



**74th Annual Meeting of the ORAU Council of Sponsoring
Institutions
March 4-6, 2019**

**Pollard Technology Conference Center, Oak Ridge, Tennessee
*Ensuring A Robust U.S. Energy Future***



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Monday, March 4, 2019 – Doubletree Hotel

4:00 – 7:00 p.m. Registration – Hotel Lobby

4:30 – 5:30 p.m. Leveraging ORAU Membership Session – Salon A & B

Tuesday, March 5, 2019 – Pollard Technology Conference Center

**7:30 – 8:30 a.m. Registration and Continental Breakfast – Pollard Lobby
Networking Opportunity**

8:30 – 8:40 a.m. Opening Remarks

- Andy Page, President and CEO, ORAU
- Arlene Garrison, Vice President, University Partnerships

8:40 – 8:45 a.m. Introduction of Keynote Speaker

- Andy Page, President and CEO, ORAU

8:45 – 9:30 a.m. Keynote Address

Clean Energy: Technology, Policy and Finance, Dan Reicher, Executive Director, Steyer-Taylor Center for Energy Policy and Finance, Stanford University

9:30 – 9:45 a.m. Keynote Q&A

9:45 – 10:05 a.m. Break

10:05 – 11:35 Panel Session 1: CO₂ Capture

Purpose: R&D activities to reduce the cost of carbon capture, storage and utilization.

Moderator: Wanda Gamble, Vice President, Business Development, ORAU

Panel Speakers

An Overview of DOE's Office of Fossil Energy Carbon Capture Program, Lynn Brickett, Manager, Carbon Capture and Carbon Use and Reuse R&D Technology, National Energy Technology Laboratory, U.S. Department of Energy

Air Capture and the Need for Negative Emissions, Klaus Lackner, Director, Center for Negative Carbon Emissions, Arizona State University

Deployment of Subsurface Carbon Sequestration with and without EOR: Challenges and Lessons Learned, Brian McPherson, Professor, Civil and Environmental Engineering, University of Utah; and Science Director, DOE Southwest Regional Partnership on Carbon Sequestration

11:35 – 12:00 p.m. Panel Q & A

12:00 – 1:15 p.m. Lunch – Pollard Lobby
Networking Opportunity

1:15 – 2:45 p.m. Panel Session 2: Environmental Impacts

Purpose: Critical issues in meeting the energy and environmental challenges

Moderator: Donna Cragle, Senior Vice President and Director, Health, Environment and Radiation Management, ORAU

Panel Speakers

Understanding the Health, Environmental, and Climate Change Consequences of Different Energy Technology Strategies in the United States, Inês M.L. Azevedo, Professor, Engineering and Public Policy; and Co-Director, Center for Climate and Energy Decision Making, Carnegie Mellon University

Research Priorities for Understanding Potential Population-Level Exposures to Unconventional Oil and Natural Gas Development, George M. Hornberger, Distinguished Professor and Director, Institute for Energy and Environment, Vanderbilt University

Chemical Looping Combustion, Gasification and Reforming Technology and CO₂ Capture, Liang-Shih Fan, Distinguished University Professor, Ohio State University

2:45 – 3:05 p.m. Panel Q & A

3:05 – 3:25 p.m. Break

3:25 – 4:45 p.m. ORAU President and Council Leadership Update/Business Meeting – Pollard Auditorium (all attendees invited)

5:30 – 6:15 p.m. Reception – Doubletree Hotel, Oak Ridge Ballroom
Networking Opportunity

6:15 – 7:00 p.m. Dinner – Oak Ridge Ballroom

Wednesday, March 6, 2019 – Pollard Technology Conference Center

7:30 – 8:30 a.m. Continental Breakfast
Networking Opportunity

8:30 – 8:35 a.m. Opening Remarks
▪ Arlene Garrison, Ph.D., Vice President, University Partnerships

8:35 – 8:50 a.m. Comments by Member Institution Representatives

8:50 – 8:55 a.m. Introduction of Keynote Speaker
▪ Eric Abelquist, Executive Vice President & Chief Research Officer

8:55 – 9:40 a.m. Keynote Address

The Pillars of DOE's Fossil Energy Research and Development, Steven Winberg, Assistant Secretary for Fossil Energy, U.S. Department of Energy

9:40 – 9:55 a.m. Keynote Q & A

9:55 – 10:15 a.m. Break

10:15 – 11:45 a.m. Panel Session 3: *Future of Fossil Fuels*

Purpose: Advanced Technologies and Policy Issues

Moderator: Eric Abelquist, Executive Vice President and Chief Research Officer, ORAU

Panel Speakers & Topical Areas

Getting to Near-Zero Emissions Coal Generation, Angelos Kokkinos, Associate Deputy Assistant Secretary Clean Coal and Carbon Management, Office of Fossil Energy, U.S. Department of Energy

U.S. National Fossil Fuel-CO₂ Emissions Determined from Measurements of Carbon Dioxide and Its Radiocarbon Content, John B. Miller, Chief, Carbon Cycle Greenhouse Gases Group, Earth System Research Laboratory, National Oceanic and Atmospheric Administration

The Future Directions of Food-Energy-Water Nexus Research, Brandi Schottel, Associate Program Director, Environmental Engineering and Sustainability Cluster, National Science Foundation

11:45 – 11:55 p.m. Panel Q & A

11:55 – 12:00 p.m. Wrap-up
▪ Andy Page, President and CEO, ORAU

12:00 p.m. Adjourn

12:00 p.m. Box Lunches Available – Pollard Lobby

12:30 p.m. Bus departs from Pollard Auditorium for Knoxville's McGhee-Tyson Airport