

ZOOM MEETING ANNOUNCEMENT

<https://unm.zoom.us/j/98643446309>

“Lightning Talks #8”

Background: Because of the constraints that the COVID-19 pandemic continues to place on in-person gatherings, Trinity Section is hosting the eighth 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 15-20 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, 24 Aug 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).

“Hiroshima Dose Reconstruction”

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

Abstract: The only significant acute radiation exposure to a large population was at Hiroshima and Nagasaki. However, there were no direct measures of the dose. In addition, many details of the exposures were unknown. This presentation will describe the complications of evaluating the dose and the construction and measurements on a true replica of Little Boy, the Hiroshima weapon, to provide the data to improve calculations.

“Updated Final Safety Analysis Report and the 50.59 Process”

Gemma Irais Strong,
Palo Verde Generating Station, Engineer I (Reload Analysis Group),
and former President, UNM Student Section, ANS

Abstract: NRC requires nuclear power plants undergoing a licensing process to create a set of documents that will govern its operation. These documents are what are called the “licensing basis documents.” There are several: such as Operating License, Tech Specs, UFSAR, and many other LBDs. From the many Licensing Basis Documents, only a couple of them can be modified; one of them is the Updated Final Safety Analysis Report.

The UFSAR often needs to be updated due to changes (*i.e.*, in drawing or text). In that case, we can use the process from 10 CFR 50.59.

As Nuclear Professionals, it is essential to understand the processes that will guide us to modify the UFSAR. The process provides a graded approach to determine if a plant’s licensing basis can be changed before the NRC can grant permissions.

“Overview of Republic of Korea Nuclear Power Plant Accident Exercise, October 2015”

K.L. (Ken) Groves, FHPS
LANL/UC (Retired); President, Sevorg Services LLC

Abstract: I was invited to the Republic of Korea (ROK) to observe a full field Nuclear Power Plant Exercise in October 2015. Prior to the exercise I had the opportunity to review relevant regulations, procedures and practices, and walk through the facilities to be utilized during the exercise (both the “government’s” and the “nuclear utility’s”). The training, review of the scenario, the equipment, instrumentation, and meeting with the controllers, observers and participants took place the day before the exercise. A one-day full field exercise has its own inherent challenges, and this exercise was no exception. After the exercise I had the opportunity to present my observations which were (I think) well received. Most of the issues I addressed were related to “communications or lack thereof” issues, not unlike any other exercise in which I have ever participated.