

# **I**nternational School of Nuclear Law

Online Programme  
23 August-3 September 2021



## ORGANISATION FOR ECONOMIC CO-OPERATION AND DEVELOPMENT

The OECD is a unique forum where the governments of 37 democracies work together to address the economic, social and environmental challenges of globalisation. The OECD is also at the forefront of efforts to understand and to help governments respond to new developments and concerns, such as corporate governance, the information economy and the challenges of an ageing population. The Organisation provides a setting where governments can compare policy experiences, seek answers to common problems, identify good practice and work to co-ordinate domestic and international policies.

The OECD member countries are: Australia, Austria, Belgium, Canada, Chile, Colombia, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Israel, Italy, Japan, Korea, Latvia, Lithuania, Luxembourg, Mexico, the Netherlands, New Zealand, Norway, Poland, Portugal, the Slovak Republic, Slovenia, Spain, Sweden, Switzerland, Turkey, the United Kingdom and the United States. The European Commission takes part in the work of the OECD.

OECD Publishing disseminates widely the results of the Organisation's statistics gathering and research on economic, social and environmental issues, as well as the conventions, guidelines and standards agreed by its members.

## NUCLEAR ENERGY AGENCY

The OECD Nuclear Energy Agency (NEA) was established on 1 February 1958. Current NEA membership consists of 34 countries: Argentina, Australia, Austria, Belgium, Bulgaria, Canada, the Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Japan, Korea, Luxembourg, Mexico, the Netherlands, Norway, Poland, Portugal, Romania, Russia, the Slovak Republic, Slovenia, Spain, Sweden, Switzerland, Turkey, the United Kingdom and the United States. The European Commission also takes part in the work of the Agency.

The mission of the NEA is:

- to assist its member countries in maintaining and further developing, through international co-operation, the scientific, technological and legal bases required for a safe, environmentally sound and economical use of nuclear energy for peaceful purposes;
- to provide authoritative assessments and to forge common understandings on key issues as input to government decisions on nuclear energy policy and to broader OECD analyses in areas such as energy and the sustainable development of low-carbon economies.

Specific areas of competence of the NEA include the safety and regulation of nuclear activities, radioactive waste management, radiological protection, nuclear science, economic and technical analyses of the nuclear fuel cycle, nuclear law and liability, and public information. The NEA Data Bank provides nuclear data and computer program services for participating countries.

This document, as well as any data and map included herein, are without prejudice to the status of or sovereignty over any territory, to the delimitation of international frontiers and boundaries and to the name of any territory, city or area.

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## **UNIVERSITY OF MONTPELLIER**

The University of Montpellier (“UM”) is a direct descendant of the very first university established in 1289 in Montpellier, which offered courses in medicine, law, literature and theology. It is one of the oldest universities in Europe and the oldest medical school still operating in Europe.

A multidisciplinary university, the University of Montpellier is today made up of 17 schools organised into two main complementary fields of study: (1) science, technology, health and (2) law, economics, management. It offers students an opportunity to train in multiple areas in order to meet the needs of tomorrow’s demanding careers by bringing together an extensive community of knowledge, from sciences, technical arts, medicine and environmental sciences, to educational sciences, economics, law and political science.

In addition to the more than 100 bachelors and masters degree programmes offered by UM, the University also offers post-graduate education and training through SFC (*Service de formation continue*). The SFC of the University of Montpellier is also responsible for administering the International School of Nuclear Law with the Nuclear Energy Agency.

# Welcome

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Dear colleagues,

Welcome to the International School of Nuclear Law. We hope that the programme we have designed will exceed your expectations.

The International School of Nuclear Law was established by the Nuclear Energy Agency in co-operation with the University of Montpellier in 2001 and continues to benefit from the support of the International Atomic Energy Agency.

If you have any questions, comments or concerns now or in the future regarding the International School of Nuclear Law, please contact one of us directly.

Thank you for your participation and we hope that you enjoy your time together.

Best regards,

*Ximena Vásquez-  
Maignan*  
Head  
Office of Legal Counsel,  
Nuclear Energy Agency

*Laurence Weil*  
Director of SFC  
University of Montpellier

*Paul Bowden*  
Programme Leader and  
Hon. Professor,  
International Energy and  
Environment Law, The  
Nottingham Law School

# General Information

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## USE OF INFORMATION AND MATERIALS

The information and materials provided during the ISNL is for the exclusive use of the participants and lecturers in the 2021 ISNL programme and cannot be shared with others who have not participated in the 2021 ISNL nor used for any other purpose than for the ISNL, except with the prior agreement of the lecturer.

## TECHNOLOGY PLATFORMS

The live portion of the ISNL will take place on the videoconferencing platform **Zoom**. The weblink for the ISNL will be shared shortly before the programme begins.

The pre-recorded lectures are hosted on the **Panopto** website. Access to Panopto is restricted only to those with a username and password provided by the NEA. The videos are not to be downloaded, shared or viewed with anyone who is not a registered participant in the 2021 ISNL. The videos will only be available during the course and the site decommissioned at the conclusion of the ISNL.

All documents for the 2021 ISNL will be provided on a **password-restricted NEA website**. Access to the NEA 2021 ISNL website is restricted only to those with a username and password provided by the NEA.

Your username and password for the Panopto and NEA 2021 ISNL websites are unique to you and not to be shared with anyone.

## Q&A SESSIONS AND PANEL DISCUSSIONS

While a number of lectures will be presented in video format, all lecturers will join the ISNL live for a Q&A session, panel discussion or both. The 10-minute Q&A sessions will provide an opportunity for participants to ask any question they would like of the lecturers. The panel discussions will take the form of a facilitated dialogue with the ISNL Programme Leader to explore key themes and emphasise important points.

Participants are encouraged to ask their questions directly during the Q&A session but if any participant would like to submit a question in advance for either the Q&A session or a topic for the panel discussion, they may be sent at any time to: [isnl@oecd-nea.org](mailto:isnl@oecd-nea.org).

## PHOTOGRAPHY

Please be aware that screen shots will be taken during the 2021 ISNL programme for promotional use. If you have any concerns about this please inform Patricia Norre.

# Friday 20 August 2021

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## ISNL Welcome Event

13:00 – 13:20	<b>Welcoming and Opening Remarks</b> <i>Ximena Vásquez-Maignan and Paul Bowden</i>
13:20 – 13:40	<b>General Programme Instructions</b> <i>Kimberly Sexton Nick</i>
13:40 – 14:00	Break Out Session #1
14:00 – 14:20	Break Out Session #2
14:20 – 14:40	Break Out Session #3
14:40 – 15:00	<b>Closing Remarks</b> <i>Ximena Vásquez-Maignan and Paul Bowden</i>

# Monday 23 August 2021

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## Introduction to Nuclear Law

### Watch BEFORE Today's Session

#### Lectures

- **The Role of International Institutions: The IAEA**  
*Peri Lynne Johnson*
- **The Role of International Institutions: Euratom**  
*Wolfgang Kilb and Lenka Budinova*
- **History of the International School of Nuclear Law and Introduction to the International Nuclear Law Association**  
*Patrick Reyners*

#### Videos

- [This is the IAEA](#)
- [What is the NEA?](#)

### LIVE Session

13:00 – 13:30	<b>Welcoming and Opening Remarks</b> <i>Ximena Vásquez-Maignan, William D. Magwood, IV, and Paul Bowden</i>
13:30 – 14:30	<b>Introduction to Nuclear Law (and Q&amp;A)</b> <i>Kimberly Sexton Nick</i>
14:30 – 14:40	Break
14:40 – 15:25	<b>The Role of International Institutions: The NEA</b> <i>Ximena Vásquez-Maignan</i>
15:25 – 15:55	<b>Panel Discussion: The Role of International Institutions</b> <i>Lenka Budinova, Peri Lynne Johnson, Wolfgang Kilb, and Ximena Vásquez-Maignan</i>
15:55 – 16:00	<b>Preview and End of Class</b> <i>Paul Bowden</i>

**Tuesday 24 August 2021**

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**Nuclear Fuel Cycle /  
Radiation Protection**

**Watch BEFORE Today's Session**

**Lectures**

- **Nuclear Fuel Cycle and the Development of Nuclear Energy**  
*Diane Cameron*
- **Health Risks of Ionising Radiation**  
*Abel González*
- **International Radiation Protection Institutions: UNSCEAR and the ICRP**  
*Greg Lamarre*

**LIVE Session**

13:00 – 13:30	<b>Radiation Protection for Lawyers</b> <i>Paul Bowden and Abel González</i>
13:30 – 14:00	<b>Question and Answer Session (10 minutes each)</b> <i>Diane Cameron, Abel González, and Greg Lamarre</i>
14:00 – 14:15	Break
14:15 – 15:25	<b>Three Mile Island, Chernobyl and Fukushima: Impacts on Nuclear Law (and Q&amp;A)</b> <i>Stephen G. Burns</i>
15:25 – 15:35	Break
15:35 – 15:50	<b>Introduction of Oversight Case Study and Great Debates Workshop</b> <i>Kimberly Sexton Nick</i>
15:50 – 15:55	<b>Preview and End of Class</b> <i>Paul Bowden</i>



# Wednesday 25 August 2021

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## Nuclear Safety / Regulation and Licensing

### Watch BEFORE Today's Session

#### Lectures

- **Regulating Nuclear Activities**  
*Stephen G. Burns*
- **Licensing Nuclear Activities**  
*Christian Raetzke*
- **Oversight of Nuclear Activities**  
*Kimberly Sexton Nick*

**\*\* To Work on Individually Before Today's Live Session \*\***

Case Study: Oversight of Nuclear Activities

**\*\* Continue Working with Group \*\***

Workshop: The Great Debates

### LIVE Session

13:00 –  
14:10

**The Convention on Nuclear Safety (and Q&A)**  
*Lisa Thiele*

14:10 –  
14:20

Break

14:20 –  
14:50

**Question and Answer Session (10 minutes each)**  
*Stephen G. Burns, Christian Raetzke, and Kimberly Sexton Nick*

14:50 –  
15:30

**Case Study: Oversight of Nuclear Activities**  
*Kimberly Sexton Nick*

15:30 –  
15:35

Break

15:35 –  
16:05

**Panel Discussion: Nuclear Safety**  
*Stephen G. Burns, Christian Raetzke, and Lisa Thiele*

16:05 –  
16:10

**Introduction of Joint Convention Workshop**  
*Kimberly Sexton Nick*

16:10 –  
16:15

**Preview and End of Class**  
*Paul Bowden*

**Thursday 26 August 2021**

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**Environmental Protection /  
Decommissioning / Radioactive Waste Management**

**Watch BEFORE Today's Session**

**Lectures**

- **Regulating Uranium**  
*Lisa Thiele*
- **Radioactive Waste Management and Decommissioning**  
*Rebecca Tadesse*
- **The Joint Convention on the Safety of Spent Fuel Management and on the Safety of Radioactive Waste Management**  
*Wolfram Tonhauser*

**Video**

- [Radioactive Waste – The Journey to Disposal](#)

**\*\* Continue Working on with Group Before Today's Live Session \*\***

Workshop: The Great Debates

**\*\* Continue Working with Group \*\***

Workshop: Mock Joint Convention Review Meeting

**LIVE Session**

13:00 – 14:10	<b>Environmental Law and Nuclear Activities (and Q&amp;A)</b> <i>Paul Bowden and Kimberly Sexton Nick</i>
14:10 – 14:20	Break
14:20 – 14:50	<b>Question and Answer Session (10 minutes each)</b> <i>Lisa Thiele, Rebecca Tadesse, and Wolfram Tonhauser</i>
14:50 – 14:55	Break
14:55 – 16:05	<b>Workshop: The Great Debates</b> <i>Stephen G. Burns, Christian Raetzke, and Lisa Thiele</i>
16:05 – 16:10	<b>Preview and End of Class</b> <i>Paul Bowden</i>

# Friday 27 August 2021

## Decommissioning / Spent Fuel & Radioactive Waste Management / Transport

### Watch BEFORE Today's Session

#### Lectures

- **The Code of Conduct on the Safety and Security of Radioactive Sources**  
*Stephen Evans*
- **International Regulatory Framework Governing the Safe & Secure Transport of Nuclear and Radiological Materials**  
*Guenther Schwarz*
- **Transport in Practice**  
*Khalil Bukhari*

#### Video

- [The Legacy of Goiania: Radioactive Source Accident](#)

**\*\* Continue Working with Group Before Today's Live Session \*\***

Workshop: Mock Joint Convention Review Meeting

### LIVE Session

13:00 – 14:10	<b>Licensing and Regulation of Decommissioning and Spent Fuel and Radioactive Waste Management (and Q&amp;A)</b> <i>Christian Raetzke</i>
14:10 – 14:20	Break
14:20 – 15:35	<b>Workshop: Mock Joint Convention Review Meeting</b> <i>Wolfram Tonhauser</i>
15:35 – 15:40	Break
15:40 – 15:50	<b>Question and Answer Session</b> <i>Stephen Evans</i>
15:40 – 16:10	<b>Panel Discussion: Decommissioning, Spent Fuel and Radioactive Waste Management</b> <i>Christian Raetzke, Rebecca Tadesse, and Wolfram Tonhauser</i>
16:10- 16:15	<b>Preview and End of Classes</b> <i>Paul Bowden</i>

**Monday 30 August 2021**

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**Transport /  
Nuclear Security**

**Watch BEFORE Today's Session**

**Lectures**

- **Physical Protection and Illicit Trafficking of Nuclear Materials**  
*Sonia Drobysz*
- **The Global Legal Framework Against Nuclear Terrorism**  
*Walter Gehr*

**Videos**

- [The Safe and Secure Transport of Radioactive Material](#) (links to FR, RU, ES, and AR versions of video on ISNL website)
- [#7 The Regulatory Framework for the Safe Transport of Radioactive Material](#)

**LIVE Session**

13:00 – 14:00	<b>Keynote Address and Q&amp;A</b> <i>Director-General William D. Magwood, IV</i>
14:00 – 14:10	Break
14:10 – 14:50	<b>Question and Answer Session (10 minutes each)</b> <i>Guenther Schwarz, Khalil Bukhari, Sonia Drobysz, and Walter Gehr</i>
14:50 – 15:00	Break
15:00 – 15:50	<b>Open Forum / Teaching Session</b> <i>Paul Bowden and Kimberly Sexton Nick</i>
15:50 – 15:55	<b>Introduction of Case Study</b> <i>Cristian de Francia</i>
15:55 – 16:00	<b>Preview and End of Classes</b> <i>Paul Bowden</i>

# Tuesday 31 August 2021

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## Non-Proliferation / Safeguards

### Watch BEFORE Today's Session

#### Lectures

- **Systems of Security Control: The IAEA Safeguards System**  
*Cristian de Francia*
- **Comprehensive Nuclear-Test-Ban Treaty**  
*Xiaodong Yang*

#### Video (optional)

- ["1945-1998" By Isao Hashimoto](#)

**\*\* To Work on Individually Before Today's Live Session \*\***  
Case Study: The IAEA Safeguards System

### LIVE Session

13:00 – 14:00	<b>Treaty on the Non-Proliferation of Nuclear Weapons</b> <i>Laura Rockwood</i>
14:00 – 14:30	<b>Question and Answer Session (10 minutes each)</b> <i>Cristian de Francia, Laura Rockwood, and Xiaodong Yang</i>
14:30 – 14:40	Break
14:40 – 15:40	<b>Case Study: The IAEA Safeguards System</b> <i>Cristian de Francia</i>
15:40 – 15:45	Break
15:45 – 16:15	<b>Panel Discussion: Nuclear Security and Safeguards</b> <i>Cristian de Francia, Sonia Drobysz, Walter Gehr, and Xiaodong Yang</i>
16:15 – 16:20	<b>Preview and End of Classes</b> <i>Paul Bowden</i>

# Wednesday 1 September 2021

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## Liability and Compensation / Insurance

### Watch BEFORE Today's Session

#### Lectures

- **Insurance of Nuclear Risks**  
*Mark Tetley*
- **Nuclear Liability in Practice**  
*Ximena Vásquez-Maignan*

### LIVE Session

13:00 – 14:10	<b>Liability and Compensation for Nuclear Damage</b> <i>Julia Schwartz</i>
14:10 – 14:30	<b>Question and Answer Session (10 minutes each)</b> <i>Julia Schwartz and Ximena Vásquez-Maignan</i>
14:30 – 14:40	Break
14:40 – 14:50	<b>Question and Answer Session (10 minutes)</b> <i>Mark Tetley</i>
14:50 – 15:20	<b>Panel Discussion: Nuclear Liability and Compensation + Insurance of Nuclear Risks</b> <i>William Fork, Ákos Frank, Julia Schwartz, Mark Tetley, and Ximena Vásquez-Maignan</i>
15:20 – 15:30	<b>Introduction of Nuclear Liability Workshop</b> <i>Ximena Vásquez-Maignan</i>
15:30 – 15:35	Break
15:35 – 16:00	<b>Diploma Requirements</b> <i>Kimberly Sexton Nick</i>
16:00 – 16:05	<b>Preview and End of Classes</b> <i>Paul Bowden</i>

Thursday 2 September 2021

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**Liability and Compensation / International Trade /  
Project Development**

**Watch BEFORE Today's Session**

**Lecture**

- **International Nuclear Trade Control**  
*Quentin Michel*

**\*\* To Work on with Group Before Today's Live Session \*\***  
Workshop: Nuclear Liability

**LIVE Session**

13:00 – 14:00	<b>Workshop: Nuclear Liability</b> <i>Julia Schwartz and Ximena Vásquez-Maignan</i>
14:00 – 14:10	Break
14:10 – 15:40	<b>Nuclear Project Development: Contracting Issues in Context</b> <i>William Fork and Ákos Frank</i>
15:40 – 15:45	Break
15:45 – 16:05	<b>Question and Answer Session (10 minutes each)</b> <i>Quentin Michel, William Fork and Ákos Frank</i>
16:05 – 16:10	<b>Introduction of Keys to International Nuclear Law Discussion</b> <i>Kimberly Sexton Nick</i>
16:10 – 16:15	<b>Preview and End of Classes</b> <i>Paul Bowden</i>

# Friday 3 September 2021

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## Current Issues in International Nuclear Law

### Watch BEFORE Today's Session

#### Lectures

- **Nuclear Energy in the United Arab Emirates**  
*Noora Al Murry and Carey Fleming*
- **Nuclear Energy in China**  
*Chen Gang*

**\*\* To Work on with Group Before Today's Live Session \*\***

Discussion: Keys to International Nuclear Law

### LIVE Session

13:00 –  
14:00

**Nuclear Energy Today, Tomorrow and in the Future (and Q&A)**

*Mark Foy*

14:00 –  
14:10

Break

14:10 –  
14:30

**Question and Answer Session**

*Noora Al Murry and Carey Fleming*

14:30 –  
15:30

**Discussion: Keys to International Nuclear Law**

*Paul Bowden and Kimberly Sexton Nick*

15:30 –  
16:00

**Closing of the Programme**

*University of Montpellier, Ximena Vásquez-Maignan, and Paul Bowden*