2011 PONI Spring Conference

Nevada Support Facility
Great Basin Room

Day One: Monday, April 4th

7:15 Shuttle bus departs from J.W. Marriott (Spa Tower) to Nevada Support Facility

8:00 Conference Check-in and Breakfast

8:30 Safety and Security Briefing
Nancy Holt, Chief of Staff, Office of the President, National Security Technologies

8:40 Opening Remarks
Clark Murdock, Senior Adviser and PONI Director, Center for Strategic and International Studies

8:50 Conference Welcome
Stephen Younger, President, National Security Technologies

9:00 Future Scenarios for Nuclear Strategists and Policymakers
Moderator: Andrew L. Ross, Director, Center for Science, Technology and Policy; and Professor, Department of Political Science, University of New Mexico

The Threat that Leaves Something to Chance in U.S.-China Relations
Vincent Manzo, Research Assistant, Institute for National Strategic Studies, National Defense University

Then and Now: Australian perspectives on Extended Nuclear Deterrence
Christine Leah, Doctorial Candidate, Strategic and Defence Studies Centre School of International, Political and Strategic Studies, College of Asia and the Pacific, Australian National University

Tracking a Nuclear al Qaeda
Kristen Hajduk, Research Associate, Institute for Defense Analyses

10:20 Break

10:30 Future Nuclear Requirements and Capabilities
Moderator: Charles McMillan, Principal Associate Director for Weapons Programs, Los Alamos National Laboratory

Qualitative Considerations of Nuclear Forces for Future Arms Control Negotiations
Tom Devine, Policy Analyst, SAIC and Rebecca Gibbons, PhD Candidate Georgetown University

Increasing the Scope of Targets: Requirements and a Proposed Solution
Drake Warren, Senior Member of Technical Staff, Sandia National Laboratories

Are Conventional Weapons a Viable Option for Damage Limitation Operations against Medium-sized Nuclear-armed Adversaries?
Tong Zhao, Ph.D. Candidate, Sum Nunn School of International Affairs, Georgia Tech University
11:50  **NUCLEAR DETERRENCE IN THE BROADER CONTEXT**  
Charles McMillan, Principal Associate Director for Weapons Programs, Los Alamos National Laboratory

12:20  **LUNCH**

1:10   **THE TRANSFORMATION OF THE NEVADA NATIONAL SECURITY SITE**  
Stephen Younger, President, National Security Technologies

1:40   **VERIFICATION AND DETECTION CHALLENGES**  
Moderator: Ping Lee, Director, National Center for Nuclear Security, National Security Technologies, LLC

The Challenges of Verifiable Nuclear Warhead Dismantlement
Guy Earle, British Defence Staff, British Embassy

Managed Access: Addressing the Technical Problems Associated with Verifying Actual Warhead Reductions
Foy Hubert, Center for Accelerator-based Research and High Energy Physics, Department of Engineering, University of Oslo, Norway

Verification Challenges at Low Numbers
Paul Booker, Mechanical Engineer and Jacob Benz, Nuclear Engineer, Pacific Northwest National Laboratory

The Challenge of Knowledge Transfer among Key Technical Areas and between Generations
Brian Ticknor, Senior Scientist, Savannah River National Laboratory

3:00   **BREAKOUT DISCUSSIONS**  
Next steps in arms control after New START

4:00   **END OF DAY ONE**

4:15   **Shuttle busses depart from the Nevada Support Facility for the Atomic Testing Museum**

5:00   **WELCOME TO THE ATOMIC TESTING MUSEUM**  
The Honorable Troy Wade, Former Director, Defense Programs, U.S. Department of Energy

5:30   **COCKTAIL RECEPTION**  
Harry Reid Hall (Museum Lobby)

6:30   **DINNER**  
Roger’s Rotunda

7:30   **KEYNOTE ADDRESS**  
Prof. Mark Welland FRS FREng, Chief Scientific Advisor, UK Ministry of Defence

8:30  **Shuttle returns guests to J.W. Marriott**
Day Two: Tuesday, April 5th

Nevada Support Facility
Great Basin Room

7:15  Shuttle departs from J.W. Marriott (Spa Tower) to Nevada Support Facility

8:00  COFFEE AND BREAKFAST

8:30  EXPANDING THE REACH OF NONPROLIFERATION AND NUCLEAR SECURITY EFFORTS
Moderator: Bernard Sitt, Director, Center for International Security and Arms Control Studies

Strengthening the IAEA: the Double Track
Sonia Drobysz, Ph.D. candidate, Panthéon Sorbonne University; Junior Associate Researcher, Center for International Security and Arms Control Studies

Paths and Limitations to Universalizing the Additional Protocol
Sarah Poe, M.A. Candidate, Monterey Institute for International Studies

Implementation of 2010 Nuclear Security Summit Commitments
Rob Golan-Vilella, Scoville Fellow, Arms Control Association

10:00 NEW START IMPLEMENTATION IN THE AIR FORCE
Col Melvin Deaile, Chief, Nuclear Plans, Policy and Integration, Air Force Global Strike Command

10:30 BREAK

10:40 NEW APPROACHES TO NORTH KOREA AND IRAN
Moderator: Joseph Pilat, Program Manager, Los Alamos National Laboratory

Megatons to Megawatts: A New Energy Policy in North Korea
John K. Yi, Master of Arts Candidate, Center for Eurasia, Russia and Eastern European Studies, Georgetown University

Non-proliferation Policy in the Media-Dominated Political Environment: the Iranian Case
Margarita Zolotova, United Nations Office of High Representative for Disarmament Affairs

12:00 LUNCH AND SPEAKER

The Role of the Nuclear Scientist and the Interface with Policy
Robert Kuckuck, Former Los Alamos National Laboratory Director

1:30 BREAKOUT SESSION RECAP
Mark Jansson, Deputy Director, Center for Strategic and International Studies

2:30 Shuttle returns guests to J.W. Marriott
Day Three: Wednesday, April 6th

Nevada National Security Facility

7:30  Load Shuttle Busses

7:45  Shuttle busses depart from J.W. Marriott (Spa Tower) to Nevada National Security Site

9:00  Tour of the Nevada National Security Site
      The unclassified tour will include the Frenchman Flats, U1A Underground Subcritical Test Facility, IceCap Ground Zero, Sedan Crater, Area 15 Source Physics Experiment, T-1 Training Area. Box lunches will be provided.

4:00  Shuttle busses return to the J.W. Marriott