

## Monday, March 25, 2024

### Opening Session

- 8:10 am **Presentation of the Colors**  
Coast Guard Color Guard
- 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 **Sodium<sup>®</sup> 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

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- 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*  
Jesse Cheatham  
Michael Ford  
Kathryn A. Higley  
Michael G. Houts  
Bret Kugelmass
- 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**