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Tuesday 8 July 2025

09:00	Session chair: Andy Beale			
	Lennox 3 PL02 - From biological to heterogeneous catalysis: Spectroscopic studies of ammonia synthesis and decomposition Serena DeBeer <i>Max Planck Institute for Chemical Energy Conversion, Germany</i>			
10:00	Time for delegates to move between theatres			
	Lowther Functional inorganic materials	Lennox 3 Materials for energy and sustainability	Lammermuir Suite Nano and porous materials	Menteith Soft matter and biomaterials
10:10	Session chair: Julien Nicolas			
	K06	K07	K08	K09
10:40	F08	E08	N08	S08
11:00	F09	E09	N09	S09
11:20	Lennox 1&2 Refreshments			
12:00	Session chair: Xiaoming Wang			
	F10	K10	N10	S10
12:20	F11	E11 (12:30)	N11	S11
12:40	F12	E12 (12:50)	N12	S12
13:00	Lennox 1&2 Lunch			
	13:40 - Lammermuir Suite Careers from chemistry Robert Bowles <i>Royal Society of Chemistry, UK</i>			
14:30	Session chair: Andrea Gauzzi			
	K11	K12	K13	K14
15:00	F13	E13	N13	S13
15:20	F14	E14	N14	S14
15:40	F15	E15	N15	S15
16:00	F16	E16	N16	S16
16:20	Lennox 1&2 Refreshments			
17:00	Session chair: Josh Makepeace			
	Lennox 3 PL03 - Tailoring crystal size and defects for enhanced zeolite performance Svetlana Mintova <i>CNRS, ENSICAEN, Normandy University, France</i>			
18:00	Sponsored by American Chemical Society Poster session			
19:30	Close			

Wednesday 9 July 2025

09:00	Session chair: Nora de Leeuw			
	Lennox 3			
	PL04 - Single-atom catalysts: A new frontier material in heterogeneous catalysis Tao Zhang <i>Chinese Academy of Sciences, China</i>			
10:00	Time for delegates to move between theatres			
10:10	Lowther Functional inorganic materials	Lennox 3 Materials for energy and sustainability	Lammermuir Suite Nano and porous materials	Menteith Soft matter and biomaterials
	Session chair: Julia Payne	Session chair: Minghui Yang	Session chair: Paul Wright	Session chair: Matthew Gibson
10:40	K15 Roll-model materials: first-principles driven design of multifunctional hybrid nanotubes from 2-D material precursors Krishna Muralidharan <i>The University of Arizona, USA</i>	K16 Using muons to study heterogeneous catalysts Adam Berlie <i>ISIS Neutron and Muon Source, STFC, UKRI, UK</i>	K17 Heterogeneity in MOFs for Sustainable Catalytic Transformation Jun Huang <i>University of Sydney, Australia</i>	K18 Engineered Testbeds for Regenerative Medicine and Cancer Therapeutics: A Modeling and Experimental Approach Kalpana S. Katti <i>North Dakota State University, USA</i>
	F17 Charge Trapping in a-SiN4: Hydrogen as Savior and Saboteur Lukas Hückmann <i>Leiden University, Netherlands</i>	E17 Near-frictionless ion transport within triazine framework membranes Chunshun Ye <i>The University of Edinburgh, UK</i>	K25 KEYNOTE Light-Driven Micromotors: From Material Design to Programmable Self-Assembly Katherine Villa <i>Institute of Chemical Research of Catalonia (ICIQ), Spain</i>	S17 Growing Sustainability: Mycelium-Driven Innovations in Biocomposites and Advanced Materials Amparo Jimenez Quero <i>Chalmers University of Technology, Sweden</i>
11:00	F18 Mapping the controlled hydrothermal synthesis of materials with Principal Component Analysis Peter Dunne <i>Trinity College Dublin, Ireland</i>	E18 Composition-structure relationships and reversible oxygen exchange in high-entropy perovskites Andrea Kirsch <i>University of Copenhagen, Denmark</i>	N18 Permeating Porous Nanoarchitectures: Insights from Surface Analysis Mark Isaacs <i>University College London, UK</i>	S18 3D printable inorganic/organic hybrids for cartilage and bone regeneration Julian Jones <i>Imperial College London, UK</i>
11:20	Lennox 1&2 Refreshments			
12:00	Session chair: Krishna Muralidharan	Session chair: Neil Robertson	Session chair: Katherine Villa	Session chair: Claus Feldmann
	F19 Local Order Hidden in Structural Disorder of Solid Ionics Uncovered through Multiscale Structure Solution XiaoJun Kuang <i>Guilin University of Technology, China</i>	E19 Synthesis of mesoporous Zn1-xCuAl2O4 (x = 0.01, 0.02, 0.05, 0.1 and 0.2) for application in photocatalysis Syed Ansar Ali Shah <i>University of St Andrews, UK</i>	N19 Exploring Novel Approaches to Acetone Gas Sensing with Innovative Metal Oxide-Based Composite Materials Eleonora Pargoletti <i>University of Milan, Italy</i>	S19 Use of various Bioglass 3D macroporous scaffolds in the production of biodegradable composites for tissue engineering Marie-Hélène Thibault <i>Université de Moncton, Canada</i>
12:20	F20 Systematic exploration of magnetism in compositionally complex and high entropy perovskite oxides Augusté Stanionytė <i>University of Amsterdam, Netherlands</i>	E20 The development of organic ionic plastic crystals for clean energy applications Jenny Pringle <i>Deakin University, Australia</i>	N20 Porous ZnO-wood hybrids obtained by ALD with piezoelectric and photoconductive properties Maximilian Ritter <i>ETH Zurich, Switzerland</i>	S20 Semiconductor deposition via laser printing of a bespoke toner containing metal xanthate complexes Paul McNaughten <i>Henry Royce Institute / University of Manchester, UK</i>
12:40	F21 Solid-state nuclear clocks containing the thorium-229 isotope Harry Morgan <i>University of Manchester, UK</i>	E21 The Development of Electrode Materials from Bio-Precipitates Isolde Marsland <i>University of Edinburgh, UK</i>	N21 Thermally Stable Binary Hybrid Organic-Inorganic Perovskite Glasses Arad Lang <i>University of Cambridge, UK</i>	S21 Multifunctional Smart Gel Based on Biopolymers: Psyllium and Alginate with Cerium oxide Nanoparticles Burcu Orhan <i>Istanbul Technical University, Turkey</i>
13:00	Lennox 1&2 Lunch			
	13:40 - Lammermuir Suite			
	Making science greener: sustainable laboratories Session chair: Rachel Evans <i>University of Cambridge</i> Panellists: Serena Cussen <i>University College Dublin</i> ; Christina Picken <i>University of Manchester</i> ; David Brown <i>University of Edinburgh</i>			
14:30	Session chair: Yuichi Shimakawa	Session chair: Grace Han	Session chair: Emily Pentzer	Session chair: Julien Gautrot
	K19 Advancements in High-Pressure/High-Temperature Chemistry and Luminescent Properties of Oxonitridoborates Hubert Huppertz <i>University of Innsbruck, Austria</i>	K20 Metallic transition metal dichalcogenides for energy storage and conversion Manish Chhowalla <i>University of Cambridge, UK</i>	K21 Design of functional nanostructures for energy and biomedical applications Ashok Kumar Ganguli <i>IISER Berhampur, India</i>	K22 Compartmentalized and dynamic polymersomes: from smart therapeutics to artificial cells Sebastien Leccomandoux <i>University of Bordeaux, France</i>
15:00	F22 Alternative route for the preparation of Al2O3, AlON and AlN NPs for optical applications Maria Alejandra Rojas Ruiz <i>Queen Mary University of London, UK</i>	E22 Imaging micro- to macroscopic phases and interfaces in eutectic salt-hydrate thermal energy storage media Gylen Odling <i>Sunamp Ltd, UK</i>	N22 Artificial Intelligence-Controlled Microfluidic Synthesis of Nanoparticles Dale Huber <i>Sandia National Laboratories, USA</i>	S22 Large-area conductor-loaded PDMS flexible composites for wireless and chipless electromagnetic multiplexed temperature sensors Benjamin King <i>University of Glasgow, UK</i>
15:20	F23 Exploratory Synthesis of Novel (Oxy)nitride Phosphors Xiaoming Wang <i>Shaanxi Normal University, China</i>	E23 In situ quantitative single-molecule study of site-specific photocatalytic activity and dynamics on ultrathin g-C3N4 nanosheets Zhengyang Zhang <i>Nanyang Technological University, Singapore</i>	N23 From grams to tons: industrial scale production of aluminium fumarate MOF Rebecca Ryder-Brown <i>Promethean Particles Ltd., UK</i>	S23 Naphthalimides Exhibiting Aggregation-Induced Emission (AIE) and Thermally-Activated Delayed Fluorescence (TADF) for Bioimaging and Drug Delivery Applications Louisa Constance Sigurvinsson <i>Trinity College Dublin, Ireland</i>
15:40	F24 Extended phase diagram of compositional complexity in Ba1-xM1-xO3- (#M 1 to 4) Giuditta Perversi <i>Maastricht University, Netherlands</i>	E24 Lignin-Based Photonic Glasses with Tunable Colors and High Yields Unnimaya Thalakkale Veettil <i>Stockholm University, Sweden</i>	N24 Crystal engineering of azolate coordination networks to enable superior control over light hydrocarbon adsorption Soumya Mukherjee <i>University of Limerick, Ireland</i>	S24 Optimising gene delivery using dual pH and redox responsive carriers Georgina Such <i>The University of Melbourne, Australia</i>
16:00	F25 New in situ / operando magnetometry cell for the study of redox reactions by magnetic properties in M-ion battery materials Maria Jauregui <i>CIC energiGUNE (ESG01241876), Spain</i>	E25 Exploring multicomponent crystals of amino acids as potential piezo-materials Suman Bhattacharya <i>University of Limerick, Ireland</i>	N25 Ordered Mesoporous Ceria and Cerium Gadolinium Oxide Prepared by Vacuum-Assisted Nanocasting Richard T. Baker <i>University of St Andrews, UK</i>	S25 Drug-Cocktail Nanocarriers Combining Lipophilic and Hydrophilic Drugs with High Payload Claus Feldmann <i>Karlsruhe Institute of Technology (KIT), Germany</i>
16:20	Lennox 1&2 Refreshments			
17:00	Session chair: Matt Gibson			
	Lennox 3			
	PL05 - Multifunctional and dynamic hydrogels for biological applications Kristi Anseth <i>University of Colorado Boulder, USA</i>			
18:00	Poster prize winners announcement			
18:15	Close			
19:15	Sponsored by Henry Royce Institute			
	Conference banquet			
	Dynamic Earth <i>Drinks within the Earthscape Galleries and dinner on the Stratosphere</i>			

Thursday 10 July 2025

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