



Nuclear Security Conference 2023



Conference Programme

31st October

Institute of Physics, London

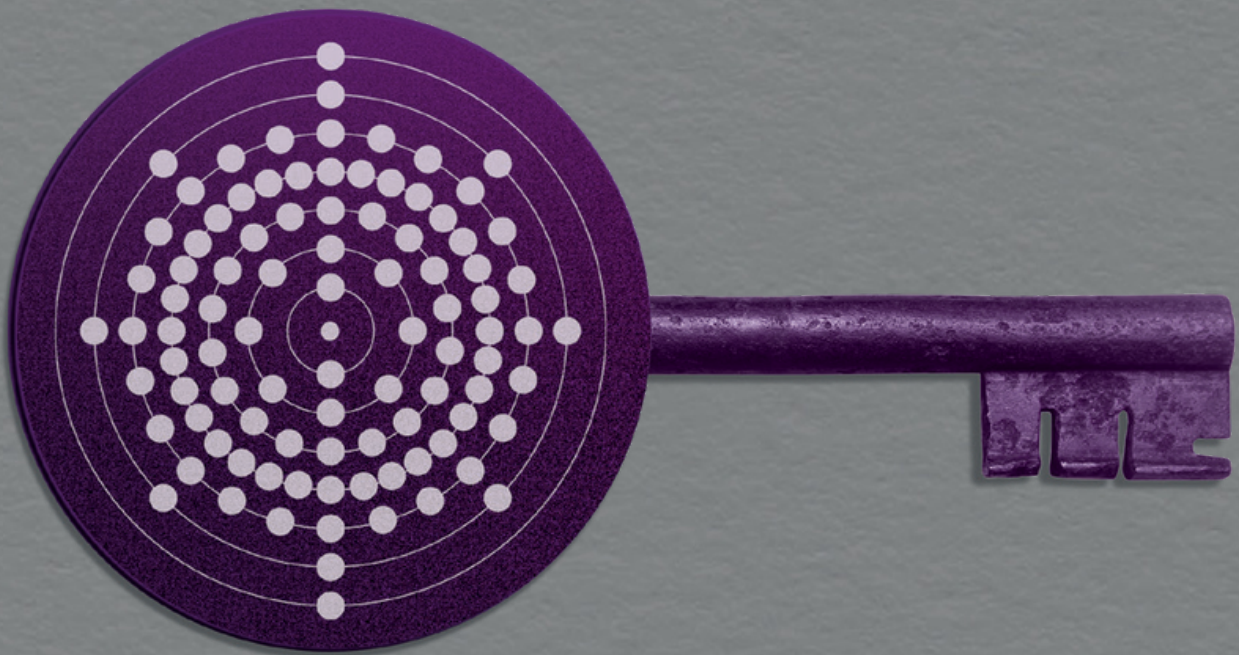
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Security and Non-Proliferation

Facilitating the global deployment of vital nuclear technologies by protecting nuclear materials, sites and technology.



Nuclear Science to Benefit Society

Chair's Welcome

Welcome to the Nuclear Security Conference 2023. After a 4-year absence, I'm delighted to see this event return through the Nuclear Institute Security Special Interest Group.

Volunteers from across the sector have come together to plan this event, with representatives from National Nuclear Laboratory, Nuclear Transport Solutions, Templar Associates, ONR, Sellafield Ltd, Global Nuclear Security Partners and Amport Risk Ltd.

Nuclear remains a key element of the Government's energy and defence strategies, and it has a vision for the nuclear sector that keeps safety and security firmly as its highest priorities. This event is intended to assist those with responsibility for nuclear security in its many forms, and those with roles in its planning and implementation.

Against its evolving challenges and requirements, the nuclear industry has, over the decades, developed and improved its physical and cyber defences and continues to do so. But it doesn't end there; effective defences must be reinforced by an organisational culture that embraces nuclear security, and harness the knowledge and awareness of everyone in the extended nuclear community.

In addition, Attracting, retaining and diversifying the workforce are essential elements of providing the resources at all levels which underpin the safe and secure operations of our nuclear sites across the UK. This is why the Nuclear Institute, as the only professional membership body dedicated to the nuclear sector, organises events like this to promote and further nuclear professionalism throughout the industry.

Today's sessions will focus on the policy and regulatory landscape, challenges, issues and opportunities in the sector, innovation and good practice, plus the skills and capability needs of the sector.

Finally, a big thank you to all the sponsors of our event this year. Their representatives are here today, and will be very pleased to talk to you. I encourage you to take the opportunity to re-connect with fellow professionals, explore the latest advances in nuclear security, and capture the massive growth potential in the industry.

Jeremy Edwards FNucl

Chair of the NI Nuclear Security Special Interest Group and Conference Organising Committee



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Event Partners



Conference Agenda

Time	Agenda Item	Speakers
09.30 - 10.00	<ul style="list-style-type: none"> • Welcome and Introduction • Interactive Engagement Welcome Session 	<ul style="list-style-type: none"> • Jasbir Sidhu • Jeremy Edwards
10.00 - 11.00	<ul style="list-style-type: none"> • Challenges/Issues/Opportunities 1: Civil and Defence nuclear security regulation 	<ul style="list-style-type: none"> • Simon Jessop • Brian Daly
11.30 - 12.30	<ul style="list-style-type: none"> • Challenges/Issues/Opportunities 2 	<ul style="list-style-type: none"> • Simon Johnson • Alan Crowdy • Eddie Marrett
13.30 - 15.00	<ul style="list-style-type: none"> • Innovation and Relevant Good Practice 	<ul style="list-style-type: none"> • Jonathan Price • Tom Eagleton • Jeremy Edwards • Sam Stephens
15.30 - 16.55	<ul style="list-style-type: none"> • SQEP and Skills, Resilient Capability and Capacity 	<ul style="list-style-type: none"> • Dr Paul Martin • Supt. Tim Needham • Megan Clarke • Megan Fearon
16.55 - 17.00	<ul style="list-style-type: none"> • Closing Address 	<ul style="list-style-type: none"> • Jeremy Edwards

17:00 - 19:00 Drinks Reception: all delegates are invited to attend the Drinks Reception to continue discussions and network following the formal conference programme.

10:00 - 11:00

SESSION 1: Welcome and Introductions

Welcome and Introduction

Jasbir Sidhu
Nuclear Institute President
&
CEO, Corporate Risk Associates



Interactive Engagement Welcome Session

Introduction and objectives

Reconnect, introduction to NI Nuclear Security Special Interest Group (SIG)

- Personal introductions to those on your table

Task

- Define your 3 key challenges: word cloud
- Define your 3 key opportunities: word cloud
- Quick reflections and summary

Reflections and Summary

- Objectives from today's conference
- Key aims for engagement in the Nuclear Security SIG

10:00 - 11:00

SESSION 2: Policy and Regulation: Challenges/Issues/Opportunities



Session Chair

Stacy Snook

PhD Researcher, Insider Risk
and Personnel Security
Coventry University

Stacy Snook is a Nuclear Security Professional specialising in insider risk management. Stacy is undertaking a PhD at Coventry University's London-based Protective Security Lab in Vauxhall, focusing on insider risk across Civil Nuclear and wider Critical National Infrastructure (CNI) industries. This involves working closely with industry, academia, and government. Stacy's previous practitioner experience includes 5 years at Sellafield Ltd, mostly spent in Nuclear Security Strategy and Policy, in addition to research projects with EDF Energy and Rolls-Royce. Stacy holds an MSc in the Physics and Technology of Nuclear Reactors (PTNR) from the University of Birmingham and is an Ambassador to the World Institute for Nuclear Security (WINS).



Simon Jessop

Civil Nuclear Security
Policy Lead

Department for
Energy Security and
Net Zero

Simon leads the DESNZ Civil Nuclear Security Policy team which works to ensure the UK's civil nuclear sector has a robust approach to security across all threat vectors - with a particular focus on cyber, physical and increasingly the economic security of the sector. He leads the implementation of the Civil Nuclear Cyber Security Strategy working collaboratively with industry, the regulator and national technical authority to ensure the resilience of the sector in the face of a dynamic cyber threat. Prior to this role, Simon was responsible for Gigawatt Policy looking to develop credible GW-scale nuclear projects to support the UK's energy security and net zero ambitions. Before entering the civil nuclear sector, he has held a range of security focused roles across government focused on investment security, tax compliance, counter-proliferation and organised crime.

Brian is the Head of Profession for Protective Security at the Office for Nuclear Regulation. In addition to his work across the domestic civil nuclear industry, Brian represents the United Kingdom at the IAEA Nuclear Security Guidance Committee and supports elements of the IAEA's international nuclear security training programme.

Before joining ONR, Brian represented the Ministry of Defence on the National Security Review Committee and held senior positions in a variety of security, intelligence and policing roles across Defence.

Brian Daly

Head of Profession for Protective Security

Office for Nuclear Regulation

11:30 - 12:30

SESSION 3: Challenges/Issues/Opportunities 2



Session Chair

Anu Khurmi

Managing Director,
Templar Executives

A skilled and experienced business leader, Anu is Managing Director, Global Services at Templar Executives, an award-winning international Cyber Security company and accredited government supplier.

She works extensively across Governments, CNI and private sectors leveraging Templar's world-class assurance, advisory and training capabilities which includes the Templar Cyber Academy. She is also involved in the development of Templar's Cyber Centre of Excellence based in Morocco, the Cyber Executive MBA with Lancaster University and has recently been elected to the Board of the Society of Maritime Industries.



Alan Crowdy

Authority Lead for
Security and Safeguards

Newcleo

Alan Crowdy serves as the Design Authority Lead for Security and Safeguards at Newcleo, a role where he is instrumental in shaping the security and safety landscape of the organisation.

- Development of Security by Design and Safeguards by Design into the LFR designs;
- Planning and Delivery of the Generic Design Assessment;
- Development of the Security Case and Safeguards Case; and
- Intelligent Customer for Security and Safeguards from within the DA.

11:30 - 12:30

SESSION 3: Challenges/Issues/Opportunities 2



Eddie Marrett

Head of Security and Safeguards

Magnox Ltd.

Eddie is accountable for advising the effective implementation of security measures and for monitoring compliance with relevant policies across Magnox Ltd. He currently directs a multidisciplinary physical security and safeguards team responsible for the current and future integrated security design of the decommissioning nuclear fleet under our authority.

Prior to Magnox Ltd, Eddie was the Head of Security in the UK Civil Nuclear Business and Head of Security and Resilience for the Small Modular Reactor (SMR) Programme. He joined Rolls-Royce in 2014 from EDF Generation, where he spent four years as the Site Head of Security at Sizewell B Power Station.



Simon Johnson

Head of Security

Rolls-Royce SMR

Simon is accountable for responsible for all aspects of security at Rolls Royce SMR. He currently directs a multidisciplinary physical, personnel & cyber security team, which is also responsible for the production of the Security case for the RR SMR Generic Design Assessment.

Prior to moving to RR SMR, Simon worked at Springfields Fuels Limited for over 30 years and was its Head of Security & Nuclear Safeguards for the last 15 years.

13:30 - 15:00

SESSION 4: Innovation and Relevant Good Practice



Session Chair

Dr Robyn Remke

Co-Director, Cyber Security
Executive MBA

Lancaster University

Dr Robyn Remke, is a member of the Department of Entrepreneurship and Strategy in the Lancaster University Management School. A Senior Fellow in the British Higher Education Academy (HEA), Robyn is also the Director of the Full-time MBA Programme and Co-Director of the Cyber Security Executive MBA. Interested in issues around leadership, inclusivity, and organisational culture and change, Robyn works with organisations in a variety of contexts including Higher Education, the NHS, and Police Constabularies, to become more strategic, equitable, and resilient workplaces. Robyn is published in a variety of communication and management journals, and is a co-author of the EFMD report Women in Business Schools – The Gender Gap in European Business Schools.



Jonathan Price OBE

Head of Security

EDF Generation

Jonny joined EDF Generation as the Head of Nuclear Security in September 2013 shortly after leaving the British Army, having been promoted to the rank of Colonel in 2011 and 21 years' service.

He is currently the Head of Nuclear Security in EDF's Technical Services Organisation providing nuclear security governance, oversight and support to all three EDF nuclear licensees throughout the entire nuclear life cycle.

Sam joined Jacobs in 2018, and currently leading the delivery of digital and security services for several major projects within the nuclear sector.

This includes the NWS GDF programme, Hinkley Point C Technical Support Alliance, Sizewell C, U-Battery Advanced Modular Reactor Programme and the Rolls Royce SMR joint collaboration.



Sam Stephens

Head of Security
Consulting

Jacobs

13:30 - 15:00

SESSION 4: Innovation and Relevant Good Practice



Jeremy Edwards

Head of Security Strategy

National Nuclear Laboratory

With over 27 years experience working with the UK NNL, Jeremy leads the development and delivery of the NNL Nuclear Security Strategy responsible for positioning the Lab to support UK Government in delivering its policy objectives and ensuring access to the NNL and wider sector capability.

Since 2006, Jeremy has managed the development and delivery of a nuclear security and threat reduction capability within NNL. He has led capacity-building projects, and contributed to a number of international IAEA TECDOC publications.



Dr Tom Eagleton

Principle Inspector Protective Security
Professional Lead

ONR

Dr. Tom Eagleton is the new head of Innovation and Standards at the UK's Office for Nuclear Regulation (ONR). With a background in science and security, he previously served as the Professional Lead for Protective Security at ONR.

He managed security projects for the UK Home Office, focusing on CBRN equipment and aviation security. Tom has a PhD in materials science, is a Chartered Physicist, and is a member of the Security Institute.

15:30 - 16:55

SESSION 5: SQEP and Skills, Resilient Capability and Capacity



Session Chair

Chris Reid

Sellafield Ltd.

Chris Reid is a security practitioner with 20 years' experience within Sellafield Ltd. During this time he has held various roles, including Protective Security management of Special Nuclear Material and Decommissioning facilities. From 2017 he has worked within Sellafield's Security Strategy and Policy Directorate, providing direction and guidance in the implementation and assurance of Physical Protection Systems, the introduction and delivery of security modelling and simulation, and leading on a full back to basics review of the Sellafield Personnel Security requirements.



Megan Clarke

Nuclear Graduate

Office for Nuclear
Regulation

Megan Clarke is a Nuclear Graduate sponsored by the Office for Nuclear Regulation (ONR) currently seconded to Global Nuclear Security Partners (GNSP). She has a BA in Politics and International Relations and an MA in International Security and Terrorism. During her secondment with the ONR she has helped to assess a Vital Area Identification and will be using her background along with the knowledge and skills learnt during her secondment with ONR to support GNSP on a range of client-facing projects.

Megan's role specifically assesses Sellafield's physical security policies and procedures; with specific knowledge on implementing Physical Protection Systems. She also heads up the organisation's Security and Modelling Simulation capability.

Megan has recently been awarded 'Certified Nuclear Security specialist Professional, (CNSsP) with the World Institute of Nuclear Security (WINS) after successfully completing the WINS Academy in Nuclear Security Programme Management, which has consolidated her achieving Chartered Management accreditation with the Chartered Management Institute.



Megan Fearon

Security Strategy &
Policy Advisor

Sellafield Ltd.

15:30 - 16:55

SESSION 5: SQEP and Skills, Resilient Capability and Capacity



Dr Paul Martin

Security Practitioner

Coventry University and RUSI

Dr Paul Martin CBE is a security practitioner with more than thirty years' experience in the UK national security arena. He has been an independent member of the Nuclear Security Committee for Sellafield since 2016. During a long career in UK government service he held various positions, including heading the Centre for the Protection of National Infrastructure (CPNI, now NPSA) and leading national security preparations for the London 2012 Olympics.



Supt. Tim Needham

Head of the Strategic Escort Group

Civil Nuclear Constabulary

Superintendent Tim Needham has been a member of the Civil Nuclear Constabulary (CNC) for 27 years. Since joining the CNC Tim has undertaken several operational, intelligence and corporate roles including a secondment to a national intelligence unit.

Tim has been the Head of the Strategic Escort Group since 2016 and has been involved in planning and commanding armed escort operations in the UK and internationally. In his early police service Tim was a qualified firearms officer and also part of a specialist response team conducting armed protection and response duties at the Sellafield Nuclear Plant in the UK.



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WHO ARE WE ?

CRA is the integrated risk and safety case specialist. For over 20 years, we have been supporting operational leaders and technical directors working in critical national infrastructure sectors. Our work has seen us supporting projects in the UK, Europe, the Middle East and Asia.

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- o Benchmarking and maturity models
- o Cyber, physical, information, personnel
- o Security culture and climate assessment
- o Security Management System health
- o Security technologies evaluation



RESILIENCE

- o Emergency planning, test and exercise facilitation
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- o Radiation (Emergency Preparedness and Public Information) Regulations (REPPER)
- o Emergency control centre design and evaluation

RAMTrans 2024

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