

2024 Workshop on Nuclear-Environmental Engineering & Science Education

AGENDA

Workshop on Nuclear-Environmental Engineering and Science Education

WEDNESDAY, JULY 31

5:00 pm – 7:00 pm **Opening Reception**

THURSDAY, AUGUST 1

7:30 am – 8:00 am **Registration and Refreshments**

8:00 am – 8:45 am **Opening Remarks**

Krish Roy, Dean, Vanderbilt School of Engineering

David Salyers, Commissioner, Tennessee Department of Environment and Conservation & Chair, Tennessee Nuclear Energy Advisory Council

8:45 am – 9:00 am Review of Agenda and Other Announcements

9:00 am – 10:15 am **Panel Discussion: How Should Educators Meet the Needs of Governmental and Industrial Partners?**

Lori Brady, Senior Director, Human Resources and Training and Development, Nuclear Energy Institute

John Eschenberg (invited), President, Central Plateau Cleanup Company

Amanda Kolling, Assistant Director, Natural Resources and Environment, Government Accountability Office

Laura Wilkerson, Chief Engineer, DOE Oak Ridge Office of Environmental Management

Greg Young, Deputy Commissioner, Tennessee Department of Environment and Conservation

Facilitator: David Kosson, Distinguished Professor of Engineering, Vanderbilt University

10:15 am – 10:30 am **Break**

10:30 am – 11:45 am **Panel Discussion: Socio-Technical Competencies Needed to Support the Nuclear-Environmental Industry**

Olivia Blackmon, Director, STEM Accelerator, Oak Ridge Associated Universities

Brandon Chisholm, Advanced Nuclear Research & Development Engineer, Southern Company

Kristen Ellis, Associate Principal Deputy Assistant Secretary, Office of Regulatory & Policy Affairs, DOE Office of Environmental Management

Paul Gubanc, Chief Nuclear Safety Officer, Amentum

Aditi Verma, Assistant Professor, Nuclear Engineering and
Radiological Sciences, University of Michigan
Facilitator: Dr. Haruko Wainwright, Assistant Professor, Department
of Nuclear Science and Engineering, Massachusetts Institute of
Technology

11:45 am – 12:15 pm

Group Activity: Part I – Review Results of Pre-screening Survey:
Assessing Socio-Technical Competencies

12:15 pm – 1:00 pm

Lunch (provided)

Guest Speakers: Dana Kirkham, Senior Director, Regulatory & Strategic
Affairs, Idaho Environmental Coalition

Kathy Araujo, Director of CAES Energy Policy Institute
and Professor of Sustainable Energy Systems,
Innovation, and Policy, Boise State University

1:00 pm – 2:00 pm

Group Activity: Part I Continued – Discuss Results of Pre-screening
Survey: Assessing Socio-Technical Competencies

2:00 pm – 2:45 pm

Group Activity: Part II – Take New Survey Based on Group Discussion

2:45 pm – 3:15 pm

Break and Tallying of Survey Results

3:15 pm – 4:00 pm

Group Activity: Part III – Review and Discuss Revised Survey Results:
Assessing Socio-Technical Competencies

6:00 pm

Dinner

Opening Speaker: Padma Raghavan, Vice Provost for Research and
Innovation and Chief Research Officer, Vanderbilt University

Introduction of Guest Speaker: Connie Flohr, Senior Vice President,
Navarro Research and Engineering

Guest Speaker: Joyce Connery, Chair, Defense Nuclear Facilities Safety
Board

FRIDAY, AUGUST 2

7:45 am – 8:00 am

Refreshments

8:00 am – 8:15 am

Summary of Day 1 Activities, and Review of Day 2 Agenda

8:15 am – 9:30 am

Panel Discussion: How to Engage and Attract Students to the Nuclear-
Environmental Field of Study

Sarah Donaher, Clemson Graduate, UT-Knoxville
Brennan Fergusson, Clemson Graduate, U. of Georgia
Dauren Sarsenbayev, Graduate Student, MIT
Autumn Taylor, Graduate Student, Vanderbilt
Cooper Tillman, Graduate Student, Clemson

Facilitator: Dr. Brian Powell, Fjeld Professor in Nuclear Environmental Engineering and Science, Clemson University

9:30 am – 9:45 am

Break

9:45 am – 11:00 am

Panel Discussion: Technical Competencies Needed to Support the Nuclear-Environmental Industry

Sven Bader, Technical Consultant, Orano Federal Services
Lyndsey Fyffe, General Engineer, DOE Office of Nuclear Safety Basis and Facility Design

Brenda Hawks, Acting Deputy Assistant Secretary, Office of Safety, Security & Quality Assurance, DOE Office of Environmental Management

Dan Moneghan, Technical Leader, Nuclear Design and Fuel Cycle, Electric Power Research Inst.

Scott Morris, Deputy Executive Director for Operations, Nuclear Regulatory Commission

Facilitator: Dr. Steve Krahn, Professor of the Practice of Nuclear Environmental Engineering, Vanderbilt University

11:00 am – 11:30 am

Group Activity: Part I – Review Results of Pre-screening Survey: Assessing Technical Competencies

11:30 am – 12:15 pm

Lunch (provided)

Guest Speakers: Sonya Johnson, Manager of Communications, Community, Diversity and Workforce Development Programs, United Cleanup Oak Ridge

Joe Stainback, Director, Nuclear Technology Program, Roane State Community College

12:15 pm – 1:15 pm

Group Activity: Part I Continued – Discuss Results of Pre-screening Survey: Assessing Technical Competencies

1:15 pm – 2:00 pm

Group Activity: Part II – Take New Survey Based on Group Discussion

2:00 pm – 2:30 pm

Break and Tallying of Survey Results

2:30 pm – 3:15 pm

Group Activity: Part III – Review and Discuss Revised Survey Results: Assessing Technical Competencies

3:15 pm – 3:30 pm

Next Steps and Meeting Wrap-up