

**ADVANCED REACTORS TECHNICAL SUMMIT IV  
&  
TECHNOLOGY TRAILBLAZERS SHOWCASE**

**FEBRUARY 8-9 2017  
ARGONNE NATIONAL LABORATORY**

*Under the auspices of the*  
**U.S. Nuclear Infrastructure Council**

*And in conjunction with*  
**Argonne National Laboratory**

**ADVANCE AGENDA** (*as of 1/24/17*)

*Summit Organizing Sponsors*  
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**Tuesday, February 7**

4:00 pm – 5:30 pm

**SPECIAL BRIEFING**

**Advanced Reactors Political Landscape: The New Administration & Congress –**  
Chicago Marriott Southwest at Burr Ridge

**Mr. David Blee**

Chief Executive Officer  
U.S. Nuclear Infrastructure Council

6:30 pm – 8:00 pm

**WELCOME RECEPTION**

Chicago Marriott Southwest at Burr Ridge

**Wednesday, February 8**

8:00 am – 5:30 pm

**PLENARY PROGRAM**

Argonne National Laboratory  
Theory & Computing Sciences Conference Center  
(Building 240)  
9700 S. Cass Avenue, Lemont, IL 60439

**REGISTRATION**

**I. WELCOME & OVERVIEW**

**Dr. Jeff Binder**

Associate Laboratory Director, Energy and Global Security  
Argonne National Laboratory

**Mr. David Blee**

Chief Executive Officer  
U.S. Nuclear Infrastructure Council

**II. STAGE SETTERS**

**U.S. DEPARTMENT OF ENERGY PERSPECTIVES:**

**Mr. Shane Johnson**

Deputy Assistant Secretary  
Office of Nuclear Energy  
U.S. Department of Energy

**SPECIAL ADDRESS:**

**The Honorable Stephen Burns**  
Chairman  
U.S. Nuclear Regulatory Commission

**BREAK**

**INDUSTRY PERSPECTIVE:**

**Hon. Jeffery Merrifield**  
Former Commissioner, USNRC  
&  
Chairman, USNIC Advanced Reactors Task Force  
&  
Partner, Pillsbury Winthrop Shaw Pittman

**III. TRAILBLAZERS UPDATE**

**Mr. Jeff Harper**  
Vice President, Strategy & Business Development  
X-energy

**Mr. Nicholas V. Smith**  
Senior Engineer  
Southern Company

**IV. SMR PERSPECTIVE:**

**Dr. Jose Reyes**  
Co-Founder & Chief Technology Officer  
NuScale Power

**Mr. Michael McGough**  
Chief Commercial Officer  
NuScale Power

**LUNCH**

**V. TRAILBLAZERS UPDATE**

**Ms. Cindy Pezze**  
Vice President of Global Technology Development & Chief  
Technology Officer  
Westinghouse Electric Company

**Unlocking the Potential of Nuclear Through Advanced Materials**

**Dr. Christina Back**  
Vice President, Nuclear Technologies and Materials  
General Atomics

## **VI. CRITICAL PATH ISSUES**

### **PANEL: Overarching Technical Issues, Part 1**

- Materials
- Instrumentation and Control
- Safety (Passive Cooling, Accident Tolerance)
- Security

### **National Laboratory Perspective**

#### **Dr. Hussein S. Khalil**

Director, Nuclear Energy and Security Program  
Distinguished Fellow  
Argonne National Laboratory

### **Materials Innovation and Testing - Energy Multiplier Module Update**

#### **Dr. Robert Schleicher**

Chief Nuclear Engineer  
General Atomics

### **Instrumentation and Controls**

#### **Dr. David Holcomb**

DOE Molten Salt Reactor and Advanced Reactor Instrumentation  
and Controls Technical Lead  
Oak Ridge National Laboratory

### **Computational Modeling and Simulation**

#### **Dr. Chris Stanek**

National Technical Director, DOE Nuclear Energy Advanced  
Modeling & Simulation  
Los Alamos National Laboratory

### **Reactor Safety Technology**

#### **Dr. Mitch Farmer**

Manager, Engineering Development and Applications  
Nuclear Engineering Division  
Argonne National Laboratory

### **BREAK**

## **VII. TRAILBLAZERS UPDATE**

#### **Mr. Simon Irish**

Chief Executive, Director  
Terrestrial Energy

#### **Mr. Donald Wolf**

Co-Founder, Chairman of the Board & CEO  
Advanced Reactor Concepts, LLC

## VIII. FORGING GOVERNMENT & INDUSTRY PARTNERSHIPS I

### PANEL: DOE, National Laboratory and International Initiatives

#### DOE Advanced Reactors Program & GAIN Initiative

**Dr. Rita Baranwal**

Director, Gateway for Accelerated Innovation in Nuclear  
Idaho National Laboratory

#### U.S. Nuclear Energy Advisory Committee

**Dr. Alfred Sattelberger**

Chairman, Fuel Cycle Subcommittee  
DOE Nuclear Energy Advisory Committee  
&  
Deputy Laboratory Director for Programs, Chief Research  
Officer, and Senior Intelligence Official  
Argonne National Laboratory

#### Test Reactor

**Dr. Kevan Weaver** (*invited*)

Director of Technology Integration  
TerraPower

## NETWORKING RECEPTION & DINNER

Argonne Guest House  
9700 S. Cass Avenue, Lemont, IL 60439

#### Featured Speaker

**Mr. Llewellyn King**

Executive Producer & Syndicated Columnist  
White House Chronicle

**Thursday, February 9**

8:00 am – 3:00 pm

**PLENARY PROGRAM**

Argonne National Laboratory  
Theory & Computing Sciences Conference Center  
(Building 240)  
9700 S. Cass Avenue, Lemont, IL 60439

**IX. WELCOME & OVERVIEW OF DAY ONE**

**Mr. David Blee**  
Chief Executive Officer  
U.S. Nuclear Infrastructure Council

**X. TRAILBLAZERS UPDATE**

**Dr. Eric Loewen**  
Chief Consulting Engineer  
GE Hitachi Nuclear Energy

**Mr. Tom Blees**  
Senior Advisor  
ThorCon Power  
&  
President  
Science Council for Global Initiatives

**XI. ADVANCED REACTORS FINANCING**

**Mr. Bruce Lacy**  
President  
Lacy Consulting Group

**Mr. Paul Murphy**  
Managing Director  
Gowlings WLG

**BREAK**

**XII. CRITICAL PATH ISSUES**

**PANEL: Overarching Technical Issues, Part 2**

- Advanced Reactor Fuels
- Proliferation Resistance
- Security

## **High Temperature Reactor & Fast Reactor Fuels**

**Dr. Jon Carmack**  
National Technical Director  
Idaho National Laboratory

## **Molten-Salt Fuels**

**Dr. David Holcomb**  
DOE Molten Salt Reactor and Advanced Reactor Instrumentation and  
Controls Technical Lead  
Oak Ridge National Laboratory

## **Security Considerations**

**Mr. Mark Satorius**  
Senior Vice President, Executive Performance Solutions  
EXCEL Services Corporation  
&  
Former Executive Director for Operations  
U.S. Nuclear Regulatory Commission

## **Hybridization of Nuclear Energy With Fossil Energy**

**Dr. Steven Aumeier**  
Senior Advisor, Nuclear Energy  
Idaho National Laboratory

## **XIII. TRAILBLAZERS UPDATE**

**Dr. Thomas Roberts**  
Vice President, Computational Physics  
Muons, Inc.

**Mr. Michael Keller**  
President and CEO  
Hybrid Power Technologies, LLC

## **LUNCH**

## **XIV. TRAILBLAZERS UPDATE**

**Mr. Mark Haynes**  
Senior Advisor  
Next Generation Nuclear Plant Industry Alliance

**Dr. Edward Blandford**  
Chief Technology Officer  
Kairos Power, Inc.

## **XV. LICENSING MODERNIZATION**

### **PANEL: Moving the Licensing Paradigm Forward**

- NRC Initiatives
- NRC-DOE Programs
- Lessons Learned from SMR Generic Issues

#### **Mr. John Segala**

Chief  
Licensing Branch  
Division of New Reactor Licensing  
Office of New Reactors  
U.S. Nuclear Regulatory Commission

#### **Mr. Mark Satorius**

Senior Vice President, Executive Performance Solutions  
EXCEL Services Corporation  
&  
Former Executive Director for Operations  
U.S. Nuclear Regulatory Commission

#### **Mr. Jeff Gabor**

Senior Consultant II  
JENSEN HUGHES

#### **Mr. Amir Afzali**

Licensing Director - Next Generation Reactors  
Southern Nuclear Operating Company

## **XVI. PATH FORWARD**

#### **Mr. Tom Blees**

President  
Science Council for Global Initiatives  
&  
Senior Advisor  
ThorCon Power

#### **Dr. Robert Hill**

Technical Director, Advanced Nuclear Energy Systems  
Nuclear Engineering Division  
Argonne National Laboratory

#### **Hon. Jeffery Merrifield**

Former Commissioner, USNRC  
&  
Chairman, USNIC Advanced Reactors Task Force  
&  
Partner, Pillsbury Winthrop Shaw Pittman



**Mr. David Blee**  
Chief Executive Officer  
U.S. Nuclear Infrastructure Council

**ADJOURN**

3:30 – 5:00 pm

**OPTIONAL TOUR OF ARGONNE'S ADVANCED PHOTON SOURCE**

The Advanced Photon Source (APS) at Argonne National Laboratory provides ultra-bright, high-energy storage ring-generated x-ray beams for research in almost all scientific disciplines. An overall tour of the facility will be provided, along with a trip into the Experiment Hall, with a presentation at the beamline where high-energy x-rays are used to conduct in situ examination of polycrystalline materials under thermo-mechanical loading for nuclear energy applications.