

26th Jul 2026

	Wolfson Hall	Club Room
16:00 - 18:00	Registration Location: Concourse	
18:00 - 19:30	Welcome Reception Location: Buttery	

	Wolfson Hall	Club Room
09:00 - 09:15	Welcome Location: Wolfson Hall	
09:15 - 10:00	Plenary Location: Wolfson Hall [130] Ionic liquids in nano-confinement: layers, bilayers, packing and interference Susan Perkin	
10:00 - 10:05		
10:05 - 11:05	Session 1 Location: Wolfson Hall [30] Porous Silicon Anodes Derived from Molten Salt Dealloying of CaSi ₂ for Lithium-Ion Batteries BING LI [94] Proton Transfer Mechanisms in Protic Ionic Liquids: A Machine-Learning Force Field Study Miguel A. Boado , Martín Otero-Lema, Ángel Míguez-Roel, Trinidad Méndez-Morales, Hadrián Montes-Campos, Luis M. Varela [105] Realising the transition towards fluorine-free ionic liquids using functionalised cations. Frederik PHILIPPI , Margarida Costa Gomes, Daniel Rauber	
11:05 - 11:35	Coffee Break Location: Buttery Coffee Break	
11:35 - 12:40	Session 2 Location: Wolfson Hall 12:00 - 12:20 [8]	

	Electrolysis of regolith for simultaneous oxygen and metal production Mathieu Gibilaro, Laurent Massot, Pierre Chamelot, Christelle Chrion 12:40 - 13:00 [84] Bridging Data and Prediction: Machine Learning for Ionic Liquid Properties and Sigma-Profile Viscosity Modeling Pawan Chhipa, Dinis O. Abranches, Oliver Järvik [41] Exploring Halogen Bonding in Ionic Liquids Patricia Hunt, Muhammad Hashmi	
12:40 - 12:50	Sponsor Talks Location: Wolfson Hall	
12:50 - 13:00	Conference Photograph Conference Photograph	
13:00 - 14:15	Lunch Location: Dining Hall	
14:15 - 14:20		
14:20 - 14:50	Keynote Location: Wolfson Hall [151] The Applications of Molten Salts for Electrochemical Energy Storage Kai Jiang	
14:50 - 14:55		
14:55 - 16:15	Session 3 Location: Wolfson Hall [14] Theoretical and experimental approaches to reducing the melting point of new lithium salt-based systems Alexis COLLY, Pierre CHAMELOT, Mathieu GIBILARO, Gaëtan BUVAT, Laurent MASSOT [29]	

The influence of solutal convection on the cycling behaviour of liquid metal batteries featuring Pb-cathodes

Faezeh Nirousham, [William Nash](#), Paolo Personnettaz, Norbert Weber, Tom Weier

[6]

Oxide Chemistry in Molten Fluorides for Molten Salt Reactor Applications

[Miao Shen](#), Yuan Qian

Coffee Break

Location: Buttery

Session 4

Location: Wolfson Hall

[91]

Unlocking the Full Potential of Deep Eutectic Solvents in Synthesis

[Raul Alberto Pacheco-Muiño](#), Vivienne Cadogan, John Stockton, Sarah Hunter, Matt Foulkes, Silvia Díez-González

[16]

Thermal properties of triazolium based protic ionic liquids for thermal energy storage application.

[Iqbaal Abdurrokhman](#), Oliver Järvik

[36]

Structural and Dynamic Features of Diastereomeric (Deep) Eutectic Systems of Homochiral Components (DIADES)

[Margherita Teresa Barbero](#), Maria Enrica Di Pietro, Maria Nicole Franchini, Grazia Isa Carla Righetti, Alessandro Mariani, Sara Rozas Azcona, Santiago Aparicio, Sahar Nasrallah, Mirjana Minceva, Andrea Mele

[64]

Poly(Ionic Liquid)–Mediated Colloidal Stabilization in Low-Dielectric Media: Interplay of Ion Pairing, Steric Confinement, and Depletion Forces

Nik Nur Azreen Nik Fauzi, Jit Kang Lim, [Mohamad Danial Shafiq](#)

	Wolfson Hall	Club Room
09:00 - 09:45	Plenary Location: Wolfson Hall [118] Electrodeposition of Difficult-to-Plate Elements from High-Temperature Molten Salts Toshiyuki Nohira, Yutaro Norikawa	
09:45 - 09:50		
09:50 - 11:10	Session 5 Location: Wolfson Hall [5] Composition-Controlled Ionic Liquid Biorefining of Softwood for Microfibrillated Cellulose Production Ruihua Luo, Jason Hallett [83] Catalytic Binary and Ternary Ionic Liquid Mixtures as reaction media for the Xylose to Furfural conversion Salvatore Marullo, Giovanna Raia, Francesca D'Anna [37] A sustainable and effective ethanol-free IonoSolv process for high-purity cellulose pulp production Cariny Polesca, Jason Hallett [62] Ioncell® Technology: Manufacturing High-Strength Fibers for Versatile Applications Inge Schlapp-Hackl, Herbert Sixta, Michael Hummel	Session 6 Location: Club Room [60] Electrochemical Study of Salt-Metal Interactions in LiCl-KCl at 400°C: Implications for the Corrosion of Alloys in Molten Salt Reactors BENBRAIK Zineb, COLMONT Marie, DAVIERO-MINAUD Sylvie, PIROVANO Caroline [34] The Dual Role of MgCl2 on Structure–Transport Coupling in Molten Chloride Fast Reactor Fuels Woei Jer Ng, Kateryna Goloviznina, Vincent Sarou-Kanian, Mathieu Salanne, Aydar Rakhmatullin [95] Evaluating Cesium / Iodine Effluent Production in Pyrochemical Reprocessing Systems for Advanced Reactor Fuel Cycles Jacob Brookhart, Guy Fredrickson, Michael Glaser, Alonzo Martinez, John Olson, Rachael Roenfeldt, Darin Snyder [68] Plutonium(III) simulant for molten chloride salt nuclear fuel Kateryna Goloviznina, Mathieu Salanne
11:10 - 11:40	Coffee Break Location: Buttery	
11:40 - 13:00	Session 7 Location: Wolfson Hall	Session 8 Location: Club Room

	[53] Nature of electrodeposition Al-Mn from molten salts Sreesvarna Bhaskaramohan, M J N V Prasad, G V D Jonnalagadda, Sankara Sarma V Tatiparti [4] Recovery of Rhenium from Spent Ni-based Superalloy through Molten Salt Processing Kaixin LIU, Xiao YANG [74] Behaviour of oxidizing elements in the molten salt NaCl-CaCl₂ (600°C) using SmCl₃/SmCl₂ system Marc Cabrières, Céline Cannes, David Rodrigue, Charly Carrière, Sylvie Delpech [73] Synthesis of cerium oxide nanoparticles by thermal decomposition of cerium oxalate in molten salts Raphaëlla Pedreira, Caroline Pirovano, Elisa Capelli, Marie Colmont, Murielle Rivenet	[96] Simulation of energy storage materials: Applications to solid electrolytes interfaces and proton transfer Luis M. Varela, Martín Otero-Lema, Trinidad Méndez-Morales, Hadrian Montes-Campos [46] Graphene oxide–Ionic Liquid Composites : From Molecular Design to 3D Electrode Architectures Alexandre Piton, Alexandros Ploumistos, Tharuneesan Thangavelu, Francisco Fernandes, Ana-Gabriela Porras-Gutierrez, Laurent Michot, Laurent Gaillon, Cécile Rizzi [78] Salt–Salt Induced TFSI Biphasic Electrolytes for Membrane-Free Redox Flow Batteries Gabriel L. Camilo, Murilo L. Alcântara, Ana M. Ferreira, João A. P. Coutinho [93] Water-Modulated Interfacial Structure and Electrochemical Response of Ionic Liquid–Lithium Electrolytes: A Molecular Dynamics Study Ángel Míguez-Roel, Martín Otero-Lema, Miguel Á. Boado, Raúl Lois-Cuns, Trinidad Méndez-Morales, Hadrián Montes-Campos, Luis M. Varela
13:00 - 14:15	Lunch Location: Dining Hall	
14:15 - 14:20		
14:20 - 14:50	Keynote Location: Wolfson Hall [143] Advanced electrolytes for energy storage applications Mega Kar	
14:50 - 14:55		
14:55 - 16:15	Session 9 Location: Wolfson Hall [28] Towards Fluorine-Free Electrolytes: Physicochemical Properties and Ionic Interactions in Acesulfame-Based Ionic Electrolytes	Session 10 Location: Club Room [24] The FFC-Cambridge Electro-deoxidation Process: Synthesis of Materials and Aspects of Sustainability

	Wern Huay Mah, Jhonatan Soto Puelles, Julius Tiongson, Luke O'Dell, Fangfang Chen, Jenny Pringle [7] Ionic liquids for electrochemical applications: Correlation between molecular structure and electrochemical stability window Christian Silvio Pomelli, Erik Piatti, Lorenzo Guazzelli, Andrea Mezzetta, Felicia D'Andrea, Stefano Roddaro, Giorgio Tofani [88] On the road to large scale electrolyte production for Aluminum-Ion Batteries Samuel Lorenz, Thomas Schubert, Felix Pippert [82] Probing electrical double layer structure in ionic liquids with the electrochemical Surface Force Balance (e-SFB) Neave Taylor, Susan Perkin	Carsten Schwandt [52] Molten salts versus organometallics for electrodeposition of Al-Mg alloys Sankara Sarma Tatiparti, Sreesvarna Bhaskaramohan, Fereshteh Ebrahimi [10] Technological and Industrial Progress of Recycling Secondary Tungsten Resources by Molten Salt Electrolysis Liwen Zhang [58] Corrosion Resistant Nickel-Chromium Alloy Generation From Dense Ionic Fluid Electrolytes David Sconyers, Daniel Curran, Noah Cooper, Joshua Maurer
16:15 - 16:45	Coffee Break Location: Buttery	
16:45 - 18:45	Poster Session Location: Buttery	

	Wolfson Hall	Club Room
09:00 - 09:45	Plenary Location: Wolfson Hall [100] The role(s) of deep eutectic systems towards greener technologies in life sciences Ana Rita Duarte	
09:45 - 09:50		
09:50 - 11:10	Session 11 Location: Wolfson Hall [86] Modulating Protein Folding Landscapes: The Role of Ionic Liquids in Controlling Metastable States and Kinetic Traps Angelo M Figueiredo, Eurico J Cabrita [54] Piperonylic acid-based ionic liquids (PAILs) as synergists for insecticide formulations Ramana Pydi, Jennifer Bernard, Christoph Zutz, Patrick-Julian Mikuni-Mester [38] Old Drugs, New Tricks: A New Approach to Drug Detection using Functional Ionic Liquids Anthony Fitzpatrick [56] Methylimidazolium ionic liquids – a new class of forever chemicals? Matthew Wright	
11:10 - 11:30	Coffee Break Location: Buttery	
11:30 - 11:50	Keynote Location: Wolfson Hall [133] Water-in-salts, a new family of electrolytes Mathieu Salanne	

11:50 -
13:20

Session 12
Location: Wolfson Hall

[22]
Molecular Structure, Dynamics, and Thermodynamics of Water-in-Salt Mixtures
[Ilan Shumilin](#), Susan Perkin

[69]
Ionic liquid crystals as superior solid-state electrolytes
[Shuai Tan](#)

[26]
Ion pairing restructures the electric double layer in water-in-salt electrolytes on graphite and alters capacitance
Hannah Wood, [Fulu Zhou](#), Jan Dočkal, Martin Lísal, Filip Moučka, Sittipong Kaewmorakot, Robert Dryfe, Paola Carbone

[67]
Thermoresponsive ionic liquids endowing reversible overheating protection for lithium metal batteries
[Caihong Wang](#)

13:20 -
14:20

Lunch
Location: Dining Hall

14:20 -
17:00

Sightseeing

	Wolfson Hall	Club Room
09:00 - 09:45	Plenary Location: Wolfson Hall [145] Molten salt electrolysis of carbon dioxide Dihua Wang	
09:45 - 09:50		
09:50 - 11:10	Session 13 Location: Wolfson Hall [3] Resource recovery of sulfate-bearing solid waste in molten CaCl2 Bin YANG, Xiao YANG [31] Removal of Rare Earth Element Impurities from LiCl-KCl Molten Salt via Oxidative Precipitation Using Gaseous and Solid Oxidants Yalan Liu, Ziyu Liu [11] Research progress in the separation of tungsten and cobalt by molten salt electrolysis of cemented carbide Xiaoli Xi [33] Electrochemical Reduction of MnO to Metallic Mn in Molten Salt: Mechanism and Oxygen Transport Muhammad Abdullah, Zepeng Lv, Shaolong Li, Jianxun Song	Session 14 Location: Club Room [47] Compositional Control of Electrochemical Carbon Formation in Carbonate–Chloride Haiyan Zhao, Riley Masters [15] Probing the Effects of Current on Electrochemical Carbon Nanotube Synthesis in Molten Salt Electrolytes Prashant Acharya, Zhixu Zhu, Anna Hankin [89] Ionic liquids as additives and electrolytes for hydrogen generation and transport Thomas Schubert, Boyan Iliev [32] Molten salt-promoted Ni-Fe/Al2O3 catalyst for methane pyrolysis QIAN XU
11:10 - 11:40	Coffee Break Location: Buttery	
11:40 - 13:00	Session 15 Location: Wolfson Hall [147]	Session 16 Location: Club Room [76]

	Decoupling network mechanics from ion transport in ionogels through preferential interactions Coby J. Clarke, Richard P. Matthews, Matthew J. Palmer, Kevin Butler, Claudia Almuzara Romero, Alex Brogan, Peter Licence [126] Multifunctional Conjugated Polymers: Integrating Molecular Engineering and Ionic Liquid Processing for Next-Generation Organic Electronics Mohammed Al-Hashimi [42] Hydrophobic Eutectic-based Soft Materials: a Green Strategy for the Removal of Emerging Water Contaminants Maria Enrica Di Pietro, Chiara Carotti, Gloria Nicastro, Laura Riva, Grazia Isa Carla Righetti, Arianna Rossetti, Alberto Mannu, Francesco Briatico Vangosa, Carlo Punta, Andrea Mele [81] Low-Melting Ionic Solids for Energy and Optoelectronics: A Structural and Optical Correlation Biswajit Bhattacharyya, Andreas Taubert	Development of electrochemical sensors for in-situ free oxygen monitoring in molten chloride media for pyrochemical fuel cycle applications Narcís Gay Villaret, Tom Breugelmans, Bart Geboes [72] Study of a molten carbonate salt for trapping gaseous fission products from a molten salt nuclear reactor Robin Delaire, Sylvie Delpech, Céline Cannes, David Rodrigues [25] Machine Learning-Based Molecular Dynamics Study of f-Block Element-Containing Molten Salt Systems Jianhui Lan [150] Beyond Robeson, Beyond Downhill Diffusion: Molten-Salt Membranes for CO2 Capture Greg Mutch
13:00 - 14:20	Lunch Location: Dining Hall	
14:20 - 14:50	Keynote Location: Wolfson Hall [121] Structural Heterogeneity in Ionic Liquids and Its Role in Transport Adilson Freitas, Mariana Ramos Pereira, Miguel Alexandre Martins Nunes, José Nuno Canongia Lopes, Karina Shimizu	
14:50 - 16:10	Session 17 Location: Wolfson Hall [59] Phosphate removal from high-phosphorus iron ore in molten CaCl₂ Xiao Yang [40] Dual chemical and physical study on the reaction between rare earths elements and molten sulfates Mustapha Grib, Anne-Laure Rollet, Ana Gabriela Porras Gutierrez, Christian Simon, Vincent Sarou-Kanian, Sandra ORY, Delphine TALBOT	Session 18 Location: Club Room [85] AI-Screening of Ionic Liquids for Task-Specific applications Murilo Alcantara, João Fabian, Filipe Sosa, João Coutinho [61] Ionic liquid and solvent design for chemical recycling of plastic-containing packaging Giacomo Damilano, Harriet Judah, Shanshan Li, Jake Nicholson, Ryan M O'Shea, Jason Hallett, Alex Brogan, Agi Brandt-Talbot [45]

	[50] Microplasma electrochemical method for the extraction of critical metals from molten salts Yuexiang Lu, Zhe Wang, Jing Chen [39] Corrosion-Resistant Microplasma Anode Array for High-Temperature Molten Salt Electrolysis and In-Situ Analysis Zhe Wang, Junhan Luo, Yuexiang Lu, Jing Chen	How Many Neighbors? Alkali cation solvation in [BMIm][NTf₂] revealed by Raman spectroscopy Cedric MALHERBE, Aurelie RENSONNET, Gauthier EPPE [17] Modification of ionic transport in <i>N</i>-alkyl-4-cyanopyridinium ionic liquids through formation of charge-transfer complexes with polyaromatic hydrocarbons Aloisia King, Josh Bailey, Małgorzata Swadźba-Kwaśny, John Holbrey
16:10 - 16:40	Coffee Break Location: Buttery	
16:40 - 17:00		EUCHEMSIL 2030 Chairs and Location Selection Meeting Location: Club Room
17:00 - 18:00		
18:00 - 23:59	Gala Dinner Location: Dining Hall	

	Wolfson Hall	Club Room
09:00 - 09:45	Plenary Location: Wolfson Hall [92] Charge and proton transfer in ionic liquids Christian Schröder	
09:45 - 09:50		
09:50 - 10:30	Session 19 Location: Wolfson Hall [48] The fate of the proton in protic and aprotic ionic liquids: acidity and ion transfer studied by Raman spectroscopy Aurelie Renzonnet, Irelie Ebardo, Alyna Lange, Patricia Hunt, Andreas Taubert, Cedric Malherbe [70] Resolving Oligomeric Anions in Carboxylic Acid–Carboxylate Systems: Proton Dynamics in Choline–Geranate Elixabete Rezabal	
10:30 - 11:00	Keynote [149] TBC Santiago Aparicio	
11:00 - 11:20	Coffee Break Location: Buttery	
11:20 - 12:00	Session 20 Location: Wolfson Hall [57] Ionic Liquid-Based Extraction of Chromium from Ferrous Alloys and Ores Joshua Maurer, Daniel Curran, Musashi Briem, David Sconyers [75] Chemical and Thermal Stability of Ionic Liquids for High-Temperature applications	

	João Vitor Fabian , Murilo Alcantara, Filipe Sosa, João Coutinho
12:00 - 12:15	Closing Remarks Location: Wolfson Hall