Agenda

High Temperature Facility Alliance

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

High temperature facility alliance members

U-Battery Local Modular Energy · University of Bristol · National Nuclear Laboratory · UK Atomic Energy Authority · Manchester 1824 The University of Manchester · University of Oxford · EDF Energy · The Open University · amec foster wheeler · Imperial College London

Tuesday 20th September 2016		
08.50 – 09.05	Day 2 Opening	
09.05 – 09.45	ASTRID Project	**Dr Sophie Dubiez Le Goff/ Dr Martine Blat** *AREVA/EDF*
09.45 – 10.15	Material Challenges for Industrial Gas Turbines	**Dr Jonathan Wells** *Siemens Industrial Turbines (Chair of IOM3 high Temperature Materials Committee)*
10.15 – 10.45	Break	
10.45 – 11.15	Damage Tolerance of Advanced Power Generating Plant Components	**Dr Jonathan Parker** *EPRI*
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	**Dr Colin Wignall** *Uniper Technologies Limited*
11.45 – 12.15	Graphite in Generation IV High Temperature Reactors	**Dr Mo Treifi** *The University of Manchester*
12.15 – 13.15	Lunch	
13.15 – 13.45	Materials and Structural Integrity Issues Related to Fusion	**Dr Michael Gorley** *UK Atomic Energy Authority*
13.45 – 14.15	High Temperature Weld Performance	**Prof Mike Smith** *The University of Manchester*
14.15 – 14.45	Casting Methods For High Creep Resistance	**Prof John Campbell** *The University of Birmingham*
14.45 – 15.15	Break	
15.15 – 15.45	Recent Developments in Testing Methods in High Temperature Liquids and Gases	**Prof John Stairmand** *HTF Alliance/Amec Foster Wheeler*
15.45 – 16.15	Advances in High Temperature Testing Techniques	**Dr Catrin Davies** *HTF Alliance/Imperial College London*
16.15 – 16.45	A Review of the Changes in Internal State Related to High Temperature Creep of Polycrystalline Metals and Alloys	**Dr Bo Chen** *University of Coventry*
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	**Dr Paul Harding** *HTF Alliance/URENCO*
10.15 – 10.45	Radiation Damage and High Temperatures - The Role of Recovery	**Prof. Karl Whittle** *University of Liverpool*
10.45 – 11.15	Break	
11.15 – 11.45	High Resolution Microstructural Studies of ODS Steels	**Prof. Gordon Tatlock** *University of Liverpool*
11.45 – 12.15	Creep Modelling	**Dr Hector Basoalto** *University of Birmingham*
12.15 – 12.45	Overview and Closing Remarks	**Dr Neil Irvine** *HTF Alliance/The Dalton Institute, The University of Manchester*
12.45 – 16.00	Tour of High Temperature Facility at Birchwood	
Conference Close		