



Fusion Business Group

Materials: Applications and Challenges

Wednesday 16 April
Deloitte, Manchester

IMPORTANT INFORMATION

PYOW Dinner

Date: Tuesday 15 April 2025

Location: Akbars, Manchester

Time: 18:30 drinks reception, 19:30 dinner served

Cost: £49.50pp (incl 3-courses, drinks, VAT & service)

ACTIVITY	TIME
Registration	08:45
Welcome & what's been happening in the world of Fusion Materials? <i>Steve Lawler, Deputy Chair of NIA Fusion Group</i> <i>Frazer-Nash Consultancy</i>	09:30
Welcome from Hosts <i>Andy Carel-Maloney, Director</i> <i>Deloitte.</i>	09:55
Setting the Scene Material challenges for the commercialisation of fusion <i>David Malley, Chief Engineer – Civil Nuclear</i> <i>MTC</i>	10:10
UKAEA Materials Division and Materials Research Facility <i>Dr Graham Appleby, Head of Materials Commercial Programme</i> <i>UK Atomic Energy Authority</i>	10:30
TBC	10:50
Break	11:10
Thought Leadership Policy Paper on Manufacturing and the Supply Chain <i>Dr Emily Lewis Nuclear Materials Engineer, Oxford Sigma (on behalf of Alasdair Morrison)</i> <i>Fusion Industry Taskforce (FIT)</i>	11:40
Open Discussion Q&A	12:00
The effects of the changing scrap market on the production of high precision steel for nuclear fusion reactors, in an EAF	12:10

<i>Richard Birley, Group Leader Materials Development and Powder Metallurgy Materials Processing Institute</i>	
Taster session <ul style="list-style-type: none"> • Radiant Nuclear – Jamie East • Evolution Safety Solutions – • Acuity - 	12:30
Lunch & Networking	12:45
Fusion Energy Partners, Unique Expert Technical Advice on Fusion Energy <i>Chris Peters, Managing Director Fusion Energy Partners (FEP)</i>	13:45
Amentum <i>Valentine Kanyanta Amentum</i>	14:00
Advanced materials in fusion and fission Latest and future developments in materials science <i>Prof Christopher Truman, Professor of Solid Mechanics Nicolo Grilli, Lecturer University of Bristol</i>	14:15
Surveillance Scheme Design for Fusion and the Challenges Presented <i>Dr Emily Rose Lewis MEng, Nuclear Materials Engineer, Oxford Sigma Honorary Research Fellow, University of Birmingham School of Metallurgy and Materials</i>	14:30
Arab Fusion Energy Initiative (AFEI) <i>Abdus Saboor Shaik, PhD Nuclear Materials Research at Imperial College London Arab Fusion Energy Initiative (AFEI)</i>	14:45
Wrap up	15:00

Thank you to our hosts

