

**PONI CAPSTONE CONFERENCE AGENDA****Tuesday, March 25, 2014****Offutt AFB, Nebraska  
Dougherty Conference Center****7:00 CONFERENCE CHECK-IN & BREAKFAST****7:30 CONFERENCE WELCOME**

Lieutenant General James M. Kowalski, Deputy Commander, USSTRATCOM  
Clark Murdock, Senior Adviser and PONI Director, Center for Strategic and International Studies

**7:40 PANEL 1: DETERRENCE IN THE 21<sup>ST</sup> CENTURY**

Panel Moderator: Richard Wagner, Nonresident Senior Adviser, Center for Strategic and International Studies

Panel Reviewer: Linton Brooks, Nonresident Senior Adviser, Center for Strategic and International Studies

**National Security Implications of Eliminating Nuclear Weapons**

Robert Crockett, Systems Engineer, Northrop Grumman Corporation

**Modeling Perception: a Means to Build a Credible 21st Century Deterrent**

Edward Geist, Stanton Nuclear Security Fellow, RAND Corporation

**The Instability of a Post-Nuclear World**

David Blagden, Adrian Research Fellow in International Politics, Darwin College, University of Cambridge

**8:40 BREAK****9:00 MORNING KEYNOTE**

Admiral Cecil D. Haney, Commander, USSTRATCOM

**9:30 PANEL 2: NONPROLIFERATION AND NUCLEAR SECURITY**

Panel Moderator: Ivan Oelrich, independent consultant

Panel Reviewer: Clark Murdock, Senior Adviser and PONI Director, Center for Strategic and International Studies

**Gaps in International Trade Data: Highlighting Potential Trade in Proliferation-Related Technologies with Iran**

Christopher Nelson, Trade and Industry Analyst, Department of Commerce

**Building Responsible Nonproliferation Stakeholders: State Decision-making and the Nonproliferation Regime**

Jeffrey R. Fields, Professor of the Practice of International Relations and Director of the Dornsife Washington, D.C. Program, University of Southern California

**Preventing Nuclear Terrorism from the Inside Out: A Systems View of Security**

Marie Arrieta, Nuclear Engineer, Sandia National Laboratories

**10:30 BREAK****10:50 PANEL 3: MAINTAINING AND MODERNIZING THE NUCLEAR COMPLEX**

Panel Moderator: Linton Brooks, Nonresident Senior Adviser, Center for Strategic and International Studies

Panel Reviewer: David Jarvis, Associate Fellow, UK PONI

**Triads, Diads, and Interoperability: A Structured Approach to Tracing the Implications of Diversity on Deterrent Force Reliability**

Jarret M. Lafleur, Senior Member of Technical Staff, Sandia National Laboratories

**Brothers in Arms? The UK's Nuclear Warhead Dilemma**

Hugh Chalmers, Research Analyst, Royal United Services Institute

**Defining the Costs of the U.S. Nuclear Weapons Complex: Climbing the Modernization Mountain**

Marc Quint, Graduate Research Assistant, the James Martin Center for Nonproliferation Studies

**Nuclear Deterrence: Millennials Inheriting the Fight**

Kera A. Rolsen, Captain, United States Air Force

**12:10 BREAK****12:20 LUNCH & AFTERNOON KEYNOTE**

Dr. John Hamre, President and CEO, Center for Strategic and International Studies

**1:50 BREAK****2:00 PANEL 4: REGIONAL NUCLEAR DYNAMICS**

Panel Moderator: Clark Murdock, Senior Adviser and PONI Director, Center for Strategic and International Studies

Panel Reviewer: Richard Wagner, Nonresident Senior Adviser, Center for Strategic and International Studies

**Missile Defense in the Persian Gulf: Objectives and Feasibility**

Ari Kattan, Program Assistant, The George Washington University

**Pakistan's Tactical Nuclear Weapons: Challenges for Regional Strategic Stability**

Kyle Deming, Research Intern, Project on Nuclear Issues, Center for Strategic and International Studies

**India's Ballistic Missile Defense Program: Implications for Strategic Stability in South Asia**

Shane Mason, Herbert Scoville Jr. Peace Fellow, Carnegie Endowment for International Peace

**Wither the Nuclear Umbrella? U.S. Nuclear Assurances to Japan in a Changing Northeast Asian Security Environment**

Gary Sampson, Sasakawa Peace Foundation Non-Resident Fellow, Pacific Forum CSIS

**3:20 BREAK****3:40 PANEL 5: NEXT-STEPS FOR ARMS CONTROL AND VERIFICATION**

Panel Moderator: David Jarvis, Associate Fellow, UK PONI

Panel Reviewer: Ivan Oelrich, independent consultant

**U.S.-Russia Non-Strategic Nuclear Weapons Arms Control: Key Challenges**

Sarah Jacobs Gamberini, Policy Analyst, SAIC, OSD Office of Treaty Compliance (CTR)

**Technical Problems without Political Answer: China and the Future of Nuclear Arms Control**

Jiang Kang, PhD candidate, Centre for Science and Security Studies, Department of War Studies, King's College London

**Building on the Recommendations of the National Research Council report *The Comprehensive Nuclear Test Ban Treaty: Technical Issues for the United States: Near-Term Confidence Building Measures for the CTBT***

Benjamin J. Rusek, Program Officer, U.S. National Academy of Sciences

**The Internet of Things: Revolutionizing the Next Generation of Safeguards and Arms Control Verification**

Kit Conklin, Post-Master's Research Associate, Pacific Northwest National Laboratory

**5:00 END OF PRESENTATION PANELS****5:30 RECEPTION AT THE PATRIOT CLUB****6:30 DINNER & EVENING KEYNOTE**

Lieutenant General James M. Kowalski, Deputy Commander, USSTRATCOM

**8:00 END OF CONFERENCE****A NOTE ON PANEL REVIEWERS**

A new addition to the PONI Conference Series, Panel Reviewers are senior subject matter experts who volunteer to be available to panelists to provide feedback and advice after their presentations. If they desire this constructive criticism, presenters are responsible for seeking out their designated Panel Reviewer during or after the conference. This process is entirely optional for the panelists. We want to thank the Capstone Conference's Panel Reviewers for their time, expertise, and commitment to mentorship.