2020 Deterrence and Assurance Academic Alliance Workshop and Conference

March 11-12, 2020

Deterrence: Theory to Application; a Cyclone of Challenges

0700 – 0800  Transportation to Innovation Center / Registration and Check-in / Light Breakfast & Refreshments

Meet and greet with Academic Alliance faculty

0800 – 0805  Opening Remarks by Iowa Governor Kim Reynolds

0805 – 0810  Dean of Liberal Arts, Beate Schmittmann

0810 – 0830  Rear Admiral Ryan Scholl, USN Deputy Director, Plans and Policy, U.S. Strategic Command

0830 – 0945  Panel Session 1

Option 1: “Russia: Global Power or Global Bully?” – ROOM
Chair: Scott Feinstein, Political Science, Iowa State University

*Deterring Russian Disinformation Operations in the Digital Age*
(Turner Adams, Will Brunner, Megan Elbel, Sean Knowlton, & Ashlee McGill – University of Nebraska - Lincoln)

*Sino – Russian Economic Cooperation*
(Jenna Vigal – University of Nebraska – Lincoln)

Deterrence in the Danger Zone: How the U.S. can deter Russian Grayzone Conflict NPS Russia
(Whitney Cissell – Naval Post Graduate School)

Option 2: “The Domain Race”– ROOM

Chair: Alric Rothmayer, Chair Aerospace Engineering, Iowa State

*From Escalate to De-Escalate to A2/AD: Misperceptions of Russian Defense Policy and Implications for NATO’s Modern Deterrence and Assurance Posture*
(Andrew Carroll – Columbia University)
Space Race, Are We Doomed? The Inevitability of a Space Arms Race
(Dana Hoppe, Drew Bydalek, Jordan Wong, Justin Myers, Liam Carroll – University of Nebraska – Lincoln)

Integration of Long-Range Multi-Domain Fires
(John Brandes – National American University)

Option 3: Factors of Deterrence: Government and Public
Chair: Dr. Tim Wolters, History Department, Iowa State University

Global Roommates: Signing the Lease on Deterrence
(Katie Brees – University of Nebraska – Omaha)

Corruption, Perceptions, and Nuclear Strategy?
Errick Wernecke – University of Nebraska – Omaha

Using History as a Guide to Predict China’s Behavior
(Medicine Flower Blue Star – University of Nebraska, Omaha)

Deterrence Strategies 2020
(Alladin Dafalla – University of Northern Iowa)

0945 – 1000 Break

1000 – 1120 Panel Session 2

Option 1: “Threats to the Eastern Front” – ROOM
Chair:

The Little Sea of Great Importance: The Baltic Region as Geostrategic Crush Zone
(Rafał Kopeć, Ph.D. & Przemysław Manzur Ph.D. – Pedagogical University of Krakow)

U.S. and NATO Interests in the Rise of Turkish Nationalism
(Ryan Kovich – Iowa State University)

Russian Intervention in Eastern European State Building & its Implications for Extended Deterrence Theory
Jacob Johnston – Iowa State University

Option 2: “Enduring CWMD Challenges” - ROOM
Chair:

A Participatory Model of Nuclear Escalation between India and Pakistan
(Marc Warbuton – University of Nebraska – Lincoln)
What is North Korea’s Nuclear Strategy?
(Dong-hyeon Kim – Research Fellow, Pacific Forum)

A Balancing Act: Prevention versus Deterrence for Combating Islamic Extremism
(Emma Mantel, Anna James, Veronica Miller, Holly Kerr - University of Nebraska, Lincoln)

How Russia and Turkey’s Cooperation Impacts The United States and Deterrence Strategies in the Middle East
(Patrick Baker, Andrew Neill, Lexi Robertson, Lauryn Wengert – Univ.of Nebraska, Lincoln)

1200 – 1330 Lunch

1200 – 1300 A Conversation about Cyber-Deterrence/Security

Elizabeth Durham-Ruiz (SES-2), Director, C4 Systems, U.S. Strategic Command

- Dr. Michael Sulmeyer (SES-2), Senior Technical Advisor, U.S. Cyber Command
- Dr. Steffen Schmidt, Lukkan Professor of Political Science, Iowa State University
- Dr. Doug Jacobson, Director, Information Assurance Center, Iowa State University

1330 – 1500 Panel Session 3

Option 1: Factors of Deterrence: Other Parties – ROOM

Chair:

Strategic Corrosion: Climate-Driven Threats to U.S. Force Posturing in the Indo-Pacific
(John Ellis – University of Nebraska – Lincoln)

Global Security: Deterrence Strategies 2020
(Alladin Dafalla – University of Northern Iowa)

A Global Necessity for CBRNE
(Zach Zippe – University of Northern Iowa)

What Are Counternarrative Strategies and How Do They Contribute to Successful Deterrence Strategies?
(Maryam Zafar – University of Nottingham, United Kingdom)

Option 2: “Asia Pacific Deterrence Challenges” - ROOM

Chair: Dr. Michael Sulmeyer (SE4-2) Senior Technical Advisor, US Cyber Command

Analysis of Economic Motivations for Chinese Cyber Policy
Measuring the Doomsday Gap: How Russian and Chinese Scholars Think AI will Affect Nuclear Deterrence with the United States
(Ryan Fedasiuk, Georgetown University)

(Maorong Jiang – Creighton University)

Option 3 Factors of Deterrence: Incorporating Gender into Deterrence Decision-making
Chair: Michelle Black, Ph.D. – University of Nebraska – Omaha

- Abigail Garden, Graduate Student – University of Nebraska - Omaha
- Lana Obradovic, Ph.D. – University of Nebraska-Omaha (invited)
- Add Name, Ph.D. – Iowa State University
- Council on Foreign Relations Rep

1500 – 1515 Break

1515 – 1615 Tour and Demonstrations Session #1 – Participants are encouraged to opt for one of these tours for each of the two sessions. Space is limited on some tours so register early.

Aero Space Tour

- Aerospace Tour – The Aerospace Engineering Department at Iowa State University is one of the largest undergraduate programs in the nation. This tour will overview current undergraduate educational activities, including: multi-disciplinary industry supported design /test facilities that support high altitude balloon flights, rocketry, rover design and UAV design; 6DOF neutral buoyancy tank capstone design activities; and a unique university icing tunnel used in undergraduate labs.

VRAC Tour

- VRAC Tour – Guided tour through Iowa State University’s Virtual Reality Applications Center (VRAC), an interdisciplinary research center focused on the goal of enhancing productivity and creativity at all levels of the interface between humans and technology. The VRAC includes state-of-the-art technology in virtual, augmented, and mixed reality (VR/AR/MR); as well as mobile computing, developmental robotics, and haptics interaction.

Cyber Demonstration
• Cyber Demonstration – As a National Security Agency Academic Center of Excellence, Iowa State University is one of the first universities across the nation to implement a Cyber Security Engineering degree program. This demonstration will provide an overview of common network penetration (i.e., “hacking”) techniques as well as vulnerability exploitation for personal electronic devices such as smart phones.

○ Nuclear Weapons Effects – Lyle Martin, Lawrence Livermore National Labs
• Nuclear Weapons Effects – Scientists from the Lawrence Livermore National Laboratory will provide an overview of nuclear weapons fundamentals and effects. This unclassified discussion will include blast, thermal, and radiation effects information gained throughout the U.S. nuclear weapons testing program.

• Career Fair

1615   Academic Alliance Meeting (Room to be announced)

1615 – 1630   Break

1630 – 1730   Tour and Demonstrations Session #2 (see above for descriptions)
  • Aero Space Tour
  • VRAC Tour
  • Cyber Demonstration
  • Nuclear Weapons Effects – Lyle Martin, Lawrence Livermore National Labs
  • Career Fair

1730 – 1830 – RECEPTION

Innovation Atrium – Heavy Hors d ’Oeuvres

1800 - 1805   Opening Remarks - Jonathan Wickert, Provost – Iowa State

Opening remarks: Virtual Joni Ernst, IA Senator.

  Talking Points: DA3 importance to government, passing the torch to the next gen

1820 – 1840   Award Ceremony – Jonathan Wickert, Provost Iowa State University
  Alric Rothmayer, Chair Aerospace Engineering

1840 – 1900   Major General Clint Crosier, Recipient Aerospace Distinguished Alumni Award

1900 – 1945   Admiral Charles Richard, STRATCOM Commander
12 March 2016

0700 – 0800  Transport to Innovation Center /
Registration and Check-in / $10.00 fee for participants

Light Breakfast & Refreshments

0800 – 0820  Key Note Speaker – Ret. Rear Admiral Franken

0820 – 0830  Academic Alliance Photo

0830 – 0930  Wargame Start-Ex:
  ▪ Admin
  ▪ Deterrence Overview
  ▪ Adversary Decision Calculus/DIME Framework
  ▪ Wargame DNI Situation Update

0930 – 1100  Move 1: Blue Team Breakout Sessions (5 Teams)
  ▪ Facilitator Decision Calculus Walkthrough
  ▪ Whole of Gov Recommendation Development

1100 - 1200  Blue Team COA Briefs & Discussion to NSC
  ▪ 8 mins per team (est.)
  ▪ COA execution to Red Team by NSC

1200 – 1300  Participant Lunch
  ▪ Red Team Deliberation

1300 – 1320  Red Team Response to Blue Team

1320 – 1430  Plenary (Open Discussion)/Closing Comments