoni	277	Towards Sustainable Electronics: Wafer-Scale Fabrication of Fully Biodegradable CMOS Devices	One Ocean Suite
09:00	09:15	Mr Carlos Barbero Rodriguez	150	Conductive carbon film growth from recycled plastics	One Ocean Suite
09:15	09:30	Mr Joel Keen	32	Development of sustainable machining processes to manufacture vacuum cells for Quantum Technology	One Ocean Suite
09:30	09:45	Ms Seungjoo Baek	332	Energy-efficient optical crosslinking system for sustainability in ArFi lithography	One Ocean Suite
09:45	10:00	Mr Marius Hillebrand	159	Isotropic etching of suspended Si structures using a single-step, single-mask deep reactive ion etching process	One Ocean Suite
10:00	10:30	Prof Jeff Kettle	463	Designing for End-of-Life Electronics: Additive Manufacturing of conductive materials to enable 99% degradable High-Performance Printed Circuit Boards (Invited)	One Ocean Suite
Plenary					
				Chair: Dr Regina Luttge	
11:00	11:45	Dr Feras Alkhalik	458	Plenary 6: Flexible Integrated Circuits Revolution: Innovative Manufacturing, Materials and Roadmaps	Plenary Hall
11:45	12:30	YIA: Dr Alexandros El Sachat	459	Engineering Thermal and Thermoelectric Transport in Two-dimensional (2D) Semiconductors and Devices	Plenary Hall

Oral Session 5						
		TRACK 1		Oral Session 5A: Integrated System Processes		
				Chair: Dr Ruomeng Huang		
Time	Speaker		ID	Title		
14:00	14:15	Dr Marc Pascual	12	Microscale Patterning of Transparent Conductive Oxides (TCOs) Using High Precision Capillary Printing for Display Applications		Plenary Hall
14:15	14:30	Mr Ekin Asim Özek	383	Multilayer Polymer-based Cantilevers with Multiple Embedded Piezoresistive Sensors for High-sensitivity Atomic Force Microscopy		Plenary Hall
14:30	14:45	Mr Myung Seo Kim	300	Pattern dependent micro needle formation in the SPPW process using a digital mask		Plenary Hall
14:45	15:00	Mr Mehdi Bostan shirin	258	A Scalable Technology for High-Performance Silicon Nanowire-Based Piezoresistive Inertial Sensors		Plenary Hall
15:00	15:15	Mrs Christelle CHARPIN-NICOLLE	174	Fabrication of Ultra-Scaled Back-End TiN Contacts in Silicon-Rich Oxide for High Density Memory Applications		Plenary Hall
		TRACK 2		Oral Session 5B: Biodevices and Systems II		
				Chair: Dr Ivan Ling		
14:00	14:15	Dr Maria Szola	251	Fabrication Of Low-Cost Microfluidic Devices For Point-Of-Care Bacterial Diagnostics		Charnock Lecture
14:15	14:30	Dr Julien Hurtaud	313	Non-Invasive Label-Free Electrical And Optical Parrallel Recordings Of Electrophysiological Action Potentials Of Hipsc Cardiomyocytes		Charnock Lecture
14:30	14:45	Mr Marc Navarro	337	Biodegradable Silk Fibroin Nanofiber-Based Microparticles For Wound Regeneration		Charnock Lecture
14:45	15:00	Mr Taki Watanabe	109	Development Of micron Mist Generating Nebulizer		Charnock Lecture
15:00	15:15	Mr Yu-Chia Chen	108	Three-Dimensional Manipulation Of Water Droplets Via Spatially Patterned Triboelectric Charging		Charnock Lecture
15:15	15:30	Ms Zarina Nazyrova	35	Zero-Power Mems Sensors For Trees Health Monitoring		Charnock Lecture
		TRACK 2		Oral Session 5C: Micro-Nano Systems I		
				Chair: Prof Harold Chong		
14:00	14:15	Dr Esteve Amat	312	CFET Novel Implementation To Enhance Ic Integration Level By Stacking Devices In A Single Vertical Nanowire		Seminar Room
14:15	14:30	Dr Akinobu Yamaguchi	31	Replaceable Micromixer Agitated By Surface Acoustic Wave		Seminar Room
14:30	14:45	Ms Yen-Chun Chen	273	Characterization And Thermo-Mechanical Analysis For A Light-Driven Liquid-Crystal-Elastomer-Based Crawling Robot		Seminar Room
14:45	15:00	Mr Chia Yu Cho	289	A Miniaturized Kirigami Soft Gripper Integrated With Self-Sensing Capability		Seminar Room
15:00	15:15	Mr Sayantan Ghosh	79	Short-Channel Junctionless Nanowire Transistors		Seminar Room
		TRACK 3		Oral Session 5D: Electronic Sensors		
				Chair: Prof Masato Sone		
14:00	14:15	Prof Jin Choi	267	A Saw-Tooth Slot Antenna Sensor for Dielectric Sensing		One Ocean Suite
14:15	14:30	Dr Meddy Vanotti	149	Exploitation of Surface Acoustic Waves for the implementation of innovative sensing devices applied to the measurement of gas phase pollutants		One Ocean Suite
14:30	14:45	Prof Zhenyu Yuan	42	Tunable Nanoarchitectures in NiO/In2O3 Thin Films sensor: Thickness-Modulated Response Enhancement for Ultrafast Butanone Sensing		One Ocean Suite
14:45	15:00	Ms Jiali Hu	22	Electric-field Sensor based on Graphene/MoS <sub>2</sub> Heterostructure for Lightning Forecast		One Ocean Suite
15:00	15:15	Mr Changwoo Cho	270	Disposable electrode based iontronic pressure sensors and their potential applications in generative artificial intelligence		One Ocean Suite
15:15	15:30	Mr Quang Khanh Nguyen	94	High-Mobility of Amorphous-Crystalline Phase-Composite Indium Oxide for Thin Film Transistor Applications		One Ocean Suite
Oral Session 6						
		TRACK 1		Oral Session 6A: Advanced Nanofabrication III		
				Chair: Prof Jin Choi		
16:00	16:30	Dr Gabriele Seguni	453	Sequential Infiltration Synthesis for Organized Nanostructure Fabrication (Invited)		Plenary Hall
16:30	16:45	Mr Jatin jawhir Pandit	234	Effect of Binary Mechanical Environment on T Cell Function		Plenary Hall
16:45	17:00	Ms Zhirong Yang	61	Patterning on Living Tardigrades		Plenary Hall
17:00	17:15	Dr Tomoyuki Kurioka	304	Electrodeposition of conducting polymers on silicon towards integrated autonomous sensor systems		Plenary Hall
17:15	17:30	Mr Shota SAWAYAMA	343	A Thick-Film Micro-Patterning Method for Organic Thermoelectric Materials Using O2 Plasma and Metal Masks		Plenary Hall

		TRACK 2		Oral Session 6B: Micro-Nano Systems II	
				Chair: Prof Sungjun Kim	
16:00	16:15	Dr Oliver Williams	424	Making A Miniature Sun: Ultra High Temperature Carbon Devices	Charnock Lecture
16:15	16:30	Dr Yoshishige Tsuchiya	402	Mechanical And Electrical Contact Testing For Pt/Pedot/Si Layered Structures	Charnock Lecture
16:30	16:45	Dr Nicolai Størring	264	Wafer Scale Fabrication Of Pyrolytic Carbon Submicron Gap Membrane Electrodes For Electrochemical Sensing	Charnock Lecture
16:45	17:00	Ms Yizheng Liu	195	Energy-Free Micro-Latching Mechanisms For Bidirectional SMA Actuators	Charnock Lecture
17:00	17:15	Mr Yuta Kawashima	36	Physical Reservoir Computing With Mems Torsional Mirrors	Charnock Lecture
17:15	17:30	Dr Zhiwei Cui	253	Magnetic Artificial Cilia To Steer The Locomotion Of Microswimmers	Charnock Lecture
		TRACK 3		Oral Session 6C : Optical Sensors	
				Chair: Prof James Gates	
16:00	16:15	Dr Santos Merino	184	Monitoring vibrational fingerprints of polypeptide monolayers by infrared plasmonic nanoantennas	One Ocean Suite
16:15	16:30	Dr Stella Aslanoglou	388	On-fiber printed polymeric tapers for chronically implantable neural interfaces	One Ocean Suite
16:30	16:45	Mr Sofien Ramos	263	Detection of Phtalate release from plastic tubes using a NanoFabricated Surface Enhanced Raman Spectroscopy device	One Ocean Suite
16:45	17:00	Mr Tzu-Yu Chiu	39	Detection of Polystyrene Microplastics via Surface-Enhanced Raman Scattering on Sticky Hydrophobic Nanopillar Substrates	One Ocean Suite
17:00	17:15	Ms Yingwei Hou	70	Micro-optics Design and Preliminary Characterization of a Forward-Viewing Fiber-Optic SERS Probe for In Vivo Diagnostics	One Ocean Suite
17:15	17:30	Dr Kirill Khabarov	9	Single-Molecule Identification Using Plasmonic Nanopores And Ultrafast SERS	One Ocean Suite
		TRACK 1		Oral Session 6D: Advanced Nanofabrication IV	
				Chair: Dr Paul Gow	
16:00	16:15	Mr Limin Qi	122	Ice lithography using Diobalt octa-carbonyl	Seminar Room
16:15	16:30	Dr Jordi Llobet	341	Quasi-3D Nanoscale Fabrication: Precision Patterning and Modelling via Focused Ion Beam Implantation	Seminar Room
16:30	16:45	Dr Seonho Seok	107	Fabrication and Analysis of Self-Rolled-Up Polymer Ribbon Structure Based on Photosensitive Polyimide and Mechanical Debonding	Seminar Room
16:45	17:00	Ms Pia Kohlschreiber	297	Investigation of process windows for alternative non-toxic and metal ion free developer choline hydroxide for HSQ resist Medusa 84 SiH	Seminar Room
17:00	17:15	Mr Chenxiang Zhang	261	Resist-free and low-temperature micropatterning of IGZO using stencil lithography for electronic applications	Seminar Room

