



# Sustainable EV Design

with plastics and composites

GLOBAL VIRTUAL EVENT

20 – 21 SEPTEMBER, 2021 · BST TIMEZONE

Integrating High-Performance, Lightweight Plastic and Composite Materials to Extend Range and Reduce Fuel Consumption towards Net Zero

20+ EXECUTIVE PANEL INCLUDING:



Join the entire plastics and composites supply chain to **create practical collaborative design solutions** integrating different lightweight materials over two action-packed event days



**Innovate new vehicle design and components** with first-hand access to the latest technical innovations in sustainable and lightweight EV materials



Know how to **design vehicles and component parts for sustainability and recycling** by joining our cross-supply chain panel discussions and break out groups



Uncover **the latest fire retardancy solutions** to overcome new fire safety challenges arising in the EV environment and prepare your vehicle and components for homologation



**Gain OEM specifications**, needs and requirements from our OEM panel and arrange 1-2-1 networking meetings with OEMs and Tier 1s



Unpack the challenges around **EV battery recycling** and brainstorm solutions with the experts



**Predict the future of the electric vehicle**, uncover the latest research trends and determine the role that hydrogen fuel cells will play during our future-focused panel debate



**Alan Banks**  
UK Lightweight Innovation Manager,  
Ford Motor Company  
Chair, UK Auto Council Lightweighting Group  
Chair, Composites Leadership Forum



**Sandra McClelland**  
Sales Development Manager – Automotive,  
Solvay  
Automotive Team Chair Emeritus,  
American Chemistry Council Plastics Division



**Dr. Evert Smit**  
Director Scouting, Lohmann GmbH & Co. KG  
President, The European Adhesive Tape  
Network, AFERA

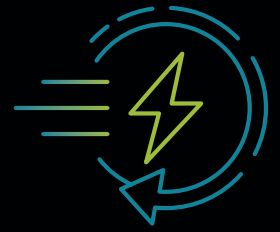


**Paul Gallen**  
Sales Director,  
Automotive Composites Business,  
HANKUK COMPOSITES UK



**Julian Haspel**  
e-Powertrain Group,  
LANXESS Deutschland GmbH

FULL SPEAKER LINE-UP ON PAGE 4-5



## Sustainable EV Design

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Integrating High-Performance,  
Lightweight Plastic and  
Composite Materials to  
Extend Range and Reduce Fuel  
Consumption towards Net Zero

VIRTUAL EVENT

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# WHY ATTEND

Governments everywhere are looking to the electric vehicle (EV) as a means to rapidly reduce carbon emissions, clean up our cities and tackle climate change. But while banning the manufacture of petrol or diesel cars, as the UK hopes to do in 2030, seems like a simple move, transitioning to electric vehicles is complex. It will require the UK's automotive industry to undergo a rapid gear change as it works hard to innovate the required new technologies and materials that can increase the number of EVs on the roads and uptake by consumers.

With the Biden administration in the USA proposing \$100 billion USD of investment into EV rebates and China already leading the way with incentivisation - being responsible for over 50% of Electric vehicle production in 2019 - the automotive supply chain in the EU and around the world is on standby for sudden regulatory change that could impact its manufacturing processes.

**Be one step ahead by attending Sustainable EV Design, September 20 -21, 2021 online, to be able to innovate new lightweight material solutions for your vehicles and components.**

Whether you are a scientist or professional working within research or market development across **plastics and composites automotive supply chain** or an engineer at an **OEM, Tier 1 supplier or EV start up, Sustainable EV Design** is a unique opportunity to collaborate to solve the **integral material and design challenges** that arise with a transition to electric automotive power.

Book your place today to get access to the **latest global innovations** by meeting with suppliers of cost-effective sustainable lightweight design and discovering how to implement these in your vehicle and component production to **gain competitive advantage and stimulate customer demand.**

The Biden US Government Administration proposes **\$100bn of investment into rebates** for customers purchasing new EVs

Source: cnet.com

The UK Government has invested **£2.8 billion** GBP of **direct funding into EV innovation**

Source: publishing.service.gov.uk

## THIS EVENT IS IDEAL TO ATTEND AS A TEAM.

Your sustainability, product and marketing directors will benefit from strategic sessions, where our expert facilitators will tackle critical commercial challenges. In the meantime, your technical and R&D directors can join the technical workstream where they'll get a first look at the latest scientific material innovations.



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### WHO'S IN THE ROOM?

#### OEMS AND TIER 1S

Engineers, R&D, Technical, Quality, Purchasing, Head of EV and Hybrid, Sustainability, PR and Marketing, Battery, Powertrain and Chassis Manufacturers.

#### TIERS 2 TO 4

Engineers, R&D, Technical, Purchasing, Sustainability, Sales and Marketing, Adhesive, Tape and Sealant; Cable Manufacturers and Technology/Multimedia Partners.

#### COMPOSITES MANUFACTURERS

Engineers, R&D, Technical, Sales and Marketing

#### POLYMER AND ADDITIVE PRODUCERS

R&D, Technical, Sales, Marketing, Business and Market Development

#### UNIVERSITIES AND RESEARCH INSTITUTES

Researchers and Academics

### ADVISORY BOARD / STEERING COMMITTEE

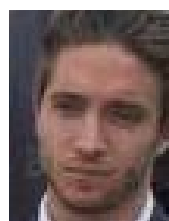
Thank you to the following people for their in valuable contribution to the research for this conference programme.



**Ozak Durmuş**  
Sustainability Senior Engineer  
**Ford Otosan**, Turkey



**Silvia Boschetto**  
Director/ Founder  
**Silvakey**, UK



**Fergal Harrington-Beatty**  
Head of Automotive & Aerospace  
**AMTE Power**, UK



**Amanda Zani**  
Innovation & Technology Manager  
**Braskem**, Brazil



**Dr. Evert Smit**  
Director Scouting, **Lohmann GmbH & Co. KG**, Germany and President, The European Adhesive Tape Network, **AFERA**, The Netherlands

**pinfa** PINFA

### POSTER SESSION: TOWARDS CARBON NET ZERO!

The poster session at **Sustainable EV Design - with plastics and composites** gives you direct access to cutting edge research and development.

We invite abstracts showcasing relevant research, development and innovation in plastics and composites; renewable materials and other lightweight materials and engineering design solutions that will have a positive impact on fuel consumption; range anxiety; climate change or the safety of electric vehicles.

Selected abstracts will be invited for presentation at the event as a **5-minute online presentation**.

Application deadline: **July 31 2021**

APPLY NOW



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# OUR INDUSTRY-LEADING SPEAKERS



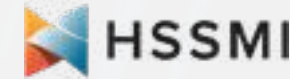
**Özak Durmuş**  
Senior Sustainability Engineer  
**Ford Otosan**



**Ludovic Tonnerre**  
Vice President, Global Engineering Plastics  
**DOMO Chemicals**



**Robin Foster**  
Batteries Solution Lead  
**HSSMI**



**Professor Ton Peijs**  
Professor of Polymer Engineering  
**University of Warwick**



**Nathan Williams**  
Founder and CEO  
**Minespider**



**Sam Haig**  
Battery Recycling Business Manager  
**RS Bruce Metals and Machinery**



**Dr. Evert Smit**  
Director Scouting, **Lohmann GmbH & Co. KG**, and President, The European Adhesive Tape Network, **AFERA**



**Marc Leifer**  
Technical Marketing Support Manager  
**ICL Group**



**Nick Weatherby**  
Technical Director  
**Haydale**



**Alan Banks**  
UK Lightweight Innovation Manager, **Ford Motor Company** and Chair of **UK Auto Council Lightweighting Group** and Chair of the **Composites Leadership Forum**



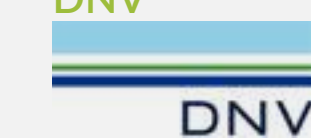
**Paul Gallen**  
Sales Director, Automotive Composites Business  
**HANKUK COMPOSITES UK**



**Matthew Lumsden**  
CEO  
**Connected Energy Ltd**



**Jeremy Parkes**  
Global Business Lead - Electric Vehicles  
**DNV**



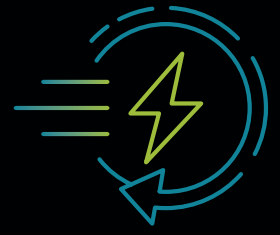
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# OUR INDUSTRY-LEADING SPEAKERS



**Amanda Zani**  
Innovation & Technology Manger  
**Braskem**



**Anthony Schiavo**  
Research Director  
**Lux Research Inc**



**Karan Bhalla**  
Market Development Manager  
**Audia Plastics**



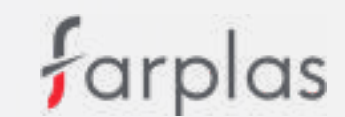
**Sandra McClelland**  
Sales Development Manager – Automotive,  
**Solvay** and **American Chemistry Council Plastics Division's Automotive Team Chair Emeritus**



**Anders Gulliksson**  
R&D Manager  
**DAFO Vehicle Fire Protection**



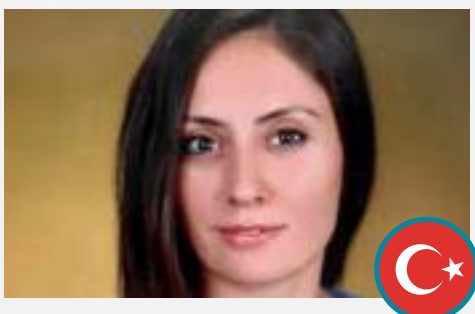
**Dr. Yavuz Emre Yagci**, Research and Development Manager  
**Farplas**



**Ranabir Pal**  
Senior Manager - Polymer Section  
**TUV Rheinland**



**Mohammad Azizur Rahman**  
Senior Energy, Water and Environment Specialist  
**Technovative Solutions Ltd**



**Tuğba Okay**  
Senior Technical Specialist  
**Tofaş Türk Otomobil Fabrikası A.Ş**



**Dr. Klaus Vonberg**  
Project & Business Development Manager  
Tepex Automotive  
**LANXESS Deutschland GmbH**



**Armağan Gül**  
Innovation Developer  
**Oyak Renault**



**Dr. Burcu Saner Okan**  
Co-Founder of **Nanografen**  
Faculty Member  
**Sabancı University Integrated Manufacturing Technologies**



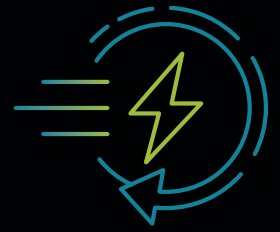
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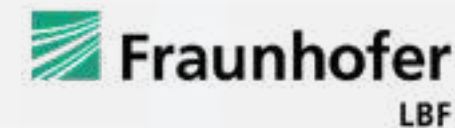
# OUR INDUSTRY-LEADING SPEAKERS



**Dr. Sebastian Hoerold**  
Head of Technical Services and Market Manager, Flame Retardants **Clariant Plastics & Coatings (Deutschland) GmbH**



**Prof. Dr. Rudolf Pfaendner**  
Division Director Plastics **Fraunhofer LBF**



**Dr. Reiner Sauerwein**  
Head of Division R&D/ Technical Service **Nabaltec AG**



**Dr. Laurent Tribut**  
Distinguished Technical Expert, Plastic Materials **Schneider Electric**



**Antonio Nerone**  
EE Market Expert **Radici High Performance Polymers**



**Prof. Andrew Slark**  
EPSRC Manufacturing Fellow **University of Sheffield**



**John Waters,**  
Global Automotive Leader, Energy Systems and Structures **SABIC**



**Ann Dierckx**  
Director of Sustainability **Cefic, European Chemical Industry Council**





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DAY ONE

20 SEPTEMBER · 1:00PM – 6:00PM GMT · 8:00AM – 1:00PM EDT · 5:00AM – 10:00AM PDT

1.00pm

Platform and 1-2-1 Networking Opens

1.50pm

Welcome and introduction to the event platform

### DRIVING A SUSTAINABLE AUTOMOTIVE INDUSTRY

2.00pm

**KEYNOTE PRESENTATION AND BREAK-OUT DISCUSSION: Demonstrating the Urgency of Sustainable EV Design from the Perspective of the Regulators, the Automotive Industry, Drivers and the Planet**

- Encouraging acceptance of electric vehicles by consumers; tackling range anxiety
- How will new regulations and consumer demand impact on plastics supply?
- Proving the positive impact of recycling plastic materials on climate change
- Demonstrating the cost-benefit for fuel consumption of using lightweight materials

**Anthony Schiavo**, Research Director, **Lux Research Inc**, USA

Following Anthony's presentation participants will be split into groups to discuss critical questions related to sustainability in automotive and material and supply chain impacts.

2.30pm

Comfort Break

2.45pm

**PANEL AND BREAK OUT DISCUSSION: Bringing the Automotive, Plastics and Composites Industry Together to Drive Sustainable Vehicle Production**

- Driving up demand for sustainable plastics across the sector
- Diffusing innovation and co-creating integrated sustainability and lightweight solutions across vehicle components
- Ensuring composite materials can be broken down into component parts
- Encouraging technology exchange and collaboration between technology and plastics suppliers

Panellists including:

**Alan Banks**, UK Lightweight Innovation Manager, **Ford** and Chair of UK Auto Council Lightweighting Group and Chair of the **Composites Leadership Forum**, UK

**Amanda Zani**, Innovation and Technology Manager, **Braskem**, Brazil

**Sandra McClelland**, Sales Development Manager – Automotive, **Solvay** and **American Chemistry Council Plastics Division's Automotive Team Chair Emeritus**, USA

Following the panel discussion, participants will be split into cross-supply chain groups to discuss practical solutions to bring about industry collaboration towards sustainable EV design.

3.30pm

**EXPERTISE PARTNER KEYNOTE: Partnering with Customers to Deliver Leading Chemical Innovations and Propel the Automotive Industry into the Future**

The automotive sector is going through profound changes, traveling at high speed into a new and exciting future. As a leading engineering materials company and highly integrated solution provider DOMO is fully committed to support car manufacturers determined to lead the race. Attend this session to find out about:

- Leading innovations in recycled high-performance polyamides; metal replacement solutions supporting light weighting; high voltage materials and hydrogen tank dedicated solutions, with blow moulding special grades.
- DOMO as a development partner: TECHNLYL Hub - a full set of in-house design simulation, prototyping and application testing capability
- The Circularise Plastic initiative: how DOMO is revolutionizing plastic value chains and contributing meaningfully to the transition to circular economy practices

**Ludovic Tonnerre**, Vice President, Global Engineering Plastics, **DOMO Chemicals**, France

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DAY ONE

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3.50pm

### **GOLD PARTNER KEYNOTE:** Advancing Sustainable Transportation with Thermoplastics

Transportation is a major source of greenhouse gas emissions and air pollution. From energy generation to storage and use, electric vehicles (EVs) can economically reduce toxic emissions and move us all toward cleaner and healthier environments, where we live, work, and play. SABIC, a world leading diversified chemical company, has made a commitment to support this global shift toward efficient electricity generation, storage, and use. In this session, SABIC shares its specific efforts to work with and support the automotive industry in optimizing, among other EV components, the “heart” of these vehicles: the battery pack. Featured in the presentation is an overview of multiple performance-improvement opportunities empowered by SABIC’s thermoplastics. They include improved safety, increased structure, and weight reduction. Furthermore, the design freedom that thermoplastics bring to complex electromechanical systems can open up new opportunities for functional integration, improved thermal management, increased energy density, and, importantly, reduced environmental impact.

**John Waters**, Global Automotive Leader, Energy Systems and Structures, **SABIC**, USA

4.10pm

### Virtual Networking Roulette

Start essential conversations with target/ suppliers customers to take the necessary steps to put sustainable and innovative material and additive solutions into practice.

### SUPPORTING OEMS AND TIER 1 CAR MANUFACTURERS

4.35pm

### **PANEL DISCUSSION:** Discussing What OEMs Need from Their Plastics and Additives Supplier to Sell Sustainable, High Performance EVs at the Right Price-Point

- Identifying the key priorities of electric vehicle manufacturers towards sustainability - where in the car can the quickest gains be made?
- Determining the essential properties of plastic for current and future electric vehicle designs
- Balancing performance, sustainability, competitive edge and cost effectively – can costs be passed on to the consumer?
- How can suppliers support OEMS with collaboration?

Panellists including:

**Ozak Durmus**, Senior Sustainability Engineer, **Ford Otosan**, Turkey

**Karan Bhalla**, Market Development Manager, **Audia Plastics**, Germany

**Tuğba Okay**, Senior Technical Specialist, **Tofaş Türk Otomobil Fabrikası A.Ş.**, Turkey

**Alan Banks**, UK Lightweight Innovation Manager, **Ford** and Chair of **UK Auto Council Lightweighting Group** and Chair of the **Composites Leadership Forum**, UK

### DESIGN FOR RECYCLABILITY

5.20pm

### **SELECTED POSTER PRESENTATION BY:** Ozak Durmus, Senior Sustainability Engineer, Ford Otosan, Turkey

### **PANEL DISCUSSION:** Placing Sustainability and Recyclability at the Forefront of EV Design

- What new technology allows components to be easily separated for recycling and how can this be factored in at the design stage?
- Incorporating battery component design into vehicle design for recyclability
- Focusing on quick wins with plastics and fabrics
- Overcoming difficulties with design for recycling in luxury cars

Panellists including:

**Nathan Williams**, Founder and CEO, **Minespider**, Germany

**Dr. Evert Smit**, Director Scouting, **Lohmann GmbH & Co. KG**, Germany and President, The European Adhesive Tape Network, **AFERA**, The Netherlands

**Mohammad Azizur Rahman**, Senior Energy, Water and Environment Specialist, **Technovative Solutions Ltd**, UK

**Dr. Yavuz Emre Yagci**, Research and Development Manager, **Farplas**, Turkey

6.00pm - 9.00pm

### Close of Day One and 1-2-1 Networking Meetings

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DAY TWO

21 SEPTEMBER · 1:00PM – 6:10PM BST · 8:00AM – 1:10PM EDT · 5:00AM – 10:10AM PDT

1.00pm

Platform and 1-2-1 Networking Opens

1.55pm

Welcome

### LIGHTWEIGHTING THE ELECTRIC VEHICLE TO REDUCE FUEL CONSUMPTION AND INCREASE BATTERY RANGE

2.00pm

#### KEYNOTE PRESENTATION AND Q&A: Lightweighting the Car of the Future Using Plastics

- Balancing weights across the car
- What is possible and what is not possible?
- Taking an integrated approach to the use of materials in electric vehicle design
- Technical case study examples of the role of plastics in lightweighting EVs

**Professor Ton Peijs**, Professor of Polymer Engineering, **University of Warwick**, UK

2.30pm

Comfort Break

### LIGHTWEIGHTING VEHICLES AND RECYCLING BATTERIES

2.45pm

#### PANEL DISCUSSION: Discovering Innovations in EV Batteries and Battery Plastic Recycling

- Identifying second life and re-use applications for EV batteries
- Integrating plastics and composites to lightweight the battery; utilising fast-charging, benefits of using plastic in battery housings
- Breaking down the plastic, metal and mineral components separately
- Utilising blockchain technology to trace materials; will EV passports work?

Panellists including:

**Robin Foster**, Batteries Solution Lead, **HSSMI**, UK

**Sam Haig**, Battery Recycling Business Manager, **RS Bruce Metals and Machinery**, UK

**Matthew Lumsden**, CEO, **Connected Energy Ltd**, UK

**Dr. Klaus Vonberg**, Project & Business Development Manager Tepex Automotive, **LANXESS DEUTSCHLAND GmbH**, Germany

3.35pm

#### PRESENTATION AND Q&A: Lightweight and Sustainable Design and Fabrication of Thermoplastic Parts Reinforced by Graphene from Waste Tyres

- Scalable and cost-effective graphene manufacturing from carbon black obtained from the pyrolysis process of waste tyres
- Delivering an easy compounding process using graphene nanoplatelets (GNP) from waste tyres as a multi-functional additive
- Achieving at least 10% weight reduction in thermoplastics part by decreasing main filler content and adding GNP at very low loadings
- Reducing the environmental impacts of waste materials

**Armağan Gül**, Innovation Developer, **Oyak Renault**, Turkey  
**Asso. Prof. Dr. Burcu Saner Okan**, Co-Founder, **Nanografen**, Faculty Member, **Sabancı University Integrated Manufacturing Technologies**, Turkey



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DAY TWO

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## ACHIEVING FIRE SAFETY

3.55pm

### GOLD PARTNER HOSTED PANEL DISCUSSION: Sustainable Flame Retardants for E-Mobility

- What role do flame retardants play in EV fire safety (and how does this compare with ICEs?)
- What does the Chemical Strategy for Sustainability mean for EVs and components and how will it impact the choice of applications of flame retardants use in EVs?
- How do flame retardants fit into the circular economy and EV recycling?
- How does the sustainability of flame retardants impact on OEMs?
- What does a perfect sustainable FR look like for an OEM or a compounder?

Moderator: **Dr. Reiner Sauerwein**, Head of Division R&D/ Technical Service, **Nabaltec AG**, Germany

**Dr. Sebastian Hoerold**, Head of Technical Services and Market Manager, Flame Retardants, **Clariant Plastics & Coatings (Deutschland) GmbH**, Germany

**Prof. Dr. Rudolf Pfaendner**, Division Director Plastics, **Fraunhofer LBF**, Germany

**Dr. Laurent Tribut**, Distinguished Technical Expert, Plastic Materials, **Schneider Electric**, France

**Antonio Nerone**, EE Market Expert, **Radici High Performance Polymers**, Italy

**Ann Dierckx**, Director Sustainability, **Cefic, European Chemical Industry Council**, Belgium

4.40pm

## Virtual Networking Roulette

### ACHIEVING CERTIFICATION, TESTING AND FIRE SAFETY

5.05pm

#### SELECTED POSTER PRESENTATION BY: Professor Andrew Slark, EPSRC Manufacturing Fellow, University of Sheffield

#### PANEL DISCUSSION: Meeting Fire Safety Requirements for Plastics in EVs and Achieving Homologation

- Adapting vehicle components to the high voltage environment of the electric car
- Innovating new fire safe plastics and additives that are sustainable
- Ensuring homologation; what do you need to prepare ahead of testing?
- Getting up to date with emerging international standards in EV fire safety

Panellists including:

**Marc Leifer**, Technical Marketing Support Manager, **ICL Group**, Israel

**Ranabir Pal**, Senior Manager Polymer Section, **TUV Rheinland**, India

**Anders Gulliksson**, R&D Manager, **DAFO Vehicle Fire Protection**, Sweden

**Antonio Nerone**, EE Market Expert, **Radici High Performance Polymers**, Italy

## WHAT IS THE FUTURE FOR PLASTICS IN EVs?

5.45pm

### PANEL DISCUSSION: New Directions in Energy for E-Mobility

- Predicting the future for hydrogen fuel cell cars and electric cars
- Planning electric grid and charging capacity – is it big enough to supply demand?
- What role will plastics play in the car of the future and ensuring its sustainability?
- Identifying plastics with properties that can support the use of bio-fuels in automotive

Panellists including:

**Paul Gallen**, Sales Director, Automotive Composites Business, **HANKUK COMPOSITE UK**, UK

**Jeremy Parkes**, Global Business Lead - Electric Vehicles, **DNV**, UK

**Nick Weatherby**, Technical Director, **Haydale**, UK

6.15pm

## Close of Conference

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## PARTNERING OPPORTUNITIES




**Based on your objectives, we can create bespoke packages designed specifically for you.** From presenting your expertise on the main stage to hosting an exclusive virtual networking drinks, you can partner with us to showcase your brand and make valuable new connections.

Opportunities predominantly lie in 3 main categories:






### THOUGHT LEADERSHIP

-  Keynote
-  Webinars
-  Industry/research reports
-  Workshop
-  Roundtable discussion
-  Panels & Chairing
-  Customer & Tech insight sessions

### NETWORKING

-  Virtual Drinks Reception
-  Boardroom Briefings
-  One-to-One Meetings

### BRANDING

-  White papers
-  Onsite visibility
-  Webinars and podcasts
-  Marketing exchange
-  Virtual Booth Area

GET IN TOUCH TO LEARN MORE  
ABOUT HOW YOU CAN GET INVOLVED  
Contact Daryl King to find out more  
daryl.king@kisacoresearch.com or +44 (0) 203 696 2920

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SAMPLE ATTENDEES





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# OUR PLATFORM: THE VIRTUAL EXPERIENCE

## TOP 10 BENEFITS OF DIGITAL

- 1 Tailor Your Agenda
- 2 More Audience Participation
- 3 Improved Audience Visibility
- 4 On-Demand Content
- 5 High Quality Speakers
- 6 More Networking Opportunities
- 7 Save Time & Money
- 8 Increased Content
- 9 More insights
- 10 Business Development Opportunities

TALK TO OUR TEAM  
TO FIND OUT MORE

## PREVIEW OUR PLATFORM

A virtual event may be a first for many, take a look at our content and networking platforms to see how easy it really is!



## PRICING

PASS TYPE	SUPER EARLY BIRD (Ends 30th July)	EARLY BIRD (Ends 20th August)	STANDARD
EV Start Up / Academic / Research Institutions / Regulators / NFP / Investors OEM	€ 399	€ 599	€ 799
Automotive Suppliers Under £35 Million Turnover	€ 499	€ 699	€ 899
Automotive Suppliers Over £35 Million Turnover	€ 899	€ 1099	€ 1299

## SEND A GROUP AND SAVE UP TO 15%

**This event is ideal to attend as a team.** Your sustainability, product and marketing directors will benefit from strategic sessions, where our expert facilitators will tackle critical commercial challenges. In the meantime, your technical and R&D directors can join the technical workstream where they'll get a first look at the latest scientific material innovations.

REGISTER HERE

Payment Terms: A €59 processing fee will apply to any invoices requested. All Prices are in EUR. Please note if your company is registered in the UK, VAT will be added to your order. All Early Bird discount prices, including Group Discounts, must be paid in full by deadlines provided above. Please view our Cancellation Policy.

QUESTIONS? Please email [events@kisacoresearch.com](mailto:events@kisacoresearch.com).