## LLNL Areas of Interest

Daniel Decman, POC Consortium for Verification Technology Kick-off Workshop October 16-17, 2014





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## Research Areas of LLNL interest

- Fundamental Physics: POC: Dr. Les Nakae
- Radiological, physical, and chemical signatures of weapons production processes and materials, including non-radioactive materials used in weapons production
- Characterization of Nuclear Proliferation Processes: POC: Dr. August Droege
- Physics-based models of proliferation process signatures, including EM, chemical, thermal, etc.
- Atmospheric, geophysical, and other signatures of weapons testing: POCs: Lee Davisson, Dr. Michael Kristo
- NRF-based applications for detection and Assay: POCs: Dr. M.S. Johnson, James M. Hall, Dennis McNabb
- Cross-sections
- · Monoenergetic sources
- Geosciences for Nonproliferation: POC: Dr. William R. Walter
- Modeling and Simulation
- Advances in Monte Carlo modeling tools for nonproliferation applications: POC: Dr. Ramona Vogt
- Advances in Nuclear data for nonproliferation and safeguards applications: POC: Dr. Bradley Sleaford
- Improved nuclear cross sections: POCs: Jason Burke and Ching-Yen Wu
- Systems modeling and interpretation for verification "architectures": POC: Dr. Richard Wheeler
- New Materials: POC: Dr. Steve Payne
- Mass Spectrometry: POC: Dr. Mike Kristo
- Advanced Neutron Detectors: POC: Dr. Adam Bernstein
- Policy and Technology: POC: Dr. Mona Dreicer
- Education and Outreach: POC: Dr. Annie Kersting