

Manufacture & Materials for Fission & Fusion Net-zero 2025

Programme Timetable

Updated: 11/11/2025 12:19

Start Time	End time	12 November 2025 Millennium Point, Birmingham Location: Curzon Suite
08:00	09:00	Registration Atrium
08:50	09:00	Welcome Address Toby Lant, Conference Chair
09:00	09:20	Daniel Mathers, NIRO Overview of UK R+D for Fission
09:20	09:40	Eleanor Crossley, ONR UK Regulatory Expectations for Manufacturing Components Important for Nuclear Safety - Preparing for Advanced Manufacturing
09:40	10:00	Edward Williamson FIMM & Dr Iwan Grech, Rolls-Royce SMR Materials challenges with SMRs
10:00	10:20	Prof Chris Truman, University of Bristol Reflections on Peter Flewitt's career in the nuclear Industry
10:20	10:45	Networking Break Atrium
10:45	11:05	Martin Marples, Arabelle Solutions Materials challenges outside the nuclear island - ST's
11:05	11:25	Michael Martin, Rolls-Royce Probabilistic assessments for Light Water Reactors
11:25	11:45	Jonathan Duff, University of Manchester, The Henry Royce Institute Stress Corrosion Cracking of Additively Manufactured stainless steel and nickel alloys used for Light Water Reactors
12:05	12:25	Nassia Tzelepi, UKNNL/ JAEA Advanced Modular Reactor system NNL/JAEA
11:45	12:05	Mike Spindler, EDF Are Current High Temperature Design Codes Adequate for new High Temperature Gas Reactors?
14:30	14:50	Luke Howard, University of Birmingham Development of novel alloys, including silicide-strengthened and ferritic superalloys for nuclear
13:50	13:30	Networking Lunch Atrium
13:30	13:50	Amy Gandy, UKAEA A fusion overview of the material challenges to achieve commercial plant
13:50	14:10	Moataz Attallah, Loughborough University Challenges of fabrication of tungsten for nuclear fusion components
14:10	14:30	Sam Holdsworth, TWI Development of copper CoreFlow® friction stir channelling for fusion reactor thermal management
14:30	14:50	Liberato Volpe, UKAEA, Lucideon, PSI, University of Manchester Oxidation and environmentally-assisted cracking behaviour of Eurofer-97 under water-cooled breeder blanket conditions
14:50	15:10	Sophie Jones, Amentum Corrosion of structural materials in liquid lithium
15:10	15:20	Toby Lant, Conference Chair Closing Summary
15:20	16:00	Close of Satellite Conference & Networking Coffee Atrium