

nanomatexpo & conference Environment & Energy

Nanomaterials for Energy and Environmental Applications Online Conference

Venue:	ZOOM (online)
Date & Time:	7-8 May 2025 (09:00 – 17:00 UK Time)
Registration:	https://nanomatexpo.net/conference/

nanoMATexpo & conference

Opportunities provided by **use of nanomaterials** in addressing challenges of **increased energy consumption** and **pressure on the environment** will be addressed at this online event.

The aim of the event is to **bring together technology development leaders and industrial end-users** and present progress in the development in use of nanomaterials in a number of applications including, **energy, transport, environmental, circular economy, carbon capture and utilisation and sustainable packaging.**

We are assisting commercialisation of new technologies providing nanomaterials solutions by providing **unique networking environment** and facilitating **direct one to one collaboration and consortium building** for future government funded projects such as **HORIZON Europe.**

The conference is supported by our exclusive virtual exhibition platforms, where the community members can showcase their organisation, products and services on custom made dedicated virtual exhibition booths where access to their videos and publications is active all year around.

You could become part of our exclusive virtual community and increase your visibility and business growth opportunities by joining the key market players and vibrant industrial decision-makers and technology developers. In addition to participation to the event you can order a custom-made virtual exhibition booth or get advanced membership that includes virtual exhibition booth and free access to all our events.

www.nanoMATexpo.net

WHO SHOULD ATTEND?

- Scientists and Researchers developing new technologies
- Engineers integrating cutting-edge solutions
- CTOs, R&D Directors and Managers developing new technology strategies.
- Innovators looking for fresh ideas
- Marketing professionals looking to promote their innovative products
- Investors looking for technology investment opportunities
- Individuals interested in establishing connections to participate in Horizon Europe Projects.

WHY SHOULD ATTEND?







- Learn from the Experts: Receive valuable insights into latest technology developments
- Network with Peers: Connect with other scientist, engineers and innovators
- Develop Collaboration: Initiate new collaborations in grant funded projects
- Find Costumers: Present your innovative products and services to new costumers
- This event offers a chance to learn more about preparing for and participating in upcoming Horizon Europe Projects.

If you are interested in speaking or participating, please send us an email to: info@CNT-Ltd.co.uk You could get more information, including agenda from the NanoMATexpo website: www.nanoMATexpo.net/conference










Figure 1 Registered Participating Organisations

NanoMATexpo & conference- Preliminary Programme

Programme		
		Nanomaterials for Energy and Environmental Applications Online Conference 7-8 May 2025 Online
Type of Event		Online – book your place here
Date:		7-8 May 2025
Time:		09:00 – 17:00 (UK time)
7 MAY 2025 (09:00-16:30)		
09:00	Welcome & introduction to the conference and Online Exhibition Round table introduction of all participants	
10:00	Development of the Energy & Environment Innovation Ecosystem and Upcoming Horizon Europe calls  <i>Ana Bankovic Cassidy, Senior Innovation Manager, Cambridge Nanomaterials Technology Ltd., UK</i>	
10:30	Discussion about upcoming Horizon Europe Calls	
11:00	<i>Break</i>	
Graphene Workshop & EXPO		
11:10	Haydale - Graphene Heaters for energy saving applications  <i>David Cutler, Project Engineer, Haydale, UK</i>	

<p>11:40</p> 	<p>Graphene Innovations for advanced applications</p> <p><i>Beatriz Alonso Rodriguez, R&D Director, KIVORO, Spain</i></p>	
<p>12:10</p> 	<p>From lab to fab: advanced materials for disruptive industrial applications</p> <p><i>Elvira Villaro, CTO Chief Technology Officer, Avanzare, Spain</i></p>	
<p>12:40</p> 	<p>Hydrogen solutions for next generation vehicles and aircraft</p> <p><i>Krzysztof Koziol, Head of the Electric Carbon Nanomaterials Group, Cranfield University, UK</i></p>	
<p>13:10 <i>Open Graphene Panel Discussion:</i> <i>Moderator: Dr Bojan Boskovic – Panel: Speakers – Participants: All</i></p>		
<p>13:30 <i>Lunch break (visit to the virtual EXPOs)</i></p>		
<p>Materials Characterisation Workshop & EXPO</p>		
<p>14:30</p> 	<p>Sustainable materials and advanced characterization for the next generation batteries</p> <p><i>Luca Belforte, Technical Fellow for battery materials Centro Ricerche FIAT (CRF), Italy</i></p>	
<p>15:00</p> 	<p>Advanced Electrical Battery Characterization</p> <p><i>Ferry Kienberger; Keysight Technologies GmbH Austria</i></p>	

<p>15:30</p> 	<p>ESRF: Powering Materials Innovation in the Energy sector with Synchrotron Science</p> <p><i>Dr Marta Mirolo, Scientist, European Synchrotron (ESRF), France</i></p>	<p>MATCHAREXPO</p> 
<p>16:00</p>	<p><i>Open Materials Characterisation Panel Discussion:</i></p> <p><i>Moderator: Dr Bojan Boskovic – Panel: Speakers – Participants: All</i></p>	
<p>16:30</p> 	<p>KEYNOTE SPEAKER</p> <p>Nano Materials for Energy Storage-Focus on Carbon and Boron</p> <p><i>Sivaram Arepalli, Adjunct Professor in the Department of Materials Science and NanoEngineering, Rice University, Houston, USA</i></p>	
<p>17:00</p>	<p><i>Conclusions and Wrap up</i></p>	
<p>8 MAY 2025 (09:00-17:00)</p>		
<p>09:00</p>	<p>Welcome and 1 min. introduction of new participants</p>	<p>All</p>
<p>Wind Power Workshop & EXPO</p>		
<p>09:30</p> 	<p>General capabilities of AIMEN focusing on their core competence for composite manufacturing</p> <p><i>Alberto Fernández Vicente, Senior Innovation Manager, AIMEN Technology Center, Spain</i></p>	
<p>10:00</p> 	<p>Successful optimization and advanced manufacturing of modular prototype blades using commercial and developed materials within Carbo4Power project.</p> <p><i>Lourdes Blanco Salgado, CTO Chief Technology Officer, AIMEN Technology Center, Spain</i></p>	

<p>10:30</p> 	<p>Comparison of Carbo4Power Demonstrator FE Simulations with Tests</p> <p><i>Peter Greaves, Principal R&D Engineer - Blade Structures, Offshore Renewable Energy Catapult, UK</i></p>	<p>wIndPOWERexpo</p> 
<p>11:00</p>	<p><i>Open WindPower Panel Discussion:</i></p> <p><i>Moderator: Dr Bojan Boskovic – Panel: Speakers – Participants: All</i></p>	
<p>11:20</p>	<p><i>Break</i></p>	
<p>Circular Economy and Carbon Capture & Utilisation Workshop & EXPOs</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div data-bbox="231 772 582 840" style="border: 1px solid #ccc; padding: 5px;"> <p>CircularEconEXPO</p> </div> <div data-bbox="718 772 1029 840" style="border: 1px solid #ccc; padding: 5px;"> <p>CarbonCaptureexpo</p> </div> </div>		
<p>11:30</p> 	<p>LEICOAT. A novel system for automatic, safe, and sustainable application of nanoenabled coatings.</p> <p><i>Lorenzo Bautista, Group Leader of Surface Technologies, R&D Advanced Materials Division, Leitac, Spain</i></p>	<p>CircularEconEXPO</p> 
<p>12:00</p> 	<p>Challenges and opportunities for mixed matrix membranes in carbon capture applications</p> <p><i>Marcel Boerrigter, Scientific Referee - Functional Materials and Processing, Leitac Technological Center, Spain</i></p>	<p>CarbonCaptureexpo</p> 
<p>12:30</p>	<p><i>Open Circular Economy and Carbon Capture & Utilisation Panel Discussion:</i></p> <p><i>Moderator: Dr Bojan Boskovic – Panel: Speakers – Participants: All</i></p>	
<p>13:00</p>	<p><i>Lunch break</i></p>	
<p>Solar Power Workshop & EXPO</p>		

<p>14:00</p> 	<p>The importance of nanomaterials to fabricate powerful and stable silicon/perovskite solar cells</p> <p><i>Stéphane CROS, Senior Scientist, CEA-Liten, France</i></p>	
<p>14:30</p> 	<p>Advanced Perovskite Photovoltaics</p> <p><i>Luca Sorbello, Director-Chairman, Halocell Europe, Italy</i></p> <p><i>Enrico Leonardi, Technical & Equipment Manager, Halocell Europe, Italy</i></p>	
<p>15:00</p> 	<p>Driving Innovation: LEITAT's Expertise Across the Energy sector, Strategic Partnerships, and Business Models.</p> <p><i>Immaculada Miracle Montserrat, Snr. Business Development Manager – Solar Energy, Leitat, Spain</i></p>	
<p>15:30</p> 	<p>The role of Bio-electrochemical Technologies in the energy transition.</p> <p><i>Eduard Borràs, Area Manager, Leitat Technological Center, Spain</i></p>	
<p>16:00</p>	<p><i>Open SolarPower Panel Discussion:</i></p> <p><i>Moderator: Dr Bojan Boskovic – Panel: Speakers – Participants: All</i></p>	
<p>16:30</p>	<p><i>Conclusions and Wrap up</i></p>	
<p>17:00</p>	<p><i>End of Day Two</i></p>	

NanoMATexpo & conference – Speakers



Dr Bojan Boskovic (Organiser)
 CEO,
Cambridge Nanomaterials Technology
 14 Orchard Way
 Lower Cambourne
 Cambridge CB23 5BN - UK

Dr Bojan Boskovic is the Founder, Managing Director, and Principal Consultant of the company. He has more than 20 years of hands-on experience with carbon nanomaterials and composites from industry and academia in the UK and Europe. Previously, he worked as a R&D Manager at Nanocyl, one of leading carbon nanotube manufacturing companies in Europe. He also worked on carbon nanotube synthesis and applications as a Principal Engineer-Carbon Scientist at Meggitt Aircraft Braking Systems, as a Research Associate at the University of Cambridge, and as a Senior Specialist at Morgan Advanced Materials. During his PhD studies at the University of Surrey he invented low temperature synthesis method for production of carbon nanomaterials that has been used as a foundation patent for the start-up company Surrey Nanosystems. He was a member of the Steering and Review Group for the Mini-IGT in Nanotechnology that advised the UK Government on the first nanotechnology strategy policy document. Dr Boskovic was working as an advisor for the European Commission (EC) on Engineering and Upscaling Clustering and on setting up of the European Pilot Production Network (EPPN) and European Materials Characterisation Cluster (EMCC). He has experience in exploitation and dissemination management on a number of FP7 and H2020 European projects, including UltraWire, NanoLeap, OYSTER, M3DLoC, Genesis and nTRACK. Also in UK Government InnovateUK funded projects, such as UltraMAT and GRAPHOSITE He is also a leader of two private membership based consortiums: Nano-Carbon Enhanced Materials (NCEM) and Advanced Materials for Additive Manufacturing (AMAM).



Dr Stéphane CROS (Invited Speaker)
Senior Scientist
CEA-Liten
France

Dr Stéphane CROS has a Ph.D. in physico-chemistry in 2002 from the University Paris VI, working nanocomposite organic/inorganic materials. After a first experience in the field of polymer processing, he joined the CEA in 2004 to develop the thematic of encapsulation, gas barrier measurements and barrier materials in the Organic PV team. Since 2005, he is working in the Department of Technological Research within the French National Institute for Solar Energy (CEA/INES) He is now in charge of the stability issues regarding Perovskite based PV technologies (single junction and tandem with silicon).



Luca Belforte (Invited Speaker)
STELLANTIS Materials Engineering
Centro Ricerche FIAT (CRF)
Strada Torino 50,
10043 Orbassano

Luca Belforte (male), Dr. General Physics, University of Torino, 2003. He currently works at Centro Ricerche FIAT (CRF), part of the Stellantis group, in the Sustainable Raw Materials department as Technical Fellow for battery materials. He is experienced in microscopy and

surface characterization. He was the scientific responsible for CRF of H2020, FP7 and FP6 European funded projects: E-STARS, NANOPRIM, TERASEL, SMARTONICS, NANOBAT, NANOMECOMMONS.



David Cutler (Invited Speaker)
Project Engineer
Haydale Composite Solutions
UK

David Cutler joined Haydale in March 2023. Strong background in chemistry, material science and Lean 6 Sigma project management. Previously a project leader in construction materials for Saint-Gobain, British Gypsum and Project Engineer for SmartIR a spin Graphene technology company from Manchester University leading activities in space and defense.



Dr Beatriz Alonso Rodriguez (Invited Speaker)
R&D Director
KIVORO
Spain

Dr Beatriz Alonso obtained her PhD in Organic Chemistry from the University of the Basque Country (Spain) in 2011. During her PhD, she focused on the research of the asymmetric synthesis of organic molecules, and she did a short stay at the University of Oxford. After completing her PhD, she joined GRAPHENEA in September 2011 as Research Scientist where she combined her work as a researcher with the production control of the graphene-based derivatives. In 2018 she started leading the R&D department of the team focus on the graphene oxide materials being responsible of the founded projects, both European and national, and private projects with companies from different sectors. She is expert in graphene oxide materials and its adaptation to different applications what helps in the developing of new additives in KIVORO.



Dr Peter Greaves (Invited Speaker)
Principal R&D Engineer - Blade Structures
Offshore Renewable Energy Catapult
UK

Peter Greaves is the Principal R&D Engineer (Blade Structures) working in the Research Technical Capability directorate at the Offshore Renewable Energy Catapult. He studied Mechanical and Design Engineering at Newcastle University, which led to a brief stint working in the offshore industry. After this, he obtained an MSc in renewable energy, also from Newcastle University. His doctoral studies at Durham University were focused on bi-axial fatigue testing of wind turbine blades, and he continues to be heavily involved with blade

testing at ORE Catapult. His research interests are mainly on structural simulations of blades and blade testing.



Dr Luca Sorbello (Invited Speaker)
Director-Chairman
Halocell
Italy

Luca Sorbello holds a Master of Arts in “Business Organization and Management” from the Engineering Management school at Tor Vergata. Since 2004 he has been an adjunct professor at Tor Vergata University in Rome. From 2005-2008 Luca completed his Ph.D. in Industrial Management at the University of Tor Vergata (Rome). From 2011 to 2018, Luca Sorbello was Executive Sales and Marketing Manager of Greatcell Solar group. He has subsequently been appointed as Managing Director for Greatcell Solar Italia.



Dr Enrico Leonardi, (Invited Speaker)
Technical & Equipment Manager,
Halocell
Italy

Dr Enrico Leonardi completed his Master's degree in Electronic Engineering Nov 2005, followed by his Ph.D. in Microelectronics and Telecommunications (Nov 2009) at Tor Vergata University of Roma (Italy).



Dr Ferry Kienberger (Invited Speaker)
Country Manager
Keysight Technologies Austria GmbH
Austria

Ferry Kienberger is Keysight Austria Country Manager and Keysight Labs Group leader on battery research since 2015. Prior to this he was Scientist at Agilent Technologies from 2007 to 2015. His university education includes a PhD in Technical Physics and the Habilitation in Nanotechnology, both at JKU Linz. The scientific track record includes 140+ scientific peer reviewed publications (including Nature Publishing Group, AAAS Science, PNAS USA, and IEEE Transactions) with an H-factor 41 and 5000+ citations; he supervised 10 PhD theses. He was coordinator and lead partner in 15+ EU projects for Keysight and Agilent, 7 national projects, 2 international projects, and 3 metrology EU projects. He serves as a vice-chair for the Horizon Europe program and is a former member of the OECD business and industry advisory council.

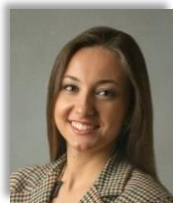


Dr Elvira Villaro (Invited Speaker)
CTO Chief Technology Officer
Avanzare
Spain

Elvira Villaro, PhD Chemistry, focused on nanomaterials and composites.

She is specialized in the new and advance materials sector, in particular in graphene and other 2D nanomaterials and its composites. Her research involves the development and characterization of nanomaterials with new functionalities and advanced properties, applicate to energy, packaging, automotive and building sectors.

She has more than ten years of professional experience in coordination, supervision and execution of collaborative R&D projects (Horizon Europe, Horizon 2020, FP7, etc.) in materials, nanomaterials and composites. She has undertaken different tasks including: project management, technically and economically, coordination of the research groups and entities involved (as Project Coordinator), research and development, analysis and design, data gathering and evaluation of results. She has also seven years of experience in the preparation and submission of proposals for national and international funding calls (EUROSTARS, SME Instrument, EIC Accelerator, HE, H2020).



Immaculada Miracle Montserrat (Invited Speaker)
Energy Area Leader & Business Development Manager
Leitat
Spain

Immaculada Miracle Montserrat is Energy Area Leader & Business Development Manager in the field of management and promotion of European cooperations. Immaculada currently performs this role at the LEITAT Technological Center (Barcelona, Spain) and previously at the Institut National de l'Énergie Solaire (Bourget-du-Lac, France), where she defined a medium-term strategic business plan and suggested ways to better promote its services in new market segments, helping to increase the number of partnerships by 30%. Previously, she worked as a project coordinator at the same French technology centre, as well as at the United Nations (UN) (Geneva, Switzerland) promoting South-South and Triangular Cooperation between governments, international organisations and the private sector to consolidate green industrial policies, finance and green cities. Her contribution to European projects on energy poverty was realised during her experience at the NGO Asociación Bienestar y Desarrollo (Barcelona, Spain). Immaculada holds a degree in Political Science and Administration from the Pompeu Fabra University (Barcelona, Spain) and a master's degree in international development -focused on Energy, Europe and Human Rights- from the prestigious Sciences Po University (Paris, France). She has additional ongoing training in business development and

solar photovoltaic and thermal engineering. Last but not least, she has co-authored six books, and articles in scientific and governance journals, which have had a wide impact not only on European projects but also on renewable energy platforms. Three of them to be highlighted are:

- Miracle Montserrat, I. (2024). Colaboración pública y privada en materia de comunidades energéticas locales: especial referencia a la iniciativa empresarial. En A. Galán Galán y I. Zamora Santa Brígida, *Comunidades Energéticas Locales* (pp. 185-203). Fundación Democracia y Gobierno Local.
- Miracle Montserrat, Immaculada (2023). La Transición energética y el cambio climático, catalizadores de la igualdad de género. Perspectiva de género en el sector energético en Iberoamérica, in L. Carlos Mussó (Eds.), *Perspectiva de género en el sector energético en Iberoamérica* (p. 12-25), UTEG, <https://www.uteg.edu.ec/wp-content/uploads/2024/05/Libro-ASIDE.pdf>.
- Del Guayo Castiella, I., and Miracle Montserrat, I. (2021). 'El COVID-19 y los consumidores vulnerables. Reflexiones a propósito del Real Decreto-ley núm. 37/2020, de 22 de diciembre de 2020', *Club Español de la Energía, Cuadernos de Energía* Nro. 65., https://www.enerclub.es/frontNotebookAction/Biblioteca /Publicaciones Enerclub/ Cuadernos/Art_CEN65



Dr Lorenzo Bautista, (Invited Speaker)
Group Leader of Surface Technologies, R&D Advanced Materials Division,
Leitat
Spain

Lorenzo Bautista has a PhD in Chemical Engineering at the Polytechnic University of Catalonia (UPC) and a Chemical Engineering degree by the University of Barcelona (UB). He holds also a Postgraduate in Paint Technologies by Institut Químic de Sarrià (IQS). He has taken part in different research projects, published in different scientific journals, and presented results in international congresses. At present, Lorenzo Bautista works as Surface Chemistry Area Manager in the Applied Chemistry and Materials Department of LEITAT. He coordinates R&D projects related to sustainable and circular materials and surfaces, including nano-enabled coatings. He specialized in several applied research areas such as surface preparation and functionalization by plasma technologies; printing inks, paints, coatings and adhesives; encapsulation; surface cleaners; lubricants; surface disinfection technologies and surface analysis. He is currently a representative of Leitat at the Advanced Materials Clúster of Catalonia (Clúster MAV) and at the Spanish Technology Platform of Advanced Materials and Nanomaterials (Materplat).



Marcel Boerrigter (Invited Speaker)
Scientific Referee - Functional Materials and Processing
Leitat
Spain

Marcel Boerrigter has a Bachelor of Science in Chemistry from the Hogeschool Enschede (Saxion University of Applied Sciences), Enschede, The Netherlands (1996). From 1997 until 2012 he worked at the European Membrane Institute (EMI) in The Netherlands. He performed confidential contract research for companies/institutes worldwide and research in various European projects, in the field of membrane science and technology. Since October 2012 he has been developing his career in the Functional Materials & Processing group at LEITAT Technological Center, currently as Scientific Referee. His main focus is on proposals promotion, project management as well as dissemination activities related to investigation and development of new membranes based on nanomaterials for the separation and purification in widespread applications such as water and wastewater treatment, recycling, gas treatment, energy devices, biomedical applications and chemical industry.

His main competences involve membrane development and fabrication (flatsheet, hollow fiber and nanofibers for applications in Microfiltration (MF), Ultrafiltration (UF), Nanofiltration (NF), Reverse Osmosis (RO), Pressure Retarded Osmosis (PRO), Pervaporation, Gas separation and Electrodialysis, among others.



Eduard Borràs (Invited Speaker)
Area Manager
Leitat
Spain

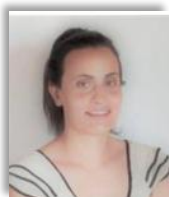
Eduard Borràs Camps holds a degree in Environmental Sciences (2005) and a PhD in Environmental Science and Technology (2011) from the Autonomous University of Barcelona. His research experience has focused on environmental biotechnology in projects related to bioremediation, waste valorization, and bioelectrochemical systems (BES). He was a visiting researcher at the Environmental Biotechnology Laboratory of the Institute of Microbiology of the Academy of Sciences of the Czech Republic. His recent professional career has focused on the execution and management of projects for energy production (biogas and hydrogen), CO₂ conversion, nutrient recovery, pollutant removal, and drinking water production in various international and national R&D projects. In addition, he has participated in several conferences and published more than 30 peer-reviewed articles in international journals and book chapters. He has been an assistant and associate professor at the Department of Chemical Engineering at the Autonomous University of Barcelona and an associate professor at the Polytechnic University of Catalonia. He currently works as an Area Manager in the

Bioelectrochemical Technologies Area in the Circular Economy and Decarbonization Department of Leitat. He is a member of the International Society for Microbial Electrochemistry and Technology (ISMET) and a representative of Leitat at the CO₂ Value Europe platform.



Alberto Fernández Vicente (Invited Speaker)
Senior Innovation Manager
AIMEN Technology Centre
Spain

Alberto Fernández has more than 25 years of experience in the field of materials science of metallic and polymer-based composite materials. As part of his research activities, he has been involved in numerous National and European projects leading with the optimization of steel processing and laser-based surface treatment and cladding of metal-based components for improved wear and corrosion behaviour. During the last 10 years, he has oriented his research interests towards the understanding and controlling of optimized process parameters during the manufacturing of composite products, using state-of-the-art liquid composite moulding techniques and more advanced additive manufacturing processes, such as fused filament/pellet fabrication and automated fibre placement technologies. This includes the application of new spectroscopic and NDT techniques for monitoring of materials transformation and defects occurrence during laser-based AM of metals and polymers and automated laying-up of composites. In 2015, he joined the business development unit at AIMEN, where he has been significantly active in the promotion and generation of concept ideas for developing AIMEN's R&D capabilities and competences within Regional, National and EU framework programs. This includes previous R&D topics together with digital methods applied to composite manufacturing, sensors and systems for product and process systems monitoring, functional materials for energy generation and storage, and high-performance materials for improved durability of and industrial assets. He has published more than 25 national and international paper and has collaborated and managed the elaboration phase of more than 100 proposals. Currently, he is coordinating the participation of AIMEN in several National and EU associations and elaborating the strategic vision of the Technology Centre with respect to Advanced Composite Technologies.



Lourdes Blanco Salgado (Invited Speaker)
Researcher in Advanced Materials
AIMEN Technology Centre
Spain

Lourdes Blanco Salgado holds both a MSc in Chemistry (Physical-Chemistry) and a MSc in Welding Engineering from the University of Vigo (Spain). She has experience in non-destructive inspection of materials. She has more than 10 years of experience in composite

materials and testing. She was involved in several projects in the field of advanced manufacturing processes for composite and multi-materials for the automotive, naval, aeronautical and wind sectors.

Dr Marta Mirolo (Invited Speaker)
Deputy Head of Business Development
European Synchrotron (ESRF),
France

Dr Marta Mirolo is a scientist at the European Synchrotron Radiation Facility (ESRF) in Grenoble, France. She earned her Ph.D. at the Paul Scherrer Institute (PSI) and the Swiss Light Source, focusing on spectroscopy studies of lithium-ion battery surfaces. In 2020, Marta joined ESRF as a researcher, working on beamline ID31 to enhance her expertise in diffraction techniques. Since 2023, she has been part of the ESRF's Structure of Materials group, contributing to the EU-funded ReMade@ARI project, which supports research in circular economy by facilitating access to European research infrastructures. In this role, Marta specializes in X-ray diffraction facilities, assisting researchers in selecting and utilizing the most suitable beamlines for their experiments.



Prof. Krzysztof Koziol
Head of the Electric Carbon Nanomaterials Group
Cranfield University
UK

Dr Krzysztof Koziol is the Head of the Electric Carbon Nanomaterials Group. His current research is in the area of synthesis and applications of substrate-bound and gas-phase-grown carbon nanotubes, with a particular focus on chirality control of carbon nanotubes. In addition, he is exploring two methods of making carbon nanotube fibres; the first is based on direct and continuous spinning from carbon nanotube aerogel, where up to 70 meters per minute of fibres can be achieved. These fibres show exceptional mechanical properties - a combination of strength, stiffness and toughness - but also very high electrical and thermal conductivity. The second method is based on spinning Carbon Nanotube fibres from liquid dispersion of well-defined structures of carbon nanotubes. During his previous research projects, he developed various methods for the synthesis, purification, chemical modification and fabrication of highly aligned nanotubes and polymer composites. In addition he discovered a new synthesis route which solves the problem of the chirality control challenges of carbon nanotubes. Using this process he has been able to synthesise armchair or zigzag type nanotubes. His other current research interests include: post treatment and applications of pure carbon nanotube and carbon nanotube polymer composites as well as design and testing of various devices based on carbon nanotube wire technology.



Dr Ana Bankovic Cassidy (Organiser)
Senior Innovation Manager
Cambridge Nanomaterials Technology Ltd.
14 Orchard Way, Cambourne
Cambridge CB23 5BN

Dr Ana Bankovic Cassidy is a Senior Innovation Manager at CNT Ltd. At the CNT Ltd she has been working for more than four years on customised patent landscaping, technology monitoring and market research reports, preparation of the Impact section of the Horizon Europe and Innovate UK proposals and exploitation, dissemination and innovation management tasks in the projects She has wide project management, innovation management, business architecture development and computation modelling experience. Ana graduated from the Faculty of Physics, University of Belgrade Serbia, winning the award for the best BSc (Honors) Thesis of the year 2007. The main aim of her PhD study and further research was to identify and explain specific kinetic phenomena that occur in positron transport in electric and magnetic field due to non-conservative nature of positronium formation. Ana applied the basic phenomenology of charged particle swarms to study the interaction of positrons with biologically relevant molecules, in order to develop and establish a benchmark for Monte Carlo codes used in positron emission tomography (PET) modelling. Her research activities were undertaken in Centre for Non-Equilibrium Processes at the Institute of Physics in Belgrade, Serbia, a large interdisciplinary group with interests ranging from theoretical, numerical and experimental studies of low temperature plasmas, to studies of positron swarms and their applications, modelling particle detectors and conducting experiments at applying plasma physics methodologies to medicine and biological applications. As a Visiting Researcher at the Open University, Milton Keynes in 2014/15, she worked on quantum chemistry treatment of positron interactions with atoms and molecules using the UKRmol quantum chemistry software.

KEYNOTE SPEAKER:



Sivaram Arepalli,
Adjunct Professor
Department of Materials Science and NanoEngineering,
Rice University
Houston,
USA

Dr. Arepalli is an Adjunct Professor in the Department of Materials Science and NanoEngineering at Rice University. He received his Ph.D. from IIT Kanpur and did postdoctoral work at Univ. of Pennsylvania and Cornell University. During 2013 to 2014, he was the Vice President at the National Institute of Aerospace (NIA), Hampton, Virginia and supported NASA Langley. From 2009 to 2013, he was a Senior Professor in the Department of Energy Science at Sungkyunkwan University in Korea. He was the Chief Scientist of the Applied

Nanotechnology Program and Reentry Plasma Diagnostics Program at NASA-Johnson Space Center, Houston and worked there for 22 years. He received global recognition for his work on single wall carbon nanotubes. He is an Associate Fellow of AIAA and was nominated as a Fellow of APS. His current focus is on nanomaterials for energy applications as well as nanocomposites for aerospace structures, environmental sensors and bioimplants.

NanoMATexpo & conference – Organisers

Cambridge Nanomaterials Technology Ltd (CNT)



Web: www.cnt-ltd.co.uk

The **Cambridge Nanomaterials Technology Ltd (CNT Ltd)** is an innovation management and nanotechnology consulting company based in Cambridge. The CNT Ltd helps companies, academic and government institutions to develop world-class innovative solutions for nanomaterials related R&D and IPR strategy, partnership, products, technologies, funding and markets. CNT Ltd is specialised in carbon nanomaterials R&D consulting and collaborative R&D project management, including exploitation and dissemination management, consortium and supply chain building. CNT has done a number of patent landscaping and market research analysis studies regarding production and use of various nanomaterials helping to link inventors and technology developers with end-users and investors. The CNT Ltd is a leader of two private membership-based consortiums: Nano-Carbon Enhanced Materials (NCEM) and the new Advanced Materials for Additive Manufacturing (AMAM) with members coming from leading multinational companies and research institutions.

Please visit our virtual expo booth at: [CircularEconExpo](#)



NanoMATexpo & conference – Speakers' organisations

Haydale Composites Solutions Ltd.



Web: <https://haydale.com/>

Haydale is a global technology solutions company that has developed a patented plasma functionalisation process to allow graphene and other nanomaterials to be used in a wide range of applications from packaging, heating products and biomedical sensors to tyres, shoes, and protective coatings. The HDPlas² method is a dry, clean, and environmentally friendlier process that unlocks the properties of advanced materials to give products improved mechanical strength and increased electrical and thermal conductivity. Haydale's expertise lies in the unique plasma functionalisation of nanomaterials using patented technology. Haydale's functionalisation hub is based in a purpose-built facility in Ammanford, South Wales, designed to handle and process volume nanomaterials for a wide range of applications. Due to their unique position, Haydale has access to a large library of nanomaterials (250+), which have been analysed using their fingerprinting process to assess the quality and potential property enhancements. These nanomaterials are then functionalised using plasma functionalisation to impart covalently bonded chemical groups and species onto the nanomaterial surface.

Please visit our virtual expo booth at: [Graphenexpo](#)



Halocell Energy



Web: www.halocell.energy

Halocell Energy is a global leader in the solar transition, commercializing Perovskite Solar Cells (PSC)s, the future of photovoltaic technology. Founded with a vision to revolutionize renewable energy, Halocell specializes in the development of high-efficiency PSCs for indoor electronic devices and IoT applications. Our innovative technology offers a sustainable and cost-effective solution, delivering stable energy output even in low-light environments. By incorporating halide elements into our perovskites and applying advanced engineering techniques, we enable our technology to generate power in ambient light - an area where

traditional photovoltaics struggle. With lower manufacturing energy costs and a competitive edge over conventional solar technologies, Halocell is leading the charge towards a greener, more efficient energy future.

Please visit our virtual expo booth at: [SolarPowerEXPO](#)



Leitat Technological Center

Web: <https://leitat.org/>



Leitat is a private technical institute with more than 110 years of experience in industrial innovation processes. We transform technological and scientific results into economic and competitive value for our clients and collaborating entities. Over 1500 customers benefit from our talent, creativity and strong commitment. We bring knowledge and innovation to our customers through applied research and technical testing in the fields of chemistry, energy, environment, materials, engineering and life sciences. We rely upon our 330 highly skilled team members who deliver flexible solutions to face any industrial challenge.

Please visit our virtual expo booths at: [SolarPowerEXPO](#) , [CarboCapturEXPO](#), and [CircularEconEXPO](#).



KIVORO

Web: www.kivoro.com

KIVORO

KIVORO is a corporate spin-off of **GRAPHENEA**, a Graphene Oxide based materials producer. We have the spirit of a startup which you will experience in how we make the complex simple, advance rapidly and in our flexibility of approach. We're driven by our goal to better respond to the current and future needs of society by developing our small ingredients that help

achieve great results with a positive impact on performance and for the sustainability of the planet.

Graphenea



Web: www.graphenea.com

Graphenea is a graphene materials manufacturing company. Graphene develops optimized graphene materials for industrial and research needs. Graphenea has developed leading synthesis and transfer process to obtain high uniformity monolayer graphene films on any substrate.

Please visit our virtual expo booth at: [GraphenEXPO](#)



CEA Liten



Web: <https://liten.cea.fr/>

The CEA-Liten story began in 2004. An institute of the CEA, a major European research and technology organization, we have become a key stakeholder in R&D for energy and the environment over the past two decades. Our research, guided by energy efficiency and the circular economy, addresses the pillars of the energy transition: solar energy, batteries, hydrogen, and sustainable chemicals and fuels.

Please visit our virtual expo booth at: [SolarPowerEXPO](#)



Offshore Renewable Energy Catapult



Web: <https://ore.catapult.org.uk/>

ORE Catapult was established in 2013 by the UK Government and is part of a network of Catapults set up by Innovate UK in high growth industries. It is the UK's leading innovation centre for offshore renewable energy.

Independent and trusted, with a unique combination of world-leading test and demonstration facilities and engineering and research expertise, ORE Catapult convenes the sector and delivers applied research, accelerating technology development, reducing risk and cost and enhancing UK-wide economic growth.

Active throughout the UK, ORE Catapult has operations in Glasgow, Blyth, Levenmouth, Aberdeen, the Humber, the East of England, the South West and Wales and operates a collaborative research partnership in China.

Please visit our virtual expo booth at: [WindPowerExpo](#)



Keysight Technologies GMBH

Web: <https://www.keysight.com/zz/en/home.html>



Keysight Technologies (Keysight) is the world's premier electronic measurement company with 13,500+ employees which generated revenues of \$4.2B in fiscal year 2020. Keysight delivers advanced design and validation solutions that help accelerate innovation to connect and secure the world. Keysight's dedication to speed and precision extends to software-driven insights and analytics that bring tomorrow's technology products to market faster across the development lifecycle, in design simulation, prototype validation, automated software testing, manufacturing analysis, and network performance optimization and visibility in enterprise, service provider and cloud environments. Our customers span the worldwide communications and industrial ecosystems, aerospace and defense, automotive, energy, semiconductor and general electronics. Keysight offers a portfolio of different electronic measurement equipment, calibration devices, software packages, and data analytics, including high speed oscilloscopes and performance network analysers (PNA) that are in many aspects leading the edge on performance, speed, and sensitivity in the broad frequency spectrum. Recently, Keysight extended the automotive and battery division by adding automotive battery test systems on top of power supplies and source measurement units SMUs. Keysight aims to lead software and hardware development in energy storage and battery quality test via combined hardware and software algorithms for battery quality control, products and services to gigafactories. Hereby, Keysight is working on the development of impedance calibration and high-throughput measurements, as well as the battery self-discharge methodology that improves cell production efficiency significantly.

Please visit our virtual expo booth at: [MatcharExpo](#)



Centro Ricerche FIAT (CRF)



Web: www.crf.it

Centro Ricerche FIAT (CRF) is an industrial organization having the mission to promote, develop and transfer innovation for providing competitiveness to Stellantis. With a full-time workforce of highly trained professionals, CRF fulfills his task by focusing on the development of innovative products & materials, implementation of innovative processes development of new methodologies and training of human resources. To properly cover a very wide technological spectrum, CRF developed a global network with national and international institutes; private and public research organizations, universities and companies, through the promotion of common research activities, associations, conferences and seminars and researcher's mobility. This network further strengthens the center's global innovation strategies, the implementation of specific activities locally, creation of know-how and continuous monitoring to enhance competitiveness and further development in areas such as transportation vehicles and components, innovative materials and application technologies, as well as the work on innovative alternative propulsion systems and transmissions.

Please visit our virtual expo booth at: [MatcharExpo](#)



Avanzare Innovación Tecnológica

Web: www.avanzarematerials.com



At avanzare we aim to bring disruptive change to industry. The next generation of mobile devices, vehicles, household appliances, industrial equipment, medical devices, footwear, packaging, as well as sustainable and smart construction, will require new advanced, more versatile and high-performance materials.

We are specialized in the development, production and commercialisation of advanced functional materials for both emerging applications and alternatives to traditional materials.

Our materials are high performance solutions based on nanotechnology, 2D materials (graphene and other two-dimensional materials) and new emerging materials. We also produce nanointermediates (dispersions of our advanced materials) that allow easy integration by the end customer and facilitate internationalisation.

Please visit our virtual expo booth at: [GraphenEXPO](#) and



AIMEN Technology Center



Web: www.aimen.es

AIMEN is a Non-Profit association, located in the Northwest of Spain and constituted by about 90 companies, which supplies technological support to more than 400 companies dedicated to industrial activity related to metallurgy, automotive sector, shipbuilding, etc. It is highly specialized in materials and in advanced manufacturing technologies, especially joining technologies and laser technologies applied to materials processing, robotics and automation.

Please visit our virtual expo booth at [WindPowerExpo](#)



European Synchrotron Radiation Facility - ESRF

Web: <https://www.esrf.eu/>



The **ESRF** is the world's most intense X-ray source and a centre of excellence for fundamental and innovation-driven research in condensed and living matter science. Located in Grenoble,

France, the ESRF owes its success to the international cooperation of 22 partner nations, of which 13 are Members and 9 are Associates

Please visit our virtual expo booth at: [MatcharExpo](#)



Cranfield University



Web: www.cranfield.ac.uk/manufacturing

www.cranfield.ac.uk/centres/enhanced-composites-and-structures-centre

Cranfield has a distinctive approach to manufacturing research. We combine expertise in design, technology and management along with research into materials sciences together, all with a focus on manufacturing.

We teach more than 300 postgraduate students in areas ranging from manufacturing technology to systems and management. Research students work in fields as diverse as ultra-precision engineering to the novel application of Virtual Reality technologies to support maintenance and through-life engineering services. We work in Technology Readiness Levels (TRL) 1-6.

Cranfield offers a part-time executive manufacturing Master's programme to develop industry professionals who can lead business change and innovation. From 2016 we will also run a Manufacturing Leadership Programme for SMEs and a Manufacturing Directors Programme.

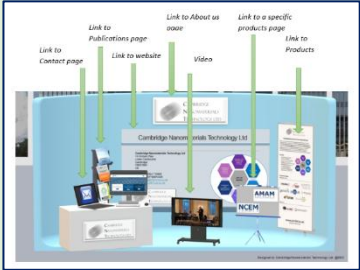
We work with more than 1500 businesses and governments around the world. Through our industry connections guest lecturers, often senior managers in leading companies, provide insight into current industry challenges. Many industry contacts actively recruit our graduates.

Rice University

Web: www.rice.edu



Boasting a 300-acre tree-lined campus in Houston, Rice University is ranked among the nation's top 20 universities by U.S. News & World Report. Rice has a 6-to-1 undergraduate student-to-faculty ratio, and a residential college system, which supports students intellectually, emotionally and culturally through social events, intramural sports, student plays, lectures series, courses and student government. Developing close-knit, diverse college communities is a strong campus tradition, which is why Rice is highly ranked for best quality of life and best value among private universities.

Registration costs		
Participation Only:	FREE	<ul style="list-style-type: none"> • Admission to the event • Brief introduction for you and your organization at the start of the conference • An opportunity to actively engage and participate in the discussions.
Delegate Pack:	£300.00	<p>Includes all the benefits mentioned above, plus:</p> <ul style="list-style-type: none"> • Conference related documents (full agenda with information on delegates • Non-confidential presentations sent after the event).
Virtual exhibition booth:	£850.00 (Virtual expo only)	
Bronze membership:	£1,000.00 (Bronze membership)	Includes exhibition booth and online participation on all events for one year– for more details on this membership, please visit the nanMATexpo website at this link . Or send us an email to: info@CNT-Ltd.co.uk

THIS EVENT IS SUPPORTED BY THE VIRTUAL EXHIBITIONS ON THE FOLLOWING PLATFORMS:

