

# DINNER MEETING

KAIROS POWER UPDATE AND PROGRESS:  
*ACHIEVING PASSIVE SAFETY*

PER PETERSON  
KAIROS POWER



JANUARY 17, 2025

## ABOUT THE EVENT:

**M'tucci's Twenty-Five (Jefferson & I-25)**

4939 Pan American Highway. Albuquerque, NM 87109

Join the Trinity Section of the American Nuclear Society for a Dinner Meeting with Per Peterson, Co-Founder & CNO of Kairos Power.

- **6:00 - 6:45** Happy Hour & Networking
- **6:45 - 7:45** Seated ordering & dinner
- **7:45** Presentation begins

## CONTACT:

[ans.trinity@yahoo.com](mailto:ans.trinity@yahoo.com)

[trinity.ans.org](http://trinity.ans.org)

## RSVP:

**Deadline:** JANUARY 13, 2025

**Online Registration:** \$40

- Entree + 1 Drink Included
- Student Rate: \$20

**Register Early:** RSVP Cap of 45

[Online Registration: trinity.ans.org/calendar](http://trinity.ans.org/calendar)

# DINNER MEETING

## KAIROS POWER UPDATE AND PROGRESS: *ACHIEVING PASSIVE SAFETY*

### ABSTRACT

With the unique combination of a high-temperature, molten salt coolant, and fully ceramic TRISO fuel, Kairos Power advanced reactors have intrinsic low pressure and implement fully passive safety. This talk will review the technology basis that underlies the company's fluoride salt-cooled high-temperature reactor (KP-FHR), and its progress toward demonstration including advances at the Kairos Power Manufacturing Development Campus in Albuquerque.

### BIOGRAPHY

Dr. Per Peterson is a co-founder and chief nuclear officer at Kairos Power, a mission-driven company that is disrupting the industry with iterative development and vertical integration strategies to commercialize a safe and affordable advanced reactor technology in time to impact climate change. Dr. Peterson also holds the William and Jean McCallum Floyd Chair in the Department of Nuclear Engineering at UC Berkeley. He is an expert in topics related to high-temperature fission energy systems, safety and security of nuclear materials, and waste management. In 2003, he and collaborators proposed the original concept for a molten-salt cooled, solid fueled reactor – the basis for Kairos Power's KP-FHR.