Consortium for Advanced Simulation of LWRs

# CASL Technical Symposium
# Plenary Session
# Monday, November 16, 2020
# VIRTUAL

## SESSION I
## 1:00 – 3:10 pm EST

The Consortium for Advanced Simulation of Light Water Reactors (CASL) was founded in July 2010 as a Department of Energy (DOE) Energy Innovation Hub with the mission to develop, apply, and deploy advanced modeling and simulation (M&S) technologies to address operational and safety performance challenges impacting the performance of the Light Water Reactor fleet. The CASL Symposium celebrates the completion of the Hub activities and fulfillment of the CASL vision to predict, with confidence, the performance of nuclear reactors through comprehensive, science-based M&S technology that is deployed and applied broadly throughout the nuclear energy industry to enhance safety, reliability, and economics. The CASL plenary speakers, representing organizations in government, academia, and industry provide a unique perspective on the origins and history of CASL, the governance, structure and execution of the Hub model, and the deployment of CASL-developed technology to industry.

| | | |
|---|---|---|
| 1:00-1:15 | Opening Remarks<br>*Digital Presentation: CASL Impact Video* | Thomas Zacharia (ORNL) |
| 1:15-1:30 | DOE Remarks and Introduction of Speaker(s) and Invited Guests | Rita Baranwal (NE-1) |
| 1:30-1:45 | Keynote Speaker | Ernest Moniz (MIT, NTI) |
| 1:45-2:45 | Speaker Session I | Pete Lyons (DOE-retired)<br>Dale Klein (UT Austin)<br>Neil Wilmshurst (EPRI)<br>Ken Canavan (WEC) |
| 2:45-3:10 | CASL Nuclear Energy Hub History | Doug Kothe (ORNL)<br>Jess Gehin (INL)<br>Alex Larzelere (DOE-retired) |
| 3:10-3:40 | Break | |

Consortium for Advanced Simulation of LWRs

# CASL Technical Symposium
# Plenary Session
# Monday, November 16, 2020
# VIRTUAL

## SESSION II
## 1:00 – 3:10 pm EST

The unique partnerships built by CASL brought together a diverse team of talented individuals working in a collaborative environment across the national laboratories, academia and industry. The key to such collaboration is having a shared vision, a line of sight from each individual contributor and technical focus area towards common goals, and excellence in execution. There have been hundreds of contributors to the CASL program during the history of the hub who were brought together under a "one roof" virtual environment with the goal of providing tools and capabilities that have not only high value but high impact with respect to addressing the design and operational challenges of the current, as well as future, nuclear fleet. The CASL Partner's Panel, representing the CASL core partners, brings together speakers from the DOE laboratories, academia and industry to discuss perspectives on science and applied research, software development and deployment, and impact on nuclear engineering education. In addition, DOE NE will provide a perspective on the transition of CASL and future of modeling and simulation for advanced nuclear energy.

| | | |
|---|---|---|
| 3:40-5:10 | CASL Partners Panel | Dave Kropaczek (ORNL - moderator)<br>Todd Allen (UM)<br>Ben Forget (MIT)<br>John Gilligan (NCSU)<br>Thom Mason (LANL)<br>Andrew McIlroy (SNL)<br>Kemal Pasamehmetoglu (INL)<br>Dan Stout (TVA) |
| 5:10-5:35 | Future of Modeling and Simulation | Alice Caponiti (NE-5) |
| 5:35-5:50 | CASL Acknowledgements, Recognitions, and Closing Remarks | Alan Icenhour (ORNL) |
| 5:50 | Adjourn | |