



Joint Workshop: Nuclear “Error and Terror” Response and Recovery Policies

**Centre for the Study of Existential Risk (CSER),
University of Cambridge, and**

**CBRN Recovery Programme, Department for
Environment Food & Rural Affairs (DEFRA)**

Friday, 1 December 2017, 11:30-20:45, including lunch, coffee and dinner

Venue: Oriel Room, [The Pitt Building](#) (Trumpington Street, Cambridge, CB2 1RP)

Objective: To exchange knowledge between policymakers and experts, including from the University of Cambridge ([CSER](#)) and [DEFRA](#)'s Chemical, Biological, Radiological and Nuclear (CBRN) Recovery Programme, on challenges of and solutions to response and recovery following a deliberate or accidental release of radiological and nuclear material. For such scenarios of nuclear “error and terror”, we will explore emergency planning and preparedness by examining current policies for structural deficiencies, blind spots, and problems of institutional design, scope of responsibility, coordination and risk communication. We will focus on social resilience and off-site recovery (including evacuation and return) rather than on prevention; and on the overall policy landscape rather than on technical specificities. Emphasis will be put on recent lessons from the on-going recovery process in Fukushima, Japan.

Policy relevance: National security; nuclear energy new build; current departmental policy priorities including transposition of the EU Basic Safety Standards Directive; future ministerial priorities; management of risks detailed on the National Risk Register; managing public health and environmental impacts of nuclear incidents.

Format: Executive-summary-style presentations, each followed by equal time for open discussions under Chatham House Rule, unless full confidentiality is necessary at certain points.

Co-chairs: Julius Weitzdörfer, Research Associate, CSER and Affiliated Lecturer, Faculty of Law, University of Cambridge; Dr Dudley Hewlett, Head of CBRN Science & Innovation, Floods, Water & CBRN Emergencies, DEFRA

Invitations to: BEIS, PHE, DCLG, FSA, ONR, Home Office, Cabinet Office, EPA, etc.

Funders: Templeton World Charity Foundation; Hauser-Raspe Foundation (through CSER)

This is an invite-only, free workshop for up to 30 participants. Please confirm attendance with the CSER administrator Jens Steffensen (js2310@cam.ac.uk) by 23/11/17, noon at the latest, adding 1) whether you can also accept our invitation to dinner and 2) whether you have any dietary requirements.

Draft agenda

- 11:30** Arrival and registration at the Pitt Building, Trumpington Street, Cambridge
- 11:45 Lunch**
Second floor
- 12:30 Welcome, round of introductions and outline of the afternoon** J. Weitzdörfer
Oriol Room
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13:00 Session one: Frameworks and perspectives on CBRN risks
Oriol Room

- 13:00 DEFRA: Overview of nuclear recovery approaches at DEFRA D. Hewlett
- 13:10 CSER: Overview of extreme risk research at CSER C. Rhodes
- 13:20 The challenges of planning for nuclear resilience J. Downer
- 13:35 Questions and discussion
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14:00 Session two: Policies for response to nuclear emergencies
Oriol Room

- 14:00 Off-site crisis management, response coordination, evacuation decision-making in the aftermath of the Fukushima accident F. Rövekamp
- 14:15 Comments and questions from civil servants
- 14:30 Discussion
- 14:45 *afternoon tea break*
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15:15 Session three: Policies for economic recovery from nuclear emergencies
Oriol Room

- 15:15 Economic recovery, compensation and return in the wake of the Fukushima accident J. Weitzdörfer
- 15:30 Comments and questions from civil servants
- 15:45 Discussion
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16:00 Session four: Policies for community recovery from nuclear emergencies
Oriol Room

- 16:00 Community recovery, food safety, risk communication and public trust in the wake of the Fukushima accident T. Yamaguchi
- 16:15 Comments and questions from civil servants
- 16:30 Discussion
- 16:45 Next steps – review of immediate and future follow-up actions** D. Hewlett
- 17:15 End of workshop (the venue closes at 17:30)
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- 18:00 Pre-dinner drinks
Maitland Room, West Lodge, Downing College

- 18:45 Dinner**
Maitland Room, West Lodge, Downing College (end of dinner at around 20:45)

Attendees:

Department for Environment Food & Rural Affairs (DEFRA)

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| Georgina Collins | <i>Deputy Director, Floods, Water and CBRN Emergencies</i> |
| Dr Dudley Hewlett | <i>Head of Science & Innovation, CBRN Recovery Programme</i> |
| Rosina Kerswell | <i>Radiological and nuclear hazards lead</i> |
| Christopher Mogg | <i>Environment Agency</i> |
| Dr Robert Spencer | <i>Chair, CBRN Science Advisory Group</i> |
| Stephen Thomas | <i>Head of CBRN Capabilities, UK Government Decontamination service</i> |

Other representatives from the UK civil service

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| John Bentham | <i>Resilience and Emergencies Division, Department of Communities and Local Government</i> |
| Dr Worth Calfee | <i>United States Environmental Protection Agency</i> |
| Helena Charlton | <i>Head of Nuclear Emergency Planning & Response Programme, Department for Business, Energy and Industrial Strategy</i> |
| Dayle Edwards | <i>Nuclear Safety Inspector - Emergency Preparedness & Response / Internal Emergency Preparedness Workstream Lead, Office for Nuclear Regulation</i> |
| Emily Mayhew | <i>Department of Communities and Local Government (no dinner)</i> |
| Dr Anne Nisbet | <i>Radiation Recovery Lead, Radiation Assessments Department, Public Health England</i> |
| Dr Selwyn Runacres | <i>Food Safety Authority</i> |
| Alexandre de Ruvo | <i>Emergency response Group, Centre for Radiation, Chemical and Environmental Hazards, Public Health England</i> |

Centre for the Study of Existential Risk (CSER), University of Cambridge

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| Dr Shahar Avin | <i>Research Associate (physics, cybersecurity)</i> |
| Dr Nikita Chiu | <i>Research Affiliate (nuclear non-proliferation)</i> |
| Prof Kristian Lauta | <i>Visiting Researcher / Copenhagen University (disaster law)</i> |
| Dr Seán Ó hÉigeartaigh | <i>Executive Director</i> |
| Patrick Perillo | <i>Research Assistant / Department of Land Economy (environmental law)</i> |
| Prof Lord Martin Rees | <i>Co-founder</i> |
| Dr Catherine Rhodes | <i>Academic Project Manager (bio-risks)</i> |
| Julius Weitzdörfer | <i>Research Associate (Japanese disaster law and nuclear law)</i> |

Confirmed external experts

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| Emrah Akyuz | <i>School of Earth and Environment, University of Leeds</i> |
| Simon Carroll | <i>Analyst and Regulator, Swedish Radiation Safety Authority</i> |
| Prof Roger Cashmore | <i>Chairman, UK Atomic Energy Authority / University of Oxford</i> |
| Phil Chaffee | <i>Assistant Editor, Nuclear Intelligence Weekly</i> |
| Dr John Downer | <i>Global Insecurities Centre, University of Bristol</i> |
| Ass Prof Jacqueline Lam | <i>Co-Director, Clean Energy and Environment Research Platform</i> |
| Colin Ratcliff | <i>Former Detective Inspector, Thames Valley Police</i> |
| Prof Frank Rövekamp | <i>University of Applied Sciences Ludwigshafen</i> |
| Prof Tom Sauer | <i>University of Antwerp</i> |
| Dr Eugene Schwageraus | <i>Director, MPhil in Nuclear Energy, Department of Engineering</i> |
| Jerry Smith OBE | <i>Consultant, Pool Re / UN weapons inspector</i> |
| Dr Tomiko Yamaguchi | <i>International Christian University Tokyo</i> |

Getting to the Pitt Building, Trumpington Street, Cambridge

By car

- Park and ride: [The Park and Ride system](#) is the easiest and cheapest way of getting into central Cambridge. Parking for up to 18 hours will cost just £1, and the bus into town costs £3.00 from the ticket machine or £3.00 from the driver (please bring exact change- see more on charges [here](#)). [Maddingley Road Park and Ride](#) on Maddingley Road (CB3 0EX) is the closest.
- Within Cambridge: Car parking is limited and expensive in Cambridge, and there is no car parking available at the venue. The nearest public car park is the [Grand Arcade Car Park](#) on Corn Exchange Street, CB2 3QJ. This is just a few minutes' walk. You can find a complete list of car parks on the [Cambridge Council website](#). Do allow extra time for parking since the city is usually busy. You should also be aware that Cambridge centre is largely pedestrianized. To enforce this there are rising barricades, which are not always shown on Sat Navs.

By train (recommended)

- To check train times to Cambridge from stations around the country and buy tickets, see the [National Rail enquiries website](#).
- From London: There are frequent trains from [King's Cross](#) and [Liverpool Street stations](#). The journey takes about an hour. Avoid the slow train that stops at all the stations between London and Cambridge. It takes about 2 hours and you'd be better waiting for the next train, which will get to Cambridge before it!

Taxis (recommended from Cambridge Railway Station)

- You can get a taxi from taxi ranks at Cambridge Railway Station and the bus station (Drummer Street). If you would like to book a taxi, [Panther](#) is a large company. Their contact number is 01223 715 715.

Getting from the Pitt Building to Downing College, Cambridge

On foot (recommended)

- The porter's lodge of Downing College is 10 minutes away on foot. From the Pitt building, please follow Pembroke Street and turn right onto Regent Street, where you will find Downing College's porter's lodge behind an iron gate. Ask the porters for directions to the West Lodge.

Taxis (see above)

Booking accommodation (at participants' own expense)

University rooms

- Affordable, authentic rooms in Cambridge Colleges can be booked directly at www.universityrooms.com.