



July 2019

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DETERRENCE AND ASSURANCE

Academic Alliance Newsletter

<http://www.stratcom.mil/Academic-Alliance/>

Notes from the Director

Greetings Alliance Members and Friends,

I look forward to seeing you at the upcoming 2019 Deterrence Symposium at the La Vista Conference Center in La Vista, Nebraska, 31 July – 1 August.

Mr. Michael Powell in USSTRATCOM/J55, the command project lead, continues to organize this exceptional event for all participants. The tenth annual Deterrence Symposium provides an excellent opportunity to engage deterrence experts from government, academia, industry, and the international community. As

in previous years, we anticipate over 700 participants. The command greatly appreciates those of you that submitted a paper for the General Larry D. Welch Writing Award and we also look forward to learning from the students that are showcasing their research poster presentations. At the event, I will also have the opportunity to meet with you at the annual Academic Alliance meeting.

For more information and to register for the Deterrence Symposium: <https://stratcomds.com/>.



RADM Richard A. Correll

Sincerely,

Rich Correll

RADM, USN
Director, Plans and Policy

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Recent Events



VADM Dave Kriete, USN, Deputy Commander, USSTRATCOM (center) with faculty and students

(1 Apr) National Defense University (NDU) students visit USSTRATCOM

Students at the Eisenhower School participating in the inaugural Undersea Industry Study (UIS) course in Washington DC met with VADM Dave Kriete, Deputy Commander, USSTRATCOM and command subject matter experts to discuss strategic deterrence, the future of undersea warfare and receive briefings.

CAPT Thomas Monroe, USN the course director, led this group of senior level civilian and military officers.

Recent Events (continued)



Gen John Hyten, USAF, Commander, USSTRATCOM (center) with faculty and students

(2-5 Apr) National Defense University (NDU) students at the Eisenhower School in the Nuclear Command, Control, and Communications (NC3) Industry Study course in Washington DC met with Gen John Hyten, Commander, USSTRATCOM and command subject matter experts. Col Elvert "El" Gardner, USAF teaches this course designed to educate students on NC3 modernization.

The course also focuses on continuing U.S. government and industry efforts to modernize nuclear triad systems (i.e., industry structure, conduct, performance, human capital, supply chain management, and governance considerations of the NC3). USSTRATCOM is the NC3 Enterprise combatant command lead.



Mr. John Dietz, Mr. Jason Lang, and Mr. Chris Kuklinski

(15-16 Apr) Members of USSTRATCOM's Strategic Deterrence Degree Program presented at the International Conference on Wireless, Aerospace and Satellite Communications in Amsterdam, Netherlands. The USSTRATCOM presenters - Mr. John Dietz (J4-Logistics Directorate), Mr. Jason Lang (J7-Joint Exercise, Training and Assessments), and Mr. Christopher Kuklinski (J3-Global Operations Directorate) led discussions on structural changes to the Intelligence Community following 9/11 intelligence community reorganization, the applicability of Cold War principles towards cyber deterrence in today's, multi-polar nuclear environment, and the evolution of strategic deterrence to meet the demands of the 21st century.

Dietz, Lang, and Kuklinski were joined with presenters representing the Air Force Institute of Technology, the Naval Postgraduate School, as well as researchers from private industry and international academia from Germany, Switzerland, Japan and Greece.



VADM Kriete (center) with CGSC members

(16 Apr) Field grade officers from the Army Command and General Staff College in the Art of War Scholars at Fort Leavenworth, Kansas program visited USSTRATCOM. This small cadre of competitively selected officers are involved in a yearlong intensive, graduate level seminar that requires in-depth personal research focused primarily on understanding strategy and operational art through modern military history.

Students engage in in-depth analysis of historical monographs, current doctrine, and staff rides focused on command decisions and frequent dialogue with topical experts and practitioners of the art of war. Dr. Dean Nowowiejski, Program Director led this group of officers from the U.S., Ireland, and the United Kingdom. VADM Kriete and command subject matter experts met with the students.



COL Mark Vertuli, USA, at Princeton University

(25-26 Apr) COL Mark Vertuli, USA, USSTRATCOM J3F Chief of Future Operations Plans, participated in Princeton University's Center for International Security Studies conference on "A New Era of Great Power Competition".

As a member of a panel discussion on competition in political warfare and the information domain, COL Vertuli described how the access, spread, and speed of information in the 21st century, especially through space and cyberspace, has made competition in the information environment the predominate "playing field" for great power competition.



COL Vertuli and panelists

Recent Events (continued)

(26 Apr) Congressman Don Bacon and Mr. Felix Ungerman met with Dr. Lana Obradovic and Dr. Michelle Black of University of Nebraska at Omaha (UNO) and Mr. Pat McKenna and Ms. Katie Cooper of USSTRATCOM to discuss collaborative programs with academic institutions. The USSTRATCOM Academic Alliance encourages an academic community of interest focused on research and analysis of deterrence, assurance, and associated strategic level national security themes. UNO was one of the initial Academic Alliance members and hosted the first (2016) and fourth (2019) annual Academic Alliance Conference and Workshop. Iowa State will host this event in Ames, Iowa from 11-12 March 2020.



Congressman Don Bacon (center-right) with representatives from UNO and USSTRATCOM

Shout Out!



Congratulations to USSTRATCOM interns Ms. Abby Garden and Ms. Jenna Vigal. They were selected for the 2019 Strategic Force Analysis Boot Camp hosted by Sandia National Laboratories in Albuquerque, NM. The goal of the Boot Camp is to train the next generation of analysts to prepare them for critical academic and policy debates. The Carnegie Corporation of New York sponsors this event. Analysts from Sandia, Georgetown University and Dartmouth College are providing their expertise in support of this event.

(20-21 May) At King's College London in the United Kingdom, the Deputy Director, Plans and Policy, Mr. Bob Taylor, SES, participated in the Competitive Strategies Analytic Group Experiment to support development of an evidence-based NATO theory of success for grey-zone conflicts. The following day he represented the command as a panelist at the "Out-Thinking Competitors through Strategic Wargaming" workshop. This forum provided the opportunity to share perspectives on wargaming. While at King's College London, Mr. Taylor met Dr. Philip Sabin, Professor of Strategic Studies, War Studies Department. This university is a member of the United Kingdom Deterrence and Assurance Academic Alliance, which is affiliated with the USSTRATCOM Academic Alliance.



Mr. Taylor and Dr. Philip Sabin

(21-23 May) Mr. Bob Taylor represented USSTRATCOM at the annual "Putting Modern Deterrence into Practice" conference and workshop. This event was sponsored by the Defence Academy, King's College London, and the United Kingdom Academic Alliance led by Defence Science and Technology Laboratory. Ambassador Sarah MacIntosh CMG, UK Permanent Representative to NATO and Dr. Brad Roberts of Lawrence Livermore National Laboratory were the keynote speakers. Mr. Taylor presented on the panel "Current and Developing Approaches to Deterrence". Panels, workshops, and discussions focused on modern deterrence to address the complex security environment with a focus on sharing ideas, best practices, and strengthening participant relationships.

(24 May) At the Royal Danish Defence College (RDDC) in Copenhagen, Denmark, Mr. Taylor met with RADM Henrik Ryberg the Commandant, Mr. Ole Kvaerno the Dean, and LTC Martin Lihme, Danish Liaison Officer assigned to USSTRATCOM. The addition of the RDDC in the Academic Alliance offers a rich and unique perspective on deterrence and security. As part of this engagement, Mr. Taylor also met with RADM Frank Trojahn, Chief of Staff, Plans, Policy and Coordination at the Defence Command Denmark. While at the University of Copenhagen, Mr. Taylor spoke with Dr. Henrik Breitenbach, Director, Centre for Military Studies to learn about his research efforts.



Mr. Taylor, RADM Henrik Ryberg, LTC Martin Lihme, and Mr. Ole Kvaerno



Recent Events (continued)

(30 May) Established in 2016, the Deterrence Degree Program provides scholarships to USSTRATCOM assigned military and civilians to develop and foster critical thinking on deterrence and assurance. There are 18 students in the program with the first three graduating this summer—Mr. Brent Backman (Harvard University), Ms. Ashley Broin (Harvard University) and Mr. Christopher Kuklinski (King's College London). Students share and give back to the command the knowledge gained from these educational programs. For more information on this program, contact: Mr. Todd Saylor, STRATCOM/J14, todd.a.saylor.civ@mail.mil.



Mr. Brent Backman
Master of Liberal Arts, International Relations with a Nuclear Deterrence Graduate Certificate
Harvard University



Ms. Ashley Broin
Master of Liberal Arts, International Relations with a Nuclear Deterrence Graduate Certificate
Harvard University



Mr. Chris Kuklinski
Master of Arts, War in the Modern World
King's College London



RADM Correll with Cadet Myles Arenson

(20 Jun) Cadet Myles Arenson is a U.S. Air Force Academy (USAFA) cadet that recently completed a 4-week internship in USSTRATCOM/J5 – the Plans and Policy Directorate. He researched and prepared a paper titled, "He Said, Xi Said: The Difficulty of Military Communication between the U.S. and China".

Cadet Arenson's paper is being reviewed for publishing. At the completion of his internship, he briefed RADM Correll on his internship experience. Cadet Arenson graduates from the USAFA in May 2020. Through the efforts of USAFA and the USSTRATCOM Academic Alliance, a cadet summer intern program was established in 2019.



Upcoming Academic Alliance Speaker Series Presentation

(23 Aug 19, 1200-1300 CT)

Dr. Damon Coletta, U.S. Air Force Academy, "Game Theory and Deterrence in the Second Nuclear Age"

Contact the Academic Alliance to present your research on the Speaker Series.

To view upcoming/past Speaker Series: <https://www.stratcom.mil/Academic-Alliance/Speaker-Series/>



(Fall 2019)

Dr. Todd Sechser, University of Virginia, "Nuclear Use and Public Opinion"

Speaker Series

(3 Apr) Dr. Julia MacDonald, University of Denver, “How to Think About Nuclear Crises”

SMA hosted a speaker session presented by Dr. Julia Macdonald (University of Denver) as a part of its SMA STRATCOM Academic Alliance Speaker Series. Dr. Macdonald began by discussing the increased media coverage of the potential for nuclear crisis, especially amidst rising tensions between North Korea and the US, the suspension of the nuclear arms control treaty between the US and Russia, and great power competition. She then outlined five factors to consider when thinking about nuclear crises: 1) risk of nuclear use, 2) whether the nuclear or conventional military balance is more important in determining outcomes, 3) nuclear superiority value, 4) feasibility of communication or “signaling” within nuclear crises, and 5) level of threat. She stated that nuclear crises can vary on at least two dimensions: incentives for nuclear first use and the degree to which escalation is controlled by participants in the crisis. Dr. Macdonald then revealed a 2x2 matrix in which nuclear crises can be placed and identified the four models, each of which was represented by a quadrant in the matrix. The models included: 1) the “Staircase” model, 2) the “Stability-Instability” model, 3) the “Brinkmanship” model, and 4) the “Firestorm” model. For each model, she provided an in-depth explanation of its characteristics and identified an empirical example. To conclude, Dr. Macdonald stated that there is not a single logic of nuclear crises, since different crises have different underlying dynamics. She stressed that approaching nuclear crises with these models in mind can help make sense of contradictory findings and views among analysts. She also warned that drawing conclusions without taking this variation in views into account could lead to misleading inferences. Link: <https://nsiteam.com/how-to-think-about-nuclear-crises/>



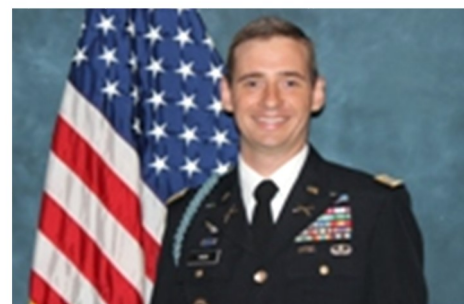
(29 May) Dr. Joshua Kertzer, the Paul Sack Associate Professor of Political Economy, Harvard University, “Resolve in International Politics”

In this talk, Dr. Kertzer focused on the psychology of resolve in international politics. Resolve is the ability to stand firm while others back down. At the end of the day, resolve isn’t directly observable, nor is it easy to figure out another side’s breaking point. He stressed that precisely because resolve is unobservable is why it is so important. Assessing resolve as an “ill-structured problem” requires choosing different indicators to draw inferences about resolve. Dr. Kertzer breaks down resolve into a basic equation of two parts: Resolved = situational features + dispositional characterizes. Situational features are the equivalent to the cost of war (costs of fighting but also the costs of backing down, including reputation costs). So how do actors answer these costs? They do through dispositional characteristics. These include time preferences (preference of future to the present); risk preferences, honor orientations, and trait self-control. In testing the interactionist theory of resolved, Dr. Kertzer worked to explain variation in resolve in public opinion towards military interventions and assess how resolve affects state behavior. The results from the experiment show that lay people think alike—that elites assess resolve similarly to the public. Further study will look at cross-cultural variations in assessments of resolve, difference between elite and mass cognition, and aggregation in foreign policy decision-making. Link: <https://nsiteam.com/resolve-in-international-politics/>



(31 May) MAJ Andrew Webb, USA, “Rethinking Strategy: A History of the Ends, Ways Means Model”

The circumstances of 1980s is why “Ends, Ways, Means” was developed and emerged as a dominate framework. Today, however, the Lykke’s “Ends, Ways, Means” model is inadequate for most strategy making. MAJ Webb informs us that COL Lykke developed his model over several years in the late 1970s through 1980s to initially teach students at the War College. Lykke was then called to provide testimony to the US Senate Arms Services Committee. In May 1989, “Defining Military Strategy” was published in Military Review and presented as the main, driving narrative for this edition. Throughout the 1980s, the US Military realized that its impetus was to protect the Middle East and potentially prepare for conflict with the Soviet Union. The second major driver of this change was within the US Army at this time. The Army was existing under the shadow of Vietnam and the transformation of the Army, especially doctrine, including Active Defense and AirLand Battle. Doctrine becomes the center for how the Army thinks and fights. Lykke’s “Ends, Ways, Means” model of strategy emerged as the dominate strategy model within the U.S. Army in the 1980s despite three major weaknesses. First, Lykke separated military strategy from national strategy. The second is the problem of formulation. He made it additive (ends + means + resources) despite that even if one is missing, you still have strategy. Third, his questionable use of quotations from strategists (particularly use of speech from Maxwell Taylor). Rethinking the Ends, Ways, Means model is vital due to the overall importance of doctrine and the potential impact it has and overall, we are currently in a different world from the 1980s. Link: <https://nsiteam.com/rethinking-strategy-a-history-of-the-ends-ways-means-model/>



Deterrence and Assurance Academic Alliance Members and Partners



New Members



Royal Danish Defence College, Denmark



PennState
Applied Research Laboratory

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Shout Out!

General Larry D. Welch
2019 Writing Award Winners

Senior Division

Mr. Geoffrey Brown

“India’s Deterrence Goldilocks Dilemma in South Asia”

Georgia Institute of Technology

Junior Division

2d Lt Liam J. Connolly, USAF

(former cadet when entered competition)

“Extended Deterrence and Resilience in the Baltic States”

U.S. Air Force Academy

Shout Out!

Deterrence Symposium

Academic Alliance Panel Selectees—"New Thinking on Deterrence"

Moderator

Dr. Amy Schweikert

Assistant Professor, Colorado School of Mines

Panelists

Ms. Julia Ciocca

University of Pennsylvania

Ms. Isobel Tidbury

University of Nottingham, United Kingdom

Ms. Alexa Wehsener

University of California, Berkeley

Mr. Eric Winter

Coastal Carolina University

Poster Presentation Selectees

Cadet Myles Arenson

"He Said, Xi Said: The Difficulty of Strategic Communication between the U.S. and China"

U.S. Air Force Academy

Ms. Kate Brees

"A New Cold War? Russia's Militarization of the Arctic"

University of Nebraska Omaha

Mr. Gryphon Delaney

"Neuroscience Impact on Deterrence Operations"

University of Nebraska Omaha

Mr. Michael Gross

"China in the Arctic: Security and Economic Implications"

University of Nebraska Omaha

Ms. Jenna Vigal

"Russia – China Relationships"

University of Nebraska Lincoln

Ms. Lauren Zimmerman

"Keeping Rocket Man from Burning Out His Fuse – Looking at the de-nuclearization of lack thereof, of the North Korean Regime"

University of Nebraska Omaha

Save the Dates



31 July-1 August 2019

**2019 USSTRATCOM
Deterrence Symposium**

**La Vista Conference Center,
La Vista, NE**

**Registration:
www.stratcomds.com**

**Contact Mr. Michael Powell
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2 August 2019

**2019 USSTRATCOM
Experience Day**

**Offutt AFB, Omaha, NE
“An Introduction to the Com-
mand's Missions, Capabilities &
Operations”**

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11-12 March 2020

**5th Annual Deterrence and
Assurance Academic Alliance
Conference and Workshop**

**Iowa State University
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