

## Meet the Presenters...

### *Dr. Leonard W. Gray*

Dr. Leonard W. Gray, retired from LLNL for 10 years, has 45 years experience in the chemistry, engineering, and physics of plutonium processing. His assignments have taken him to nuclear facilities in Australia, China, France, England, Russia, and Scotland. He has won numerous awards for his work in chemical forensics and plutonium processing science. These include “Award of Excellence For Significant Contributions to the Nuclear Weapons Program” (his team was the first team at Savannah River to be awarded “The Award of Excellence” by the Director of Military Applications) and he is the only recipient from LLNL to be awarded the Glenn T. Seaborg Actinide Separation Award. Before retirement he was the Chief Scientist for the U. S. - Russian Plutonium Disposition Program. Dr. Gray remains active in retirement continuing to mentor young scientists, having served as Chief Scientist for the safe de-inventory and shut-down of the Heavy Element Facility, having authored the recent OUO publication “Worldwide Plutonium Production and Processing”, and presently serves as the Chairman of the Plutonium Experts Panel for the National Technical Nuclear Forensics Center of the Department of Homeland Security.



### *Dr. Kiel S. Holliday*

Dr. Holliday earned his Ph.D. in Radiochemistry from the University of Nevada, Las Vegas in 2009 under Dr. Ken Czerwinski. Dr. Czerwinski made it possible for his graduate students to work with radionuclides such as plutonium, curium, and technetium. From 2009 to 2011, Dr. Holliday was a post-doctoral researcher under Dr. Thorsten Stumpf at the Institute for Nuclear Waste Disposal in the Karlsruhe Institute for Technology in Germany. Kiel is currently permanent staff at Lawrence Livermore National Laboratory after starting as a post-doctoral staff in 2011. In his recently appointed position as the Deputy Associate Program Leader for Chemical Processing, Dr. Holliday is responsible for chemical operation in the LLNL plutonium facility. Since joining the laboratory, Kiel has worked on a variety of projects spanning the breadth of nuclear forensics. Past projects include: characterizing samples of interest and determining their forensic value; measuring nuclear data with 14 MeV neutrons at the National Ignition Facility; and analyzing nuclear fallout to improve post detonation nuclear forensics. Working with Dr. Gray, Dr. Holliday helps to capture his knowledge and experience into various tools for teaching the next generation of scientists.

