

The Inaugural Joint UK-US Project on Nuclear Issues Conference

Day One: Tuesday 4 November 2014

0800 Registration and Welcome Coffee

0820 Welcome Remarks

Speakers: **Commodore David Jarvis**, Director, UK Project on Nuclear Issues
Rob Fletcher, Deputy Managing Director, AWE

Keynote: **Rt Hon Sir Malcolm Rifkind MP**, Former UK Defence and Foreign Secretary

0900 **Session One: Strategic Trends**

Chair: **Commodore John MacDonald**, Head CBRN Policy, Ministry of Defence

Speakers: **Justin Bronk**, Research Analyst, Military Sciences, RUSI
How Russia Seeks to 'Outflank' the West on Both Sides of the Military Capability Spectrum

Zachary Hosford, Center for a New American Security
The Effect of Emerging Technologies on Strategic Stability

Kiran Ramsaroop, Senior Guidance, Navigation and Control Engineer, MBDA
Trends in Non-Nuclear Deterrents

Hardik Trivedi, Design Engineer, Technical Directorate, AWE
Cyberwarfare – The Threat of the Future

1045 Morning Coffee

1100 **Session Two: The Nuclear Threat from Non-State Actors**

Chair: **Colonel Mark Neate**, Chief Security Officer, Security & Resilience, Sellafield Ltd

Speakers: **Matthew Cottee**, Research Analyst, International Institute for Strategic Studies
The Threat of Nuclear Terrorism: A Critical Assessment

Sarah Bilson, Former Nuclear Security Officer, IAEA
Establishing sustainable Nuclear Security in Africa

Marie Arrietta, Nuclear Engineer, Sandia National Laboratories
The Limitations of Detection, Border Control, Transfer Networks and Smuggling

1230 Group Photograph

Lunch

Chair: **Dr Clark Murdock**, Director, US Project on Nuclear Issues

Speakers: **Rt Hon Dr Liam Fox MP**, Former UK Defence Secretary

1400 **Session Three: Building Confidence in Non-Proliferation**

Chair: **Professor John Simpson OBE**, Professor of International Relations, University of Southampton

Speakers: **Caroline Cottet**, MA Candidate in Science and Security, Kings College London
The Effectiveness of the NPT for Non-Proliferation

Dominic Williams, Researcher, Project Alpha
UNSCR 1540 and Illicit Nuclear Trade: What Remains to be Done?

Dr Royal Elmore, Los Alamos National Laboratory
Addressing Challenges to Contemporary Non-Proliferation Models and Methods through Bayesian Analysis and Agent-Based Modeling

1530 Afternoon Tea

1600 **Session Four: Building Confidence in Nuclear Disarmament and the NPT**

Chair: **Paul Ingram**, Executive Director, British American Security Information Council

Speakers: **Varinder S. Bola**, Parliamentary Officer, British American Security Information Council
The NPT: Pressures and Opportunities for International Cooperation on Disarmament

Jay Brotz, Senior Systems Engineer, Sandia National Laboratories
Confidence Generation Using Technology-Driven Monitoring and Verification

Tom Plant, Nuclear Treaty Specialist, AWE
Arms Control Verification Research at AWE

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| 1730 | Closing Remarks and Administrative Announcements |
| 1745 | Drinks Reception |
| 1845 | Dinner |
| Chair: | Commodore David Jarvis , Director, UK Project on Nuclear Issues |
| Speaker: | Professor Andrew Randewich , Chief Scientist, AWE |

Day Two: Wednesday 5 November 2014

0900 **Session Five: Future Arms Control Requirements**

Chair: **Ambassador David Boucher**, Former Permanent Representative of the United Kingdom to the Conference on Disarmament

Speakers: **Matthew Fargo**, Assistant Program Manager, CRDF Global
'Prospects for a New START Follow-On Arms Control Treaty'

Hugh Chalmers, Researcher, VERTIC
'Going It Alone: Arms Control by Default?'

Tom Hardwidge, Mechanical Engineer (Hydrodynamics), AWE
'CTBT in an Age of Hydrodynamic Confidence'

1030 Morning Coffee

1100 **Session Six: Nuclear Cooperation**

Chair: **Dr Mike Baker**, Strategic Technologies, UK Ministry of Defence

Speakers: **Martin Lloyd**, Associate, International Network for Emerging Nuclear Specialists
'The Shape of Things to Come: The Manhattan Project's Role in Setting the Tone for Future British-American Relations'

James Mckeon, Scoville Fellow, The Stimson Center
'The US-UK Mutual Defense Agreement'

1230 Lunch and Closing Remarks

1330 **Session Seven: AWE Tours**

Shuttles Depart Wokefield Park Hotel for AWE

1400 AWE Site Visits

1615 Shuttles Return to Wokefield Park Hotel