



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

## **SPECIAL DINNER MEETING ANNOUNCEMENT**

### ***"Overview of the Nuclear Reactor Technologies Program and the Generation IV International Forum"***

**Speaker:** Dr. John E. Kelly, Deputy Assistant Secretary for Nuclear Reactor Technologies, Office of Nuclear Energy, DOE, and Chair, Generation IV International Forum

*Abstract:* please see page 2.

*Biography:* please see page 3.

**Place:** Chama River Brewing Company, 4939 Pan American Fwy, Albuquerque NM 87109 (505-342-1800)

**Directions:** Exit I-25 at Jefferson St, NE (Exit 229). Restaurant is on Pan American Frontage Road South (west side of I-25), on the right side just after the on-ramp to return to I-25 in the Las Cruces direction.

**Date:** August 21, 2013

**Time:** 6:00 Social Hour with Cash Bar  
7:00 3-Course Group Menu choices (select on-site from items listed on page 4)  
7:45 Speaker

**Cost:** \$35 per person, \$15 for students and children

**THIS EVENT WILL ACCOMMODATE A MAXIMUM OF 50 GUESTS.** We strongly encourage you to sign up and pay for this event in advance using the ANS Trinity on-line payment account. From the "Calendar" page (<http://local.ans.org/trinity/calendar.html>) select the appropriate payment button. You may use any credit card and do NOT need to have your own PayPal account.

**RSVP:** If you do not use on-line payment, please RSVP no later than August 16 to:  
Markku Koskelo: [mkoskelo@aquilagroup.com](mailto:mkoskelo@aquilagroup.com) (505-338-8083) or  
CJ Solomon: [clll.solomon@gmail.com](mailto:clll.solomon@gmail.com) (505-695-8820)

**Registration for this event will be cut off at a total of 50 attendees.** RSVP must be received by Aug 16 in order to give final numbers to the restaurant. 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 restaurant, as the Section is partially subsidizing the cost of this event. If you cancel after Aug 16, you will still be responsible for paying.

**Abstract**  
**Dr. John E. Kelly**  
**August 21, 2013**  
**Albuquerque, NM**

*Overview of the Nuclear Reactor Technologies Program and the  
[Generation IV International Forum](#).*

Dr. John E. Kelly will give an overview presentation on the Nuclear Reactor Technologies program at the Department of Energy. Nuclear Reactor Technologies' mission is to keep the current fleet operating safely and to develop new nuclear technologies for deployment. In this presentation, he will talk about his directorate and cover its three main areas ***Light Water Reactor Technologies, Advanced Reactor Technologies, and Space Power Systems***. Additionally, he will talk about his role as *Chair of the Generation IV International Forum (GIF)* and provide an overview of this cooperative international endeavor organized to carry out the research and development (R&D) needed to establish the feasibility and performance capabilities of the next generation nuclear energy systems.

[Light Water Reactor Technologies](#)

The existing U.S. nuclear fleet has a remarkable safety and performance record. Extending the operating lifetimes of current plants beyond 60 years and, where possible, making further improvements in their productivity will generate early benefits from research, development, and demonstration investments in nuclear power. In addition, this division encompasses [Small Modular Reactor Technologies](#) which can also be made in factories and transported to sites where they would be ready to "plug and play" upon arrival, reducing both capital costs and construction times. The smaller size also makes these reactors ideal for small electric grids and for locations that cannot support large reactors, offering utilities the flexibility to scale production as demand changes.

[Advanced Reactor Technologies](#)

As a result of ARC research, nuclear energy will continue to provide clean, affordable, and secure energy while supporting the administration's greenhouse gas reduction goals by introducing advanced designs into new energy and industrial markets. DOE will pursue RD&D on both advanced thermal and fast neutron spectrum systems.

[Space Power Systems](#)

For over 50 years the Department of Energy and its predecessor agencies have been deeply involved in space research and exploration. Currently, the Office of Space and Defense Power Systems supplies Radioisotope Power Systems (RPS) to the National Aeronautics and Space Administration (NASA) and national security applications for missions that are beyond the capabilities of fuel cells, solar power and battery power supplies.

# John E. Kelly

Dr. John E. Kelly was appointed Deputy Assistant Secretary for Nuclear Reactor Technologies in the Office of Nuclear Energy in October 2010. His office is responsible for civilian nuclear reactor research and development portfolio, which includes DOE's programs on Small Modular Reactors, LWR sustainability, and Generation IV reactors. His office also is responsible for the design, development, and production of radioisotope power systems, principally for NASA missions. In the international arena, Dr. Kelly chairs the Generation IV International Forum.



Prior to joining the Department of Energy, Dr. Kelly spent 30 years at Sandia National Laboratories where he was engaged in a broad spectrum of research programs in nuclear reactor safety, advanced nuclear energy technology, and national security. In the reactor safety field, he led efforts to establish the scientific basis for assessing the risks of nuclear power plant operation and specifically those risks associated with potential severe accident scenarios. His research focused on core melt progression phenomena and this led to an improved understanding of the Three Mile Island accident. More recently, his expertise in severe accidents was applied to determine the consequences of the Fukushima Dai-Ichi accident. In the advanced nuclear energy technology field, he led Sandia's efforts to develop advanced concepts for space nuclear power, Generation IV reactors, and proliferation-resistant and safe fuel cycles. These research activities explored new technologies aimed at improving the safety and affordability of nuclear power. In the national security field, he led national efforts to evaluate the safety and technical viability of tritium production technologies.

Dr. Kelly is an active member of the American Nuclear Society and has served on the Nuclear Installations Safety Division for the last two decades in a number of leadership positions. His committee work has focused on increasing the publication of scientific work in the nuclear safety field and in developing national positions on the safety of nuclear power.

Dr. Kelly received his B.S. in nuclear engineering from the University of Michigan in 1976 and his Ph.D. in nuclear engineering from the Massachusetts Institute of Technology in 1980.

# CHAMA RIVER BREWING CO.

## PRIVATE ROOM

Our Porter Room and Brewers Room are the perfect places to schedule your lunch or dinner event for groups of 15 – 50 guests.

### Three Course Group Dinner Menu

#### Appetizer (1 appetizer per 4 guests)

Roast Garlic and Sun Dried Tomato Hummus  
Grilled Shrimp  
Masa Dusted Calamari  
Truffled Bleu Cheese Fries

#### Entrée choices:

**8 oz. Prime Rib**-slow roasted with buttermilk mashed potatoes, mixed vegetables, au jus and creamy horseradish  
**Cavatappi and Red Chile Parmesan Cream** ~ with sautéed shallots, crimini mushrooms, sun-dried tomatoes, spinach and peas  
**Grilled American Kobe Meatloaf** ~ served with buttermilk mashed potatoes, mixed vegetables, smoked tomato butter and crispy onions  
**Beer Battered Fish & Chips** -Atlantic cod in Class VI Lager batter with hand-cut fries & Napa slaw  
**BBQ Baby Back Ribs** ~ slow roasted and basted with house bbq sauce, hand-cut fries, Napa slaw  
**Red Chile Braised Duck Legs** – slow cooked in red chile, served with black beans, sautéed spinach and finished with a red chile demi-glace  
**Pinon Crusted Tilapia** – served over a scallion potato cake with green beans and a red pepper-habanero sauce

#### Dessert (1 Dessert per 4 guests)

Chocolate Fondue

#### Beverage

Choice of tea, soft drink, lemonade, or coffee

Porter Room and Brewers Room party bookings must be reserved in advance. During high volume days and/or dining times the rooms may not be available for booking. Please call the Chama River Brewing Co. management at 342 -1800 to discuss your large party needs.

Menu is subject to change.