Trinity Section, American Nuclear Society
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DINNER MEETING ANNOUNCEMENT

"INL: Enabling Advanced Reactor Demonstrations and Deployment"

Speaker: **Jess C. Gehin, PhD,**
Associate Laboratory Director,
Nuclear Science & Technology Director,
Idaho National Laboratory

Abstract: please see next page.
Biography: please see next page.

Place: **Courtyard® by Marriott Santa Fe**
3347 Cerrillos Road, Santa Fe, NM (505-473-2800)

Directions: From Albuquerque, take I-25 North approximately 55 miles to Exit 278 (Cerrillos Road). Hotel is 3 miles from the exit on the left-hand side of Cerrillos Road at Richards Avenue.

Date: **May 6, 2022**

Time: **6:00** Social Hour with Cash Bar
(for networking between students and professionals of all levels)
7:00 Dinner (catered by Courtyard® by Marriott Santa Fe)
7:45 Speaker

Cost: *$45 per person (by web sign-up in advance),*
$50 per person (not pre-paid, at the door),
$20 for students and children

Current NM DOH and CDC recommendations for COVID-safe conduct of in-person activities will be in place. ANS Trinity Section requires that all dinner attendees be fully vaccinated against COVID and will require attendees to produce proof of vaccination upon entering the dinner venue. Face masks / coverings are currently optional, which can change based on CDC recommendations. Guests may present a physical copy of their vaccine cards or a smart phone photo of their card as proof of vaccination.

We strongly encourage you to sign up and pay for this event by 2 May using the ANS Trinity PayPal payment account. Visit the "Calendar" page of our web site and select the appropriate payment button (http://local.ans.org/trinity/calendar.html). You may use any credit card and do NOT need to have your own PayPal account to make the payment.

RSVP: If you do not use on-line payment, please RSVP no later than **2 May** to:
Chris Perfetti: cperfetti@unm.edu (505-277-1945) or
Travis Trahan: travistrahan@gmail.com (505-695-5078).

*RSVP must be received by **2 May** in order to give final numbers to the caterers. While we strongly encourage everyone to use on-line payment to sign up and prepay, an RSVP is a commitment to attend/pay at the door. We cannot afford "no shows" after the final count is given to the caterers, as the Section is partially subsidizing the cost of this event. If you cancel after **2 May**, you will still be responsible for paying.*

"INL: Enabling Advanced Reactor Demonstrations and Deployment"

Jess C. Gehin, PhD,

Associate Laboratory Director, Nuclear Science & Technology Director, Idaho National Laboratory

Abstract:

As the Department of Energy's Nuclear Energy Laboratory, Idaho National Laboratory (INL) performs research across a broad range of areas enabling the demonstration and deployment of advanced nuclear reactors. Over the course of the next decade, this work will lead to the demonstration of several reactors on and off the INL site that includes the MARVEL microreactor with a planned initial criticality in late 2023, the Department of Defense PELE microreactor in 2024, and working with Southern Company and TerraPower, the Molten Chloride Reactor Experiment (MCRE) in 2025. In addition, INL is working with other companies, such as Oklo Inc., TerraPower, X-energy, Kairos, Westinghouse, and others on their reactor development and demonstrations. This work is supported by INL's unique nuclear energy research and development expertise and capabilities, as well as leadership of DOE Office of Nuclear Energy programs, such as the National Reactor Innovation Center (NRIC). Dr. Gehin will provide an INL overview and an update on the capabilities being developed at INL to support reactor development and demonstrations.

Biography:

Jess Gehin became associate laboratory director for INL's Nuclear Science & Technology (NS&T) Directorate in March 2021 after serving as chief scientist for the directorate since 2018. Over his 28-year career, he has built national strategies and priorities for nuclear energy, led complex projects and organizations, and developed strong relationships with senior leaders within INL, DOE and federal sponsors, and other laboratories, companies and universities. In support of the DOE Office of Nuclear Energy, he served as the national technical director for the DOE Microreactor Program. He expanded NS&T's strategic direction and helped develop and establish key projects to build advanced reactors at INL such as the Department of Defense's demonstration microreactor Project Pele, and the Microreactor Applications Research Validation and Evaluation (MARVEL) Project. Previously, he held research and leadership positions at Oak Ridge National Laboratory in nuclear reactor core physics, reactor core and system technologies, reactor modeling and simulation, and fuel cycle reactor applications. While at ORNL, he served as director of the Consortium for Advanced Simulation of Light Water Reactors (CASL). He earned a bachelor's degree in nuclear engineering from Kansas State University, and master's and doctoral degrees from the Massachusetts Institute of Technology. He was an associate professor at the University of Tennessee, is a Fellow of the American Nuclear Society, and has authored or co-authored more than 120 refereed journal and conference articles, technical reports and conference summaries.