

Monday, March 25, 2024

Opening Session

8:10 am **Presentation of the Colors**
Joint Armed Forces Honor Guard from
the Military District of Washington, DC

Singing of the National Anthem
Kimberly Jordan
U.S. Nuclear Regulatory Commission

8:15 am **NCRP Welcome**
Kathryn D. Held
President, NCRP

8:20 am **Introduction**
William E. Kennedy, Jr., *Program Chair*
Willie O. Harris & Kathryn A. Higley,
Program Co-Chairs

Twentieth Annual Warren K. Sinclair Keynote Address

8:30 am **Introduction of the Speaker**
Kathryn D. Held

**U.S. Department of Energy, Office of
Nuclear Energy Advanced Reactor
Research, Design, Development and
Demonstration**
Kathryn D. Huff
U.S. Department of Energy

Advanced and Small Modular Reactors Technology Overview: Part 1

William E. Kennedy, Jr., *Session Chair*

9:00 am **Radiation Protection Professional's
Guide to Nuclear Reactors**
Kathryn A. Higley
Oregon State University

9:20 am **Advanced Reactors: Implications for
EPA's Fuel-Cycle Standards**
Daniel Schultheisz
U.S. Environmental Protection Agency

9:40 am **Small Modular Reactors, Advanced
Reactors, and Other Nuclear
Technologies: State Perspectives**
Jeffrey D. Semancik
*Conference of Radiation Control
Program Directors*

10:00 am **Break**

Advanced and Small Modular Reactors Technology Overview: Part 2

Wesley E. Bolch & Ruth E. McBurney,
Session Co-Chairs

10:20 am **Space Nuclear Reactor Commonalities
with Advanced and Small Modular
Reactors**
Michael G. Houts
*National Aeronautics and Space
Administration*

10:40 am **Natrium[®] Technology Overview**
Jesse Cheatham
TerraPower

11:00 am **Technology Overview of Fluoride Salt
Cooled High-Temperature Reactors**
Per F. Peterson
Kairos Power

11:20 am **Auora Powerhouse: A New Reactor
Design**
Everett L. Redmond, II
Oklo, Inc.

11:40 am **Interactive Q&A**

12:00 pm **Lunch**

Advanced and Small Modular Reactor Critical Issues: Part 1

Richard R. Brey & Kathryn A. Higley,
Session Co-Chairs

- 1:30 pm **NuScale VOYGR Small Modular Reactor Emergency Planning Zone Methodology Overview**
Steven M. Mirsky
NuScale
- 1:50 pm **New Perspective on Nuclear Regulation: Insights from Aviation's Hazard Threshold**
Bret Kugelmass
Last Energy
- 2:10 pm **Changing Paradigms: Meeting Radiological Survey Requirements with Robotics**
Matt Mahowald
X-Energy
- 2:30 pm **Future of Nuclear in the Pacific Northwest**
Gregory V. Cullen
Energy Northwest
- 2:50 pm **Economics of Nuclear Reactors: Large and Small**
Abdalla Abou-Jaoude
Idaho National Laboratory
- 3:10 pm **Key Findings of the National Academy of Engineering Study "Laying the Foundation for New and Advanced Nuclear Reactors in the United States"**
Michael Ford
Princeton Plasma Physics Laboratory
- 3:30 pm **Oklo: Fast Reactors and Recycling**
Everett L. Redmond, II
Oklo, Inc.
- 3:50 pm **Radiation Protection Considerations for Small Mobile Nuclear Reactors**
Jama D. VanHorne-Sealy
U.S. Army

4:10 pm **Interactive Q&A**

4:30 pm **Break**

Forty-Seventh Lauriston S. Taylor Lecture on Radiation Protection and Measurements

5:00 pm **Introduction of the Lecturer**
William E. Kennedy, Jr.

Lessons from the Fukushima Daiichi Accident
Richard A. Meserve
Covington & Burling, LLP

6:00 pm **Reception**

Tuesday, March 26, 2024

8:00 am **NCRP Annual Business Meeting**

9:30 am **Break**

Seventh Thomas S. Tenforde Topical Lecture

9:45 am **Introduction of the Lecturer**
Cynthia G. Jones

Embracing Risk-Informed Thinking at the Nuclear Regulatory Commission
Christopher T. Hanson
U.S. Nuclear Regulatory Commission

Advanced and Small Modular Reactor Critical Issues: Part 2

Willie O. Harris & Cynthia G. Jones, *Session Co-Chairs*

10:15 am **Radiological Emergency Preparedness: How Risk-Informed Regulation Prepares Us for the Future**
Todd R. Smith
U.S. Nuclear Regulatory Commission



Summary

- 10:35 am **How do Advanced and Small Modular Reactors Affect the Environmental Impacts of Nuclear Energy**
Jessica R. Lovering
Good Energy Collective
- 10:55 am **Operational Radiation Protection for Small Modular Reactors**
John Duhig
Ontario Power Generation
- 11:15 am **Radiation Protection Aspects for Advanced Reactors**
David Perkins
Electric Power Research Institute
- 11:35 am **Closing Panel Discussion**
Cynthia G. Jones, *Moderator*
- 12:00 pm **Wrap-Up**
William E. Kennedy, Jr., *Program Chair*
- 12:10 pm **NCRP Vision for the Future and Program Area Committee Activities**
Kathryn A. Higley
President Nominate
- 12:30 pm **Adjourn**