

# Agenda

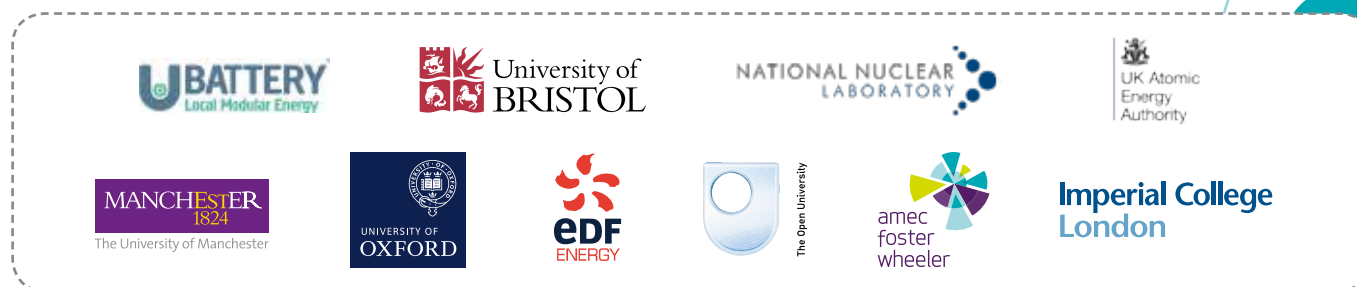
## International Seminar on High Temperature Structural Performance in Power Generation

### Current Knowledge and Future Challenges

#### Monday 19th September 2016

10.30 – 11.30	Arrival and Registration	
11.30 – 11.45	Welcome and Introduction	<i>HTF Alliance</i>
11.45 – 12.15	VIP Address	
12.15 – 12.45	Pushing the Limits: Materials in High Temperature Service	<b>Andrew Sherry</b> <i>HTF Alliance/ National Nuclear Laboratories (NNL)</i>
12.45 – 13.45	Lunch	
13.45 – 14.15	The Vision and Strategy for Deploying Advanced Reactors in the US	<b>Dr John E Kelly</b> <i>Office of Nuclear Energy, US Department of Energy</i>
14.15 – 14.45	Overview of Generation IV materials	<b>Dr Karl-Fredrik Nilsson</b> <i>European Commission DG-JRC, Institute for Energy and Transport</i>
14.45 – 15.15	Break	
15.15 – 15.45	The Current R&D Focus and International Collaboration for Generation IV Materials	<b>Dr Weiju Ren</b> <i>Oak Ridge National Laboratory</i>
15.45 – 16.15	High Temperature Materials Challenges for Generation IV Reactor Systems	<b>Dr Richard Stainsby</b> <i>National Nuclear Laboratories</i>
16.15 – 16.45	High Temperature Structural Integrity Issues in Advanced Gas Cooled Reactors	<b>Dr David Dean</b> <i>HTF Alliance/EDF Energy</i>
16.45 – 17.00	Overview	
17.00 – 18.30	Drinks Reception	

#### High temperature facility alliance members



## Tuesday 20th September 2016

08.50 – 09.05	Day 2 Opening	
09.05 – 09.45	ASTRID Project	<b>Dr Sophie Dubiez Le Goff/ Dr Martine Blat</b> <i>AREVA/EDF</i>
09.45 – 10.15	Material Challenges for Industrial Gas Turbines	<b>Dr Jonathan Wells</b> <i>Siemens Industrial Turbines (Chair of IOM3 high Temperature Materials Committee)</i>
10.15 – 10.45	Break	
10.45 – 11.15	Damage Tolerance of Advanced Power Generating Plant Components	<b>Dr Jonathan Parker</b> <i>EPRI</i>
11.15 – 11.45	The Effects of Changing Market Conditions on Operation of Power Plant and the Impact on Structural Integrity of High Temperature Pipework	<b>Dr Colin Wignall</b> <i>Uniper Technologies Limited</i>
11.45 – 12.15	Graphite in Generation IV High Temperature Reactors	<b>Dr Mo Treifi</b> <i>The University of Manchester</i>
12.15 – 13.15	Lunch	
13.15 – 13.45	Materials and Structural Integrity Issues Related to Fusion	<b>Dr Michael Gorley</b> <i>UK Atomic Energy Authority</i>
13.45 – 14.15	High Temperature Weld Performance	<b>Prof Mike Smith</b> <i>The University of Manchester</i>
14.15 – 14.45	Casting Methods For High Creep Resistance	<b>Prof John Campbell</b> <i>The University of Birmingham</i>
14.45 – 15.15	Break	
15.15 – 15.45	Recent Developments in Testing Methods in High Temperature Liquids and Gases	<b>Prof John Stairmand</b> <i>HTF Alliance/Amec Foster Wheeler</i>
15.45 – 16.15	Advances in High Temperature Testing Techniques	<b>Dr Catrin Davies</b> <i>HTF Alliance/Imperial College London</i>
16.15 – 16.45	A Review of the Changes in Internal State Related to High Temperature Creep of Polycrystalline Metals and Alloys	<b>Dr Bo Chen</b> <i>University of Coventry</i>
16.45 – 17.15	Overview	

## Wednesday 21st September 2016

09.30 – 09.45	Day 3 Opening	
09.45 – 10.15	U-Battery Materials and Structural Integrity Challenges	<b>Dr Paul Harding</b> <i>HTF Alliance/URENCO</i>
10.15 – 10.45	Radiation Damage and High Temperatures - The Role of Recovery	<b>Prof. Karl Whittle</b> <i>University of Liverpool</i>
10.45 – 11.15	Break	
11.15 – 11.45	High Resolution Microstructural Studies of ODS Steels	<b>Prof. Gordon Tatlock</b> <i>University of Liverpool</i>
11.45 – 12.15	Creep Modelling	<b>Dr Hector Basoalto</b> <i>University of Birmingham</i>
12.15 – 12.45	Overview and Closing Remarks	<b>Dr Neil Irvine</b> <i>HTF Alliance/The Dalton Institute, The University of Manchester</i>
12.45 – 16.00	Tour of High Temperature Facility at Birchwood	

**Conference Close**