

**2011 PONI SPRING CONFERENCE**

**Nevada Support Facility  
Great Basin Room**

**Day One: Monday, April 4<sup>th</sup>**

**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 5<sup>th</sup>****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 6<sup>th</sup>****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*