



Trinity Section
American Nuclear Society
P. O. Box 5367, Albuquerque, NM 87185
<http://local.ans.org/trinity/>

Rio Grande Chapter
Health Physics Society
New Mexico
<http://hpschapters.org/riogrande/>



JOINT DINNER MEETING ANNOUNCEMENT

"National Criticality Experiments Research Center (NCERC) Capabilities

Speaker: Joetta M. Goda, Advanced Nuclear Technology,
Nuclear Engineering and Nonproliferation Division, LANL

Abstract: Please see next page.

Biography: Joetta Goda first came to Los Alamos National Laboratory as a summer student in 1996. She returned in 1997 and has remained there ever since. Ms. Goda received a BS in Nuclear Engineering from the University of Illinois at Urbana-Champaign and an MS in Nuclear Engineering from the University of New Mexico. She has worked primarily in the area of nuclear criticality experiments both at the Los Alamos Critical Assembly Facility (LACEF) at TA-18 and now at the National Criticality Experiments Research Center (NCERC). Ms. Goda is the current Principal Investigator for the Godiva IV critical assembly.

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 exit on the left-hand side of Cerrillos Road at Richards Avenue.

Date: **February 20, 2015**

Time: **6:00** Social Hour with Cash Bar

7:00 Buffet Dinner (including southwest tilapia and beef tips)

7:45 Speaker

Cost: *\$35 per person (by web sign-up in advance);*

\$40 per person (not pre-paid, at the door);

\$15 for students and children

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

RSVP: If you do not use PayPal payment, please RSVP no later than Feb 16th to:

Markku Koskelo: mkoskelo@aquilagroup.com (505-338-8083) or

Kimberly Klain: kclark@lanl.gov (505-667-5301)

RSVP must be received by 16 Feb in order to give final numbers to the caterers. While we strongly encourage everyone to use online 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 16 Feb, you will still be responsible for paying.

National Criticality Experiments Research Center (NCERC) Capabilities

Joetta M. Goda, Advanced Nuclear Technology,
Nuclear Engineering and Nonproliferation Division, LANL

Abstract: Los Alamos National Laboratory maintains the capability to perform criticality experiments at the National Criticality Experiments Research Center (NCERC) at the Nevada National Security Site (formerly the Nevada Test Site). NCERC is the **sole** remaining facility in the United States capable of conducting general-purpose nuclear materials handling. There are currently four machines—Planet, Flattop, Comet, and Godiva IV—that can be operated remotely above delayed critical to explore reactivity phenomena or to provide high neutron and gamma fields. Godiva IV can also be operated above prompt critical to produce short, intense bursts. NCERC capabilities also include the construction of radiation test objects—high multiplication (but sub-critical) configurations of nuclear material that can be used to test various types of radiation measurements.

This talk will provide an overview of the capabilities and machines of NCERC followed by a description of the process of restarting Godiva in a new location as presented at the 2014 ANS Winter Meeting.