

Nuclear Security Detection workshop and network launch

STFC Knowledge Exchange Workshop and Launch of the Nuclear Security Science Network

Venue: The Science Museum London

Date: 16 March 2016

The STFC Innovations Club jointly with the STFC Nuclear Security Science Network hosted a **knowledge exchange and network launch event with industry and government agencies on current developments and novel applications of radiation detectors and detection techniques as applied to nuclear security**. Nuclear security continues to be a high priority to the UK's government. For these reasons the STFC Nuclear Security Science Network was set up to promote knowledge exchange and collaboration between academic researcher and stake holders in industry and government agencies. This area requires a highly multidisciplinary approach and effective end-user engagement.

This event was intended for:

- Industry interested to know more about current knowledge exchange and commercialisation opportunities from UK radiation detection community
- All stakeholders and researchers who are interested in participating in the Nuclear Security Sciences network
- Industrial and Government researchers looking for academic partners for specific development projects
- STFC funded researchers working in radiation detectors developments wanting to get more involved in knowledge exchange and the funding available
- Academic researchers from allied fields looking to find partners or develop capability in nuclear detection.

Key topics for this workshop included:

- Radioisotope detection and identification
- Localisation, imaging and tracking
- Detection Technologies and Techniques

The workshop has also launched the STFC Nuclear Security Science Network, and highlighted forthcoming Network meetings for researchers and end-users, including research funding and knowledge exchange opportunities in nuclear security.

Programme

Time	Item	Speaker
10.00	Coffee and registration	



10.30	Welcome and introduction	Prof Paul Sellin Surrey Uni
11.00	Overview of Nuclear Security Detection challenges	Prof Dick Lacey CAST
11.30	Four Academic/Industrial Collaboration Case Studies (15min each)	
	<ul style="list-style-type: none">• Next Generation Portable Neutron Source Detector• Portable Gamma Ray Imaging Spectrometer• Electromagnetic Imaging for Security Applications• A 'Compact' Antineutrino Detector for Safeguards and Reactor Core Monitoring	Dr Antonin Vacheret Oxford Dr Andrew Boston Liverpool Prof Ferruccio Renzoni UCL Dr Jonathon Coleman University of Liverpool
12.30 – 13.30	Lunch and networking	
13.30	End User Requirements and Funding Opportunities	
	<ul style="list-style-type: none">• Funding opportunities from AWE and call for Pilot Projects	Dr Neil Gaspar AWE
14.20	Industrial Support and EU funding Opportunities	Ms Hazel Biggs KTN
14.40	Introduction to CBRN-UK	Mr Chris Abbott Chairman of CBRN-UK
14.55	STFC Funding Opportunities	
	<ul style="list-style-type: none">• Global Challenges Programme• Impact Funding Schemes	Dr Katherine Hollinshead STFC Mr Stephen Loader STFC
15.20	Discussion	Chair: Prof Paul Sellin
	<ul style="list-style-type: none">• Forthcoming Network Meetings• Suggestions for topics for Challenge Meetings and Technical Workshops	
16.00 –	Networking, refreshments and close	