



Battery Tech Expo

Co-located with



EV INFRASTRUCTURE EXPO

Event guide

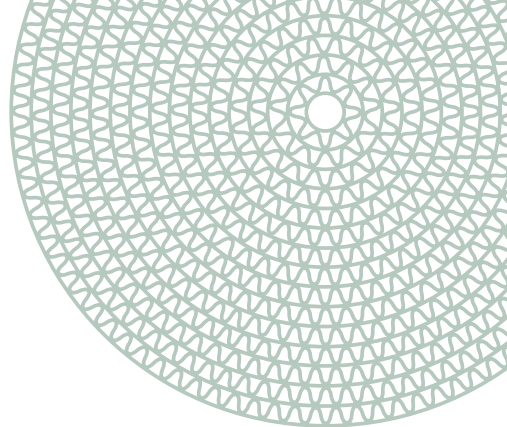
20th April 2023

The Wing, Silverstone, Towcester, NN12 8TL

www.batterytechexpo.co.uk



World leaders in dehumidification.



Humidity Control for Lithium Battery Production



**DST has
a global
network of
more than 50
representatives**



**We have
over 30 years
of market
experience**



**Over 600
installations
in the
automotive
industry**



**Working with
well-known
industry
leaders**



DST Humidity Control. Park Works. Woodlands Road. Off Park Road. Elland. HX5 9HN 01422 312562
sales@dsthumiditycontrol.co.uk

www.dsthumiditycontrol.co.uk



**Battery
Tech
Expo**

The battery, energy storage and EV infrastructure arenas continue to develop at rapid pace with the UK investing heavily in innovation. Today, you'll have the chance to experience the latest technological developments. In both exhibition halls 2 and 3 you'll find leading exhibitors showcasing the very latest innovations.

During the day, industry experts will be presenting a variety of topics on both stages. This year we have free to attend workshops on battery certification, safety and quality control running in the President's Suite and a podcast interview zone where exhibitors and speakers will be discussing industry topics on the Mezzanine area in Hall 2. Refreshments are located in Hall 2 and Hall 3 Mezzanine, offering you a chance to re-charge and network.

We wish you a productive day and look forward to seeing you back at Silverstone on 18th April 2024!

D. Reeks

David



David Reeks

Managing Director,
10Four Media

Events Team



Rebekah Ford



Helen Peden

POWER THE FUTURE



**Battery
Tech
Expo**

32 of the UK's
leading speakers

110 exhibitors
showcasing
new technologies
and knowledge

The UK's largest
event for the
battery industry

Speaker agenda

Hall 2



Topic: Model based development to address battery thermal management and runaway challenges

Dr. Dig Vijay earned his master's degree from Indian Institute of Technology Roorkee, India and his Ph.D. from Technical University Freiberg, Germany in mechanical engineering. Since 2017 he has been working at Gamma Technologies in Germany. In his current role as Simulation Solutions Consultant his primary focus is on the system simulation of conventional and electrified vehicles.

9:00am



Dr. Ing. Dig Vijay
Simulation Solutions
Consultant

Gamma Technologies



Topic: The challenges of battery recycling and how innovation can help create a sustainable future

Jeff Borman has worked in the recycling industry for over 40 years, specialising in the sustainable recycling of electronics, precious metals and battery material. For the last 11 years Jeff has been at the forefront of battery recycling innovation in the UK. His experience spans across various sustainable solutions focusing on future-proofing business operations for a cleaner and greener future. From his experience in pioneering techniques for precious and base metal separation, Jeff has now joined UK-based battery recycler Cellcycle. Using his wealth of knowledge and expertise Jeff is helping develop the UK's leading end-to-end battery recycling company.

9:25am



Jeff Borman
Director of
Battery Division at
Cellcycle Ltd.

Cellcycle Ltd



Topic: From drones to phones; how high energy density pure silicon anodes are changing industries

At LeydenJar, the Dutch silicon anode scale-up, Tim Aanhane brings the innovative material out of the lab, and into real-world applications. LeydenJar's 2023 product, a battery made for the drone industry, will have the market highest energy density combined with excellent rate capability. Tim has a background of industrial engineering and leading clean tech innovations in the energy sector.

9:50am



Tim Aanhane
Business Developer

LeydenJar



Topic: Unlocking network capacity for electric vehicles

Paul has worked in the electricity industry since graduating in 1988. He joined the South Western Electricity Board in the nationalised industry, and has experienced the changes through privatisation and market separation. He remains with his original employer, now part of National Grid. Paul trained as an operational engineer and experienced all aspects of distribution network maintenance, replacement and construction. In 1995 he became a Distribution Manager and was responsible for service delivery, operations and performance in a geographical patch which covered most of Devon. In 2011 Paul left his operational roots to take up responsibility as Policy Manager for WPD. In this role he brought innovative solutions into a business as usual world whilst retaining the more traditional elements of management of standards for an electricity distribution network. In 2019 Paul's focus moved to the new Distribution System Operator area and he is currently System Development Manager with a focus on Net Zero transition. Paul is a Chartered Engineer and Fellow of the Institution of Engineering and Technology.

10:15am



Paul Jewell
System Development
Manager

National Grid



Speaker agenda

Hall 2



Topic: Disrupting the Battery Development Process with an Intelligent Digital Twin

Dr. Richard Boyd is a professional engineer with over 20 years' experience in the application of linear and non-linear structural analysis and optimisation across a wide variety of engineering sectors including aerospace, rail, defence and automotive. Deep domain knowledge of engineering solutions of a multi-disciplinary nature, supporting customer-driven design and test activities at various stages of product development, from concept design to final certification. Project managed several EU and UK government-funded collaborations, most recently £2.6million with Rolls-Royce to develop and deploy multi-physics optimisation solutions to UltraFan. This included the development, implementation, and application of Altair's electro-thermal battery simulation capability.

10:40am



Dr Richard Boyd
Senior Technical Specialist

Altair



Topic: Taking Echion's XNO® materials from lab to outstanding cell performance

Dr. Loubna El Ouatani is the Chief Product Officer at Echion Technologies. A research engineer and scientist at heart, she joined Echion in 2021 to accelerate the development and commercialisation of the company's anode materials for fast-charging Li-ion batteries.

A renowned battery material and cell expert, Lounba graduated from Ecole Nationale Supérieure de Chimie de Lille (ENSCL), specialising in Materials Science. She then received her PhD degree in Physical Chemistry from the IPREM laboratory (Université de Pau) in France, where she led collaborations with SAFT (a world leading company in high technology batteries). She also has an Executive MBA from Temple University (Philadelphia, USA).

11:05am



Dr. Loubna El Ouatani
Chief Product Officer

Echion Technologies Ltd



Topic: Providing a Closed-Loop Solution for Battery Recycling

As Commercial Director, Tom leads the Commercial team in EMEA with the focus on battery feed into Li-Cycle's European Spoke network. He is also engaged with defining and executing Li-Cycle commercial strategy within EMEA, growing and establishing new battery supply customer relationships, and marketing the various products produced at the recycling Spokes and Li-Cycle's Hub. Prior to joining Li-Cycle, Tom spent 12 years with Fujitsu in the battery manufacturing division. Based in Japan for three years, North America for seven years and then the UK for two years, Tom was responsible for managing B2B and B2C battery operations in North America, EMEA and Asia Pacific regions. In the U.S., Tom managed Consumer Market and the OEM Battery Division for North America. He also managed and advised on Fujitsu activities within IEC regulations and US Battery Association (PRBA). In the UK, he was responsible for international battery sales and business development management in key markets including ESS, Automotive, Telematics, MedTech, and more.

11:30am



Tom Wadsworth
**Commercial Director,
Battery Supply – EMEA,
of Li-Cycle**

Lithium Cycle



Topic: Testing Capabilities for Batteries and HV systems

I joined Applus+ Laboratories nearly a year ago to support the company growing investments in battery and high-voltage systems testing at our UK Laboratory (Applus+ 3C Test) next to the Silverstone Circuit. I am happy to be part of the ongoing growth of our environmental lab, and to be able to contribute to its technical strategy, investments, testing and safety procedures, and staff training. I am an Industrial engineer with a wide background in vehicle electronics including high-voltage systems, powertrains and battery development for EV/PHEV. My previous experience working for OEMs in the automotive industry, has set solid foundations to support the development of our new labs.

11:55pm



Abrahan Marquez Garcia
**HV & Battery
operations manager**

Applus+ Laboratories

Speaker agenda

Hall 2



Topic: Solving the battery industrialization challenges

Hexagon offers dedicated batteries solutions enabling the designing, optimizing, and managing battery projects across their entire lifecycle, including engineering design, manufacturing, industrialization, and quality inspection.

Hexagon expertise in battery technology has been instrumental in developing sustainable and efficient energy solutions for industries around the world. The e-Mobility team has worked on a range of projects, from small-scale consumer devices, to Electric Vehicles and large-scale industrial applications. The solutions provided by Hexagon are highly regarded for their ability to optimize battery performance, lifespan and safety.

With a keen focus on innovation, quality, and safety, Ignazio and his extended team are committed to bringing new technologies and practices that are transforming the battery industry to help shape the future of energy storage, enabling more efficient and sustainable use of renewable energy sources.



Topic: The be-all and end-all of battery life is avoiding moisture - how to measure it!

Sales Manager for ECH Scientific, the Global Sales Division of ECH Elektrochemie Halle. Tom leads the global distribution network for all ECH instrumentation and has a wealth of experience in the electrochemistry field, specialising in the measurement of water content using coulometric Karl Fischer titration. The range of coulometric Karl Fischer titrators offered by ECH allow for complete water content analysis of battery materials and related products down to 1 part-per million.

12:20pm



Ignazio Dentici
Vice President, Global e-Mobility Practice Lead at HEXAGON

Hexagon

1:00pm



Tom Gallant
Sales Manager

ECH Scientific



Topic: Motorsport meets mainstream: Designing a light weight, high performance battery pack in a matter of months

Angus has over 25 years' experience within automotive OEMs, Tier1s and start-ups as well as championship winning Formula 1 and Formula E teams. Throughout this time, Angus gained a strong and in-depth understanding of all areas of active vehicle and powertrain systems including electric propulsion systems. In 2013 this culminated in Angus delivering a world land speed record holding electric race car, the Drayson B12/69 EV. Angus subsequently founded engineering consultancy Rockfort Engineering Ltd and heads up the engineering and commercial activities of the company supported by a strong and highly experienced engineering and administration team.

1:25pm



Angus Lyon
Director
Rockfort Engineering



Topic: Optimize EV Battery Testing with Lab Operations

Frederic Zarzecki has more than ten years of experiences in electrical automotive engineering. With the emerging market focus on electrical mobility, he brings a knowledge about power generation, storage, transmission and transformation, helping customers to overcome their new test challenges in e-mobility field during the entire end-to-end product lifecycle and to be best and first on the fast-growing market.

Frederic holds an engineering degree in Electronics and Electrical Engineering with specialisation in Renewable Energy from École Supérieure d'Ingénieurs en Électrotechnique et Électronique "ESIEE" – Amiens, France.

1:50pm



Frederic Zarzecki
Solutions Engineer
Keysight

Speaker agenda

Hall 2



Topic: Identification of failure modes in batteries

Mark Bowden is an Applications Specialist at ZEISS. Primarily focused on Electron Microscopy, but also promoting Optical and X-Ray Microscopy solutions. Before joining ZEISS Mark gained nearly 20 years' experience working with accredited methods in the Forensic Science industry, including particle identification, elemental analysis, and microscopic imaging.

Mark now supports ZEISS customers across various industries from aerospace to automotive, and new energy vehicles to medical industry. Mark enjoys seeing how ZEISS products are used across different industries and helping customers maximise the capabilities of their equipment.

For information, please visit the ZEISS stand - Hall 3 M11, or email mark.bowden@zeiss.com

2:15pm



Mark Bowden
Product Applications
Sales Support (PASS)
Engineer – SEM

Zeiss



Topic: Is our reliance on Li-Ion batteries safe or sustainable?

Matt has more than 22 years' experience in the fire industry and has worked with leading extinguisher manufacturers to help them gain Full EN3 approval, and Fire Ratings under EN3 for their products, working in conjunction with LPCB and Lloyds Register. He has run his own fire safety business providing all types of fire and safety products to the UK and Europe. He now provides advice and solutions to help mitigate the fire risk with fire safety products for both commercial and residential building projects and has a particular interest in the risks, causes and effects of Lithium Battery fires.

2:40pm



Matt Humby
Technical Sales
Consultant at
Firechief Global

Firechief Global
(Sentura Group Ltd)



Topic: Megawatt charging for e-motorsport: From 5% to 85% (SOC) in just under 90 seconds

Prof. Dr.-Ing. Kai André Böhm studied electrical engineering at the Ruhr University in Bochum. His doctoral thesis there dealt with the topic of "Characterisation and modeling of automotive energy storage systems". From 2009 to 2015, he held a position with a major supplier in the automotive industry, responsible for application software development for battery management systems with extensive insights into electric powertrain systems. In 2015, he was appointed Professor of Automotive Systems at Esslingen University of Applied Sciences and was intensively involved in research and industry projects, developing and optimizing electrical energy storage systems for motor vehicles. Since 2018, he has been coordinating the research project D-SEe, developing continuous ultra-fast charge concepts for EVs.

3:05pm



Prof. Dr.-Ing. Kai André
Automotive Battery
Systems, Senior Lecturer
and Engineer, D-SEe
Project leader

hofer powertrain GmbH



Topic: Why the average consumer thinks its 2017 when it comes to EVs

David Voxlin is the global expert on sustainability and consumer decision behaviour at SKIM, a leading insights agency. He advises Fortune 500 clients on their sustainability strategies through better understanding their customers and decision-making processes. David started his career at the World Wildlife Fund working on sustainability policy before entering research consultancy at LRW (now Material). He founded Craved, a foodtech startup selling locally produced craft food and drink in London before joining SKIM. David holds a MA in Political Theory from UCL, and an MSc in Demography from LSHTM.

3:30pm



David Voxlin
Director,
Sustainability &
Behaviour Change

SKIM

Speaker agenda

Hall 3



Topic: D-See project results – 15 min. charging, real 400 km driving

Prof. Dr.-Ing. Kai André Böhm studied electrical engineering at the Ruhr University in Bochum. His doctoral thesis there dealt with the topic of "Characterisation and modeling of automotive energy storage systems". From 2009 to 2015, he held a position with a major supplier in the automotive industry, responsible for application software development for battery management systems with extensive insights into electric powertrain systems. In 2015, he was appointed Professor of Automotive Systems at Esslingen University of Applied Sciences and was intensively involved in research and industry projects, developing and optimizing electrical energy storage systems for motor vehicles. Since 2018, he has been coordinating the research project D-SEe, developing continuous ultra-fast charge concepts for EVs.

9:00am



**Prof. Dr.-Ing.
Kai André BÖHM**
**Automotive Battery
Systems, Senior Lecturer
and Engineer, D-SEe
Project leader**
hofer powertrain GmbH



Topic: Measurements on Electric Drivetrains

Adrian Weeks has been a Product Specialist at StrainSense since 2017 specialising in E-mobility, Renewable Energy and Test and Measurement applications supplying the company's power analysers, data acquisition systems and sensors. His specialisms include automated drivetrain efficiency mapping to streamline post processing and integrating power analysers into drivetrain test cells.

He has a Master's in Engineering Management from Cranfield University and previously worked at a leading aerospace test and measurement facility and motorsport DAQ system sales. Working with StrainSense's external sales engineers, the team provide specialist pre-sale and post-sale support and software training to customers across a range of sectors.

9:25am



Mr. Adrian Weeks
**Data Acquisition
Specialist**
Strainsense



Topic: Optimizing Battery Design with Simulation

Ross works as a Technical Manager at COMSOL UK. He graduated from the University of Cambridge in 2010 with a MEng in Chemical Engineering and then went on to carry out his PhD investigating carbon oxide hydrogenation reactions.

9:50am



Ross Hubble
Technical Manager
COMSOL



Topic: Immersion Cooling in Real-World Application

Sean Chiang is the business development manager at XING Mobility, leading the growth of the European market.

Sean has over 2 years of experience in XING Mobility with product management experience in developing the world's first commercialized immersion-cooled battery pack and also successfully engaged in EV transformation projects and business in the European market.

To fulfill the mission to bring the coolest, safest, and most energy-efficient mobility and energy storage solution with industry-leading immersion cooling technology, Sean Chiang is committed to developing global strategic partners, providing the best immersion-cooled battery solution to the industrial key accounts in various applications, including construction, mining, agriculture equipment, commercial vehicles, energy storage systems, and automotive OEM.

10:15am



Sean Chiang
**Business
Development
Manager**
XING Mobility Inc

Speaker agenda

Hall 3



Dan is an Engineer with over 20 years of experience in the automotive and power generation industries.

Beginning his career in project management and manufacturing at GEC ALSTOM, Dan has also held senior positions in production at Automotive Products and purchasing and supply chain supply at Delphi Diesel Systems.

Prior to joining the Advanced Propulsion Centre, Dan was the Global Quality Manager at Delphi Automotive Aftermarket Division

At the APC, Dan was responsible for developing the Strategic Business Plan and is now working within the Business Development Team.

10:40am



Dan Bunting
Head of Business Development

Advanced Propulsion Centre

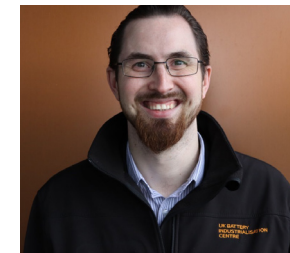


UK BATTERY
INDUSTRIALISATION
CENTRE

Topic: Developing skills in UK battery manufacturing

Jonty Deeley-Williamson joined the UK Battery Industrialisation Centre (UKBIC) as Head of Learning and Development (L&D) in December 2021. Previously a science teacher, he has worked in L&D for more than a decade in the rail construction, high speed rail, food manufacturing and battery manufacturing sectors. Working on various projects including the Elizabeth line, HS2 skill development, installation of a new food manufacturing line, and supporting skills from operatives to directors, his role at UKBIC is to develop battery manufacturing skills and training courses at all levels for the UK

11:30am



Jonty Deeley-Williamson
Head of Learning & Development

UK Battery
Industrialisation Centre



Topic: Graphene - its role in eliminating thermal propagation in the automotive industry

Dr. Sarah Driver is Product Manager for Paragraf's line of graphene-based current and magnetic sensors, responsible for product features, product roadmap, and feeding market requirements into the R&D, development and engineering teams. She joined the company in 2022, after serving as product owner for a global company in the industrial printing industry, responsible for in-life product development and support of two product ranges. Her other experiences include financial modelling and business analysis for a strategic telecoms consultancy, and as a customer applications specialist. Sarah holds a PhD in Materials Science and Metallurgy, MSci in Natural Sciences (Chemistry) from the University of Cambridge, and an MBA from the Quantic School of Business and Technology.

11:05am



Dr Sarah Driver
Product Manager for Sensors

Paragraf



Eylül Karacaaslan Callozzo HV Energy Storage Systems & Cell Testing - Project Engineer

Aston Martin Lagonda Ltd

11:55am



Speaker agenda

Hall 3



Topic: Manufacturing High Power and Sodium-ion Cells for Next-Generation Batteries

Paul has a background in the Financial services Industry. During his 30-year career in the city he worked at various Investment Banks, such as SBC Warburg, Lehman Brothers and Barclays Capital working in cross currency sales in fixed income, FX and futures and options. He later moved across to Man Group where he established a team of brokers providing execution services in futures and options and fixed income. Paul later moved to JB Drax in a well-publicised move that made the FT back in 2010. Paul is an original investor in AMTE in 2014, has been both an NED on the board and subsequently an ED when he joined the company in 2019. In December 2020 Paul moved back into the role of Head of Special Projects, where he worked on new technology transition from lab scale to pilot scale and eventual full scale up. He also works with key investors in the business in an IR role and runs the sales and commercial function in his latest role.

12:20pm



Paul Tillett
Commercial Director
AMTE Power

Notes



Topic: Performance Optimization for Battery Cell, Module and Pack Testing

Dr. Gerald Sammer, Team Leader Business Development, Strategic Business Field Battery & Cell

Education:

M.Sc. in Computer Science and Electrical Engineering

Ph.D. in Economics

Experience:

20+ years of experience in automotive technology with focus on software and solutions for lab operations.

Since 1999 member of the Technical Steering Committee in the automotive standardization body ASAM (www.asam.net).

1:25pm



Dr. Gerald Sammer
Team Leader
Business Development
Strategic Business
Field Battery
AVL List GmbH



Topic: How virtual twins can help accelerate battery development from cell innovation to gigafactory scale-up

- 20+ years experience in High-Tech Industry in technical, sales, sales management and strategy fields.
- Covered Semiconductors, Telecom, Broadcasting, EDA, MCAD, PLM, Batteries disciplines.
- Focusing on the battery business since last 7 years about strategy, product definition, go-to-market, sales support at Dassault Systèmes. Mostly around Battery Cell Design, Engineering, Manufacturing, Digital Twin of Factories and LCA.
- Worked at companies such as Dassault Systèmes (10Y+), Thomson Video Networks/Grass Valley, Cadence Design Systems, NXP/VLSI...
- Graduated from ESEO EEE major in 1995.

1:50pm



Rudy Pastuzak
Battery Industry
Solution Director
Dassault Systèmes
UK Limited

CARPMAELS & RANSFORD

Topic: Energy Storage IP Strategy

Russell is a European and UK patent attorney and part of the Chemistry team at Carpmals & Ransford. Following his doctorate spent researching fuel cell electrodes, he has worked on energy storage innovations throughout his career for clients based in the UK and worldwide, with a particular emphasis on LIB chemistries.

Matthew is a European and UK patent attorney and sits within the Engineering and Tech team at Carpmals & Ransford. He advises a range of clients in the energy sector, large and small, with his interest stemming from his Masters research investigating the use of ZnO nanorods in improving the efficiency of photovoltaic cells.

2:15pm



Russell Woolley
Senior Associate

Matthew Birch
Senior Associate

Carpmaels & Ransford LLP

MDL TECHNOLOGIES

Topic: Battery Testing from Portable Embedded Design to Electrified Mobility

Andrea Vinci is a Senior Technical Marketing Manager at Tektronix. He holds a Master's degree from University of Padova in Electronics and a Battery MBA from Battery Associates. Prior to joining marketing, he worked as RF Designer, Test Manager, Applications Engineer, and then in Sales as Business Developer in EMEA. His expertise includes Test solutions for Semiconductors, Power Electronics and Energy Storage Applications.

2:40pm



Andrea Vinci
Technical Marketing,
Tektronix EMEA
MDL Technologies



Topic: The state of power estimation of lithium-ion batteries for motorsport applications

Adriano Schommer has been leading the Oxford Brookes Racing project since 2021. Leveraging his background as a trackside engineer in professional motorsport and a design engineer of rally cross-country racecars in Brazil, he drives innovation and knowledge transfer from season to season. In addition to his project leadership, Schommer is a PhD candidate in the High Voltage and Energy Storage group at Oxford Brookes University, where he researches Lithium-ion state of power estimation for motorsport applications.

3:05pm



Adriano Schommer
Project Lead
Oxford Brookes Racing



Topic: How to make a battery pack cost-effective at 226Wh/kg

James is the CEO & Co-Founder at IONETIC, a dynamic UK start-up specialising in EV battery pack technology, founded in January 2022. Leveraging its intelligent design platform and in-house production strategy, IONETIC helps niche vehicle-makers and automotive OEMs achieve a highly optimised, time-efficient, and cost-effective battery pack solution.

Prior to founding IONETIC, James was a Researcher in the Electrochemical Science and Engineering Group at Imperial College London, focusing on the design, test, and simulation of battery cells and packs for automotive applications.

3:30pm



James Eaton
CEO & Founder
Ionetic

Exhibitors



Accelonix
www.accelonix.co.uk

HALL 3 STAND 46

Specialist sales and support for microelectronics, power electronics and electronics manufacturing industry. As part of a group operating across Western Europe, Accelonix offers a broad range of products ranging from wire bonding, smart welding, dispensing to reflow soldering, coating and inspection. Our services include application support as well as fine and heavy wire and battery wirebonding services for prototype development. Our focus for this show will be Hesse GmbH fully-automatic Ultrasonic Wire Bonding and Smart Welding platforms, and Scheugenpflug GmbH dispensing technology for use in Power Electronics and HV battery manufacturing processes.



ADVANCED CHEMICAL ETCHING LTD

Advanced Chemical Etching Ltd
www.ace-uk.net

Advanced Chemical Etching (ACE), based in Telford, has seen volumes in the automotive and aerospace sectors increase rapidly in the race for electrification and Hydrogen fuel cell systems development

The process lends itself perfectly for battery interconnects and fuel cell components, so important to the development of energy management in existing and future electric vehicles and alternative fuel systems which will be showcased at our stand M07.

ACE specialises in the development of prototype components, preproduction and volume fulfilment to customers in aerospace, space, precision engineering, automotive, electronics, medical, telecoms and renewables.

**HALL 3 MEZZANINE
STAND M07**



Advanced Propulsion Centre UK
www.apcuk.co.uk

HALL 2 STAND B08

The Advanced Propulsion Centre (APC) collaborates with UK government, the automotive industry and academia to accelerate the industrialisation of technologies, supporting the transition to deliver net-zero emission vehicles.

Since its foundation in 2013, APC has funded 188 low-carbon projects involving 426 partners, working with companies of all sizes.

With its deep sector expertise and cutting-edge knowledge of new propulsion technologies, APC's role in building and advising project consortia helps projects start more quickly and deliver increased value. In the future, its work to drive innovation and encourage collaboration is building the foundations for a successful and sustainable UK automotive industry.



Advanced Test Equipment Corp.
www.atecorp.com

**HALL 3 MEZZANINE
STAND M09**

Our job is to ensure the UK remains competitive in the research, development and production of low carbon automotive technologies, anchoring and growing UK capabilities. The Advanced Propulsion Centre funds a wide range of technologies. The key focus areas are: Thermal Propulsion Systems, Energy Storage & Energy Management, Electrics Machine & Power Electronics, Lightweight Vehicle & Powertrain Structures. Born out of the collaboration between UK Government and industry, our organisation aims to save 50 million tonnes of CO₂, safeguard or create 30,000 jobs in the UK and make £1 billion of match funding, committed by industry and government, available to research and develop low carbon automotive technologies in the UK.

Exhibitors



Alexander Battery Technologies
www.alexandertechnologies.com

HALL 2 STAND B35

We support our global customer base with the design and manufacture of rechargeable lithium-ion and NiMH batteries and chargers.

From our modern UK manufacturing facility we conceive and deliver innovative product solutions, delivering each project on-time and on-budget to get our partners quicker to revenue and allow them to focus on designing and manufacturing their own new products.

Our customer-centric philosophy and priority status with our key suppliers means we deliver outstanding battery products from portable power packs to larger modules together with critical related services such as supply chain resilience and buffer stock programmes, end-of-life management and rapid prototyping.



Altair
www.altair.com

HALL 3 STAND 23

Altair is a leading provider of enterprise-class engineering software enabling innovation, reduced development times, and lower costs from concept design to in-service operation. Our simulation-driven approach to innovation is powered by our integrated suite of software which optimizes design performance across multiple disciplines encompassing structures, motion, fluids, thermal management, electromagnetics, system modelling and embedded systems. Altair's simulation solutions for batteries can analyse and optimise thermal management at the individual cell, module and full pack levels; as well as assess the pack for a full range of crash and impact scenarios to enable the development of safer products.



Alvatek Limited
www.alvatek.co.uk

HALL 3 STAND 5

Headquartered in the UK, we provide the systems, tools, materials and services needed for the design, build, test and development of batteries, fuel cells, electrolyses and hybrid technologies. We also offer a range of solutions, test and measurement equipment for research laboratories, manufacturers and field projects.

Our broad product range and in-house expertise support our consultative approach, working closely with our customers to define the best solutions for their needs and, critically, to provide ongoing support services.

We represent leaders in the field including BaSvTec, EL-Cell, N4L, Safion, Cognition Energy, Nanobase and FuelCellMaterials.



Ansys
www.ansys.com

HALL 3 STAND 1

For more than 50 years, Ansys software has enabled innovators across industries to push boundaries with the predictive power of simulation. Our software gives engineers the ability to explore and predict how products will work — or won't work — in the real world. It's like being able to see the future, enabling engineers to innovate as never before.

Whether designing a battery for electric transportation or consumer products, every design choice requires complex decisions. Ansys simulation software helps you advance battery designs while balancing safety, performance, size, cost and reliability.

Exhibitors



HALL 2 STAND B42

APC Technology Group

www.apctech.com

APC Technology Group have a broad range of specialist electronic systems and components designed for the EV market. This includes power supplies, conversion and EMC filtering, embedded processing and displays, and connectors and cables from market-leading manufacturers Advantech, Astrodyne and Harting.

With a UK-wide technical sales team, APC can advise and support on the latest technologies designed to improve efficiency and achieve superior performance of EV chargers, providing full design- in support to help equipment manufacturers meet design specifications.



HALL 3 STAND 10

Applied Thermal Control Limited

www.app-therm.com

The battery technology industry has been rapidly expanding in recent years, with the demand for batteries for electric vehicles and renewable energy storage increasing. With the growing need for temperature control in battery manufacturing and testing processes, process cooling equipment has become an essential tool to this industry.

ATC is a leading manufacturer and supplier of high-quality equipment designed to provide efficient and reliable temperature control for a range of industrial applications, with the ability to both cool and heat process fluids. ATC have gained experience within this industry and have successfully delivered projects the UK, Europe, and the US.



HALL 3 STAND 14

Applus+ 3C Test

www.3ctest.co.uk

Applus+ 3C Test is one of the UK's leading laboratories in electromagnetic compatibility and environmental testing. Applus+ 3C Test specializes in automotive and commercial industries and offers essential testing services to support their push towards new energy solutions.

We are a UKAS accredited lab and an approved body for UKCA.



HALL 2 STAND B12

Arbin Instruments

www.arbin.com

Arbin is a leading global supplier of multi-channelled potentiostat/galvanostat testing systems for every energy storage device application. Arbin is headquartered in the US and supports our European customers from our growing sales and support office in Munich, Germany. Arbin provides high-precision, scalable test equipment for battery cells, modules, and packs for both industry and research. We cover applications ranging from nano-amps up to thousands of amps, and our comprehensive testing systems include EIS, temperature chambers, and connection systems, along with powerful software solutions to manage up to thousands of channels.

Our success is due to the advanced product features we provide and have often pioneered, the knowledge and service provided by our team, and the extraordinary goals established by management that place a strong emphasis on R&D.

Exhibitors



HALL 3 STAND 18

Arranged BV
www.arranged.be

ARRANGED is an internationally active filter and filtration process technology provider specialized in coatings. In recent years, the focus has been on the rapidly growing market of digital printing technologies. Based on our decades of experience in the filtration of coatings (e.g., offset printing plates), we can assist and supply battery manufacturers with products to improve their production yields.

Our filtration solutions contribute to the efficient implementation of complex and quality-critical filtration processes in anode/cathode production as well as in the laboratory, through customized filtration concepts.

The product portfolio includes filters, stainless steel housings, laboratory equipment, and process-controlled filtration systems.



HALL 3 STAND 4

asecos Ltd
www.asecos.com

asecos Ltd, are the leading manufacturer of highly-insulated hazardous material storage cabinets. For over 25 years asecos has been actively involved in international associations and working groups to develop innovative and sustainable products to meet the challenges of storing hazardous materials in 21st century laboratories and industrial facilities. We are delighted to be showcasing our new ION-Line range of lithium battery storage / charging cabinets. Manufactured and certified to EN14470-1 and EN1363-1, these cabinets offer 90-minutes fire protection, from the outside-in and inside-out. Our team of experts will be on hand to advise and guide you through this exciting storage development.



HALL 3 STAND 56

Asgard Hi-Tech Solutions
www.asgardcleanrooms.com

Asgard Hi-Tech Solutions are experienced, trusted design and construction partners for General Battery Manufacturing turnkey facility fitout within UK, EMEA and North America. We understand manufacturing needs to take place in ultra-low humidity dry rooms, even in R&D labs or large-scale production facilities. We can assist in feasibility or conceptual project development; this can be undertaken under a PCSA. During design, we can assist with value engineering in conjunction with a multidisciplinary design team for all Battery Manufacturing Facilities. Asgard has delivered complex projects involving the following process: R&D Labs, Pilot scale plants, Test chambers, mixing anode & cathode calendaring & Slitting Dring Cell Assembly Labs Packaging. We have developed solutions for dry rooms to maintain dew point of -50°C and 60°C, RH ranging from as low as 0.5%, including fire compartmentation up to 120 minutes. We understand your classification requirements ranging for Class 1.000 - 100.000 (150 6-8).



HALL 3 STAND 20

EV INFRASTRUCTURE EXHIBITOR



EV INFRASTRUCTURE EXPO

ASPiLSAN Enerji
www.aspilsan.com

ASPiLSAN Enerji is the first and only company in Türkiye to produce aircraft/helicopter battery systems in Ni-Cd chemistry with its 42 years of experience as it is the largest battery manufacturer in the country. ASPiLSAN Enerji has started mass production of its Li-Ion Rechargeable Cylindrical Cell ASPiLSAN INR18650A28 in June 2022 and it is the first company in Europe to conduct mass production of li-ion 18650 cells.

The chemistry and composition of ASPiLSAN INR18650A28 is nickel-rich lithium-nickel-manganese-cobalt oxide with the 2800 mAh capacity and 3.6V voltage. Compared to similar capacity cells of well-known certified brands, ASPiLSAN Enerji's lithium-ion 18650 cell has proved to have a higher discharge rate and the ability to function at lower temperatures.

Exhibitors



Avantor

www.avantorsciences.com

HALL 3 STAND 16 & 17

Avantor®, a Fortune 500 company, is a leading global provider of mission -critical products and services to customers in the life sciences and advanced technologies & applied materials industries. The company operates in more than 30 countries and delivers an extensive portfolio of products and services. As our channel brand, VWR offers an integrated, seamless purchasing experience that is optimized for the way our customers do business. We set science in motion to create a better world. For information visit, avantorsciences.com and find us on LinkedIn, Twitter, and Facebook.



BINDER

www.binder-world.com

HALL 3 STAND 31 & 44

BINDER is the world's largest specialist in simulation chambers for the scientific and industrial laboratory. The product range is suitable for routine applications as well as for highly specific work in research and development, production and quality assurance.

Over 22,000 units leave our plant in Tuttlingen/ Germany every year. Nearly all respected companies and research facilities rely on BINDER simulation chambers, whether they need them for cell or tissue cultivation, long-term storage, product testing, or material testing.

The three red triangles of our brand stand for superior products, the best service, and consulting - which means that we can guarantee the "best conditions for your success".



Brownell Limited

www.brownell.co.uk

HALL 3 STAND 25

Since 1952, Brownell Limited has been designing and manufacturing climatic control solutions, protecting a wide range of industries and applications from the adverse effects of high humidity, pressure variations, corrosion, and immersion.

Over 70 years of research and experience have led to an extensive range of custom-made and off-the-shelf solutions, including immersion breathers, pressure relief valves, desiccators, desiccants and sachets, humidity indicators, polymer desiccants, and more.

Also on display will be the innovative NEPS 2 - the latest in dry gas purging technology. Join us at stand 25, hall 3, to hear more about the host of new features and functions.



Bry-Air (Asia) Pvt. Ltd.

www.pahwa.com

HALL 2 STAND B50

Bry-Air, the leader in dehumidification... worldwide, is a global solution provider for dehumidification and drying, gas phase filtration, plastics drying, and energysmart cooling using waste heat, with subsidiaries in China, Malaysia, Brazil, Nigeria and Switzerland, and an associate plant in the USA. Bry-Air (Asia) has been at the forefront of dehumidification and industrial air treatment technology with product range that also includes:

- Dry Room critical for Lithium Battery production
- Dehumidifiers for humidity control and moisture removal
- Gas Phase Filtration Systems for removal of corrosive and odorous gases
- Plastic Auxiliaries for Drying and Conveying
- Adsorption Chiller for Energysmart Cooling using Waste Heat
- High Temperature Wheel for Waste Heat Recovery

Exhibitors



Caltest Instruments Ltd

www.caltest.co.uk

Caltest Instruments offer high level technical/ applications support, an extensive range of sale, demo and rental equipment and a comprehensive service/ UKAS calibration department.

Caltest proudly represent a number of industry leading manufacturers including Arbin, NH Research and many more.

HALL 2 STAND B32

CamMotive[⚡]

Cambustion

HALL 3 STAND 19

Cambustion Ltd

www.cambustion.com

Cambustion provides powertrain engineering services and emission measurement products, with a particular focus on the automotive industry.

Cambustion's Products group produces ultra-fast response exhaust gas analyzers allow for the measurement of a range of gases during engine transient operation including from within a single exhaust stroke. They can be deployed for detecting the origin of lubricant burn, EGR control and with the possibility in future of fast H2O measurement.

Cambustion powertrain engineering services group provides powertrain testing services and emissions control consultancy from its base in Cambridge.

CamMotive is Cambustion's electric powertrain group, working on all areas of electric powertrain testing, including hydrogen fuel cell.



HALL 3 STAND 36

Cell Spot

www.cell-spot.co.uk

Cell Spot specialise in micro-joining technology, a lot of which is used in the manufacture and assembly of battery cells and modules.

We work with some of the world's leading technology brands, providing expertise and equipment in:

- Resistance welding
- Micro-tig / Pulse arc welding
- Laser welding
- Laser marking
- Hot bar bonding

From new product development through to industrialisation, we can support you with your micro joining project.



HALL 2 MEZZANINE
STAND N07

Cellcycle Ltd

www.cellcycle.co.uk

Cellcycle is one of the UK's leaders in advanced battery recycling, providing clients with a compliant, sustainable and complete solution.

As one of only a few companies in the country approved for both battery treatment and exportation we are fully equipped to handle and treat all battery types from portable to industrial and automotive.

Utilising state-of-the art technology we are able to handle a range of different battery chemistry including Lithium-ion, nickel-metal hydride, nickel cadmium and lead-acid. In partnership with industry leaders and academia we are constantly developing new processes and technology to produce the most sustainable battery recycling solutions.

Exhibitors



Centrateq

www.centrateq.co.uk

HALL 3 STAND 29

CentraTEQ are specialists in Vibration Test and Product Test supplying quality test systems for vibration, package, shock and bump testing. We offer equipment from a variety of suppliers enabling us to put together turnkey test solutions to meet even the lightest of budgets without compromising on quality. Whatever your requirements in this field, we can work with you to achieve your goals. We can assist you at every stage of the process; from setting a specification for your test equipment, sourcing, planning the room and services, to delivery, unloading, installation and commissioning.



Chiltern Connections Ltd

www.chilternconnections.co.uk

HALL 2 STAND B04

Chiltern Connections Ltd is a leading conformal coating service provider and supplier of materials used on electronics assemblies. The company has over 30 years' experience in the industry and is known for its exceptional quality of service, products and outstanding customer service. Chiltern Connections works with a wide range of clients from various industries, including automotive, aerospace, defence, and medical. The company's team of skilled engineers and technicians is dedicated to providing customised solutions that meet the specific needs of each customer. With a commitment to innovation and excellence, Chiltern Connections has established itself as a trusted and reliable partner.



CleanTech Lithium

www.ctlithium.com

HALL 2 STAND B26 & B27

CleanTech Lithium (AIM:CTL, Frankfurt:T2N, OTC:CTLHF) is an exploration and development company, advancing the next generation of green lithium projects in Chile. Proudly sustainable, committed to net-zero, our mission is to produce material quantities of battery grade, carbon-neutral lithium using proven Direct Lithium Extraction, powered by renewable energy. CleanTech plans to be the greenest lithium supplier to the EV market.



Combined Test Solutions Limited

www.combinedtestsolutions.co.uk

HALL 3 STAND 32

Combined Test Solutions Ltd (CTS) have been manufacturing and supplying Automatic Test Equipment for over 30 years. With over 1,000 UK customers and a reputation as "The Best in Test", CTS have always provided the expertise, know-how and support required to make a purchase of test equipment successful.

In July 2021 we purchased Stantronic Instruments (UK) and now offer a broader range of industry-leading test instruments, power supplies and loads from many key global suppliers to the UK and Ireland.

To meet our UK customers needs we are now the official UK distributor for Adaptronic, and are also in partnership with a range of innovative suppliers including, GW Instek, ITECH and MCB Electronics.

The span of products we have to offer, compliment each other and fit together perfectly for a cohesive "one stop test shop" for UK Industries.

At the Battery Tech Expo April 2023, Silverstone, CTS will concentrate on the impressive range of battery and EV test-related PSU's, regenerative loads from an array of manufacturers.

Exhibitors



COMSOL

www.comsol.com

HALL 3 STAND 45

COMSOL is a global provider of simulation software for product design, engineering, and research in technical enterprises, labs, and universities. COMSOL Multiphysics® is an integrated environment for creating physics-based models and simulation applications. Optional add-on modules add discipline-specific tools for mechanical, fluid, electromagnetics, and chemical simulations, as well as CAD interoperability. Battery design can involve chemistry, mass transport, heat transfer, and mechanical analysis. COMSOL Multiphysics®, along with the specialized Battery Design Module, is uniquely suited to perform multiphysics modeling to predict and optimize novel battery chemistries as well as compute charge/discharge curves, capacity fade, temperature, and more.



Connect 2 Cleanrooms Ltd

www.connect2cleanrooms.com

HALL 3 STAND 49 & 50

About Connect 2 Cleanrooms & Cleanroomshop.com
Connect 2 Cleanrooms (C2C) is part of the Angstrom Technology Group of Companies, providing market-leading cleanroom expertise with a presence on both sides of the Atlantic.

As an integrated cleanroom solutions provider, the company has become a trusted partner to over 6000 clients worldwide, since 2002. Its range of cleanroom solutions delivers functional performance that meets precise requirements. C2C also provides cleanroom validation and cleanroom training services.

Its consumables division, Cleanroomshop, supplies a full portfolio of consumables, equipment, and furniture to the cleanroom industry worldwide.



Cosworth

www.cosworth.com

HALL 2 MEZZANINE
STAND N02

Cosworth is a global technology business with six decades of engineering experience that delivers propulsion, electronics and software solutions for customer in the automotive, aerospace and marine sectors. Whether through hybrid or EV propulsion, data connectivity or automation technology, Cosworth is ready to solve new challenges with mobility solutions of the future. No matter the complexity of the project, Cosworth has the ability to, design, develop and manufacture clean sheet solutions from its state-of-the-art facilities.



CUSTOMCELLS Group

www.customcells.de

HALL 2 MEZZANINE
STAND N01

DEVELOPMENT AND PRODUCTION OF PREMIUM
BATTERY CELLS

Customcells puts premium battery cells on the road, on the water and in the air. As one of the leading companies in the fields of development and series production of special lithium-ion battery cells, Customcells is setting the pace for a comprehensive technological transformation. Customcells employs more than 150 highly qualified employees and operates development and production sites in Itzehoe and Tübingen.

Exhibitors



Danecca

Danecca Ltd

www.danecca.com

HALL 2 STAND B01

Danecca's purpose is to "Create a Sustainable Life" with the vision of a world where the environment isn't sacrificed for energy security. We do this by removing barriers and inspiring change towards the adoption of sustainable energy solutions.

If there is a requirement for any aspect of battery system development, testing, or production, we have the means, vision, and capability to deliver.



Dassault Systèmes AB

www.3ds.com

HALL 2 STAND B45 & B46

We are a science-based company providing solutions for innovation.

We draw on various branches of science: mathematics, biology, chemistry, physics, geology – to break down silos of knowledge and find the most innovative, sustainable solutions for the future.

For 30 years, we've led the global field in multidisciplinary, multiscale solutions.



HALL 3 STAND 15

DEWESoft UK Ltd

www.dewesoft.com

DEWESoft manufactures a wide range of measurement solutions covering measurement applications across all industries and covering multiple measurement disciplines in one solution. DEWESoft provides flexible, modular and rugged Data Acquisition hardware combined with a versatile turn key software package for Data Recording and Analysis serving applications such as E-Mobility and Power Analysis, Road Load Data recording, NVH, Frequency Analysis and many more. Our Instruments are capable of capturing data from any type of sensor including state-of-the-art integrated High Accuracy current and voltage sensing solutions, with seamless integration with DewesoftX software, XCP, or OPC/UA.



**DIGATRON
GROUP**

Digatron Group

www.digatron.com

**HALL 3 MEZZANINE
STAND M05**

Digatron is an international group of companies with headquarters in Aachen (Germany), and global manufacturing facilities in the USA, China, India & Italy.

For over half a century, the company has become the internationally recognized partner of the leading battery and automotive industry. Digatron manufactures equipment, systems, and devices for the production, testing and development of power storage and batteries of any technology such as lithium, lead, NiMH, NaS, etc. and of any size, from a single cell, 12 V starter battery to the 800kW lithium module of an electric vehicle.

Exhibitors



HALL 2 MEZZANINE
STAND N03

Dolav
www.dolav.uk

AkkuGrain® is the first protective agent specially developed for the transportation and storage of lithium-ion batteries. Made from purely organic components, AkkuGrain® only reacts in the event of a thermal runaway.



HALL 3 STAND 9

EV INFRASTRUCTURE EXHIBITOR



Dover Fueling Solutions
www.doverfuelingsolutions.com

Dover Fueling Solutions, part of Dover Corporation, comprised of the product brands Wayne Fueling Systems, OPW Fuel Management Systems, ClearView, Tokheim, ProGauge, Fairbanks, AvaLAN Networks and LIQAL, delivers advanced fuel dispensing equipment, electronic systems and payment, automatic tank gauging, and wetstock management solutions for petroleum and clean energy (EV, H2, CNG, and LNG) fuels to customers worldwide. Headquartered in Austin, TX, DFS has a significant manufacturing and technology development presence around the world, including facilities in Brazil, China, India, Italy, Poland, the Netherlands, the Netherlands, the United Kingdom and the United States.



HALL 3 STAND 54 & 55

PLATINUM PARTNER

DST Humidity Control
www.dsthumiditycontrol.co.uk

DST Humidity Control are proud to be a Platinum Sponsor for the 2nd year running.

DST, the first company to develop silica gel rotors, are positioned as world leaders in industrial desiccant dehumidification systems and, within the UK market, have over 45 years of experience of designing and manufacturing industrial desiccant dehumidifiers and bespoke dehumidification systems.

The need to increase battery reliability and energy density has pushed the manufacturing process to ever stricter production environments.

DST Humidity Control (UK) and DST (Global) have worked with this industry since its birth and are global leaders in providing highly efficient and flexible dehumidification systems to suit all applications and have already worked alongside the largest global manufactures to achieve their production needs.

Exhibitors



ECH Scientific

www.echscientific.com

HALL 3 STAND 21

ECH Scientific (part of ECH Elektrochemie Halle) are world leaders in the manufacturing and development of electrochemical instrumentation, namely, coulometric Karl Fischer titrators, Potentiometric titrators, H₂S Analysers and Gas Chromatographs. ECH Elektrochemie Halle based in Halle, Germany was founded in 1995, and was one of the first manufacturers of Karl Fischer titrators and have led the development of Karl Fischer applications for the past few decades. In 2017 ECH joined forces with GR Scientific, bringing onboard the well renowned Aquamax KF brand into its production, thus creating ECH Scientific who are responsible for all the sales & service activity for the company. ECH's two locations are Halle, Germany, and Silsoe, UK.



EEvolution Battery Systems Ltd

www.eevbsl.co.uk

**HALL 2 MEZZANINE
STAND N10**

EEvolution is a young company backed by Ian Goodman and Phil Eagleton, both veterans of the UK EV industry with over 30 years of combined experience in Lithium battery manufacturing. We operate from our facility in Durham, with capacity to manufacture 40MWh of battery systems per annum.

We offer the very latest liquid and passive cooled battery technology and have developed our own BMS to meet rigorous safety standards, using a proven HV architecture, power distribution, and module enclosure design philosophy, to offer a strong technical and commercial proposition to our customers.

We are your ideal battery partner.



Empteezy

www.empteezy.co.uk

HALL 3 STAND 13

Empteezy is a manufacturing specialist of tailored lithium-ion battery storage solutions for keeping people and products safe. Our innovative design and manufacturing process ensures safe and reliable solutions for both large and small batteries that protect as well as contain fires and other hazards. With over 35 years of experience in hazardous storage manufacturing, Empteezy is well-placed as a knowledgeable and responsible partner to work with you to achieve high-quality results for complex projects. Our dedication to quality and customer service makes Empteezy the go-to provider for lithium-ion battery storage and transport solutions that meet compliance demands.



Enabled Future Limited

Enabled Future Limited

www.enabledfuture.com

**HALL 3 MEZZANINE
STAND M12**

Enabled Future Limited (EFL), based in Solihull, UK, offers consulting, training, industry tracking and thought leadership across the lifecycles of products used for catalysis, circular economy, hydrogen fuel cells, electrolyzers, batteries, and solar PV. We serve a wide range of clients from startups to multinationals, investors, academic institutes, government, and stakeholder organisations.

Our value proposition is to provide deep techno-economic insights gathered from a broad range of primary and secondary sources with our sector knowledge applied. Our clients use these insights to plan their technology investments, to carry out R&D planning and to communicate accurate sector messaging to their memberships.

Exhibitors



FIRECHIEF GLOBAL

www.batteryfiresafety.co.uk

HALL 2 STAND B06

The use of lithium-ion (Li-ion) batteries has become increasingly prevalent in many aspects of modern life. The battery technology is at the heart of this trend with energy-dense Lithium-ion battery packs normally being used in rechargeable devices. Although relatively rare, in the event of malfunction, these batteries can represent a serious fire risk. Firechief's Lithium-Ion Battery Safety range includes products to assist in controlling those risks as well as containing and suppressing a Li-ion battery fire should one occur. Our Technical Sales consultant, Matt Humby will also speak on this subject during the event.



Fisair - Air Humidity Control

www.fisair.com

HALL 2 STAND B07

FISAIR is a specialist in Air Humidity Control focused on customer service, product quality, and continually striving to improve product design and operational efficiency.

FISAIR has the knowledge, experience, and expertise to deliver successful solutions to our customers with a proven track record of supplying ultra-low dew point dehumidification and fine control temperature and humidity within the battery technology and electronics sectors which is paramount to successful production and product quality.

FISAIR has been trading for more than 50 years internationally, building an extensive network of professionals all around the world, providing exceptional solutions to Air Humidity Control.



Fujipoly Europe Ltd

www.fujipoly.eu

HALL 3 STAND 26

Fujipoly Europe specialises in the supply of Thermal Interface Materials (TIMs) for cooling of electronic systems, Anti-Fire Propagation materials for vehicle battery packs as well as Elastomeric Connectors and Rubber Extrusions for the Automotive Industry. Our parent company, Fuji Polymer Industries Co. Ltd was established in 1978 as a manufacturer for secondary processing of industrial silicone rubber products. Thanks to the technical knowledge within the Fujipoly global group we have the ability to meet the technical challenges now and in the future.



Gamma Technologies

www.gtisoft.com

**HALL 3 MEZZANINE
STAND M06**

Gamma Technologies develops and licenses GT-SUITE, a leading multi-physics CAE system simulation software. GT-SUITE includes a complete library of physics based modeling templates covering fluid flow, thermal, mechanical, electrical, magnetic, chemistry, and controls. In addition, higher level modeling templates are available that are specifically designed for specific applications. GT-SUITE applications include: powertrain, engine, vehicles, driveline, transmission, hybrids, exhaust aftertreatment chemistry, acoustics, cooling & thermal management, HVAC, hydraulics, fuel systems, lubrication, chain, gear & belt drives, etc. GT is dedicated in building the most advanced system simulation tools complemented with carefully designed software solutions that provide major productivity improvements for our customers.

Exhibitors



H.E.L. Group

www.helgroup.com

HALL 2 STAND B18

H.E.L. develops and manufactures innovative scientific instruments and software designed to optimize the efficiency, safety, and productivity of key processes in chemistry, safety and biology applications.

We have a long heritage in thermal safety and hazard evaluation, with a team of 90 including highly skilled process and software engineers, based at our extensive research and manufacturing facilities in the UK.

Specializing in adiabatic and isothermal calorimeters for abusive and non-abusive battery testing these are perfect for hazard screening, safety testing and performance characterization.

Let H.E.L. Group help you gain vital insights into battery behavior.

HAMAMATSU
PHOTON IS OUR BUSINESS

Hamamatsu Photonics UK Ltd

www.hamamatsu.co.uk

HALL 2 STAND B14

Hamamatsu Photonics is a world-leading manufacturer of optoelectronic components and systems. The Company's corporate philosophy stresses the advancement of photonics through extensive research and yields products that are regarded as state-of-the-art. All products are designed to cover the entire optical spectrum and provide solutions for a wide variety of applications including analytical, consumer, industrial and medical instrumentation. On display will be our T-SMILS product which is changing the way lasers process plastic and composite materials along with our range of "X-ray Imaging" components, which include a wide variety of technologies, Microfocus X-ray sources and high resolution scintillators.



Henniker Plasma

www.plasmatreatment.co.uk

HALL 2 STAND B29 & B30

Henniker Plasma are a leading UK manufacturer of plasma surface treatment equipment for cleaning, bonding and nanoscale functional coatings. Our range of batch and in-line plasma devices are used to clean critical contacts prior to wire bonding, to enable reliable bonding, sealing and potting of various non-polar engineering polymers such as PEEK, and to apply hydrophilic and hydrophobic nanocoatings.

Please meet us on stand B29 & B30, hall 2 to learn more.



Hexagon

www.hexagon.com

HALL 2 STAND B10

Hexagon's Manufacturing Intelligence division empowers makers to innovate and create without limit. Our solutions support optimisation throughout the product lifecycle, freeing creators to make better products in new innovative ways, benefitting people and the planet.

Bringing together the physical and digital worlds through hardware and software, we give makers the freedom to ideate, explore, get it right first time, and to scale production.

Exhibitors



Hiden Analytical
www.hidenanalytical.com

HALL 3 STAND 52

Hiden Analytical have been designing and developing the highest quality quadrupole mass spectrometer-based gas analysis systems for over 40 years. We have built a reputation for delivering instruments with superior sensitivity, accuracy and reproducibility together with a first-class global service and applications support network. From dedicated triple filter UHV TPD quadrupoles to Differential Electrochemical Mass Spectrometry systems, Hiden have developed a range of analytical mass spectrometers that address the most advanced and demanding applications.



Huber UK Temperature Control Ltd
www.huber-uk.co.uk

HALL 3 STAND 47

We are a leading supplier of high-precision temperature control solutions for research and industry. Worldwide, our products ensure precise temperature control in laboratories, pilot plants and production processes. Our product range offers innovative solutions for almost all tasks in the field of liquid temperature control from -125 to +425 °C.



Humidity Solutions Ltd
www.humiditysolutions.co.uk

HALL 3 STAND 24

Humidity Solutions is a specialist in humidity control, and offers a full range of flexible desiccant dehumidifiers from Cotes A/S of Denmark, for lithium-ion battery production. The Cotes range provides an Ultradry-air solution for battery dry rooms, using the unique patented Exergic Technology enabling massive energy reductions, cost savings, and huge CO₂ emissions reductions of up to 95%. The team at Humidity Solutions offer expert, specialist advice and a full turnkey service from initial design and specification of a system, installation and commissioning, and ongoing service, maintenance and spares for the life of the equipment.



H V Wooding
www.hvwooding.co.uk

HALL 3 STAND 43

H V Wooding is a leading manufacturer of high-performance components for the hybrid and electric vehicle market. Specialising in the fabrication of custom busbars for battery and drivetrain applications, as well as high tolerance motor laminations and core packs. Our extensive range of in-house capabilities includes wire erosion, laser cutting, presswork, electroplating, and powder coating services. We are actively engaged in low-carbon vehicle projects, including those for electric buses, commercial, off-road, construction vehicles, rail, and aerospace. Its esteemed clientele includes major automotive manufacturers such as Mercedes, McLaren, Williams Advanced Engineering, Ford, and Rolls Royce.

Exhibitors



Influx Technology
www.influxtechnology.com

HALL 3 STAND 37

Influx Technology was established in 1999 and has since designed and developed a wide range of class-leading engineering tools. We provide unique tools for engineers with quality solutions.

Influx offers secure and accurate CAN Bus data loggers and web3 battery passport solutions.



Inka Pallets Ltd
www.inkapallets.co.uk

HALL 2 STAND B02

Stockists of Bulk battery boxes and returnable transit packaging, class leading products and service and industry knowledge.



Inseto
www.inseto.co.uk

HALL 2 STAND B19

Inseto will be showcasing our wirebonding capabilities plus a range of adhesives suitable for use in the manufacture of battery-packs and modules.

We are the exclusive distributor for Kulicke & Soffa (K&S), a leading manufacturer of automatic wire bonding equipment.

The K&S family of "Asterion" wire bonders is available with bonding areas up 760x1440mm, for small through large battery pack designs.

We're also the exclusive agent for DELO's range of adhesives for batteries. For example, we can supply adhesives for heatsink and housing bonding, weld sealing and enclosure gasketing.

Visit our stand to learn about wirebonding and adhesives for battery-packs.

Mercedes-Benz
Intercountry Truck and Van



Intercountry Truck & Van - Mercedes-Benz
www.intercountry.org.uk

PADDOCK CAR PARK

Intercountry Truck & Van has been operating as a Mercedes-Benz commercial vehicle franchise for over 20 years, covering the five counties of Northamptonshire, Cambridgeshire, Buckinghamshire, Bedfordshire and Lincolnshire with dedicated commercial vehicle dealerships to support our customer base.

At Intercountry Truck & Van, we offer the sale and aftersales of the award winning Mercedes-Benz and FUSO Canter commercial vehicle range and unrivalled support to help you switch to electric.

Our growing family of electric vans comes with a team of electric specialists who are here to help you make a smooth transition to electric. Together, we're charging ahead into the future.

Exhibitors



IP Enclosures UK
www.ipenclosures.co.uk

HALL 2 STAND B28

Welcome to the world of Premium Electrical Enclosures. We are the electrical enclosure specialist brand located in Worcestershire UK. Our product is designed, manufactured and engineered in world-class facilities to ensure that components receive protection for the toughest conditions. All IP Enclosure product conforms to IEC62208 and IEC/EN60529 with protection up to IP66 for low-voltage switchgear and controlgear assemblies. Our electrical enclosure systems are available in a variety of materials and surface treatments in powder coated galvanised steel, marine grade aluminium, grade 304/316 stainless steel and GRP. A full custom RAL colour guide is available on request.



ITW Global Fasteners
www.itw-fasteners.com

**HALL 3 MEZZANINE
STAND M15**

As part of the internationally successful ITW Corporate Group with more than 45,000 employees in 52 countries, we are furnished with the strengths and resources of a major global player.

Our area of expertise is the development and production of innovative plastic fastening elements for the automotive sector. Our products are used in all areas of a vehicle including Interior, Exterior, Body, Powertrain, Fluids and EV related components.



Julabo UK Ltd
www.julabo.com

HALL 3 STAND 42

JULABO is one of the world's leading manufacturers of temperature control instruments for research, industry and science. For over five decades our premium products have always provided our customers with the exact temperature at the desired time.

The professional and solution-oriented JULABO team focuses on custom applications. With our comprehensive accessory program offers suitable complete solution for every customer.

JULABO offers high-performance and reliable instruments for the tests under realistic conditions as well as test simulations. To ensure reproducible temperatures, manufacturers and suppliers require premium instruments supporting more than standard applications.



Keysight
www.keysight.com

HALL 2 STAND B16

Keysight enables innovators to push the boundaries of engineering by quickly solving design, emulation, and test challenges to create the best EV battery test experiences. Whether you're looking to test battery cells to modules, or packs, develop battery management system (BMS), or configure cell forming and cycling, Keysight accelerates innovation with intelligent insights that reduce risk and speed time-to-market. Our fusion of technology knowledge, measurement science expertise, and tailored solutions help you forge ahead with confidence in our connected and dynamic world. More information is available at <https://www.keysight.com/gb/en/products/hev-ev-grid-emulators-and-test-systems.html>

Exhibitors



Lincad Ltd
www.lincad.co.uk

HALL 3 STAND 33

Lincad is a leading expert in the design and manufacture of lithium-ion batteries, chargers and associated products for a range of applications across a number of different sectors. With a heritage spanning more than three decades in the defence and security sectors, Lincad has particular expertise in the development of reliable, ruggedized product with high environmental, thermal and electromagnetic performance. With a dedicated team of engineers, all products are designed and manufactured in-house at Lincad's facility in Ash Vale, Surrey. Lincad is ISO 9001 and TickITplus accredited and works closely with its customers to meet their power management needs.



Lucy Zodion
www.lucyzodion.com

**HALL 2 MEZZANINE
STAND N11**

EV INFRASTRUCTURE EXHIBITOR



Lucy Zodion is a leader in the design and manufacture of street lighting equipment in the UK.

We've been developing street lighting control solutions for over 60 years and continue to do so, along with a number of other related technologies.

Our experience and heritage, combined with our thirst for innovation, means we never stand still; ensuring we continue to provide industry leading services and solutions throughout the UK and beyond.



Maccor Inc
www.maccor.com

HALL 2 STAND B34

Maccor was founded in 1986 by a group of electronics and software engineers with experience in the battery industry. Our goal then was to build the finest test equipment available, and to support it comprehensively. This continues to be our goal and our only business today, after over 30 years in operation.

We have thousands of systems in operation, in over 50 countries worldwide. Maccor remains independent, and continues to be operated by the company founders. We are located in company owned facilities in Tulsa, USA. With European Customer service and support based in Market Harborough Leicestershire.



MDL Technologies
www.mdltechnologies.co.uk

HALL 2 STAND B40 & B41

MDL Technologies offers specialist electronic test equipment spanning many applications. With a strong track record within the automotive sector, MDL provide a range of test solutions for Electric Vehicles tailored to meet each manufacturer's unique test requirements. This includes battery (cell, module and pack level), EV charger and EV motor measurement solutions from market leaders Tektronix, Hioki, Chroma, Kewell, Typhoon HIL and Itech.

In addition, MDL provide EMC testing of vehicles and their subsystems with the ability to provide test facilities (such as anechoic chambers) to carry out conducted/radiated immunity and conducted/radiated emissions testing.

Exhibitors



Megger
uk.megger.com

HALL 2 STAND B03

Megger has been a leader in electrical test and measurement globally for 130 years. From power generation to the power outlets in your home, Megger products cover almost every application within the Electrical Supply Industry.

Our products are categorised into seven core application segments: cable test and diagnostics, protection relays and systems, circuit breakers, transformer test and diagnostics, low voltage installations, general electrical testing, and motor and generator testing.



MEP Technologies Ltd
www.meptec.co.uk

HALL 3 STAND 3

MEP Technologies are a UK company involved in the design and manufacture of battery packs and systems for automotive and non-automotive applications.

In addition to a growing portfolio of standard systems, with extensive expertise in the design and development of rechargeable battery packs and full systems, MEP Technologies can offer a complete development solution to support a variety of applications, from small high power battery packs to energy storage systems and automotive traction batteries.



Mitutoyo (UK) Ltd
www.mitutoyo.co.uk

**HALL 2 MEZZANINE
STAND N08**

Mitutoyo is the world's leading manufacturer of precision measuring equipment, offering a huge range of products from micrometers, calipers and dial gauges to hardness testers, vision measuring systems and 3D coordinate measuring machines.

In the UK, in addition to providing top-quality products for manufacturing industry, Mitutoyo offers machine-specific training for customers as well as general metrology training courses for companies wishing to upgrade staff skill levels. Support services include technical advice on specific applications of the company's products, UKAS-certified calibration, sub-contract measurement, and bespoke system design for particularly challenging measurement and component handling applications.



Munters
www.munters.com

HALL 3 STAND 38 & 39

Munters are experts in battery dry room dehumidifier solutions. Whether it's a small R&D lab, a micro-environment, or a large-scale production facility, you can achieve optimum humidity control, and maximize your lithium-ion battery production. We offer both turnkey and supply only solutions, as well as a full range of services to support you.

Exhibitors



HALL 3 STAND 7

Nano Electronic Services Ltd **www.nanoelectronicservices.com**

Nano Electronic Services has a unique approach to manufacturing - offering a range of electronic design and manufacturing solutions. Acting as a single point of contact for multiple suppliers, from design consultants, contract manufacturers, through to test & measurement and EMC compliance solutions. Why spend your day chasing multiple suppliers, when you can have Nano handle it all for you. Ideally, we save you money, but we will definitely save you time. With access to a range of technology and equipment, including 15 SMT lines. Offering rapid prototyping through to volume assembly. Typical quote turnarounds of less than 48 hours.

NETZSCH

Proven Excellence.

HALL 2 MEZZANINE
STAND N06

Netzsch Thermal Analysis **www.analyzing-testing-netzsch.com/en**

Since 1962, NETZSCH has consistently provided our customers with the latest thermal analysis techniques, the broadest range of highest quality products, the most comprehensive technical support and the highest level of service. Whether you are a battery component manufacturer looking for greater process efficiency and better quality control, or a researcher trying to determine the performance parameters of newly emerging battery materials, our solutions will offer you the insight and control needed to power the development and production of superior quality batteries.

Our product range includes a full range of Thermal Analysis Instrumentation, Rheometers, Fire Testing and Accelerating Rate Calorimeters.



HALL 2 STAND B33

Nikon Metrology **www.industry.nikon.com**

Nikon provides a variety of products, services, and solutions worldwide, based on advanced opto-electronics and precision technologies cultivated during the company's more than 100 years of history. The group continues to create new values that contribute to improvement of quality of life and manufacturing in a wide variety of forms. Nikon's Industrial Metrology Business Unit (IMBU) delivers integrated, optimised, ultra-high precision solutions that are not only customised and cost-effective but also work extremely well as soon as they are implemented.



HALL 3 STAND 6

Oxford Instruments **www.oxinst.com**

Be ahead of your time with Oxford Instruments. Understanding the structure and property of a material is fundamental to understanding its characteristics and improving its performance. Oxford Instruments analysis solutions enable you to accurately analyse and characterise materials down to the nanoscale more rapidly, by combining superior detection and analysis instruments with software that interpret the resulting data in the context of your research. Our innovative expertise and key-enabling technologies empower you to accelerate your R&D or increase your productivity. To learn more about how Oxford Instruments solutions can enhance your scientific advancement visit us at Stand 6, Hall 3.

Exhibitors



HALL 3 STAND 41

Paragraf Ltd **www.paragraf.com**

Paragraf is the first company in the world to mass produce graphene-based electronic devices using standard semiconductor processes. Our line of current and magnetic sensors provides a superior battery/circuit mapping solution over existing technologies, particularly for EV applications.

Spun-off from the University of Cambridge in 2018, Paragraf has raised \$85 million over three rounds of fundraising. The company has been identified as a 'future unicorn' by Dealroom, was named to TechNation's Future Fifty and was the top-ranked overseas company recognised by the Taiwan Tech Innovation Excellence (TIE) Awards.



HALL 2 STAND B42

Pickering Interfaces **www.pickeringtest.com**

Pickering offers PXI, LXI & USB signal switching and sensor simulation solutions for electronic test applications. With the increasing adoption of electric vehicles, one of the significant challenges is the effective testing and validation of Battery Management Systems (BMS). To facilitate BMS testing, Pickering's la test battery cell simulator modules (41/43-752A) are available in both PXI & PXIe formats. These modules are ideal for battery stack emulation with the advantage of an industry-standard modular and scalable platform. They may be combined with PXI temperature sensor simulators, switching and instrumentation to create a comprehensive BMS test system.



HALL 3 STAND 22

PI-KEM Limited **www.pi-kem.co.uk**

PI-KEM Ltd is a specialist supplier of Advanced Energy Storage Materials and Equipment for battery research. As the global drive for harnessing electric energy continues, we are extremely proud to distribute on behalf of our international partners who are working at the forefront of next generation battery technology: - MTI Corp USA are a world leading supplier of equipment and consumable for battery development; from battery powder preparation, electrode film coating, test cell comprising and production line machinery. - LTS Research Laboratories Inc. pride themselves on their high purity, high performance materials and an unrivalled research and development team offering precise control in creating materials to exact specifications. Both companies are leading authorities in Li-ion based solid state electrolytes which have been developed with leading battery manufacturers for high storage and discharge applications.



HALL 2 STAND B25

Resonate Testing Limited **www.resonatetesting.com**

Resonate Testing is a family owned and operated ISO17025 accredited SME test laboratory, expanding beyond the scope of a test facility to become a test facilitator, located in Northern Ireland. We have demonstrated capabilities to test lithium-ion battery testing (e.g. UN38.3). We pride ourselves with vibration and SRS shock testing, bespoke engineered test solutions, environmental testing, and a dedicated, custom-built propulsion system fire testing facility. We have a proven track record of expanding our capability to include the space industry and lithium-ion battery testing as we enable the drive for technological solutions to sustainability and a net zero future.

Exhibitors



HALL 3 STAND 48

RISE Research Institutes of Sweden

www.ri.se/en/what-we-do/batteries

Come meet experts in safety-critical testing of batteries! Tell us about your challenges within battery testing and let's see how we might help. Hopefully, we can guide you and initiate a cooperation. We will also gladly tell you about our brand-new and sustainable safety testing, with a unique water – and smoke-cleaning system where we can test large battery packs and full vehicles in a closed environment.

RISE is the Research Institutes of Sweden, an independent and governmentally owned research institute. We collaborate with industry, academia, and the public sector to contribute to innovation, development, and a sustainable society.

You are welcome to visit stand 48, hall 3 for a chat!



HALL 2 STAND B47

Rittal Ltd

www.rittal.co.uk & www.eplan.co.uk

Founded in 1961, and available in 50+ countries, Rittal offers system solutions for energy storage applications, and works with partners and customers to design central infrastructure elements incorporating necessary system-tested components. Rittal 'The System' is a modular product portfolio that includes everything from enclosure, rack, and container solutions to power distribution and climate control technology, planning services, project management, and software tools, such as 3D ecad solutions from EPLAN. In addition to enclosure systems and containers housing batteries, Rittal offers ready-to-use energy storage solutions such as power distribution components, system accessories, and a range of world-leading climate control and monitoring options.



HALL 2 STAND B24

Rockfort Engineering Ltd

www.rockfortengineering.com

Rockfort Engineering are specialists in electric powertrain and ancillary systems with applications ranging from Formula 1 through to HGVs and non-automotive applications. We deliver part and full electric vehicle, powertrain and electronics systems and offer a range of EV powertrain technologies and products including electronics, batteries, high voltage control, brake-by-wire systems as well as software providing full vehicle, powertrain and dynamics control.

We are also experts in the ISO26262 functional safety standards which we apply to appropriate levels in all our projects and offer training and support to customers in its application.



HALL 3 STAND 53

RRC power solutions

www.rrc-ps.com

As a battery manufacturer and developer of reliable mobile power solutions, we provide you key features that will equip your application with a competitive lead in relation to your competitors. Our batteries and chargers are delivered with all the approvals that are required for worldwide market entry. In addition, we ensure you with a guaranteed product availability of over 10 years. It is no coincidence that numerous well-known customers from the medical, military and industrial sectors as well as from the consumer segment rely for so many years on our expertise.

Exhibitors



Schaltbau Machine Electrics

www.schaltbau.com

HALL 2 STAND B11

Schaltbau manufacture DC Power Contactors, Connectors and Switches used in New Energy applications from Battery Packs, Powertrains, Energy Storage to eV Chargers, Control Panels, Test Cells and more. Anywhere that safe and reliable control, switching and isolation of DC power is required.



SciMed Ltd

www.scimed.co.uk

HALL 2 STAND B17

SciMed is a top supplier of scientific instruments in the UK and Ireland, with over 43 years of experience since its establishment in 1979. We believe in providing global brands with local support. Our 30+ team offers analytical instrumentation and process equipment from leading manufacturers to academic institutions, large-scale industries, contract testing labs, startups, and SMEs. We take pride in our technical specialists who work closely with clients to fully understand and meet their requirements.

Our UK-based team of application scientists and service engineers provide excellent aftersales care to ensure that clients receive effective support throughout the lifetime of their investment.



Sertec Corporation Ltd

www.sertec.co.uk

HALL 3 MEZZANINE
STAND M13

Sertec has over 60 years of experience specialising in the manufacture of complex lightweight body structures and electric vehicle components for major automotive OEMs and Tier-Ones.

Our people, manufacturing processes and technical expertise provide innovative solutions that deliver value and reliability for current and potential customers. This leads to long partnerships with key stakeholders who trust and invest in the business.

Our production capacity includes automated stamping processes requiring capacity up to 1000 ton (progression and transfer), automated assembly cells, wireform assemblies and fine blanking, manufactured across well invested facilities in the UK and Europe.



SiTEST Limited

www.sitest.co.uk

HALL 3 MEZZANINE
STAND M01

SiTEST will be showcasing the latest solutions in the 'New energy' Sector from both Dr Schenk & F&K Delvotec Bondtechnik GmbH.

Dr Schenk are one of the World's leading Optical Inspection Companies, pioneering solutions for the latest challenges deriving from Battery Separator Technology. If you are manufacturing Anodes, Cathodes and Separators, ask about our Dr Schenk Inspection systems to help you improve your yield and produce quality battery materials. F&K Delvotec are committed to enabling far greater yield Production techniques with higher gauge material than traditional Ultrasonic Welders.

If you want to reliably produce highest quality connections in batteries using cutting edge technology, make sure you visit us at the Stand.

Exhibitors



Steatite Ltd
www.steatite.co.uk

HALL 2 STAND B39

Steatite Ltd is a market leader in the design, production, test and supply of rugged industrial computers, custom battery packs, MANET radio systems, advanced wideband antennas, and imaging technologies, all ideally suited to harsh operating environments. Steatite has a rich heritage and strong reputation for creating technology that meets the operational demands of its customers. Operating from 4 dedicated UK facilities, the company has full in-house design, engineering, manufacturing and testing capabilities, ensuring that the Steatite name is synonymous with quality and reliability. Steatite is part of the Solid State Plc group of companies (AIM:SOL).



Strainsense
www.strainsense.co.uk

HALL 3 STAND 30

Strainsense has been a trusted and reliable supplier of specialist sensors and instrumentation products. We supply quality sensors for Vibration, Acceleration, Shock, Strain, Pressure, Position, Force, Instrumentation, Inertial, Tilt/Inclination, Torque and Current for both static and dynamic applications.

We also supply the latest high accuracy power analysis and data acquisition equipment, enabling you to satisfy all your measurement requirements in one place. We have a wealth of experience in the Automotive, Crash Test, Flight Test & Military, Aerospace, Space & Satellite, Subsea, Rail, General Test & Measurement and Education markets and we supply both off the shelf and bespoke products.



Telonic Instruments Ltd
www.telonic.co.uk

HALL 3 STAND 34 & 35

Telonic Instruments Ltd an ISO9001:2015 registered company specialises in Test Instruments and Programmable AC and DC Power Supplies from industry leading manufacturers including Kikusui, Delta Elektronika, Lab-Power, ETL Pruftechnik, Rigol, Siglent, Brymen, Danisense, Tekbox, Graphtec, Sensepeek, Microtest, JBC and Micsig. Telonic has been supporting the electronics, automotive, aerospace, education, manufacturing, research and development sectors with sales, service, calibration and hire in the UK for over 50 years.



Telsonic UK Limited
www.telsonic.com

HALL 2 STAND B15

TELSONIC UK, established in 1977, is based in Poole, Dorset. We offer a comprehensive range of ultrasonic modules & systems for plastic and metal welding, cutting, sieving, splicing, textile cut'n'seal & food cutting applications. Equipment ranges from hand-held units and bench top presses through to bespoke special purpose welding systems.

We serve the Automotive, Food, Medical, Healthcare Products, Plastics, Battery and Electronics sectors within the UK and Ireland.

Exhibitors



TestEquity
www.TestEquity.co.uk

**HALL 3 MEZZANINE
STAND M14**

TestEquity is the industry's largest authorized distributor of test and measurement solutions and production supplies. We stock the most solutions to help you design and build electronics. We understand highly-specialized technology demands highly-personalized service. Together, let's put innovation to the test.



The Faraday Centre Ltd
www.faradaycentre.co.uk

**HALL 3 MEZZANINE
STAND M03**

The Faraday Centre is an electrical safety training centre. We focus on preventing accidents in the workplace by providing training using real industrial equipment. Over the course of 28 years, we have trained over 35,000 engineers and have been trusted by many blue-chip companies and industry leaders.

Our courses are delivered by highly experienced lecturers and offer an effective combination of theoretical understanding and hands-on learning experience. Besides our 50 standard courses, we offer custom courses that can be designed to meet our clients' requirements and be delivered in our purpose-built facilities or on clients' sites in the UK and worldwide.



**The Institution Of Engineering
& Technology (The IET)**
www.theiet.org

**HALL 3 MEZZANINE
STAND M10**

Working to engineer a better world.

We are the IET and we inspire, inform and influence the global engineering community to engineer a better world. As a diverse home across engineering and technology, we share knowledge that helps make better sense of the world in order to solve the challenges that matter. It's why we are uniquely placed to champion engineering.



Thermo Fisher Scientific
www.thermofisher.com/battery-research

HALL 3 STAND 2

Our innovative solutions for electron microscopy, surface analysis and microanalysis help materials science researchers advance their sample characterization to gain deeper insight into the physical and chemical properties of materials from the macroscale to the nanoscale. Our multiscale, multimodal solutions cover a broad range of applications serving customers in academia, government, and industry. Our TEMs, DualBeam™ FIB-SEMs, SEMs, XPS, microanalysis solutions and software, take customers from questions to usable data by combining high-resolution imaging with physical, chemical, elemental, mechanical, and electrical analysis across scales and modes.

Exhibitors



HALL 3 MEZZANINE
STAND M02

Thurlby Thandar Instrument Distribution www.ttid.co.uk

TTid (Thurlby Thandar instrument distribution) is the UK sales division of TTI Ltd and is one of the largest distributors of test and measurement equipment in the UK, representing many leading American, European, Japanese and Far Eastern manufacturers, including Rohde & Schwarz, ITECH Electronics, Chroma, AMETEK Programmable Power (Sorensen, California Instruments, ASTERION, Amrel), Magna Power, Yokogawa, Vitrek, amongst others.

Offering a wide range of general and specialised T&M; AC/DC sources and loads (including regenerative & bidirectional), complete systems power solutions, battery test solutions, oscilloscopes, generators, analysers, DMM's, DAQ.



TR Fastenings Ltd www.trfastenings.com

TR Fastenings is part of Trifast plc and is an international specialist in the design, engineering, manufacture and distribution of industrial fastenings and Category 'C' components principally to major global assembly industries.

TR is actively working with a number of organisations involved in the design, manufacture and development of Electric Vehicles (EVs), Battery Pack Modules (EVB) and Electric Vehicle Charging Units for both commercial and residential use. As this sector continues to emerge and develop, TR has the capability to supply an extensive product range and the necessary technical knowledge, expertise and experience to support this industry sector.

HALL 3 STAND 27 & 28



UL Solutions www.ul.com

HALL 2 STAND B13

A global leader in applied safety science, UL Solutions transforms safety, security and sustainability challenges into opportunities for customers in more than 100 countries. UL Solutions delivers testing, inspection and certification services, together with software products and advisory offerings, that support our customers' product innovation and business growth. We help our customers innovate, launch new products and services, navigate global markets and complex supply chains and grow sustainably and responsibly into the future.

In the battery space, UL Solutions provides a comprehensive battery safety program designed for battery and battery-operated product manufacturers.



HALL 2 STAND B43 & B44

Unitemp Ltd www.unitemp.co.uk

Unitemp is the exclusive UK distributor of Espec high performance environmental test chambers for battery cell evaluation and abuse testing, including NIMH, lead-acid and lithium-ion batteries.

Espec's range of chambers can take a battery through all environmental conditions likely to be encountered by the product during its lifetime. Espec BTC series chambers are specially designed for the safe and reliable testing of rechargeable battery charge and discharge applications. They feature a host of features to ensure operator safety.

All Espec Test Chambers are manufactured to UL, IEC, SAE and EUCAR 1- 6 standards.

Exhibitors



**HALL 3 MEZZANINE
STAND M08**

Universal Science & Materials Direct

www.universal-science.com &

www.materials-direct.com

Universal Science has been involved for over 5 years in supplying the electric race car manufacturers with all things surrounding I-ion batteries. They have more recently been supplying the mass production market of EV's with similar technology. Their online division "Materials Direct" offers custom cut pads, gaskets, TIM, films, foams and foils using RFI, tapes, adhesives, vibration absorbing and light weighting materials for the protection of electronics and the construction of I-ion battery packs and LED lighting. Materials Direct's online offering is smart, slick and best of all there is no tooling charge or minimum order quantities.



HALL 3 STAND 8

VACPRO - Vacuum Process Solutions

www.vacpro.co.uk

We are the single destination for all your vacuum and glovebox equipment sales and service requirements. As official distributors for leading global manufacturers such as Edwards Vacuum, MKS Instruments and Jacomex Gloveboxes, you can be assured of the highest quality products and technical knowledge. Our teams in the UK and in Denmark are experienced in many different vacuum applications and we pride ourselves on our customer service and support. We are specialists in all kinds of vacuum processes and vacuum applications. We can offer service, repair or exchange of an extensive range of vacuum equipment.



HALL 2 STAND B31

Vector

www.vector.com

For more than 30 years, Vector has been your capable partner in the development of automotive electronics. Driven by our passion for technology, Vector develops tools, software, hardware and solutions for automotive and related industries around the world. Solutions from Vector help simplify the development of embedded systems in areas such as e-mobility, safety and security, ADAS and autonomous driving.



HALL 2 STAND B20

EV INFRASTRUCTURE EXHIBITOR



Versinetic

www.versinetic.com

Versinetic is the EV charging division of multi-award-winning electronics design consultancy ByteSnap Design.

We work with companies worldwide to rapidly develop next-generation electric vehicle charging products. Versinetic's trusted engineers have experience in designing charging systems stretching back to the 2012 London Olympics. Our reliable, flexible EV charger components include the EV Charger Development Kit, Load Balancing Controller module, and our Smart Charge Point Communications controller. Need software? Our solutions include OCPP Software Stacks and white-label charging app.

Talk to us about creating bespoke smart charging systems using Versinetic's modular Charging Blox – featuring highly-customisable building blocks of hardware, software and consultancy.

Exhibitors



Vigor Gas Purification Technologies (Europe) GmbH

Vigor Gas Purification Technologies & Cellerate

www.vigorgb.com & www.cellerate.co.uk

Vigor specializes in manufacturing hermetically sealed inert atmosphere enclosures and gas purification systems capable of attaining extremely low oxygen and moisture levels <1 ppm, Vigor's systems have numerous features that are advantageous to our customers including leak-free sealing technology which provides an unrivalled leakage rate of 0.001%Vol/hr. We are able to manufacture our enclosures to suit the needs of our customers, from stand-alone R&D enclosures to production scale environments.

Cellerate manufactures automated systems for assembly and sealing of coin cells, single-layer pouch cells and multi-layer pouch cells using patented validation technologies. Cellerate provides systems to academic and industrial customers worldwide.



Weiss Technik UK Ltd

www.weiss-technik.co.uk

weisstechnik® is operational in over 22 companies in 15 countries worldwide. We specialise in products supporting R&D across a wide range of industries and are the market leader for battery test chambers and environmental simulation systems. With battery abuse testing, sophisticated test technology is required to test the safety, reliability and performance of electrical energy storage devices for vehicles and electronic component under all thermal, climatic and mechanical stresses. That is why we offer automobile manufacturers and suppliers a large selection of tried and tested standard test chambers and dry rooms.



Engineers of manufacturing success

WHP Engineering Ltd **www.whp-engineering.com**

WHP Engineering is a multi-disciplined, engineering company dedicated to providing both standalone and turnkey solutions for highly regulated, controlled environments and complex manufacturing processes.

Our design & build service offers our clients the very best collaborative environment to go from concept to reality. WHP has been building controlled environments for over 20 years, and is highly skilled in Dry Room, Cleanroom and Clean Process Plant manufacturing solutions.



WORKERSBEE ENERGY B.V. **www.workersbee.com**

Reliable manufacturer and supplier of EVSE related products like AC/DC charging cables, connectors for electric vehicles, having 5 factories nationwide and with 150+ patents.

HALL 3 STAND 11 & 12

**HALL 2 MEZZANINE
STAND N05**

HALL 2 STAND B48 & B49

HALL 2 STAND B09

Exhibitors



HALL 3 STAND 40

XING Mobility
www.xingmobility.com

Founded in 2015 in Taipei, Taiwan. XING Mobility is a global pioneer of immersion cooling battery technologies, designs and manufactures lithium-ion battery modules and packs for electric vehicles and energy storage systems.

XING Mobility's patented IMMERSIO™ immersion-cooled battery system offers superior thermal management with industry-standard li-ion batteries with ultra-fast charging capability and unprecedented safety, and it's been applied to over 20 versatile electrification programs including the industrial and commercial vehicle OEMs and ESS. XING Mobility is Enhancing the safety and stability of high-voltage batteries to realize an energy-efficient future.



YSDS (Your Special Delivery Service)
www.ysds.com

HALL 2 MEZZANINE
STAND N04

EV INFRASTRUCTURE EXHIBITOR



International logistics solutions for the battery industry. Flexibility and knowledge are often needed when conditions rapidly change. Goods can be shipped swiftly in challenging settings, with chartered flights, local customs brokerage, alternative routes, or intermodal transportation. Solutions tailor-made with end-to-end visibility. 24/7 service from a dedicated and highly trained team of experts. We offer quality out of the ordinary.

Logistics, dangerous goods, lithium-ion batteries

Prototype Batteries

Risk mitigation

Documentation for customs

Customized mechanical engineering logistics

Ad hoc & quick shipping

Guaranteed global quality assurance with several international certifications, including IATA, GDP, ISO 9001 and 14001.

Product classifications for custom formalities.



HALL 3 MEZZANINE
STAND M11

ZEISS
www.zeiss.co.uk

ZEISS are a leading manufacturer of multidimensional metrology solutions including coordinate measuring machines, optical and multi-sensor systems and metrology software for the automotive, aircraft, mechanical engineering, plastics and medical industries. ZEISS Industrial Metrology UK is helping lead the way in providing complete solutions for multidimensional metrology, while offering a great demonstration centre for the CNC coordinate measuring machines and measurement services.

Notes

| Exhibitor | Stand number |
|---------------------------------|----------------------|
| Accelonix | HALL 3 STAND 46 |
| Advanced Chemical Etching Ltd. | HALL 3 MEZZANINE M07 |
| Advanced Test Equipment Corp. | HALL 3 MEZZANINE M09 |
| Altair | HALL 3 STAND 23 |
| Alvatek Limited | HALL 3 STAND 5 |
| ANSYS | HALL 3 STAND 1 |
| Applied Thermal Control | HALL 3 STAND 10 |
| Applus+ 3C Test | HALL 3 STAND 14 |
| Arranged BV | HALL 3 STAND 18 |
| asecos Ltd | HALL 3 STAND 4 |
| Asgard Hi-Tech Solutions | HALL 3 STAND 56 |
| ASPILSAN Enerji | HALL 3 STAND 20 |
| Avantor | HALL 3 STAND 16 & 17 |
| BINDER | HALL 3 STAND 31 & 44 |
| Brownell Limited | HALL 3 STAND 25 |
| Cambustion | HALL 3 STAND 19 |
| Cell Spot | HALL 3 STAND 36 |
| Centrateq | HALL 3 STAND 29 |
| Combined Test Solutions Limited | HALL 3 STAND 32 |
| COMSOL | HALL 3 STAND 45 |
| Connect 2 Cleanrooms | HALL 3 STAND 49 & 50 |
| Dewesoft UK Ltd | HALL 3 STAND 15 |

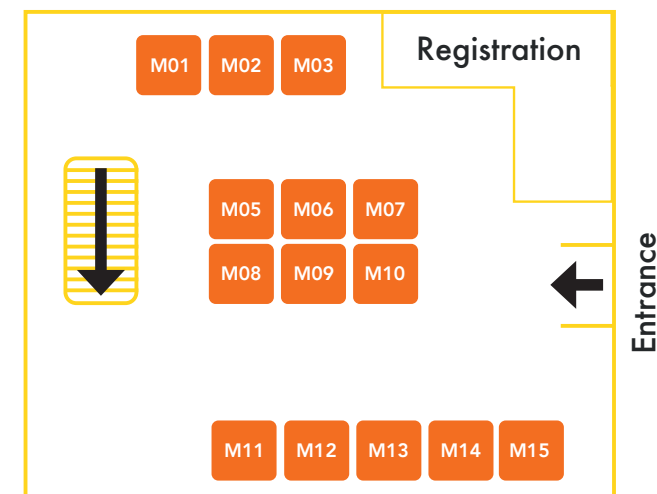
| Exhibitor | Stand number |
|---|----------------------|
| Digatron Group | HALL 3 MEZZANINE M05 |
| DST Humidity Control | HALL 3 STAND 54 & 55 |
| Dover Fueling Solutions | HALL 3 STAND 9 |
| ECH Scientific | HALL 3 STAND 21 |
| Empteezy | HALL 3 STAND 13 |
| Enabled Future Limited | HALL 3 MEZZANINE M12 |
| Fujipoly Europe Limited | HALL 3 STAND 26 |
| Gamma Technologies | HALL 3 MEZZANINE M06 |
| H V Wooding Ltd | HALL 3 STAND 43 |
| Hidden Analytical | HALL 3 STAND 52 |
| Huber UK Temperature Control Ltd | HALL 3 STAND 47 |
| Humidity Solutions Ltd | HALL 3 STAND 24 |
| Influx Technology | HALL 3 STAND 37 |
| Intercounty Truck & Van - Mercedes-Benz | PADDOCK CAR PARK |
| ITW Global Fasteners | HALL 3 MEZZANINE M15 |
| Julabo UK Ltd | HALL 3 STAND 42 |
| Lincad Ltd | HALL 3 STAND 33 |
| MEP Technologies Ltd | HALL 3 STAND 3 |
| Munters | HALL 3 STAND 38 & 39 |
| Nano Electronic Services Ltd | HALL 3 STAND 7 |
| Oxford Instruments | HALL 3 STAND 6 |
| Paragraf Ltd | HALL 3 STAND 41 |

| Exhibitor | Stand number |
|---|----------------------|
| PI-KEM Limited | HALL 3 STAND 22 |
| RISE Research Institutes of Sweden | HALL 3 STAND 48 |
| RRC power solutions | HALL 3 STAND 53 |
| Sertec Corporation Ltd | HALL 3 MEZZANINE M13 |
| SiTEST Limited | HALL 3 MEZZANINE M01 |
| Strainsense | HALL 3 STAND 30 |
| Telonic Instruments Limited | HALL 3 STAND 34 & 35 |
| TestEquity | HALL 3 MEZZANINE M14 |
| The Faraday Centre | HALL 3 MEZZANINE M03 |
| The IET | HALL 3 MEZZANINE M10 |
| Thermo Fisher Scientific | HALL 3 STAND 2 |
| Thurlby Thandar Instrument Distribution | HALL 3 MEZZANINE M02 |
| TR Fastenings | HALL 3 STAND 27 & 28 |
| Universal Science & Materials Direct | HALL 3 MEZZANINE M08 |
| VACPRO - Vacuum Process Solutions | HALL 3 STAND 8 |
| Vigor Gas Purification Technologies & Cellerate | HALL 3 STAND 11 & 12 |
| XING Mobility | HALL 3 STAND 40 |
| ZEISS | HALL 3 MEZZANINE M11 |

Hall 3



Hall 3 Mezzanine

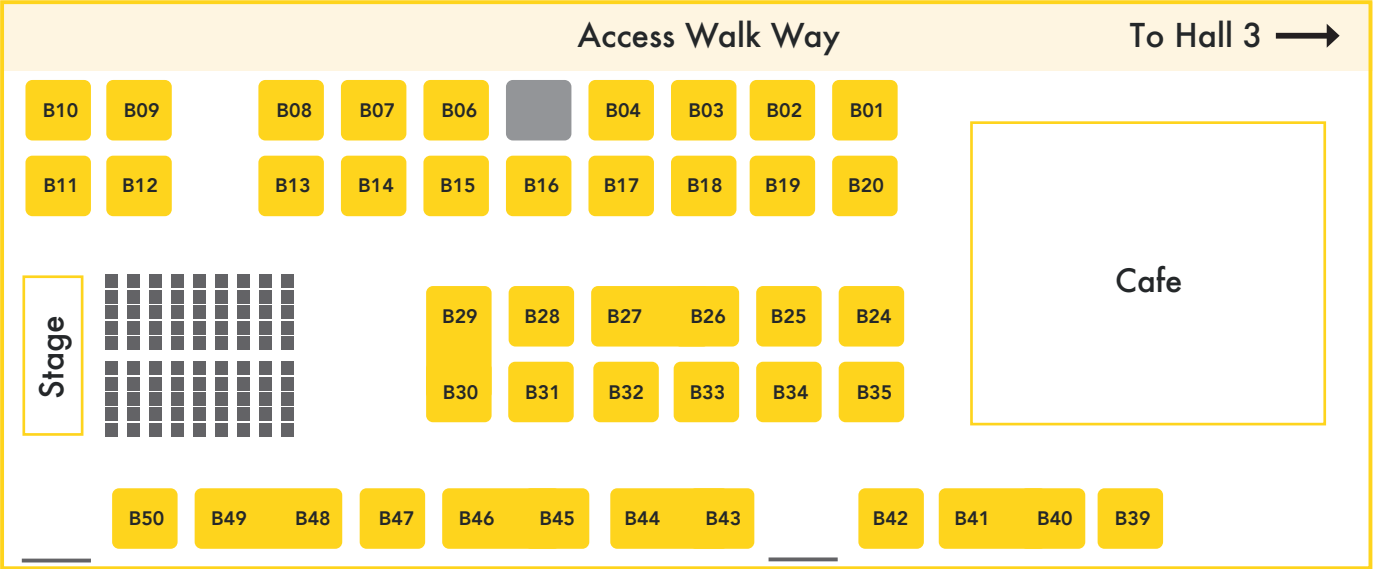


| Exhibitor | Stand number |
|--------------------------------|------------------------|
| ADVANCED PROPULSION CENTRE UK | HALL 2 STAND B08 |
| Alexander Battery Technologies | HALL 2 STAND B35 |
| APC Technology Group | HALL 2 STAND B40 & B41 |
| Arbin Instruments | HALL 2 STAND B12 |
| BRY-AIR (ASIA) PVT. LTD. | HALL 2 STAND B50 |
| Caltest Instruments Ltd | HALL 2 STAND B32 |
| Cellcycle Ltd | HALL 2 MEZZANINE N07 |
| Chiltern Connections Ltd | HALL 2 STAND B04 |
| CleanTech Lithium | HALL 2 STAND B26 & B27 |
| Cosworth | HALL 2 MEZZANINE N02 |
| CUSTOMCELLS Group | HALL 2 MEZZANINE N01 |
| Danecca Ltd | HALL 2 STAND B01 |
| Dassault Systèmes AB | HALL 2 STAND B45 & B46 |
| Dolav | HALL 2 MEZZANINE N03 |
| EEvolution Battery Systems Ltd | HALL 2 MEZZANINE N10 |
| FIRECHIEF GLOBAL | HALL 2 STAND B06 |
| Fisair - Air Humidity Control | HALL 2 STAND B07 |
| H.E.L Group | HALL 2 STAND B18 |
| Hamamatsu Photonics UK Ltd | HALL 2 STAND B14 |

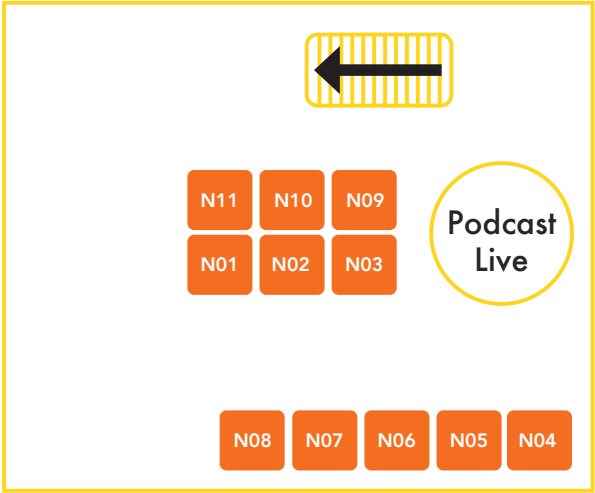
| Exhibitor | Stand number |
|--------------------------|------------------------|
| Henniker Plasma | HALL 2 STAND B29 & B30 |
| Hexagon | HALL 2 STAND B10 |
| Inka Pallets Ltd | HALL 2 STAND B02 |
| Inseto | HALL 2 STAND B19 |
| IP Enclosures UK | HALL 2 STAND B28 |
| Keysight | HALL 2 STAND B16 |
| Lucy Zodion | HALL 2 MEZZANINE N11 |
| Maccor Inc | HALL 2 STAND B34 |
| MDL Technologies | HALL 2 STAND B40 & B41 |
| Megger | HALL 2 STAND B03 |
| Mitutoyo (UK) Ltd | HALL 2 MEZZANINE N08 |
| Netzsch Thermal Analysis | HALL 2 MEZZANINE N06 |
| NIKON METROLOGY | HALL 2 STAND B33 |
| Pickering Interfaces | HALL 2 STAND B42 |
| Resonate Testing Limited | HALL 2 STAND B25 |
| Rittal Ltd | HALL 2 STAND B47 |
| Rockfort Engineering Ltd | HALL 2 STAND B24 |
| Schaltbau | HALL 2 STAND B11 |
| SciMed Ltd | HALL 2 STAND B17 |

| Exhibitor | Stand number |
|--------------------------------------|------------------------|
| Steatite Ltd | HALL 2 STAND B39 |
| Telsonic UK Limited | HALL 2 STAND B15 |
| UL Solutions | HALL 2 STAND B13 |
| Unitemp | HALL 2 STAND B43 & B44 |
| Vector | HALL 2 STAND B31 |
| Versinetic | HALL 2 STAND B20 |
| Weiss Technik UK Ltd | HALL 2 B48 & B49 |
| WHP Engineering Ltd | HALL 2 MEZZANINE N05 |
| WORKERSBEE ENERGY B.V. | HALL 2 STAND B09 |
| YSDS (Your Special Delivery Service) | HALL 2 MEZZANINE N04 |

Hall 2



Hall 2 Mezzanine



Workshops - President's Suite

New for 2023:

The introduction of company workshops, giving an opportunity to delve deeper into specialist subjects and innovations.

Workshops have been pre-booked but spaces may be available on the day.

10:00am

UL Solutions

Workshop: The importance of certification in battery safety



11:30am

ThermoFisher Scientific

Workshop: Enhanced SEM and XPS workflows for battery Development and Quality Control

ThermoFisher
SCIENTIFIC

Head to the President's Suite, located just off Hall 3 Mezzanine to attend.





Battery Tech Expo



Scan for
events page
to register

**Upcoming events,
register now:**

Battery Tech Expo Sweden

27th/28th September 2023

www.batterytechexpo.se

Battery Tech Expo Central Europe

18th October 2023

www.batterytechexpocentraleurope.com

Battery Tech Awards London UK

22nd November 2023

www.batterytechawards.co.uk

Battery Tech Expo UK

18th April 2024

www.batterytechexpo.co.uk

www.batterytechexpo.events