

HENRY ROYCE INSTITUTE CONFERENCE 2021

22 – 23 MARCH 2021

DAY 1 - ROYCE'S RESEARCH LANDSCAPE AND CROSS-CUTTING THEMES

Time	Session	Presenters
10:00 - 11:05	Welcome & Introduction to Royce	Prof David Knowles, CEO, Royce Prof Philip Withers, Chief Scientist, Royce Dr Nick Rimmer, Head of Business Engagement, Royce
BREAK		
11:15 - 12:30	Parallel Sessions • Materials Modelling • Imaging & Characterisation	
BREAK		
13:30 - onwards	Royce Research Area Parallel Sessions • Advanced Metals Processing • Atoms to Devices • Biomedical Materials • Chemical Materials Discovery • Electrochemical Systems • Material Systems for Demanding Environments • Nuclear Materials • Two-Dimensional Materials	

DAY 2 - SUPPORTING THE UK'S NATIONAL SUSTAINABILITY RESEARCH AGENDA

Time	Session	Presenters
10:00 - 10:30	UK Materials Research Priorities and Direction	Baroness Brown of Cambridge, Chair, Royce Prof Paul Monks, Chief Scientific Advisor, BEIS Dr Tony Soteriou, Director of Commercialisation, UKRI
10:35 - 11:25	Panel Session <i>'Translating academic research developments in materials into business, and the role that research institutes should play.'</i>	Baroness Brown of Cambridge Annalisa Gigante, Royce Sinead Lynch, Shell Richard Price, Pragmatic Jane Nicholson, EPSRC Sophie Walton, CPI JT Janssen, NPL
11:40 - 12:40	Developing a Circular Materials Economy	Prof Fiona Charnley Prof Peter Hopkins Prof Phil Purnell Prof Julia Stegemann Prof Jin Xuan Prof Frances Wall Prof Fan Zhongyun Prof David Knowles, Royce
12:40 - 12:45	Materials Challenges & Roadmapping Introduction	Prof Philip Withers
BREAK		
14:00 - 15:00	Parallel Sessions • Materials 4.0 • Sustainable Packaging & Plastics • Degradation in structural materials for net-zero • Materials for Fusion • Materials for the Hydrogen Economy	
15:00 - 15:10	Event wrap-up	Prof David Knowles

HENRY ROYCE INSTITUTE CONFERENCE 2021 SESSION ZOOM LINKS

If you have any trouble accessing the sessions please contact info@royceconference2021.org. If you are contributing to a session, please use your personalised panellist link.

Date	Session name	Zoom link
Monday 22 March		
10:00	Welcome	https://glsr.live/royceconf2021 Password - royceconf2021
11:15 – 12:30	Modelling	https://us02web.zoom.us/j/83332654815
11:15 – 12:30–	Imaging & Characterisation	https://us02web.zoom.us/j/89962838503
13:30 onwards	Advanced Metals Processing	https://us02web.zoom.us/j/84060618039?pwd=dUxNSDk4Sm5IOVZEbkD0T2xOT0lIdz09
13:30 onwards	Atoms to Devices	https://us02web.zoom.us/j/87334081352
13:30 onwards	Material Systems for Demanding Environments	https://us02web.zoom.us/j/83190033234?pwd=SFdvNjRJTDFsUUUVXL2IHLzI4WHJ0dz09
13:30 onwards	Nuclear Materials	https://us02web.zoom.us/j/88303614808
13:30 onwards	Biomedical Materials	https://us02web.zoom.us/j/81785920775?pwd=WxcxdHZZWEIIMERIdmhSZWk4aTRadz09
13:30 onwards	Chemical Materials Discovery	https://us02web.zoom.us/j/81599628563?pwd=RHQ5TXoxa0tLamIRRTI4Q0ZuK3ZmQT09
13:30 onwards	Electrochemical Systems	https://us02web.zoom.us/j/89787723002?pwd=OFpRRGt0M2I5aXdZYkhMM3JNcTJ4dz09
13:30 onwards	Two-Dimensional Materials	https://us02web.zoom.us/j/88965853539?pwd=dUN5Uk9nMG12bVVmUTFZNWVseHoxQT09
Tuesday 23 March		
10:00	UK Materials Research Priorities and Direction	https://glsr.live/royceconf2021 Password - royceconf2021
10:30 – 11:25	Panel session: Translating academic research developments in materials into business	https://glsr.live/royceconf2021 Password - royceconf2021
11:40 – 12:40	National Interdisciplinary Circular Economy Research	https://glsr.live/royceconf2021 Password - royceconf2021
12:40 – 12:45	Materials Challenges & Roadmapping Introduction	https://glsr.live/royceconf2021 Password - royceconf2021
14:00 – 15:00	Materials 4.0	https://us02web.zoom.us/j/89563700073
14:00 – 15:00	Sustainable Packaging & Plastics	https://us02web.zoom.us/j/84124455473
14:00 – 15:00	Materials for Fusion	https://us02web.zoom.us/j/86298559669
14:00 – 15:00	Materials for the Hydrogen Economy	https://us02web.zoom.us/j/86242117861?pwd=ZjI0ODVvb2FkREdhUIRhV3hab3Q1UT09
14:00 – 15:00	Degradation in structural materials for net-zero	https://us02web.zoom.us/j/87648653003?pwd=OHlYNGNVd2duUmgxTUJES0RkMW52UT09

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MATERIALS MODELLING TO SUPPORT EXPERIMENT AND INDUSTRY

22 MARCH 2021 | 11:15 - 12:30

Session	Time	Presenters	Title
Materials Modelling to Support Experiment and Industry	11:15 - 11:25	Prof Peter Haynes/Dr Chris Race	Introduction
	11:25 - 11:35	Dr Rebecca Nicholls University of Oxford	Density functional theory to interpret EELS and XAS data
	11:35 - 11:45	Prof Edmund Tarleton University of Oxford	Discrete dislocation dynamics and crystal plasticity
	11:45 - 11:55	Prof Paola Carbone The University of Manchester	Using Molecular Modelling for Materials Characterization: Soft Matter and Interfaces
	11:55 - 12:05	Dr Pratheek Shanthraj The University of Manchester	Microstructural and continuum scale methods (such as phase field simulation)
	12:05 - 12:15	Prof Tim Dodwell University of Exeter	Machine learning and data-centric modelling
	12:15 - 12:30	Q&A	

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IMAGING & CHARACTERISATION

22 MARCH 2021 | 11:15 - 12:30

Session	Time	Presenters	Title
Imaging & Characterisation	11:15 - 11:25	Prof Sarah Haigh/Dr Katie Moore The University of Manchester	Introduction (10 mins)
	11:25 - 11:37	Dr Tim Burnett The University of Manchester	National X-ray CT facility at the Henry Royce Institute (10mins + 2mins Q&A)
	11:37 - 11:49	Dr Joven Lim UKAEA	Pushing towards the limits in characterisation of irradiation-induced damage in crystalline materials
	11:49 - 12:01	Dr Nicola Green The University of Sheffield	Imaging biomaterials by lightsheet microscopy (10mins + 2mins Q&A)
	12:01 - 12:13	Prof Sven Schroeder University of Leeds	Advanced Characterisation of Materials with the Versatile X-ray Spectroscopy Facility (VXSf) at the University of Leeds (10mins + 2mins Q&A)
	12:13 - 12:25	Dr Paul Bagot University of Oxford	Capabilities and Applications of Atom Probe Tomography (10mins + 2mins Q&A)
	12:25 - 12:30	General discussion and flash talks	

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ADVANCED METALS PROCESSING

22 MARCH 2021 | 13:30 - 16:15

Session	Time	Presenters	Title
Advanced Metals Processing	13:30 - 13:35	Prof Martin Jackson/Dr Katerina Christofidou/ Dr Ed Pickering	Welcome & Introduction to session
	13:35 - 14:00	Prof Martin Jackson/Dr Katerina Christofidou/ Dr Ed Pickering	Introduction to Advanced Metals Processing Royce capabilities
	14:00 - 14:30	Dr Alex Hickson Aero Space Technology Institute	Challenges in Advanced Metals Processing in the Civil Aerospace sector (15 mins + 15 mins Q&A)
	14:30 - 14:40	BREAK	
	14:40 – 15:10	Dr Lee Aucott UKAEA	Challenges in Advanced Metals Processing in the Nuclear Fusion sector (15mins + 15mins Q&A)
	15:10 – 15:25	Dr Sarah Baker DSTL	Challenges in Advanced Metals Processing in the defence sector
	15:25 – 16:15	Discussion	Common technical challenges and next steps

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ATOMS TO DEVICES

22 MARCH 2021 | 13:30 - 16:30

Session	Time	Presenters	Title
Atoms to Devices	13:30 - 13:35	Prof Edmund Linfield University of Leeds	Introduction to the Atoms to Devices research area
Session 1 Royce internal speakers Chair: Prof Manish Chhowalla	13:35 - 13:48 (10 minutes + 2.5 Q)	Ryan Bower Imperial College London	Royce Atoms to Devices at Imperial College London: New plasmonic materials and devices
	13:48 - 14:00 (10 minutes + 2.5 Q)	Dr Philippa Shepley University of Leeds	The Royce Deposition System: capabilities and research highlights
	14:00 - 14:13	Dr Helena Knowles University of Cambridge	The Royce Nanoscale Quantum Sensing and Imaging Suite: Imaging magnetic textures in 2D
	14:13 - 14:25 (10 minutes + 2.5 Q)	Prof Rich Curry The University of Manchester	Functional Engineering & Characterisation at the Nanoscale (Integrated Advanced Materials Capability)
	14:25 - 14:40	BREAK	
Session 2 Royce external speakers Chair: Prof Neil Alford	14:40 - 14:55 (12.5 minutes + 2.5 Q)	Prof Marina Filip University of Oxford	First Principles Computational Modeling and Design of Novel Perovskite Semiconductors for Optoelectronic Applications
	14:55 - 15:10 (12.5 minutes + 2.5 Q)	Prof Alastair P Hibbins University of Exeter	Metamaterials Revolution – from physics to application!
	15:10 - 15:25 (12.5 minutes + 2.5 Q)	Prof Robert Bowman Queen's University Belfast	Tuneable, Rare-Earth Free, Synthetic Ferrimagnets for Optical Switching'
	15:25 - 15:40	BREAK	
Session 3 Royce external speakers, ECR session Chair: Prof Rich Curry	15:40 - 15:55 (12.5 minutes + 2.5 Q)	Dr Marina Freitag University of Newcastle	Marina Freitag Smart Zombies: Copper Coordination Complexes in Hybrid Photovoltaics
	15:55 - 16:10 (12.5 minutes + 2.5 Q)	Dr Juna Sathian University of Northumbria	From lasers to masers
	16:10 - 16:25 (12.5 minutes + 2.5 Q)	Dr Tim Moorsom University of Glasgow	The Molecular Toolbox: From the spinterface to topological logic
	16:25 - 16:30	Prof Edmund Linfield Prof Rich Curry	Summary

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BIOMEDICAL MATERIALS

22 MARCH 2021 | 13:30 - 16:00

Session	Time	Presenters	Title
Materials Systems for Demanding Environments	13:30 - 13:32	Dr Jonny Blaker The University of Manchester	Welcome and Introduction to Biomedical Materials research area
	13:32 - 13:35	Prof Sarah Cartmell The University of Manchester	Open Session
Session 1 Biomaterials for Medical Devices Chaired by Prof Sarah Cartmell	13:35 - 13:45	Prof Liam Grover University of Birmingham	Moving soft material innovations towards the clinic
	13:45 - 13:55	Prof Fergal O'Brien AMBER	Natural polymer-based biomaterial for delivery of cells & therapeutics to promote enhanced tissue repair
	13:55 - 14:05	Prof Morgan Alexander University of Nottingham	Cell instructive materials for next generation medical devices
	14:05 - 14:15	Arun Sridhar Artha Health	Moving beyond the traditional neuromodulation: The advent of Bioelectronic Medicines
	14:15 - 14:40	Panel 1: • Dr Jonny Blaker (Session chair) • Prof Liam Glover • Prof Fergal O'Brien • Prof Morgan Alexander • Dr Arun Sridhar • Dr Adam Reid, Honorary Consultant Plastic Surgeon, The University of Manchester • Prof Hans-Ulrich Laasch, Clinician The Christie NHS Foundation Trust	Panel discussion + session summary
	14:40 - 14:50	BREAK	
Session 2 Biomaterials for Tissue Engineered Products Chaired by Dr Jonny Blaker	14:50 - 14:55	Prof Jonny Blaker The University of Manchester	Biomaterials for tissue engineered products
	14:55 - 15:05	Prof Ruth Cameron University of Cambridge	Biomacromolecular Cell Support Frameworks in Three Dimensions
	15:05 - 15:15	Prof Manuel Salmeron-Sanchez University of Glasgow	Functional materials for cell engineering – quo vadis
	15:15 - 15:25	Dr Umber Cheema University College London	Bioengineering 3D tumouroids to interrogate the tumour-stroma boundary
	15:25 - 15:35	Dr Helen Berry University of Leeds	Natural Tissue Scaffolds: Life at the Biointerface
	15:35 - 16:00	Panel 2: • Prof Sarah Cartmell (Session chair) • Prof Ruth Cameron • Prof Manuel Salmeron-Sanchez • Prof Umber Cheema • Dr Helen Berry • Dr Jason Wong, Consultant Plastic Surgeon, Manchester University Foundation Trust (MFT)	

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CHEMICAL MATERIALS DISCOVERY

22 MARCH 2021 | 13:30 - 16:30

Session	Time	Presenters	Title
Chemical Materials Discovery	13:30 - 13:35	Prof Alessandro Troisi University of Liverpool	Introduction to the Chemical Materials Discovery research area
Session 1 Chaired by Prof Alessandro Troisi	13:35 - 13:45	Prof Mike Anderson The University of Manchester	CrystalGrower – a generic Monte Carlo simulation tool for crystal growth
	13:45 - 13:55	Dr Matthew Dyer University of Liverpool	Computer Aided Discovery of Inorganic Materials
	13:55 - 14:00	Questions	
	14:00 - 14:10	Dr Samantha Chong University of Liverpool	Accelerating structural characterisation in organic materials discovery
	14:10 - 14:20	Dr Sihai Yang The University of Manchester	Porous materials for clean air
	14:20 - 14:25	Questions	
	14:25 - 14:40	BREAK	
Session 2 Chaired by Prof Michael Turner	14:40 – 15:00 (inc. 5 mins Q&A)	Dr Hugo Bronstein University of Cambridge	Improving the photoluminescence of conjugated polymers in the solid state
	15:00 – 15:20 (inc. 5 mins Q&A)	Prof Oana Ghita University of Exeter	Material challenges in Additive Manufacturing - the need for polymer modelling
	15:20 – 15:30	Jesus Molinar Diaz University of Nottingham	Development of dense and porous Ca ₂ Fe ₂ O ₅ magnetic microspheres via a rapid flame-spheroidisation process
	15:30 – 15:40	Gabriel Krenzer Imperial College London	Phonon-ion interactions: solid state electrolyte design based on lattice dynamics
	15:40 – 15:45	Questions	
	15:45 – 16:00	BREAK	
	16:00 – 16:30	Open discussion, feedback from audience and wrap-up	

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ELECTROCHEMICAL SYSTEMS

22 MARCH | 13:30 - 16:00

Session	Time	Presenters	Title
Electrochemical Systems	13:30 - 13:35	Dr Robert Weatherup	Introduction to the Electrochemical research area session
Session 1 Chaired by Dr Alex Walton	13:35 - 13:55	Prof Xile Hu EPFL	Bifunctional catalysis for the oxygen evolution
	13:55 –14:15 (inc 5 mins Q&A?)	Dr Ifan Stephens Imperial College London	Towards improved catalysts for water electrolysis
	14:15 –14:35 (inc 5 mins Q&A)	Dr Laurie King Manchester Metropolitan University	Advanced materials to reduce precious metal loading in oxygen evolution reaction catalysts
	14:35 - 14:45	BREAK	
Session 2 Chaired by Dr Robert Weatherup	14:45 – 15:05 (inc 5 min Q&A)	Prof Juergen Janek Justus Liebig University Giessen	Solid-state Ionic Conductors for Batteries
	15:05 – 15:25 (inc 5 min Q&A)	Dr Nuria Tapia-Ruiz Lancaster University	Titanium oxide-based anodes for Na-ion batteries. A feasible alternative to hard carbons?
	15:25 – 15:45 (inc 5 min Q&A)	Dr Andrew Morris University of Birmingham	The Wadsley-Roth niobates for stable, fast lithium-ion diffusion battery anodes: first principles modelling combined with experiment
	15:45 – 16:00	Open Discussion	

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MATERIAL SYSTEMS FOR THE DEMANDING ENVIRONMENTS

22 MARCH 2021 | 13:30 - 16:30

Session	Time	Presenters	Title
Material systems for the Demanding Environments	13:30 - 13:35	Dr Brian Connolly The University of Manchester	Introduction to Materials Systems for Demanding Environments research area
Session 1 Chaired by Dr Brian Connolly	13:35 - 13:55 (inc 5 mins Q&A)	Dr Gareth Hinds National Physical Laboratory	A combined in situ diagnostic and modelling approach to cost reduction in polymer electrolyte membrane water electrolyzers
	13:55 - 14:15	Prof Elizabeth Opila University of Virginia	Rare Earth Silicate Coatings for High Temperature Ceramic Composite Applications
	14:15 - 14:35 (inc 5 mins Q&A)	Prof Nick Birbilis National University of Australia	Corrosion Behaviour of Additive Manufactured Materials'
	14:35 - 14:45	BREAK	
Session 2 Chaired by Dr Philipp Frankel	14:45 - 15:05 (inc 5 min Q&A)	Dr Chris Taylor DNV-GL	Computational Models in Support of Corrosion Resistant Alloy Design
	15:05 - 15:25 (inc 5 min Q&A)	Dr Julian Wharton University of Southampton	Corrosion-Wear Degradation Mechanisms
	15:25 - 15:45 (inc 5min Q&A)	Dr Erkan Oterkus Strathclyde University	Peridynamic Modelling for Energy Transition Process
	15:45 - 16:15	Prof John Nicholls Cranfield University	High Temperature Cracking in Aerospace Applications
	16:15 - 16:30	Discussion	

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NUCLEAR MATERIALS

22 MARCH 2021 | 13:30 - 15:00

Session	Time	Presenters	Title
Nuclear Materials	13:30 - 13:40	Prof Francis Livens The University of Manchester	Introduction to Royce
	13:40 - 13:50	Prof Martin Jones STFC	Introduction to STFC
	13:50 - 14:35	Prof Francis Livens to introduce	x3 breakouts HTGR – Paul Nevitt Geological Disposal – Claire Corkhill Nuclear Hydrogen – Emma Vernon
	14:35 - 14:50	Dr Paul Nevitt National Nuclear Laboratory Dr Claire Corkhill University of Sheffield Dr Emma Vernon National Nuclear Laboratory	Feedback x3 breakout groups
	14:50 - 14:55	Prof Francis Livens The University of Manchester	Conclusions
	14:55 - 15:00	Prof Martin Jones STFC	Conclusions

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TWO-DIMENSIONAL MATERIALS

22 MARCH 2021 | 13:30 - 17:00

Session	Time	Presenters	Title
Materials Systems for Demanding Environments	13:30 - 13:40	Prof Vladimir Falko The University of Manchester	Welcome and Introduction to Two-dimensional materials research area
Session 1 Chaired by Prof Irina Grigorieva	13:40 – 14:00	Prof Stephan Hofmann University of Cambridge	In-operando electron microscopy and spectroscopy to study growth and stability of atomically thin transition metal dichalcogenide films
	14:00 – 14:20	Dr Cecilia Mattevi Imperial College London	2D materials from synthesis to device
	14:20 – 14:40	Prof Amalia Patane University of Nottingham	Atomically-precise two-dimensional materials at the University of Nottingham
	14:40 – 15:00	Prof Brian Gerardot Heriot-Watt University	Two-Dimensional Quantum Materials at Heriot-Watt University
	15:00 – 15:20	Dr Qian Yang The University of Manchester	Mass Transport through 2-Dimensional Nanocapillaries
	15:20 – 15:30	BREAK	
Session 2 Chaired by Dr Mark Bissett	15:30 – 15:45	Dr Johannes Lischner Imperial College London	Modelling charged defects in two-dimensional materials
	15:45 – 16:00	Dr Robert Menzel University of Leeds	Nanocarbon Aerogels for Applications in Sorption and Catalysis
	16:00 – 16:20	Dr Cristina Valles The University of Manchester	Mechanical reinforcement and multifunctionality in graphene/polymer nanocomposites
	16:20 – 16:40	Prof Rahul Nair The University of Manchester	Science and Technology of 2D Materials based Membranes
	16:40 – 17:00	Prof Andrea Ferrari University of Cambridge	Layered Quantum Materials: A New Platform For The Next Digital Revolution
	17:00	Concluding remarks	

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MATERIALS 4.0

23 MARCH 2021 | 14:00 - 15:00

Session	Time	Presenters	Title
Materials 4.0	14:00 – 14:05	Prof Iain Todd University of Sheffield	Materials 4.0: Data Centric, Materials Discovery, Characterisation and manufacture
	14:05 - 14:15	Prof Magda Titirici Imperial College London	
	14:15 – 14:25	Dr Ben Saunders Rolls Royce	What are the challenges with implementing a Digital Materials future for Safety Critical Aerospace Applications
	14:25 – 14:35	Dr Matt Reed University of Liverpool	Lab Automation for innovation in Materials Chemistry
	14:35 – 15:00		Q&A and discussion with audience

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SUSTAINABLE PLASTICS AND PACKAGING

23 MARCH 2021 | 14:00 - 15:00

Session	Time	Presenters	Title
Sustainable Plastics and Packaging	14:00 – 14:12 (inc 2mins Q&A)	Prof Michael Shaver The University of Manchester	Introduction to the session and Royce's activities on Sustainable Plastics & Packaging
	14:12 – 14:24 (inc 2mins Q&A)	Dr Rachael Rothman The University of Sheffield	Redefining Single Use - A Whole Systems Approach
	14:24 – 14:36 (inc 2mins Q&A)	Dr Colin Kerr Unilever	Unilever's Progress on Plastics
	14:36 – 14:48 (inc 2mins Q&A)	Danielle Purkiss University College London	Compostable plastics: unlocking existing barriers to systems change
	14:48 – 15:00 (inc 2mins Q&A)	Joe Pitcher Mastercard	Mastercard sustainable cards initiative

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DEGRADATION OF STRUCTURAL MATERIALS FOR NET-ZERO

23 MARCH 2021 | 14:00 - 15:00

Session	Time	Presenters	Title
Degradation of Structural Materials for Net-Zero	14:00 – 14:10	Dr Bill Hedges Institute of Corrosion	Introduction to Degradation roadmapping and the approach
	14:10 – 14:20	Dr Laurie Brooking Frazer-Nash Consultancy	Degradation roadmapping survey
	14:20 – 14:30	Chris Lewis BP	Steel Pipelines for CCS & H2
	14:30 – 14:40	Dr Marianne Kilbride Element	Aircraft composites
	14:40 – 14:50		Q&A discussion with audience (facilitated by Bill Hedges)
	14:50 – 15:00	Dr Andrew Bowfield Henry Royce Institute	Progress and Next Steps

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MATERIALS FOR THE HYDROGEN ECONOMY

23 MARCH 2021 | 14:00 - 15:00

Session	Time	Presenters	Title
Materials for the Hydrogen Economy	14:00 – 14:10	Bob Sorrell Independent Consultant	Introduction to the Materials for the Hydrogen Economy session
	14:10 – 14:20	Dr Gareth Williams National Composites Centre	Connected Innovation to Accelerate the Hydrogen Economy
	14:20 – 14:30	Dr Sheetal Handa BP	
	14:30 – 15:00		Q&A and discussion with audience

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MATERIALS FOR FUSION

23 MARCH 2021 | 14:00 - 15:00

Session	Time	Presenters	Title
	14:00 - 14:05	Dr Amanda Quadling UKAEA	Introduction to Materials for Fusion Session
Materials for Fusion	14:05 – 14:25	Dr Richard Pearson Kyoto Fusioneering Dr Amy Gandy The University of Sheffield Dr David Bowden UKAEA Dr David Armstrong University of Oxford	Panel discussion on irradiation resilience and potential fusion metals (steels, alloys)
	14:25 – 14:40	Dr Frank Schoofs UKAEA	UK Fusion Materials Roadmap
	14:40 – 14:55	Dr Monica Jong Dr Andy London	Virtual tour of Materials Research Facility (UKAEA)
	14:55 – 15:00	Dr Amanda Quadling UKAEA	Close out to Materials for Fusion Session