

# Nuclear and Radiation Studies Board

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## PUBLIC AGENDA

[Keck Center \(Room 201\), 500 5th Street NW, Washington, DC 20001](#)

[Event Page](#) | [Event Registration](#)

May 15-16, 2025

(Updated May 19, 2025)

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### THURSDAY, MAY 15 Day 1 | Open Session 1

9:00 AM – 9:05 AM

#### **Welcome and opening remarks**

*Will Tobey*, Nuclear and Radiation Studies Board (NRSB) Chair

9:05 AM – 10:30 AM

#### **Advancements and Limitations in Low Dose Research**

The panel will focus on current limitations in determining low dose health effects, link between risk projections and risk management, and ways to draw upon recent publications to keep the conversation going following the 2022 NASEM report, [Leveraging Advances in Modern Science to Revitalize Low-Dose Radiation Research in the United States](#).

[Simon Bouffler](#), UK Health Security Agency

[Michael Hauptmann](#), MHB Fontane, Germany

[David Richardson](#), University of California, Irvine

Moderators: *Amy Berrington*, NRSB Vice Chair, and *Julian Preston*, NRSB Member

10:30 AM – 10:40 AM

#### **Break (10 minutes)**

10:40 AM – 12:10 PM

#### **Implications of Attacks on Commercial Nuclear Reactors**

The military threats to Ukrainian nuclear power plants as well as the Chernobyl shelter have raised renewed concerns about the vulnerability of these systems. However, these are not new threats. Military attacks against nuclear reactors and related facilities have occurred for decades. These threats can include military occupations, kinetic explosives, or cyber-attacks. Potentially even more concerning is how an attack “could be a smoke screen for wider conflict,” as discussed in a recent *Bulletin of the Atomic Scientists* [article](#).

[Henry Sokolski](#), Nonproliferation Policy Education Center

*Shaun Burnie*, Greenpeace Ukraine

[Tim Roxey](#), Eclectic Technology

Moderator: *Will Tobey*, NRSB Chair

**12:10 AM – 1:10 PM**

**Break for lunch (1 hour)**

**1:10 PM – 2:20 PM**

**Innovative Programs for DOE-EM**

ALTEMIS, a multi-laboratory, multi-entity collaborative project is being developed to detect soil and groundwater contamination at waste disposal facilities. The Consortium for Risk Evaluation with Stakeholder Participation (CRESP) is focused training the next generation of nuclear waste management professionals with critical skills in managing cost, risk, and administration of U.S. nuclear weapons production sites. This panel will discuss the needs of the EM sites in the coming years.

[Haruko Wainwright](#), Massachusetts Institute of Technology  
[David Kosson](#), Vanderbilt University

Moderator: *Monica Regalbuto*, NRSB Member

**2:20 PM**

**Adjourn Open Session 1**

*Will Tobey*

**FRIDAY, MAY 16**

**Day 2 | Open Session 2**

**9:00 AM – 9:02 AM**

**Welcome to Open Session 2**

*Will Tobey, Amy Berrington, and Charles Ferguson*

**9:02 AM – 9:40 AM**

**Proposing a Simple Radiation Scale for the Public: RAdiation INdex (RAIN)**

Experts from the Republic of Korea have proposed a new radiation index (RAIN). RAIN is designed “to put the general public at ease with the concept of radiation. RAIN is defined in dimensionless numbers that relate any specific radiation dose to a properly defined reference level. As RAIN is expressed in plain numbers without an attached scientific unit, the public will feel comfortable with its friendly look, which in turn should help them understand radiation dose levels easily and allay their anxieties about radiation,” according to a [peer reviewed scientific article](#) by the Korean research team.

[Gyuseong Cho](#), Korea Advanced Institute of Science and Technology (KAIST), and *Jong Hyun Kim*, KAIST/EPRI (retired)

Remarks from *Dan Fenstermacher*, formerly of the U.S. Department of State’s Bureau of International Security and Nonproliferation-Office of Nuclear Energy, Safety and Security (retired)

Moderator: *Paul Dickman*, NRSB Member

**9:40 AM**

**Closing remarks and adjourn Open Session 2**

*Will Tobey, Amy Berrington, and Charles Ferguson*