THE FARADAY INSTITUTION

University of Nottingham
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Faraday Institution Conference 2026

Next Frontiers in Energy Storage

Tuesday 8 September | East Midlands Conference Centre, University of Nottingham

08:30-10:00	**Registration and refreshments**

10:00-10:10	**Welcome Address | Main Theatre** **Professor Martin Freer, CEO, Faraday Institution**
10:10-10:20	**Host's Welcome | Main Theatre** **Professor Pete Licence, Head of School of Chemistry and Director of The GlaxoSmithKline Carbon Neutral Laboratory, University of Nottingham**
10:20-10:30	**Opening Remarks | Main Theatre** **Dr Valentina Gentili, Battery Innovation Programme Director, Innovate UK** *Powering Britain's Battery Future: The Road to 2030*
10:30-11:20	**Academic Keynote Talk | Main Theatre** **Professor Yet-Ming Chiang, Kyocera Professor of Materials Science and Engineering, MIT** *Sustainable Energy Storage* **Chaired by Dr Valentina Gentili, Innovate UK**
11:20-12:00	**Industry Keynote Talk | Main Theatre** **Dr Fanny Bardé, Founder and CTO, SOLiTHOR** *Towards Scalable Solid-State Batteries Through Roll-to-Roll processing of Solid Composite Electrolyte* **Chaired by Dr Valentina Gentili, Innovate UK**

12:00-14:00	**Lunch and Exhibition**

14:00-16:00 *Parallel Session* Main Theatre

Session | Solid State Electrolytes and Cells

Chaired by: Dr Dominic Spencer-Jolly, University of Birmingham

This session focuses on solid-state electrolytes and cells, with perspectives from the SOLBAT project within the Faraday Institution. Discussion will centre on interfacial engineering strategies and dendrite suppression, alongside innovations in garnet, sulfide, and polymer electrolyte materials. Consideration will be given to manufacturability and scalable fabrication routes, reflecting the requirements for practical deployment. In situ analysis of solid–solid contact evolution will be discussed in relation to performance and stability, together with practical cell design considerations and the failure modes that arise in solid-state battery systems.

14:00-14:40	**Plenary talk: Professor Mauro Pasta, Professor of Applied Electrochemistry, University of Oxford** *The lithium-argyrodite interface in solid-state batteries*
14:40-15:00	**Invited Talk: Dr Louise Turner, VP Product Development, Ilika Technologies** *Safe and high-performance quasi-solid state cells developed in the UK*
15:00-15:20	**Selected Talk: Dr Bora Karasulu, Associate Professor in Computational Chemistry, University of Warwick** *Design rules for stable lithium-metal solid-state batteries from new Li–P–S electrolytes and machine-learning-enabled interface simulations*
15:20-15:40	**Selected Talk: Jack Harrison** *Operando-Ready X-ray Laminography for Solid-State Pouch-Cell Degradation Studies*
15:40-16:00	**Selected Talk: Dr Sébastien Liatard, Research Engineer, CEA** *Electrochemical performance of sulfide-based solid-state lithium-ion pouch cells*

14:00-16:00 *Parallel Session* Banqueting Suite B

Session | Battery Safety and Abuse

Chaired by: Sarah Windrum, HORIBA MIRA

This session focuses on battery safety and abuse, with perspectives from the SafeBatt project within the Faraday Institution. Discussion will cover thermal runaway prediction and prevention, as well as tolerance to mechanical and electrical abuse. Topics will include the role of inorganic separators and fire suppression systems, alongside gas generation and venting mechanisms in cells under abuse conditions. Safety standards and certification requirements will also be discussed, reflecting their importance for the safe deployment of battery technologies across applications.

14:00-14:20	**Selected Talk: Dr Phil Reeve, Hazardous Materials Scientist, Health & Safety Executive** *Real-Time Emission Characterisation of High-Capacity Lithium-Ion Batteries Undergoing Thermal Runaway*
14:20-14:40	**Invited Talk: Professor Paul Shearing, Professor of Sustainable Energy Engineering, University of Oxford** *Physical and Digital Platforms for Battery Safety Testing*
14:40-15:20	**Plenary talk: Annika Ahlberg Tidblad, Technical Leader Battery Safety and Legislation, Volvo Cars** *Battery Safety from "atom to system" level*
15:20-15:40	**Selected Talk: Dr Jingwen Weng, Imperial College Research Fellow, Imperial College London** *Racing Against Thermal Runaway: Can Fast Discharge Act as an Active Safety Intervention in Large-Format Lithium-Ion Batteries?*
15:40-16:00	**Selected Talk: Dr Asma Eddarir, Scientist, Joint Research Centre** *Safety of Solid-State Batteries: Challenges and Perspectives*

14:00-16:00 *Parallel Session* Conference Suite 3

Session | Grid Scale and Sustainable Energy Storage

Chaired by: Professor Darren Walsh, University of Nottingham

This session focuses on grid-scale and sustainable energy storage, bringing together perspectives from the NEXGENNA project and UltraStore transformational challenge within the Faraday Institution. Discussion will centre on long-duration energy storage technologies that support resilient, low-carbon power systems, with particular attention to emerging chemistries such as sodium-ion, iron–air, redox flow, magnesium, and calcium batteries. Consideration will be given to system-level sustainability, including lifecycle and environmental impact analysis, alongside the practical challenges associated with large-scale deployment, such as cost, policy frameworks, and community integration. Improving durability and reducing degradation in large-format storage systems will also form a key part of the discussion, reflecting their importance for reliable, long-lived grid infrastructure.

14:00-14:20	**Selected Talk: Dr Yang Xu, Associate Professor in Energy Storage, UCL** *Solvent co-intercalation enabled Ca storage in MoS2 for Ca-ion batteries*
14:20-14:40	**Selected Talk: Dr Mohammed Ahmed Zabara, Marie Skłodowska-Curie Postdoctoral Fellow, University of Cambridge** *Rethinking Sodium-Ion Electrolytes: Mechanistic Design Rules for High-Performance Na Batteries*
14:40-15:00	**Selected Talk: Dr Alexander Kibler, Assistant Professor in Electrochemical Systems, UCL** *Organic electrolyte discovery for high-energy Al batteries.*
15:00-15:20	**Invited Talk: Dr Nuria Tapia-Ruiz, Associate Professor in Energy Materials, Imperial College London** *Na-ion Batteries: Materials, Interfaces and Mechanistic Pathways to Sustainable Energy Storage*
15:20-16:00	**Plenary talk: Dr Alexandre Ponrouch, Institute of Materials Science of Barcelona (ICMAB-CSIC)** *From Mg and Ca to Na: Leveraging Interphase Insights to Improve SEI Stability*

16:00-16:40	**Break**

16:45-18:15

Accelerating Innovation: Partnerships and Pathways to Battery Commercialisation | Main Theatre

Chaired by: Ian Ellerington, Technology Transfer Director, Faraday Institution

Translating cutting-edge battery research into commercial products requires more than technical excellence – it demands the right partnerships, facilities, and support structures. This session explores the practical pathways that enable technologies to progress from laboratory innovation to market deployment. Through real-world case studies, speakers will highlight how collaboration between academia, industry, and technology transfer organisations can accelerate commercialisation. Attendees will gain insight into how to engage with supportive organisations, access industry-scale facilities, and navigate the technology transfer process to de-risk and scale emerging technologies.

Invited Talk: Dr Keri Goodwin, Chief Technologist, CPI
Battery Materials Scale-up: From Lab to Market

Invited Talk: Robin Morris, Business Development Manager, Henry Royce Institute, University of Oxford
Talk title TBC

Invited Talk: Dr Richard LeCain, Chief Technology Officer, UKBIC
Accelerating battery commercialisation: Bridging early-stage innovation and industrial scale up

Invited Talk: Dr Ruth Sayers, Founder and CEO, AmpliSi
From Lab to Line: How Partnerships and Pilot-Scale Infrastructure Accelerate Battery Commercialisation

Q&A panel with speakers

18:15-18:25	**Sponsor Talk	Main Theatre** **Huber** **Chaired by: Ian Ellerington, Technology Transfer Director, Faraday Institution**
18:30-20:30	**Exhibition Session**
18:30-20:30	**Poster Session – Kindly sponsored by Nyobolt** **Banqueting Suite A**
18:30-20:30	**Welcome Networking Reception** **East Midlands Conference Centre, Beeston Ln, Nottingham NG7 2RJ** Catch up with existing colleagues and make new acquaintances at our welcome networking reception held on the first evening of the conference. Delegates will be treated to an evening of networking, exhibition and poster sessions all-in-one. This event is free to attend but must be pre-booked via the conference registration form. Food and drink will be provided.

Faraday Institution Conference 2026

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Wednesday 9 September | East Midlands Conference Centre, University of Nottingham

09:00-09:50	**Academic Keynote Talk	Main Theatre** **Professor Jürgen Janek, Professor of Physical Chemistry at Justus Liebig University in Giessen (JLU)** *Will the Future of Batteries be Solid?* **Chaired by: Professor Sir Peter Bruce, University of Oxford**
09:50-10:00	**Platinum Sponsor Talk	Main Theatre** **Iain Aldous, Product Manager – Batteries and Electrochemistry, Alvatek** *The Small Teams Who Enable Breakthroughs* **Chaired by: Professor Sir Peter Bruce, University of Oxford**

10:00-10:30	**Morning Refreshments**

10:30-12:30 *Parallel Session* Main Theatre

Session | High Energy Batteries for Next-Gen Applications

Chaired by: Professor Lee Johnson, University of Nottingham

This session focuses on high-energy batteries for next-generation applications, drawing on perspectives from the LiSTAR project HighPerCell transformational challenge within the Faraday Institution. Discussion will encompass lithium-sulfur and lithium-air battery systems, alongside developments in high-energy cathodes and novel anode materials. Reaching energy densities of 500 Wh kg^{-1} will be a central theme, considered alongside the associated safety constraints and practical implementation challenges. Topics will also include lithium metal interface stabilisation and the ageing mechanisms that influence performance, reliability, and lifetime in high-energy cells.

10:30-11:10	**Plenary Talk: Professor Sir Peter Bruce, Wolfson Professor of Materials, University of Oxford** *The rechargeable lithium-air battery: Challenges and Progress*
11:10-11:30	**Invited Talk: Professor Masashi Ishikawa, Professor, Kansai University** *Porous Carbon-Based Sulfur Cathodes for High-Performance Lithium–Sulfur Batteries*
11:30-11:50	**Selected Talk: Dr Svetlana Menkin, Royal Society Research Fellow, University of Cambridge** *Interfacial Control in Lithium Anode-Free Batteries: A Perspective on Seed Layers*
11:50-12:10	**Selected Talk: Dr Letizia Liiro Peluso, PDRA, University of Nottingham** *Lithium–sulfur battery: Mechanistic study of the discharge route*
12:10-12:30	**Selected Talk: Dr Maryam Nojabaee, *Head of Battery Technology Group, German Aerospace Center*** *Toward Practical Organosulfur-Based Li–S Batteries: From Cathode Architecture to Cell-Level Performance*

10:30-12:30 *Parallel Session* Banqueting Suite B

Session | Recycling and Reuse of Batteries

Chaired by: Dr Jake Yang, University of Leicester

This session focuses on the recycling and reuse of batteries, with perspectives from the ReLiB project within the Faraday Institution. Discussion will cover approaches to direct recycling and chemical recovery, highlighting the advantages and challenges of each method. Topics will also include the use of automation and AI for efficient battery disassembly, strategies for second-life deployment of used batteries, and the recovery of critical materials

to support sustainable supply chains. Broader circularity frameworks will also be explored, reflecting the role of recycling and reuse in enabling environmentally responsible and economically viable battery technologies.	
10:30-10:50	**Selected Talk: Dr Jean Marshall, Assistant Professor, University of Warwick** *NMC electrodes from a sulfate-free recycling process*
10:50-11:10	**Invited Talk: Professor Mohamed Mamlouk, Professor of Electrochemical Engineering, Newcastle University** *Beyond traditional electrochemical Impedance spectroscopy: Non-linear Frequency Response, Distribution of Relaxation Times and Magnetic Field Mapping for State-of-Health Diagnostics and Capacity Forecasting in Second-Life Lithium-Ion Batteries applications*
11:10-11:50	**Plenary Talk: Professor Peter Slater, Professor in Materials Chemistry, University of Birmingham** *Li/Na ion battery recycling: taking the direct approach*
11:50-12:10	**Selected Talk: Ruoyi Dai, PhD Researcher, WMG – University of Warwick** *From Battery Degradation to Economic Decisions: A Financial Analysis of Reuse vs Recycling of End-of-Life Lithium-Ion Batteries*
12:10-12:30	**Selected Talk: Dr Virginia Echavarri-Bravo, Postdoctoral Research Associate, University of Edinburgh** *What if bio-recycled metals outperformed virgin raw materials?*

10:30-12:30 *Parallel Session* Conference Suite 3

Session | AI-Powered Discovery, Optimisation, and Manufacturing for Batteries

Chaired by: Dr James Le Houx, University of Greenwich

This session focuses on AI-driven discovery, optimisation, and manufacturing for batteries. Discussion will cover AI-guided discovery automation and the application of Bayesian optimisation frameworks for materials development. Topics will also include the standardisation of shared datasets, the development of cross-institution digital lab platforms, and the automation and robotisation of laboratories and manufacturing processes with integration into AI workflows, supporting faster, more efficient research, development, and production of battery technologies.

10:30-10:50	**Selected Talk: Dr Haijun Ruan, Assistant Professor, Coventry University** *AI-flashed physics insights: Advanced diagnostics and lifetime extension for batteries*
10:50-11:10	**Selected Talk: Dr Yongzhi Zhang, MSCA Postdoc Fellow, Imperial College London** *A physics-informed digital twin reveals the mechanistic threshold for knee-point onset in lithium-ion batteries*
11:10-11:30	**Invited Talk: Dr Mona Faraji Niri, Associate Professor of Battery Modelling, WMG – University of Warwick** *Closing the Loop from Process to Performance: AI-Powered Modelling and Optimisation for Battery Electrode and Cell Manufacturing*
11:30-11:50	**Invited Talk: Dr Sam Cooper, Chief Scientist, Polaron AI** *Polaron: Small features; big impact*
11:50-12:30	**Plenary talk: Professor Tejs Vegge, Head of Section for Autonomous Materials Discovery, Technical University of Denmark** *MaterialsCommons and FAIR workflows for federated discovery of advanced energy materials*

12:30-14:00	**Lunch and Exhibition**

14:00-16:00 *Parallel Session* Main Theatre

Session | Advanced Characterisation and Degradation

Chaired by: Dr Matthew Lacey, TRATON AB

This session focuses on the characterisation of batteries at both the laboratory and facility scale, with perspectives from the Faraday Institution LEAP: Lithium-ion: Enhancing and Accelerating Performance
Project. Understanding and mitigating the mechanisms that limit battery life will be a major focus. Discussion will cover in situ and operando characterisation techniques, software and simulation tools, and advanced electrochemical methods used to investigate structural and morphological changes across multiple scales. Strategies for tracking battery health throughout its lifetime will also be explored, providing a foundation for developing longer-lasting and more reliable battery systems.

14:00-14:40	**Plenary talk: Professor Dame Clare Grey, Geoffrey Moorhouse Gibson Professor of Chemistry, University of Cambridge** *Comparing Phase Transitions Mechanisms in Li- and Na-ion Electrode Materials: implications for degradation*

14:40-15:00	**Invited Talk: Dr Bethan Davies, Research Associate, Imperial College London** *Exploring chemical degradation through gas analysis in anode-free Cu vs NMC cells*
15:00-15:20	**Selected Talk: Dr James Le Houx, Senior Lecturer, University of Greenwich** *The Topographic Origin of Chemomechanical Failure in High-Nickel Cathodes Revealed by Operando Dark-Field X-ray Microscopy*
15:20-15:40	**Selected Talk: Dr Kieran Jones, PDRA, University of Nottingham** *The Origin of Electrolyte Degradation in Nickel-Rich Lithium-Ion Batteries*
15:40-16:00	**Selected Talk: Dr Stanislaw Zankowski, Research Fellow, University of Oxford** *Staining-assisted mapping of polymeric binders for optimization of negative Li-ion electrodes*

14:00-16:00 *Parallel Session* – Banqueting Suite B

Session | Manufacturing, Formation and Supply Chain

Chaired by: Dr Keri Goodwin, CPI

This session focuses on manufacturing, formation, and the battery supply chain, drawing on perspectives from the Nextrode and FAST projects within the Faraday Institution. Discussion will include advances in dry electrode processing, as well as approaches to rapid formation and electrolyte wetting. Topics will cover supply chain localisation and the role of inline diagnostics and quality control in manufacturing environments. Net-zero manufacturing strategies will also be discussed, reflecting efforts to reduce the environmental impact of battery production while maintaining performance and scalability.

14:00-14:20	**Selected Talk: Dr Philip Bellchambers, Research Fellow, WMG - University of Warwick** *Key Lessons Learnt in Continuous Twin-Screw Extruder Anode Battery Slurry Mixing*
14:20-14:40	**Invited Talk: Dr Gabriele Pupo, Founder & CEO, FluoRok** *Next Generation Fluorochemicals Manufacturing for Li-ion Batteries*
14:40-15:20	**Plenary talk: Professor Emma Kendrick, Chair of Energy Materials, University of Birmingham** *FAST and Sustainable: Formation, Ageing and Critical Material Choices in Manufacturing Li-ion and Na-ion Batteries*
15:20-15:40	**Selected Talk: Dr Naresh Gollapally, Research Associate, University of Oxford** *Scalable Solvent Free Dry Electrode Processing for High-Energy Lithium Ion Batteries*
15:40-16:00	**Selected Talk: Dr Annika R. Völp, Application Specialist, Thermo Fisher Scientific** *Linking Powder Rheology to Feeding Behaviour in Blended Cathode (LMFP/NMC) Electrode Manufacturing: Impact of Al_2O_3 Flow Additive*

14:00-16:00 *Parallel Session* – Conference Suite 3

Session | Batteries for Aviation

Chaired by: Ritvik Anand, Aerospace Technology Institute (ATI)

This session focuses on batteries for aviation, with an emphasis on high specific power and mass-optimised designs for flight. Discussion will cover the structural integration of cells within aircraft components and thermal management strategies for aerospace environments. Topics will also include certification and regulatory frameworks for airborne batteries, as well as hybrid systems and electrified propulsion approaches that support next-generation aviation technologies.

14:00-14:20	**Invited Talk: Zi Yeo, Principal Battery Engineer, Sora Aviation** *Designing a Megawatt Battery Powertrain for a 30-Seat eVTOL Vehicle*
14:20-14:40	**Selected Talk: Professor Jenny Baker, Professor of Mechanical Engineering, University of Bath** *Lithium – Oxygen electric flight; London to Madrid with 150 passengers*
14:40-15:00	**Selected Talk: Dr Anubhav Singh, Assistant Professor, WMG – University of Warwick** *Foresight-based fault detection for electric Vertical Take-Off and Landing aircraft battery packs*
15:00-15:20	**Invited Talk: Sophie Chittim, Chief Project Engineer, Rolls-Royce** *Future Technologies for Net-Zero Aviation*
15:20-16:00	**Plenary talk: Venkat Srinivasan, Senior Scientist, Argonne National Laboratory** *Batteries for electric aviation: from drones to regional aircraft*

16:00-18:00	**Exhibition Session**
16:00-18:00	**Poster Session – Kindly sponsored by Nyobolt** **Banqueting Suite A**
19:00-23:00	**Faraday Institution Conference Dinner & Community Awards** **St Mary's Church, High Pavement, Nottingham NG1 1HN**

	Take advantage of more networking opportunities at the pre-dinner drinks reception, followed by a sit-down three-course dinner with fellow attendees. This year's dinner will take place in the historic and magnificent St Mary's Church, the City of Nottingham's largest remaining medieval building. As is now tradition, as well as a pre-dinner drinks reception and three course meal, dinner guests will celebrate the winners of our Faraday Institution Community Awards announced on the night. We're also delighted to confirm our after-dinner speaker this year is **Chris Ramsey**, Founder of Plug In Adventure, who with his wife, Julie Ramsey, embarked on an 18,000-mile expedition from the 1823 Magnetic North Pole to the South Pole in an electric vehicle, a journey people declared impossible. **The Conference Dinner 2026 is kindly sponsored by Gelion.**

Faraday Institution Conference 2026

Next Frontiers in Energy Storage

Thursday 10 September | East Midlands Conference Centre, University of Nottingham

10:00-12:00 *Parallel Session* Main Theatre

Session | Advanced Lithium-Ion and Intercalation Electrodes

Chaired by: Professor Robert House, University of Oxford

This session focuses on advanced lithium-ion batteries, drawing on perspectives from the 3D-Cat and Degradation projects within the Faraday Institution. Discussion will encompass emerging cathode materials, including Li-rich, lithium nickel oxide (LNO), NMC811, and disordered rock-salt structures. Topics will include 3D electrode architectures and their role in enabling high-rate capability, as well as electrolyte additives and SEI design. Diagnosing and mitigating degradation mechanisms will be discussed alongside approaches to ultra-fast charging. The transition toward cobalt-light or cobalt-free chemistries will also form part of the discussion, reflecting ongoing efforts to improve sustainability and supply-chain resilience.

10:00-10:40	**Plenary Talk: Professor Gleb Yushin, Co-Founder & CTO, Sila Technologies and Professor at Georgia Institute of Technology** *Nanostructured Materials Define the Future of Li-ion Batteries*
10:40-11:00	**Invited Talk: Professor Matteo Bianchini, Chair of Inorganic Active Materials for Electrochemical Energy Storage, University of Bayreuth** *Where Do We Go From LiNiO2? Novel solutions in the Li-rich space*
11:00-11:20	**Selected Talk: Dr Diana Avadanii, Research Associate, University of Cambridge** *Defect engineering in oxides for fast-charging batteries*
11:20-11:40	**Selected Talk: Dr Zhao Li, Postdoctoral Research Fellow,Imperial College London** *Quantitative Decoupling of Bulk and Interfacial Degradation in Intercalation Cathodes by Operando Raman and In Situ EIS*
11:40-12:00	**Selected Talk: Dr Beth Murdock, Material Scientist, Redoxion** *Mn-rich LiMnxFe1-xPO4: Bridging the energy density gap*

10:00-12:00 *Parallel Session* Banqueting Suite B

Session | Battery Modelling

Chaired by: Dr Mona Faraji Niri, Associate Professor of Battery Modelling, WMG – University of Warwick

This session focuses on modelling and digital approaches for batteries, with perspectives from the Multi-Scale Modelling project within the Faraday Institution. Discussion will encompass multiphysics and multi-scale modelling, alongside the use of digital twins for predictive ageing. Topics will also include the integration of physics-based and machine learning models, as well as high-fidelity battery management system (BMS) integration to support performance prediction, optimisation, and safety.

10:00-10:20	**Selected Talk: Dr Will Clarke, Postdoctoral Research Associate, University of Portsmouth** *Hooks, shoulders, knees and toes: Understanding LFP half-cell voltage curves through the composite phase-change model*
10:20-10:40	**Invited Talk: Dr Monica Marinescu, Associate Professor, Imperial College London** *Coupled Degradation Mechanisms in Lithium-Ion Batteries: Diagnostics, Modelling, and Lifetime Design*
10:40-11:20	**Plenary Talk: Professor Weihan Li, Junior Professor for Artificial Intelligence and Digitalization for Batteries, RWTH Aachen University** *Digital Battery with Artificial Intelligence*
11:20-11:40	**Selected Talk: Eymen Kilic, PhD Researcher, University of Bath** *Physics-based modelling of ageing-aware safety envelopes for lithium-ion batteries*
11:40-12:00	**Selected Talk: Prof Cheng Zhang, Associate Professor, Coventry University** *Robust physics-driven battery management system*

10:00-12:00 *Parallel Session* Conference Suite 3

Session | Batteries for Emerging Economies

Chaired by: Steven Hunt, Senior Energy Innovation Advisor and Research and Evidence Directorate, Foreign, Commonwealth and Development Office (FCDO)

This session will showcase research funded by the Ayrton Challenge on Energy Storage, in particular the Concept-to-Demonstrator projects, which are facilitating the deployment of proof-of-concept demonstrators of promising technologies in target countries. Hear about pioneering work using commercial sodium-ion cells in a distributed energy context, the development of a sustainable, low-cost lead-flow battery and a UK-developed sodium-ion battery, being used in mobility applications in Africa.

10:00-10:10	**Setting the scene: Steven Hunt, FCDO**
10:10-10:25	**Invited Talk: Dr. Thomas McKinney, Postdoctoral Researcher, University of Sheffield** *Na-ion Batteries for Sustainable Energy and Mobility in Africa (NaSEMA)*
10:30-10:50	**Invited Talk: Prof Serena Margadonna, Chair in Materials Engineering, Swansea University** *StamiNa: From UK-Developed Sodium-Ion Battery Technology to an E-Mobility Demonstrator in Africa*
10:50-11:00	**Invited Talk: Prof Richard Wills, Prof of Electrochemical Energy Storage, University of Southampton** *The soluble lead flow battery: Nepal demonstrator project*
11:00-12:00	**Q&A/Panel Discussion with:** • Anne Wacera Wambugu, Electrical Engineer | Electricity Researcher • Gifty Mensah, Faraday Institution Battery Ambassador, University of Energy and Natural Resources, Ghana • Brenda Park, COO, StorTera • Mark Thompson, CEO, AceOn Group

12:00-13:20	**Lunch and Exhibition**

13:20-13:45	**Invited Talk | Main Theatre** **Dr Halle Cheeseman, Technology Advisor** *In Pursuit of Transformational Battery Technology - Moonshots to Muddy Boots* **Chaired by: Professor Lee Johnson, University of Nottingham**
13:45-14:15	**Headline Sponsor Talk | Main Theatre** **Matt Wood, CEO, Gelion** *What Comes After Lithium-Ion? Inventing What Comes Next in Batteries* **Chaired by: Professor Lee Johnson, University of Nottingham**
14:15-15:00	**Closing Panel Discussion – The Future of Batteries | Main Theatre** **Chaired by: Dr Valentina Gentili, Battery Innovation Programme Director, Innovate UK** As the closing session of the Faraday Institution Conference 2026, this high-level panel will bring together four of the world's leading voices in battery science and innovation to reflect on the breakthroughs, challenges, and opportunities shaping the next era of energy storage. Tying together the conference theme of "Next Frontiers in Energy Storage," the discussion will explore how advances in materials, manufacturing, sustainability, and system integration are redefining what batteries can achieve in a rapidly evolving energy landscape. **With panellists:** • Prof Sir Peter Bruce, Wolfson Professor of Materials, University of Oxford • Prof Yet-Ming Chiang, Kyocera Professor of Materials Science and Engineering, MIT • Prof Dame Clare Grey, Geoffrey Moorhouse Gibson Professor of Chemistry, University of Cambridge • Prof Jürgen Janek, Professor of Physical Chemistry at Justus Liebig University in Giessen
15:00-15:15	**Poster Awards Presentation | Main Theatre** **Presented by Professor Martin Freer, CEO, Faraday Institution** **Kindly sponsored by Nyobolt**
15:15-15:30	**Closing Remarks | Main Theatre** **Professor Martin Freer, CEO, Faraday Institution**