

2014 PONI SUMMER CONFERENCE AGENDA

Lawrence Livermore National Laboratory
Center for Global Security Research
Building 170, Room 1091/92 Conference Room
7000 East Avenue
Livermore, CA 94550

Day One: Tuesday, June 3

8:00 SHUTTLE DEPARTS FROM DOUBLETREE LIVERMORE

8:15 CONFERENCE CHECK-IN & BREAKFAST

8:45 CONFERENCE WELCOME

Clark Murdock, Senior Adviser and Director of the Project on Nuclear Issues, Center for Strategic and International Studies

8:50 OPENING REMARKS

Bruce E. Warner, Principal Associate Director, Global Security, Lawrence Livermore National Laboratory

9:00 PANEL 1: STRATEGIC STABILITY, DETERRENCE, AND NUCLEAR FORCE STRUCTURE

Panel Moderator: James Tegnalia, Former Director, Defense Threat Reduction Agency

Panel Reviewer: Michael Elliott, SES, Deputy Director for Strategic Stability, Strategic Plans and Policy Directorate, the Joint Staff

The Shaky Foundations of Contemporary Strategic Stability

Dumitru Minzarari, PhD Candidate in Political Science, University of Michigan-Ann Arbor

Future of Strategic Stability in South Asia: Opportunity for the U.S.

Rabia Akhtar, PhD Candidate and Fulbright Scholar, Department of Security Studies, Kansas State University

Role of Stockpile Confidence in Deterrence

Aaron Miles, Physicist/Group Leader, Weapons and Complex Integration, Lawrence Livermore National Laboratory

Arguing in Perfect Harmony: A Search for Order among U.S. Nuclear Force Structure Evaluation Criteria

Jarret Lafleur, PhD, Senior Member of Technical Staff, Sandia National Laboratories

10:20 BREAK

10:40 PANEL 2: PAST AND POTENTIAL CHALLENGES TO NONPROLIFERATION

Panel Moderator: Douglas Shaw, Associate Dean for Planning, Research, and External Relations, Elliott School of International Affairs

Panel Reviewer: Thomas A. Julian, Visiting Adjunct Professor, U.S. Air Force Institute of Technology

Test Results: Lessons from the U.S. Response to Nuclear Testing Events

Timothy Westmyer, Research and Program Assistant, Rising Powers Initiative, George Washington University

Begin's Sleepless Nights: Israel's Attack on the Osirak Reactor

David D. Palkki, Stanton Nuclear Security Fellow, Council on Foreign Relations

Contextualizing Islamic Perspectives on Nuclear Weapons

Bennett Seftel, Research Intern, Project on Nuclear Issues, Center for Strategic and International Studies

The Future that Came: Ukraine's Territorial Integrity and the Budapest Memorandum

Mariana Budjeryn, PhD Candidate, Central European University, Hungary

12:00 LUNCH & BREAKOUT DISCUSSION: A "CLEAN SLATE" LOOK AT NUCLEAR FORCE STRUCTURE

Various Rooms

1:30 BREAK**1:40 TECHNICAL TALK: "STRATEGIC LATENCY"**

Zachary Davis, PhD, Senior Fellow, Center for Global Security Research, Lawrence Livermore National Laboratory

Bob Yamamoto, Principal Investigator for the Electromechanical Battery (EMB) Program and Z-Program Chief Engineer, Lawrence Livermore National Laboratory

2:30 BREAK**2:50 PANEL 3: NEW APPROACHES TO NUCLEAR SECURITY AND NONPROLIFERATION**

Panel Moderator: Lisa Owens Davis, Intelligence Program Director, Office of Strategic Outcomes, Lawrence Livermore National Laboratory

Panel Reviewer: Craig R. Wuest, Special Scientific Advisor, Office of the Assistant Secretary of Defense for Nuclear, Chemical, and Biological Defense Programs

"Beyond the Beep": Rethinking Traditional Counter Nuclear Smuggling Operations and the Importance of Interagency Coordination both Before and After Detection

Aryn Brooke Weinberg, Foreign Affairs Officer, Office of Weapons of Mass Destruction Terrorism, Department of State

Implementation Considerations of National Nuclear Forensics Libraries (NNFL)

Jerry Davydov, Research Associate, Eurasia Nonproliferation Program, James Martin Center for Nonproliferation Studies

Looking Forward: the Need for Alternatives to Helium-3 in IAEA Safeguards

Naomi Egel, Assistant Researcher, Nuclear Policy Working Group, University of California, Berkeley

Apratim Vidyarthi, Assistant Researcher, Nuclear Policy Working Group, University of California, Berkeley

Remote Sensing and the Parchin Military Site in Iran

Thomas Devine, Analyst, The Boeing Company

4:10 BREAK**4:30 BREAKOUT RECAP**

Moderator: Clark Murdock, Senior Adviser and Director of the Project on Nuclear Issues, Center for Strategic and International Studies

5:30 SHUTTLE DEPARTS FOR DOUBLETREE LIVERMORE**6:00 RECEPTION**

Grand Ballroom, DoubleTree Livermore

7:00 DINNER & EVENING KEYNOTE: “GLOBAL ZERO: AN ASSESSMENT”

Brad Roberts, William J. Perry Fellow in International Security, Center for International Security and Cooperation and former Deputy Assistant Secretary of Defense for Nuclear and Missile Defense Policy

8:30 END OF DAY ONE

Day Two: Wednesday, June 4

8:00 SHUTTLE DEPARTS FROM DOUBLETREE LIVERMORE

8:30 BREAKFAST & MORNING KEYNOTE: “ATOMIC AVERSION: EXPERIMENTAL EVIDENCE ON NUCLEAR TABOOS, TRADITIONS, AND USE”

Scott Sagan, Caroline S.G. Munro Professor of Political Science, Stanford University and Senior Fellow, Freeman Spogli Institute and Center for International Security and Cooperation

9:20 BREAK

9:40 PANEL 4: MAINTAINING AND MODERNIZING THE NUCLEAR ENTERPRISE

Panel Moderator: William O'Donnell, Director, Intelligence, Plans, and Resources Integration Directorate, Defense Threat Reduction Agency

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

The National Nuclear Narrative: Essential Steps to Arrest the Decay of U.S. Nuclear Deterrence

Heath Wharton, Chief of Nuclear Operations, U.S. Nuclear Command & Control System Support Staff (US NCCS)

An Overview of Hydrodynamic Testing, Challenges and Advancements in Underwriting a States Nuclear Stockpile

Paul Willis-Patel, Hydrodynamic Scientist, Hydrodynamics Technology Centre at the Atomic Weapons Establishment, UK

The Challenges of Assigning Accurate Costs to the Nuclear Mission

Alexander Gallo, Research Associate, Institute for Defense Analyses

10:50 BREAK

11:10 PANEL 5: OPPORTUNITIES AND OBSTACLES FOR ARMS CONTROL AND GLOBAL ZERO

Panel Moderator: Robert J. Vince, Director, National Security Office, Lawrence Livermore National Laboratory

Panel Reviewer: Hans Kristensen, Director, Nuclear Information Project, Federation of American Scientists

21st Century Nuclear Arms Control: A Framework for the Next Generation of Treaty Negotiations -- and Treaty Negotiators

Justin Anderson, PhD, Senior Policy Analyst, Science Applications International Corporation
Darci McDonald, Senior Policy Analyst, Science Applications International Corporation

The Folly of the ‘Humanitarian Initiative’: Why the Ottawa Process Won’t Ban Nuclear Weapons

Zachary Klein, JD/MA Candidate, Georgetown University

Consequences of Nuclear Disarmament Proposals

Adam Mount, PhD, Georgetown University

Dr. Strangelove or: How I Learned to Stop Worrying and Ratify the CTBT

Wesley Neuman, Master of Public Policy, University of Maryland School of Public Policy

12:30 LUNCH & TECHNICAL TALK: “TECHNICAL REASONS FOR TESTING”

Bruce Goodwin, PhD, Associate Director-at-Large, National Security Policy & Research and
Director, Center for Global Security Research, Lawrence Livermore National Laboratory

2:00 DEPART FOR OPTIONAL TOURS

National Ignition Facility
Terascale Simulation Facility
National Atmospheric Release Advisory Center
Center for Accelerator Mass Spectrometry

4:00 END OF CONFERENCE

SHUTTLE DEPARTS FOR DOUBLETREE LIVERMORE