

EMBEDDED TOPICAL: 2017 YOUNG PROFESSIONALS CONGRESS

TECHNICAL SESSION - 10:00 AM

Nuclear Policy

Session Chair and Organizer: Tim Crook (*Transatomic*), Alyse Scurlock (*Duke Energy*)

Public policy plays a vital role in sustainability of the United States nuclear power industry. Individual states' energy policies, such as regulated or deregulated market structure, cooperation with life extension, and inclusion or exclusion of nuclear power in clean air or renewable energy portfolio standards, may mean life or death for many power plants in the near term. This session will begin with a brief overview of how nuclear fits into national energy policy, along with a broad look at the impacts of regulated vs deregulated markets before delving into case studies of a few states to compare actual policy impacts.

Panelists:

Bill Mohl (*Entergy Wholesale*), Nick Thompson (*RPI*), Steve Nesbit (*Duke*)

TECHNICAL SESSION - 11:00 AM

Nuclear Economics

Session Chair and Organizer: Jitesh Kuntawala (*Duke Energy*)

It is sometimes hard to understand the complex economic concerns that drive decision making in the nuclear industry. This session will feature panelists who will discuss various facets of the economics of the commercial nuclear power industry. Among other topics, the economic effects of decommissioning plants, current market conditions, and the economics of advanced nuclear energy will be discussed.

Panelists:

Daniel Curtis (*MIT*), Adam Dow (*MCR*)

TECHNICAL SESSIONS - 1:30 PM

Illuminating the Nuclear Industry: Young Professionals and their Careers

Session Chairs and Organizers: Sarah Camba Lynn (*Luminant Power*), Matt Wargon (*SCE&G*)

Early in our careers we are often bombarded with differing advice for corporate advancement, work-life balance, and effective networking. Young professionals from various areas of the nuclear field will discuss what advice worked for them and share stories of how they built their careers. A subsequent question and answer session will give attendees the opportunity to engage the panelists and a look into their own futures.

Panelists:

Christine Johnson (*Duke Energy*), Adam Dow (*MCR*), Art Wharton (*Studsvik*) Brett Rampal (*NuScale Power*)

National Labs: The Heart of Nuclear Research and Development

Session Chair and Organizer: Florent Heidet (*ANL*)

National Laboratories are at the heart of nuclear energy R&D. From developing new technologies and components for existing reactors, to developing the next generation of nuclear reactors, National Laboratories play a key role in the future of Nuclear Energy. Experts from several National Laboratories will discuss why they chose this path and share their current experience. This session is a great venue for those curious about National Laboratories or considering pursuing a career in R&D to ask questions directly to lab employees.

Panelists:

Gerhard Strydom (*INL*), Allison Miller (*SNL*), Dave Pointer (*ORNL*), Darius Lisowski (*ANL*)

Getting that Faculty Position

Session Chair and Organizer: Nick Thompson (*ORNL*)

Many young professionals set their sights on entering academia and getting a coveted Tenure Track position. But sometimes, even getting an interview at a University can be a challenge as positions are limited and the field of candidates is very strong. This session will help young professionals get that position, by explaining what experience they need to be a top candidate for the position, giving advice on how to apply for positions, and some tips for interviewing at Universities.

Panelists:

Brian Kiedrowski (*U Michigan*), Jamie Coble (*UTK*), Kyle Hartig (*UF*)

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TECHNICAL SESSIONS - 2:45 PM

The Cacophony of Codes: Understanding the Landscape

Session Chair and Organizer: Jitesh Kuntawala (*Duke Energy*)

The landscape of nuclear analysis codes and methods can often be difficult to navigate and populated by powerful, but isolated and restricted, analysis tools. However, unique applications have unique means and every code has a history and niche. Experts from across the facets of the nuclear world will discuss how they are working to make sense of what can be a confusing landscape and what other recent advances that have been made in nuclear analysis and simulation.

Panelists:

Erin Wehlage (*Studsвик*), Nick Touran (*TerraPower*), Chris Perfetti (*ORNL*)

Advanced Reactors

Session Chair and Organizer: Piyush Sabharwall (*INL*)

The panel will focus on efforts to accelerate commercialization of small modular reactors and advanced reactors. The panelists will cover various key aspects: technical challenges, economics/energy market changes and deployment strategy.

Panelists:

Piyush Sabharwall (*INL*), Ashley Finan (*Clean Air Task Force*), Daniel Carleton (*Terrestrial*)

Regulatory Roles and Interfaces

Session Chair and Organizer: Steve Ward (*Enercon*)

As companies seek to deploy new nuclear power plant designs and expand the nuclear sciences, a major hurdle is satisfying regulatory requirements. These requirements may differ depending on application and region; having a large impact on the overall process and any interfaces. Hear about differing interactions with regulatory organizations and how reactor vendors, utilities, government organizations and others address issues while meeting global nuclear safety standards.

Panelists:

Jennie Winke (*NuScale Power*), Marlayna Vaaler (*NRC*), Thomas Sowinski (*DOE*), Jessica Krejcie (*Exelon*)

TECHNICAL SESSIONS - 4:00 PM

Nuclear Advocacy

Session Chair and Organizer: Kelsey Admundson (*DNFSB*)

Advocacy will play an important role in the modern nuclear industry. Experts will discuss their personal involvement in nuclear advocacy, how to engage with the public on nuclear issues, and what they see for the future of nuclear advocacy.

Panelists:

Tay Stevenson (*Generation Atomic*), Benjamin Reinke (*U.S. Congress*), Emma Redfoot (*Students for Nuclear*)

Accomplish More With A Professional Society

Session Chair and Organizer: Brett Rampal (*NuScale Power*)

Professional societies and organizations offer otherwise unavailable leadership, educational, and career development opportunities to nuclear professionals at any point in their career. In this panel, current and former leaders within nuclear professional societies will discuss professional and personal successes that came from roles within a professional organization and how others might also achieve success.

Panelists:

Natalie Wood (*Entergy*), Carol Berrigan (*NEI*), Denis Janin (*IYNC*)

Effective Communication

Session Chairs and Organizers: Katherine Shields (*UC Berkeley*), Shana Bobbins (*Exelon*)

In the modern nuclear landscape, it is very important to develop the skills necessary to speak about nuclear to a variety of audiences, including the general public, youth, politicians, and other clean energy supporters. This session will feature a variety of perspectives on communication about nuclear, including industry expertise and current academic research on science and risk communication. Hear brief presentations from each expert, followed by a workshop-style period in which participants can ask questions of the experts and each other to identify best practices.

Panelists:

Lenka Kollar (*NuScale Power*), Laura Hermann (*PCG*), Monica Beistline (*Exelon*), JoAnna Wendel (*EOS.org*)

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