



LIVESTREAM



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5TH SEP 2024

An event hosted by the STEP Programme to celebrate the publication of a special edition of the prestigious Royal Society journal, *Philosophical Transactions A*.

With 15 peer-reviewed papers, the special edition represents a significant milestone and innovative development of the STEP Programme, built on strong foundations of world-leading research in the UK, edited by Professor Sir Ian Chapman, Professor Sir Steven Cowley and Professor Howard Wilson.

12.00 – 13.00	Networking lunch
13.00 – 13.10	Introduction: Professor Sir Ian Chapman, CEO, UK Atomic Energy Authority Group
13.10 – 13.30	Context and Compromise: Professor Chris Waldon, STEP Chief Engineer
13.30 – 14.00	Panel 1: Plasma Professor Sir Steven Cowley, Director, Princeton Plasma Physics Laboratory Hendrik Meyer, STEP Product Development Team Leader-Plasma, control, heating and current drive systems Morten Lennholm, Senior Plasma Operations and Control Expert, UKAEA Dr Damian King, Operational Physics Team Leader, UKAEA
14.00 – 14.30	Panel 2: Maintenance, Magnets and Remountable Joints Dr Joe Milnes, Executive Director for Engineering and Computing, STEP Partner, UKAEA Dr Sally Forbes, Fusion Safety Advisor, UKAEA Ezzat Nasar, STEP Confinement Product Lead Chris Lamb, STEP Remountable Joints Product Lead
14.30 – 14.50	Break
14.50 – 15.25	Panel 3: Net Energy, Breeding and Fuel Self-Sufficiency Professor Howard Wilson, Fusion Pilot Plant R&D Lead, ORNL Michael Lord, STEP Fuel Cycle Product Lead Dr. Jenny Cane, STEP Tokamak Machine Product Lead Samuel Knight, Senior Energy Systems Engineer – Commercial Pathway
15.25 – 15.40	Maturing the Design: Debbie Kempton, STEP Director of Engineering
15.40 – 15.50	Impact on Industry: Dennis Whyte, MIT Plasma Science & Fusion Centre Hitachi America Professor of Engineering, Professor, Nuclear Science & Engineering
15.50 – 16.00	Closing: Paul Methven, CEO, UK Industrial Fusion Solutions and Senior Responsible Owner for STEP