





Hydrogen Summer School 10th September 2024 - Speaker profiles (Day 2)

<p><u>Dr Paul Holland</u></p> 	<p>Dr. Paul Holland is a distinguished gas metrologist and analytical chemist with over 30 years of experience in the gas industry. Initially a senior researcher at the National Physical Laboratory, he played a pivotal role in advancing gas measurement techniques. Since joining EffecTech Limited in 2001, he contributed significantly to the company's growth and reputation, notably developing a cryogenic LNG reference liquid production facility and the Performax cylinder passivation technology. After EffecTech's acquisition by the Linde Group in 2022, Paul retired as a director and shareholder, transitioning to visiting professor roles at Loughborough and Cranfield Universities. At Loughborough, he is involved in projects focused on green hydrogen and sustainable energy solutions for Africa, while at Cranfield, he works on low-carbon fuels and advanced combustion technologies.</p>
<p><u>Ashley van Bruygom</u></p> 	<p>Ashley van Bruygom is a Doctoral Researcher studying for her PhD at the National Centre for Combustion and Aerothermal Technology (NCCAT) at Loughborough University. She holds a Master's Degree in Aeronautical Engineering from Loughborough University, a Master's of Research in Future Propulsion and Power from Cambridge University. Her PhD covers novel hydrogen combustion for gas turbine combustors under the supervision of Professor Walker and Dr Garmory. Her work is being sponsored by Rolls-Royce and the EPSRC Centre for Doctoral Training in Future Propulsion and Power.</p>
<p><u>Dr Dowon Bae</u></p> 	<p>Dr Dowon Bae is a Senior Lecturer in Energy Engineering at Wolfson School of Mechanical, Electrical and Manufacturing Engineering. He received his BSc & MSc (both Summa cum laude) from the Russian State Technological. After industrial R&D activities (CIGS and CZTS PV) at LG Innotek, he obtained a PhD in Physics at the Technical University of Denmark in 2015. He also worked at the Delft University of Technology as a Marie-Curie Postdoc Fellow until 2020. Before his academic experience at Loughborough University, he was an Assistant Professor at Heriot-Watt University (UK, 2020-2023). His research interests include solar and thermal energy conversion via electrocatalytic and electrochemical systems.</p>
<p><u>Simon George</u></p> 	<p>Simon George possesses a rich multidisciplinary background encompassing physics, mathematics, computing, and engineering. His expertise has been further shaped by extensive experience in a commercial research environment, particularly through his work with customers. Initially, his interest in computing began with programming, but it has since expanded to include computational modeling techniques such as Finite Element Analysis and Fluid Dynamics, using advanced software like MARC, ANSYS, and CFX.</p> <p>Currently, he is focused on advancing NovaSci's computational modeling services, leveraging his comprehensive skill set to enhance and innovate within the field.</p>

Alok Choudhary



Dr. Alok Choudhary is a Professor of Supply Chain Management and Head of the Supply Chain Group at WMG, University of Warwick. His research, which emphasizes industry-driven solutions and practical impact, addresses key challenges in sustainability, resilience, and digital transformation within supply chains and logistics. His work has significantly influenced business practices, regional policies, and the competitiveness of SMEs in the Midlands of the UK.

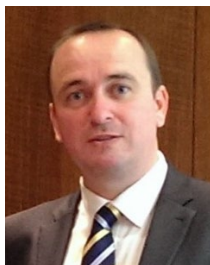
Dr. Choudhary has led numerous national and international projects funded by organizations such as the EU, UKRI, and Innovate UK, and has authored over 125 research publications. He recently served on the REF2021 Subpanel as a supply chain management expert. Prior to his current role, he held professorships at Loughborough University and The University of Sheffield, and was a Visiting Professor at institutions including Ivey School of Business and Harvard Business School. He is also an active guest editor, session chair, and keynote speaker at international conferences, and has fostered strategic partnerships with leading universities and enterprises worldwide.

Christopher Dudfield



A highly motivated and experienced technology, operations and programme director, specialising in working in both R&D and product development environments. A strong and proven track record of business and programme planning combined with execution of on time technology delivery against business and commercial requirements. Success in planning, management and delivery of global knowledge and technology transfer with international partners. Experienced in recruiting, building and leading programme and technology resource teams, including global resource management. Record of strong organisational and managerial planning skills combined with the ability to communicate effectively at all levels within a business. Extensive knowledge and expertise of fuel cell and hydrogen generation technologies including applications across stationary power, motive and portable power markets.

Simon Foster



Simon Foster is currently the Head of Fuel Cell Research & Development at Intelligent Energy, where Simon has been since 2001. Simon has also held roles as a Technology Specialist, Senior Programme Manager, and Fuel Cell Research Technical Lead. Previously, Simon worked as a Project Engineer at Advanced Power Sources Ltd and Electrogas, British Nuclear Fuels Ltd. Simon has a PhD in fuel cell electrochemistry from Loughborough University, where Simon also completed their Bachelor of Science in Chemistry.