



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

**DINNER MEETING ANNOUNCEMENT**  
**"Advanced Nuclear Technologies"**

**Speaker: Andrew C. Klein, PhD**

*Professor of Nuclear Science and Engineering, Oregon State University, and  
Vice President and President-Elect, American Nuclear Society*

**Abstract:** Since the beginning of the nuclear energy age, scientists and engineers have conceived and developed advanced applications of nuclear technologies aimed at providing profound benefits to humanity. While many of these have been targeted at the production and delivery of electricity and other useful forms of energy, applications have also succeeded in medical and industrial fields. The last decade has brought forth a burst of new creative and innovative applications—some being inspired developments of concepts originated in previous eras, and some being visionary combinations of designs and materials, while others are truly novel notions. Many of these advances have been made possible through improved understanding of materials and computational advances which have enabled the rapid expansion and testing of capabilities, while others have come from groups of researchers and entrepreneurs who have put a modern twist on ideas that have been researched for many years. This talk will cover the most exciting advances in power production technologies, materials and computational capabilities that have incited researchers, designers, entrepreneurs, governments and venture capitalists around the world to an explosion of recent creativity.

**Biography:** Please see next page.

**Place:** **National Museum of Nuclear Science & History, Albuquerque, NM**  
601 Eubank Blvd SE, Albuquerque, NM 87123 (505-245-2137)  
Exclusive access to museum and gift shop from 5:30pm to closing included.

**Directions:** From I-40, exit at Eubank Blvd (Exit 165) and proceed south on Eubank to its intersection with Southern Avenue SE (slightly more than 1 mile). The museum is on the southwest corner of Eubank and Southern (enter from the Eubank side).

**Date:** **April 29, 2016**

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

**7:00** Buffet Dinner (catered by the Cooperage Restaurant of Albuquerque)  
(menu includes top sirloin medallions and chicken ala parrilla)

**7:45** Speaker

**Cost:** \$40 per person (by web sign-up in advance),  
\$45 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 using the ANS Trinity PayPal account. Visit our "Calendar" page (at <http://local.ans.org/trinity/calendar.html>) and select the appropriate payment button. You may use any credit card and do NOT need your own PayPal account to make the payment.**

**RSVP:** If you do not use on-line payment, please RSVP no later than 25 April to:  
Markku Koskelo: [mkoskelo@aquilagroup.com](mailto:mkoskelo@aquilagroup.com) (505-338-8083) or  
Kimberly Klain: [kclark@lanl.gov](mailto:kclark@lanl.gov) (505-665-1349)

*RSVP must be received by 25 April 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 25 April, you will still be responsible for paying.*

## BIOGRAPHY

### Andrew C. Klein

#### Vice President/President-Elect 2015-2016

Dr. Klein is a Professor in the School of Nuclear Science and Engineering at Oregon State University and serves on the Board of Directors for the American Nuclear Society. He has been a member of the faculty at Oregon State University since 1985.

He was on loan from Oregon State University to the Idaho National Laboratory (INL) as Director of Educational Partnerships and served as a member of the Leadership-Management Team at INL from March 2005 to September 2009. During that time, he also held an appointment as a visiting professor at Massachusetts Institute of Technology (MIT).



Dr. Klein's research areas include nuclear energy policy, nuclear energy systems design and analysis, radiation shielding, nuclear nonproliferation, safeguards and security, and space and fusion energy systems. He has authored more than 125 technical publications and is the editor for the international ANS publication *Nuclear Technology*.

He received a B.S. in nuclear engineering from Pennsylvania State University and his M.S. and Ph.D. in nuclear engineering from the University of Wisconsin.

Dr. Klein has been a member of the American Nuclear Society since 1984 and active in the Aerospace Nuclear Science & Technology Division as well as the Education, Training & Workforce Development Division. He currently is a member of the National Nuclear Accrediting Board for the Institute for Nuclear Power Operations and the Board of Directors for the Foundation for Nuclear Studies.