

## Welcome

- For safety and security reasons, personal belongings such as tote bags, backpacks, etc. are not permitted to be placed around the perimeter of the session room.
- Be mindful of your exits. In the event of a hotel emergency (such as fire, evacuation, etc.), the hotel staff will advise how to proceed. In the event of a safety/security emergency, NRC Security or Montgomery County Police will advise how to proceed. In the event of a medical health emergency, call 911 or contact an NRC or hotel staff member to contact emergency services for you.
- Kindly silence your electronic devices while the session is in progress.
- If you need to leave the room during the session, please leave quietly. At the end of the session, please exit the session room promptly so that the room can be prepared for the next session.
- All sessions are being recorded. Recordings will be available on the RIC website after the conference.

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## NRC RIC is introducing live polling!

The Wi-Fi code for Internet access is **RIC2019**.

We want to hear from you during RIC Opening Session and W15 Technical Session. To access the live polls:

1. Download the NRC RIC conference app from your Apple or Google Play stores or at <https://crowd.cc/s/2xZAU>, **keyword search: NRC RIC**.
2. Once the app is installed, go to the main screen and click on “Live Polling.”
3. Select the appropriate session from the list.
4. You will see the poll questions. Click on each one to answer them.

We look forward to your responses!



A decorative banner at the top of the slide features the text "RIC 2019" in a large, white, sans-serif font. The background of the banner is a complex, abstract pattern of red and purple lines that create a sense of depth and movement, resembling a tunnel or a series of overlapping planes.

# Realizing Innovation in Advanced Reactors

Session Chair: Chairman Svinicki

Session T4

March 12, 2019



Jeffrey S. Merrifield  
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Mark Todd Peters  
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Battelle Energy Alliance, LLC  
Idaho National Laboratory



James Nicholas Irvin  
Director of Research and  
Development,  
Southern Company Services



Per F. Peterson  
Chief Nuclear Officer,  
Kairos Power LLC



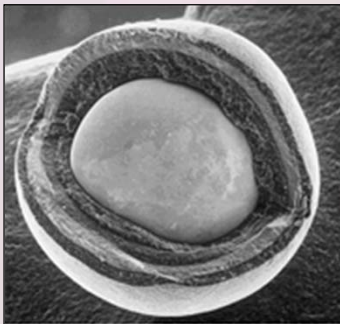


Kairos Power's mission is to enable the world's transition to clean energy, with the ultimate goal of dramatically improving people's quality of life while protecting the environment.



## Kairos Power Fluoride Salt-Cooled High-Temperature Reactor (KP-FHR)

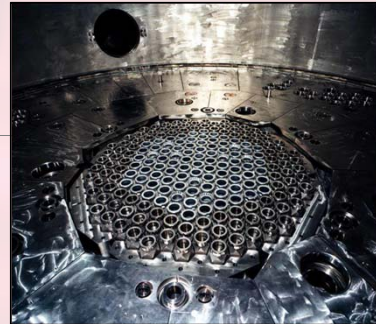
Coated Particle Fuel  
[from HTGRs]



Liquid Fluoride Salt Coolants  
[from MSRs]



Low-Pressure Pool Vessel  
[from SFRs]





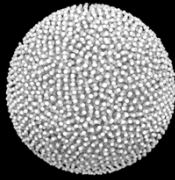
Jacob DeWitte  
Co-Founder and Chief  
Executive Officer  
Oklo, Inc.



J. Clay Sell  
Chief Executive Officer,  
X-energy



Nuclear Energy **Reimagined.**



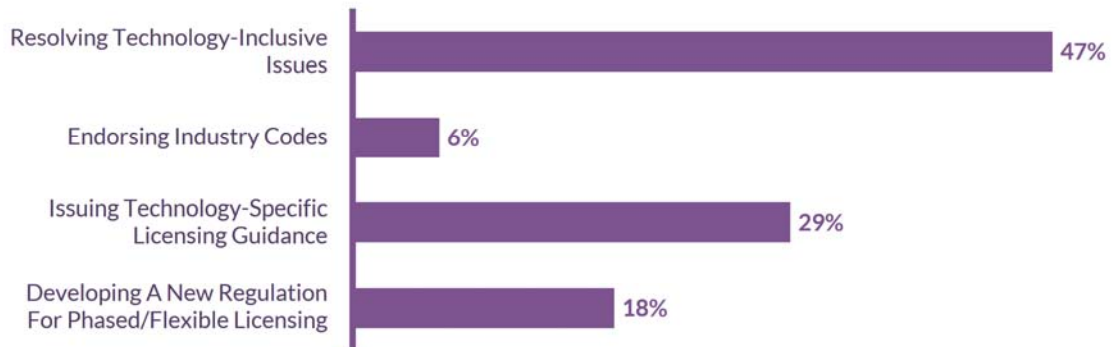
Nuclear Energy. **Reimagined.**

## Session T4 - Realizing Innovation in Advanced Reactors

Question 1. What should be the NRC's highest, near-term priority for regulatory capacity building?

- A. Resolving Technology-inclusive Issues
- B. Endorsing Industry Codes
- C. Issuing Technology-specific Licensing Guidance
- D. Developing a New Regulation for Phased/Flexible Licensing

### What should be the NRC's highest, near-term priority for regulatory capacity building?



Source: <https://api.cvent.com/polling/v1/api/polls/sp-cgjylj>

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# Realizing Innovation in Advanced Reactors

Session T4

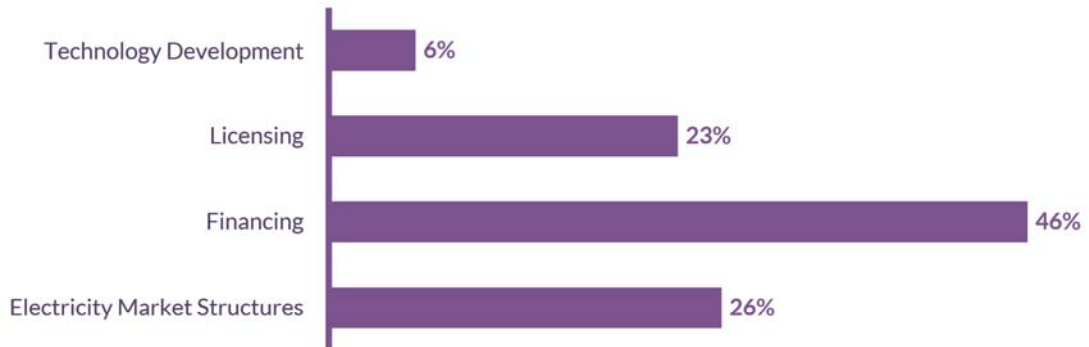


## Session T4 - Realizing Innovation in Advanced Reactors

Question 2. What presents the most significant uncertainties to the future deployment of advanced reactors?

- A. Technology Development
- B. Licensing
- C. Financing
- D. Electricity Market Structures

### What presents the most significant uncertainties to the future deployment of advanced reactors?



Source: <https://api.cvent.com/polling/v1/api/polls/sp-ikmb5z>

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# Realizing Innovation in Advanced Reactors

Session T4