

Project on
Nuclear Issues

2009 CAPSTONE CONFERENCE

TUESDAY, DECEMBER 15, 2009

OFFUTT AFB, NE**DOUGHERTY CONFERENCE CENTER****7:00 COFFEE AND CONFERENCE CHECK-IN****7:50 CONFERENCE WELCOME**

Dr. Clark Murdock, PONI Director and Senior Adviser, Center for Strategic and International Studies

8:00 SESSION 1: EMERGING STRATEGIC AND POLITICAL CHALLENGES

Moderator: Dr. Clark Murdock, Senior Adviser, Center for Strategic and International Studies

North Korea's Nuclear Test and Prospects for the CTBT

Ms. Heather W. Williams, Research Associate, Institute for Defense Analyses

▪ Strategic Posture Implications of Chinese Nuclear Weapons Modernization

Mr. Matt Squeri, M.A. Candidate, Strategic Studies and International Economics, Johns Hopkins University, School of Advanced International Studies

▪ Goldilocks Missile Defense: Promoting Strategic Stability in East Asia

Mr. Chris Jones, Research Assistant, International Security Program, Center for Strategic and International Studies

▪ The Impact of the US withdrawal from the ABM Treaty on "Other" Nuclear Nations

Mr. Gary Axton, Systems Engineer, Systems and Software Organisation, Lockheed Martin

9:30 BREAK**9:45 SESSION 2: PREVENTING NUCLEAR PROLIFERATION**

Moderator: Dr. Bernard Sitt, Director, Center for International Security and Arms Control Studies

▪ Mitigating Proliferation Risks by Strengthening International Enforcement

Dr. Robert Brown, Assistant Professor, Temple University

▪ Friends Don't Let Friends Proliferate: Evidence from Sanctions and Lessons for Disarmament

Dr. Scott Helfstein, Assistant Professor and Associate, Combating Terrorism Center, United States Military Academy

- **Positive Incentives and Nonproliferation: Myths, Realities, and Policy Options**
Dr. Jeffrey Fields, Foreign Affairs Officer, Office of Strategic Planning, Bureau of International Security and Nonproliferation, U.S. Department of State
- **U.S. Nuclear Security Guarantees: Maintaining Protection in the 21st Century**
Ms. Sara Kutchesfahani, Ph.D. Candidate, University College, London

11:15 BREAK

11:30 SESSION 3: NEW METHODS FOR PREVENTING AND DEFENDING AGAINST NUCLEAR AND RADIOLOGICAL ATTACKS

Moderator: Dr. James Tegnella, Former Director, Defense Threat Reduction Agency

- **The Global Nuclear Detection Architecture (GNDA)**
Mr. Ryan Connelly, Architecture Directorate, Domestic Nuclear Detection Office, U.S. Department of Homeland Security
- **The Use of Unmanned Aerial Vehicles (UAVs) in Response to Nuclear/Radiological Terrorism**
Mr. Daniel Dalton, General Engineer, U.S. Department of Energy
- **NYPD Radiation Operations: Confronting the Radiological and Nuclear Threat**
Ms. Elana DeLozier, Intelligence Research Specialist, Counterterrorism Bureau, New York City Police Department
- **Integration of Science, Operations, Law and Policy for a Robust System to Support WMD Attribution Decisions**
Dr. Randall S. Murch, Associate Director, Center for Technology, Security and Policy, Virginia Tech University

1:00 LUNCH AT THE PATRIOT CLUB

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

2:30 SESSION 4: KEY ISSUES AFFECTING THE NUCLEAR STOCKPILE, DELIVERY PLATFORMS AND OPERATORS

Moderator: Mr. David Jarvis, Strategic Systems Analyst, Lockheed Martin Insys

- **Recycling Nuclear Designs: An Examination of Yield to Weight Concerns**
Dr. Benn Tannenbaum, Associate Program Director, Center for Science, Technology and Security Policy American Association for the Advancement of Science
- **How Could Britain Operate a Scaled Down Deterrent?**
Mr. Paul Higson, Organisation Development Specialist, Atomic Weapons Establishment
- **Unique and Complementary Characteristics of the ICBM and SLBM Systems**
Mr. Mitch Bott, System Engineer, Aerospace Systems, Northrop Grumman Corporation

- **The New ICBM Nuclear Professional**
Lt. Bruce MacNeil, Executive Officer, 526th ICBM Systems Group, United States Air Force

4:00 BREAK

4:15 SESSION 5: THE FUTURE OF THE NUCLEAR ENTERPRISE
Moderator: TBD

- **The Myth of Knowledge Transfer: A Perspective on Future Technical Competency at the US National Laboratories**
Mr. Matthew Cowan, Deputy Program Manager, Defense Technologies Engineering Division, Lawrence Livermore National Laboratory
- **How Much Science is Enough?**
Ms. Nicola S. Cox, Senior Systems Engineer, Atomic Weapons Establishment
- **A Question of Trust: Revitalizing the Nuclear Weapon Complex's Most Fundamental and Endangered Resource**
Dr. Lani Miyoshi Sanders, Principal Member of the Technical Staff, Sandia National Laboratories
- **Is It Time to Denuclearize the Department of Energy?**
Mr. Stephen Schwartz, Editor, *The Nonproliferation Review*, James Martin Center for Nonproliferation Studies

5:45 END OF CONFERENCE

6:30 RECEPTION

7:00 DINNER AT THE PATRIOT CLUB
Address by General Kevin Chilton, Commander, United States Strategic Command