



#### 29th & 30th June 2022 NEC, Birmingham, UK

## **SHOW GUIDE** The UK's Advanced **Technology & Innovation Show**

**INSIDE:** Show App, Floorplan & Exhibitor List, Conference Agenda, Show Features, Visitor Information and More!

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TE YOUR

Welcome to The Advanced Materials Show and Ceramics UK. After three years of waiting, it is wonderful to be able to reunite these industries once again in person!

> It feels like a lifetime ago that we launched these shows in 2019 and it is testament to the strength of the advanced materials and ceramics industries that these events have taken a leap forward in terms of scale since we were last able to come together.

> These combined events will showcase the entire supply chain involved in the research, development and manufacture of advanced materials technologies. The show also features a two-track conference and special events including the Graphene Round Table sessions and exclusive networking receptions.

> Be sure to venture into our two co-located events Battery Cells & Systems Expo and Vehicle Electrification Expo which feature a two-track conference and a dynamic exhibition hall featuring the supply chains for the battery and electric vehicle sectors.

> I would like to thank our wonderful exhibitors, sponsors, speakers and visitors for enabling us to create a true celebration of these innovative, rapidly growing industries.

> I hope you enjoy your time at the show and find these two days productive.



Steve Bryan Managing Director Event Partners Brought to you by:



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# Download the **Event App**





#### What's inside?

- Floorplan
- Exhibitor List
- Full Conference Agenda
- Interactive Conference Tools
- Networking Opportunities
- Attendee List





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### **SOCIAL** MEDIA

The hashtags for the show are #AMS22 #CUK22. Please tag us on social and use the show's # to ensure we see the post and retweet/share.

#### 🕑 Twitter

@MaterialsShow @Ceramics\_UK

#### in Linkedin

The Advanced Materials Show Ceramics UK

#### Facebook

The Advanced Materials Show

YouTube

The Advanced Materials Show





HALL 18 Entrance







#### Advanced Materials Show • Ceramics UK •

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#### Download our app to connect with exhibitors and get the detailed listings

- Networking
- Conference
- Exhibition
- Q&A
- Favourites
- Schedule Meetings



#### Battery Cells & Systems Expo • Vehicle Electrification Expo •

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## CONFERENCE OVERVIEW





The Advanced Materials Show and Ceramics UK conferences' blended programme features two tracks tackling the challenges and opportunities in materials innovation and materials industrialisation respectively. This includes sessions on composites, coatings, lightweighting materials, sustainability and additive manufacturing - with applications and case studies featured in aerospace, automotive, construction and semiconductors amongst others.

The co-located and concurrent Battery Cells & Systems Expo and Vehicle Electrification Expo conference has one theatre dedicated to battery development, with discussions on everything from cell chemistry and pack design to fast charging, recycling and second life. The second theatre is set to tackle broader electrification and manufacturing strategy such as sustainability, supply chain and skills. Alongside this, the theatre will feature bus/truck electrification and powertrain-focused design and development sessions and include electric motors, powertrain design and power electronics

All our theatres will provide ample opportunity for interactive panel discussions, Q&A sessions and on stage interviews to allow everyone to have their questions and ideas voiced and answered with peers. Attendees can expect to enjoy a lively and constructive set of discussions at a time when these sectors are booming and look set to grow exponentially in the coming years.



Olivia Ryan-Hill Conference Director Event Partners



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Therser UK will be taking part in the advanced materials show at the NEC in Birmingham, England from June 28th-30th Therser's stand will be located towards the entrance of the hall and is number 17-112, this is where the team will be showcasing our thoughts and involvement in the battery materials market.





Therser (UK) Ltd. Walley Street. Bunlem. Stoke-on-Trent. Staffordshire ST6 2AH England Telephone +44 (0) 1782 813 227 E-molt soles@thersen.k.com web: www.lhersen.k.com



#### DAY 1 - WEDNESDAY 29TH JUNE - MORNING

9.30am - 10.45am

Theatre A ) ( Track 1

### Keynote: Placing Sustainability at the Heart of Advanced Materials Fabrication and Application

Frazer Barnes, Chairman and CTO, Gen 2 Carbon Ltd (Chair) Annalisa Gigante, Board Member, Henry Royce Institute Dr. Geoff Mackey, Sustainability and Corporate Affairs Director, BASF Dr. Bruce Adderley, Challenge Director Transforming Foundation Industries, Innovate UK, part of UKRI





#### Keynote: How Have the Past Two Years Impacted the Direction of Innovation?

James Baker, CEO, Graphene @ Manchester (Chair) Dr. Laura Baker, Head of Product Development, Tata Steel Dr. Steven Harris, Director of Partnerships, BAE Systems Tony Kinsella, CEO, Lucideon Landon Mertz, CEO, Cerion Nanomaterials

#### DAY 1 - WEDNESDAY 29TH JUNE - AFTERNOON

13.45pm - 15.00pm



#### The Role of Advanced Materials Innovation in Mitigating Carbon Emissions

Dr. Ania Jolly, Head of Research and Business Engagement, Henry Royce Institute (Chair) Michelle Lynch, Director, Enabled Future Dr. Hydra Rodrigues, Technology Analyst, IDTech EX Dr. Jack Turner, Senior Technical Scientist, Promethean Particles



#### DAY 1 - WEDNESDAY 29TH JUNE - AFTERNOON

13.45pm - 15.00pm

)0pm 🦳 🤇 Theatre B

) ( Track 2

#### Improving Agility in Materials Manufacturing Process Innovation

Dr. Craig Dawson, Graphene Application Development Manager, Graphene Engineering Innovation Centre (Chair)

Dr. David Pearmain, Business Manager - Flash Sintering, Lucideon

**Dr. Jibran Khaliq**, Programme Leader and Senior Lecturer in Mechanical and Automotive Engineering, Department of Mechanical & Construction Engineering, **Northumbria University Daniel Steitz**, Founder and CIO, **NovoMOF** 

Prof. David Nowell, Professor of Machine Dynamics and Director, Rolls-Royce University Technology Centre, Imperial College London / Fellow, IMechE / Fellow, The Institute for Materials, Minerals and Mining

15.15pm - 16.30pm



#### **Developing Durable Non-Toxic Coatings for Corrosive Environments**

**Prof. Allan Matthews,** Director of the Digitalised Surfaces Manufacturing Network, **The University of Manchester** (*Chair*)

**Prof. Stuart Lyon,** AkzoNobel Professor of Corrosion Control, **The University of Manchester Michelle Buckland,** Group Commercial Director, **Teknos** 

15.15pm - 16.30pm

Theatre B Track 2

#### Harnessing the Power of Additive Manufacturing in Advanced Materials

Sona Dadhania, Technology Analyst, IDTechEx (Chair) Dror Danai, Chief Business Officer, XJet Martin Mann, Head of Sales, Lithoz Arnaud Roux, Business Development Manager, 3DCeram Sherry Ghanizadehm, Ceramic Additive Manufacturing Technology Lead, The Manufacturing Technology Centre - MTC Dr. Glenn Lamming, Research Scientist, UK-CPI

#### DAY 2 - THURSDAY 30TH JUNE - MORNING

9.30am - 10.45am

Theatre A

#### Transportation Lightweighting for Planet and Profit

Dr. Klaudio Bari, Principal Lecturer in Mechanical and Material Engineering, University of Wolverhampton (Chair)

Clare Sibley, Head of Quality & Manufacturing Engineering, Williams Racing Alan Banks, UK Lightweight Innovations Manager, Ford

John Phipps, Business Development Manager, Advanced Materials Division, North Europe, 3M

Track 1

9.30am - 10.45am

Theatre B Track 2

#### Making Materials Manufacturing Sustainable

Dr. Andrew McDermott, Technical Director, British Ceramic Confederation (Chair) Dr. Thomas Werninghaus, Senior Business Development Manager, Kyocera Rob Munro, Industrial Associate - Institute for Manufacturing, University of Cambridge Dr. Ben Walsh, Deputy Challenge Director, Transforming Foundation Industries, Innovate UK, part of UKRI

Dr. Beenish Siddique, Founder and CEO, AEH Innovative Hydrogel

11.15am - 12.30pm

Theatre A Track 1

#### Sustainability and the Semiconductor Dimension - Breaking the 'Smaller, Faster, Cheaper' Innovation Mantra

Prof. Mo Missous, Professor of Semiconductor Materials and Devices, Manchester University (Chair) Andy Sellars, Strategic Development Director, CSA Catapult Caroline O'Brien, CEO, Kubos Semiconductors Dr. Hugh Glass, Technology Owner, Paragraf

Dr. Anwesha Fernandes, Senior Materials Engineer, Dynex Semiconductor Ltd

11.15am - 12.30pm Theatre **B** Track 2 The Growing Role of Digital Tools in New Materials Development and Commercialisation Dr. Sean Kelly, Senior Project Manager, Nanotechnology Industries Association (Chair) Dr. Joel Strickland, Materials Research Scientist, Intellegens Jason Teng, Partner, UK and Europe - Patent Attorney, Potter Clarkson LLP Andv White, Business Development Manager, UK-CPI

Alexander Reip, Chief Technical Officer, Oxford NanoSystems

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#### DAY 2 - THURSDAY 30TH JUNE - AFTERNOON

13.45pm - 14.45pm (Theatre A)

tre A (Track 1

#### Enabling Durable Urban Development with Smarter Materials

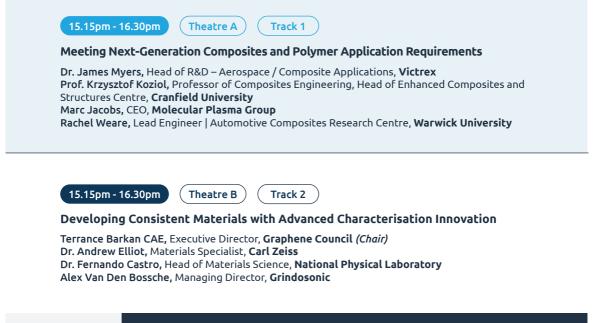
Adrian Nixon, Director and Editor, Nixene Publishing and Nixene Journal (Chair) Vighnesh Daas, Director - Innovation and Sustainable Construction, JP Concrete James Baker, Chief Executive Officer, Graphene@Manchester Alexandre de Toledo Corrêa, General Manager, Gerdau Graphene Aled Roberts, CEO, Deakin Bio-hybrid Materials

13.45pm - 14.45pm



#### Building Better Investment, Innovation and Skills Partnerships

Dr. Andy Wynn, CEO, TTIP Global (Chair) Dr. Nessima Kaabeche, Coach for Women, STEM Sarah Chapman, Chair, 3M EMEA Technical Women's Leadership Forum, 3M Rachel Timmins, Policy Manager, British Ceramics Confederation Dr. Sarah Connolly, Innovation Technologist - Transforming Foundation Industries, Innovate UK



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#### SPECIAL FEATURES - WHAT'S ON?

DAY 1 - Wednesday 29th June 2022

ROUND TABLES Location: Stand 18-406 Sessions: 3.00pm – 4.30pm Join these sessions to understand the latest in graphene development, the impact it is making across multiple sectors, its sustainability considerations, and learn how to design, implement, scale up and apply graphene.

Table 1: What are the Material Barriers and Enablers to Reaching Net Zero Targets? Host: Ivan Buckley, Business Development Director, University of Manchester

 Table 2: How to Decide on the Best Graphene Material for your Specific Application

 Host: Manju Gunawardana, CEO, Ceylon Graphene Technologies

 Table 3: Understanding the Environmental Impact of Graphene Related Materials

 Host: Ranjith Divigalpitiya, Chief Scientific Officer, HydroGraph Clean Power

 Table 4: The Stigma of Graphene: Discussing the Barriers to Entry and Path to Adoption

 Host: Kevin Keith, CTO, MITO Material Solutions

Table 5: The Industrial Graphene Supply Chain: Applications at Scale Host: Terrance Barkan, Executive Director, The Graphene Council

Sessions will be followed by a dedicated networking drinks reception. This is an exclusive opportunity to get to grips with the current and future graphene landscape.

DAY 2 - Thursday 30th June 2022



#### INTELLECTUAL PROPERTY SEMINAR

#### Location: Stand 18-406

Join Withers & Rogers on Thursday 30th June 12.00pm – 1.00pm

Expect an overview of the ways in which you can leverage commercial benefit from your innovations, including how to identify the intellectual property (IP) you have in your business, how to protect your IP assets, and how to use it to further your business goals. For example, looking at the tax benefits available, strategic use of IP to protect and improve your market position, and what to do with IP that is not core to your business.

#### Host: Gemma McGeough MSci, CPA, EPA, Patent Attorney, Withers & Rogers





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## Join us at the world-class conference and exhibition this October in Pittsburgh

#### **October 11 – 12, 2022**

David L. Lawrence Convention Center, Pittsburgh, USA

#### **Conference Highlights:**

- Transforming Energy Storage with Innovative Materials
- Disruptive Nanoscale Device and Sensor Applications
- Advances in Protective Coatings for Industrial Applications

• Overcoming the Challenges of Manufacturing and Integration at Increased Volumes And many more!

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#### **REGISTER FOR FREE**

## What does it take to successfully scale up a nanomaterial?

**INDUSTRY INSIGHT** 



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Incredibly exciting nanomaterials are being developed by the brightest minds on the planet. These materials promise unprecedented new properties, lower costs and improved performance for almost every product and industry you can think of - with the potential to cement the foundations of a more sustainable, resource-efficient society, if handled correctly.

However, there are many challenges that need to be overcome for these novel nanomaterials to be used to their best potential. Not least of these is an issue of reputation and communication. Several pioneering companies that invested in the first generation of nanomaterials experienced product failures, making them less likely to reinvest without seeing them succeed at scale elsewhere something of a chicken and egg scenario. Moreover, as is often the case, if a nanomaterial is designed in a lab with no end-use or application in mind from the very start, then they can find themselves in the unenviable position of providing a solution to a problem that doesn't exist.

Even when these market-led barriers are overcome, there are several technical challenges in scaling a nanomaterial that remain. These include integration, product line expansion, testing and process scale-up. Each of these stages requires careful thought at every level to achieve commercial product integration at an economically feasible level. When working with such complex materials at such a minute scale, technical success is not guaranteed, but it is possible, and several companies have demonstrated this.

To counter these challenges, renewed focus on customer needs together with careful communication and collaboration would enable improved design and innovation ecosystems that serve genuine needs in the market and a strong value proposition.

Our nanotechnology insight: 'What Does it Take to Successfully Scale up a Nanomaterial' is an introductory guide into the challenges and opportunities in this exciting industry, providing insight into avoiding the 'Valley of Death' in product scale-up. In discussion of everything from initial design and development, to commercial application, we spoke to sector leaders around the world to hear their thoughts on how the industry can improve the success rate of these potentially transformative materials.

#### To read the full report, sign up to receive our newsletter at: www.advancedmaterialsshow.com





#### WHO WE ARE ..

Composites UK is the trade association for the UK composites supply chain

Our membership spans manufacturers, material and equipment suppliers, designers, consultants, engineers, academics, service providers and OEMs/Tier 1s.

You can find out more about us at: www.compositesuk.co.uk

### WHAT OUR MEMBERS SAY ...

**On our COVID-19 support:** "The webinar, information etc has been very useful. I found government guidance and all the other hundred sources did not involve enough in the detail. The information from Composites UK was comprehensive, practical and it gave a good understanding of legal concerns which gave me additional confidence in executing our plans for a return to working socially distanced."

#### **Rowan Carstensen, Prodrive**

"Composites UK provides both a support network and marketing platform for its members. It facilitates connections, educates and campaigns, and encourages collaborative partnerships. It is a key enabler for growth for businesses large and small. Its work will be even more vital as the UK economy seeks to bounce back from the effects of the pandemic."

Samantha Bunyan, Cecence





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## **JOIN US IN 2023**

## The UK's Advanced Technology & Innovation Show

SAVE THE DATE 28th – 29th June 2023 NEC, Birmingham, UK

Four shows combine to showcase the very latest advanced technologies and innovations within battery technology, electric vehicles, advanced materials and technical ceramics.







## ELECTRIFICATION

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## Find out more about speaking, exhibiting and sponsoring at stand 17-206.

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Our online media covers a lot more information on a daily basis. Stay informed about the latest news on the Additive Manufacturing industry.



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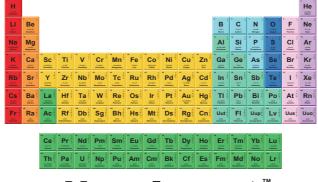
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## Join Us for the Drinks Reception on Stand 18-510

**Day 1 Wednesday 29th June** 4.30pm - 5.30pm

#### Sponsored by:



Ceylon Graphene Technologies









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#### VISITOR INFORMATION

#### **OPENING TIMES**

#### Wednesday 29th June

- Exhibition: 9.00am 5.30pm
- Conference: 9.30am 4.30pm
- Drinks Reception: 4.30pm 5.30pm
- Locations: Stands 18-510 & 17-302

#### Thursday 30th June

- Exhibition: 9.00am 4.30pm
- Conference: 9.30am 4.30pm

#### WIFI

Network: \_NEC FREE WI-FI (No passcode required) Suitable for light browsing only

#### **CLOAKROOM**

Cloakroom facilities are available at the Hall 18 entrance:

• Items are charged at £1 each

• Open 30 minutes before the exhibit halls and remain open up to an hour after show close

#### TOILETS

- In the Atrium at the exhibit hall entrances
- At the rear of the exhibit halls

#### CATERING

Hall 17: The Edge Restaurant is open from 9.00am
 Hall 18: MADE Café is open from 9.00am
 Catering outlets are also located in the NEC's public spaces - Card/contactless payments required

#### **SOCIAL** MEDIA

The hashtags for the show are #AMS22 #CUK22. Please tag us on social and use the show's # to ensure we see the post and retweet/share.

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