

DINNER MEETING ANNOUNCEMENT

"Education in a Multicentury Arc"

Speaker: **Dr. James Paul Holloway**, Professor of Nuclear Engineering, and Provost and Executive Vice President for Academic Affairs, University of New Mexico

Abstract: please see next page.

Biography: please see next page.

Place: **Drury Plaza Hotel, Santa Fe**
828 Paseo De Peralta, Santa Fe, NM 87501 (505-424-2175)

Directions: From Albuquerque, take I-25 N for about 65 miles to Exit 282 (St Francis Dr N). Stay on St Francis Dr for 3 miles until you reach W Alameda. Turn right onto W Alameda heading east, then left onto Paseo de Peralta. The entrance to the hotel will be on your left.

Date: **October 25, 2019**

Time: **6:00** Social Hour with Cash Bar
7:00 Buffet Dinner (green chile chicken confit enchiladas, vegetarian red chile calabacitas enchiladas)
7:45 Speaker

Cost: \$35 per person (pre-paid by web sign-up in advance);
\$40 per person (not pre-paid, at the door);
\$20 for students and children

We strongly encourage you to sign up and pay for this event by 21 Oct using the ANS Trinity 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 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 21 Oct to:
James Pike: jpik@lanl.gov (505-665-1630) or
Matt Denman: denman@kairospower.com (617-999-2848).

RSVP must be received by 21 Oct 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 21 Oct, you will still be responsible for paying.

Abstract:

“Education in a Multicentury Arc”

The application of nuclear energy remains a highly specialized field that relies on an education that is beyond the norm. The oldest degree programs in nuclear engineering arose from classified post-baccalaureate courses at the University of Michigan in the 1940s, followed by open masters and doctoral programs in the early 50s. The American Nuclear Society was established in 1954, founded on the Eisenhower “Atoms for Peace” program, which emphasized the sharing and development of knowledge in applications of nuclear energy. These early beginnings in promoting research and education in nuclear engineering began at the graduate level, building on the broader liberal education of physics and chemistry undergraduates. Gradually these programs moved into undergraduate programs, both democratizing the availability of the discipline for a broader set of students, and greatly specializing and professionalizing an undergraduate degree path. These trends in nuclear engineering education are not special to our discipline, but mirror and complement much larger trends in education in the United States, in which a tension plays out between broad liberal education for all, and professionalized and differentiating education for a few who seek an education that distinguishes them from the pack. This talk will connect this larger 200-year trend in education to current trends in New Mexico and the United States, including the free college movement. It might even answer the question: why are there 28 public universities in the State of New Mexico?

Biography:



Dr. JAMES PAUL HOLLOWAY is the Provost and Executive Vice President for Academic Affairs at the University of New Mexico, and a Professor in Nuclear Engineering in the UNM School of Engineering. He is also Arthur F. Thurnau Professor Emeritus and Professor Emeritus of Nuclear Engineering and Radiological Sciences at the University of Michigan.

Professor Holloway earned Bachelors and Masters degrees in Nuclear Engineering from the University of Illinois, a CAS in Mathematics from Cambridge University, and doctorate in Engineering Physics at the University of Virginia. Professor Holloway joined the faculty of the University of Michigan as an assistant professor for Nuclear Engineering and Radiological Sciences in January 1990, was subsequently promoted to Associate then Full professor, and in 2007 he was named an Arthur F. Thurnau Professor in recognition of outstanding contributions to undergraduate education. Later that year, he became associate dean for undergraduate education for the College of Engineering. He served as Vice Provost at Michigan from 2013-2019, with a growing portfolio of responsibilities covering global engagement, engaged learning and scholarship, and interdisciplinary academic affairs.

Prof. Holloway’s work has focused on computational and mathematical modeling of neutral particle transport, plasma kinetics and hydrodynamics, and related problems in inverse problems and plasma tomography. Along with his students, he developed the first Riemann solvers for time dependent neutral particle transport. Holloway served as co-PI on the University of Michigan’s CRASH center, and led the center’s uncertainty quantification program.