3167 San Mateo Blvd NE #131
Albuquerque, NM 87110-1921
http://local.ans.org/trinity/
ans.trinity@yahoo.com

American Nuclear Society
Trinity Section

ZOOM MEETING ANNOUNCEMENT

https://us02web.zoom.us/j/83850505683?pwd=WUp1ZGx4eDNXWkZqNTJCaVBzVVg1dz09

"Lightning Talks #6"

Background: Because of the constraints that the COVID-19 pandemic continues to place on in-person gatherings, Trinity Section is hosting the sixth in our series of "virtual dinner meeting with speakers." Of course, dinner and libations are whatever you choose to provide at your individual locations, but at least we can offer some professional interaction in the form of "lightning talks" and an opportunity for discussion.

Each of these talks is targeted for about 15 minutes or so, including a short Q&A period. At the end, there will be a more general opportunity for member discussion.

Abstracts: please see next page.

Directions: This meeting will be hosted on Zoom. The sign-in link will be posted on the Calendar page of our web site (http://local.ans.org/trinity/calendar.html).

Date: **Tuesday, May 11, 2021**

Time: **7:00pm (MDT)** Speakers and discussion

Cost/Menu: Whatever you choose to provide at your individual locations.

And you don't even need to sign up from our web site or pay with PayPal.

RSVP: No need to tell us ahead of time. However, if you have ideas for speakers and topics of interest for either another lightning talk session or for an in-person dinner meeting with speaker when we're able to accommodate that in the future, or if you are willing to present a lightning talk about your own current work, please be in touch with us through:

Chris Perfetti: cperfetti@unm.edu (505-277-1945) or
Travis Trahan: travistrahan@gmail.com (505-695-5078).

"Lessons Learned from Early Accidents at Los Alamos"

Richard (Dick) Malenfant,
Los Alamos National Laboratory, Retired

POSTPONED

Abstract: You do not plan to have an accident. However, if you fail to learn the lessons from an accident, you are doomed to repeat them. The nuclear accidents that occurred at Los Alamos in 1945 and 1946 will be described in detail. The observations and recommendations made by Raemer Schreiber, who was present at the fatal accident of May 21, 1946, will be presented.

"Selected Projects with MCNP and Reactor Design"

Jameson Hetrick,
Holtec International

Abstract: The Monte Carlo N-Particle transport code is a staple for radiation transport modeling and the analysis of nuclear systems, and three projects that implement it will be discussed. The first project simulates the HERMES III accelerator for the purpose of predicting energy deposition into test materials and will be covered at a general level to protect sensitive and proprietary information. The second project is a personnel dosage map of a proposed x-ray imaging room to be used for research at the Colorado School of Mines. Lastly, an overview of a reactor design project will be presented. A heat transfer model between fuel rods and liquid metal coolant were used to compute power production, and to ensure thermal safety factors were maintained while designing the reactor's core. The design purpose was to achieve the net consumption of reprocessed minor actinides via fast spectrum fission.

"Manhattan Project National Historical Park"

Jonathan D. Creel,
Public Engagement Specialist, Manhattan Project National Historical Park,
Community Partnerships Office, LANL

Abstract: This talk will cover some of the recent efforts of the Manhattan Project National Historical Park, presented by Los Alamos National Laboratory's liaison between the NPS and DOE for public projects. It will provide an update on the stakeholder engagement program, describe where the park is looking to go for the future, and preview the 360 virtual tours that are in the works for the historic Manhattan Project sites across the LANL campus. You'll get the first sneak peek of what is proposed to roll out to the public this summer.

"Achieving Termination of Radiological Controls Following a Cesium-137 Release at the Harborview Research and Training Building"

John L. Bliss, MS, CHP,
Principal Health Physicist, ESHQSS-INT (Integration Program Office), LANL

Abstract: The release of Cs-137 from a sealed source being prepared for shipment on May 2, 2019, has had a profound effect on an important institution and has shown the complexity encountered when decontaminating a modern high-rise building. This talk will cover remediation methods and the Final Status Survey and report submitted on Mar 15, 2021, to close out the response originally outlined here as a part of Lightning Talks #1 in Sept 2020. (LA-UR-27729)