



DETERRENCE AND ASSURANCE

Academic Alliance Newsletter

January 2019

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Notes from the Director

Greetings Alliance Members,
Happy New Year! As you will see in the following pages, Fall was a busy period for Command leadership and the Academic Alliance staff. So far, Winter has proven just as busy as we work with the University of Nebraska - Omaha to plan the 4th Annual Academic Alliance Conference and Workshop, which will be held on 7-8 March 2019.

As part of this event, we have planned for you a thought provoking and challenging table top exercise in which participants assume the role of national security decision-makers tasked to offer whole-of-

government solutions to resolve a regional pre-crisis scenario. I look forward to speaking with those who attend the conference and hearing both students and professors present their deterrence and assurance research.

Finally, I am excited to introduce our new Pathways interns, Joe Morris, Jenna Vigal, Gryphon Delaney, Kate Brees, and Abby Garden. Welcome to the USSTRATCOM team!

Sincerely

Richard A. Correll

RADM, USN
Director, Plans and Policy



RADM Richard A. Correll

4TH ANNUAL ACADEMIC ALLIANCE
CONFERENCE AND WORKSHOP
7-8 MARCH 2019



UNIVERSITY of
NEBRASKA
OMAHA

Inside this Issue:

Notes from the Director	1
Recent Events	1
Speaker Series Presentations	4
DA3 Members and Partners	6
New DA3 Members	6
DA3 Member Points of Contact	7
Gen Larry D. Welch Writing Award	9
Upcoming Conference and Workshop	9
Save the Dates	10

Recent Events



Joe Morris, Jenna Vigal, Gryphon Delaney, Abby Garden and Kate Brees

Intern News: Joe Morris is a Master's Degree student in Missouri State University's (MSU) Department of Defense and Strategic Studies Program, taught at MSU's Washington, DC satellite campus. Abby Garden is a University of Nebraska - Lincoln (UNL) senior Political Science major, who spent time in Scotland researching Scottish independence. Gryphon Delaney, a University of Nebraska - Omaha (UNO) senior neuroscience major, is interested in the cognitive and psychological aspects of deterrence. Jenna Vigal, a UNL junior majoring in Global Studies focused on Russia, spent time in St. Petersburg in an intensive language program. Kate Brees is a junior Communications major at UNO.

Recent Events (continued)



Dr. Tyler White's Nuclear Deterrence Honors Seminar and DA3 staff at University of Nebraska - Lincoln



Lt Col Paul Hoffman, USAF, Dr. S. Michael Pavelec, and Dr. Paul J. Springer of Air University



Brig Gen Christopher Coffelt, USAF speaks at St. Edward's University, Austin, TX



Lt Col Fielder's Air Force Academy wargaming class

(2 Oct) University of Nebraska - Lincoln: Dr. Tyler White invited DA3 staff to meet with students of his Nuclear Deterrence Honors Seminar. Students presented research topics for papers to submit to the 2019 Academic Alliance Conference and Workshop, DA3 staff helped refine their research questions.

(11 Oct) Air University: Deputy Director of Nuclear Operations, Brig Gen Christopher Coffelt, USAF, introduced Air University educators who presented at USSTRATCOM headquarters during a well-attended session of "USSTRAT Talks." Dr. Paul Springer spoke to the legal/ethical considerations of "Outsourcing War to Machines," the topic of a 2018 book authored by him with that title. Dr. S. Michael Pavelec spoke on concepts of future war; and Lt Col Paul Hoffman discussed VEOs and current threats. The session can be viewed at: https://www.youtube.com/watch?v=yU2pXo3h07k&t=0s&list=PLzO_KvP4phUavMFdVQo3rYiQWiiy_T-mEL&index=2&spfreload=10.

(25 Oct) University of Nebraska - Omaha: DA3 staff visited UNO to discuss paper topics with students of UNO's Intelligence Community Scholars Program led by Dr. Lana Obradovich. Topics explored by the students range from cyber attack thresholds for DOD response to climate change effects on deterrence.

(7 Nov) Iowa State University: DA3 staff met with students of Dr. Ellen Pirro and Captain Scott Curtis, USN, Commanding Officer of ISU's Naval Reserve Officer Training Corps, who co-teach a test course in Assurance & Deterrence. Students of the experimental class out-briefed DA3 staff on a table top exercise (TTX) they ran related to a NATO response to a notional Russian incursion in Ukraine. Fielding DA3 Q&A, students answered questions about the decisions made during their game play. The visit concluded with DA3 staff briefing students on USSTRATCOM missions and an overview of deterrence and planning.

(9 Nov) National Defense University: Deputy Director, Plans and Policy, Rear Admiral Ryan Scholl, USN, met with Mr. Paul Bernstein who oversees the NDU-USSTRATCOM Scholars Program to discuss collaboration on deterrence education efforts. RDML Scholl also met with Brig Gen Kyle Robinson, USAF (Commandant, Eisenhower School) and Col Elvert Gardner, USAF (Eisenhower School Faculty) to discuss a newly developed NC3 Industry Modernization course and potential future USSTRATCOM collaboration in the teaching of the course.

(12 Nov) St. Edward's University: Brig Gen Coffelt spoke on the evolving threat environment and U.S. Air Force deterrence efforts during an event titled, "Evolving Challenges in Safeguarding Nuclear Security: Case of North Korea and Beyond," held at the Kozmetsky Center of Excellence, St. Edward's University in Austin, TX.

(13 Nov) Colorado School of Mines (CSM): DA3 staff traveled to Golden, CO to meet with Dr. Mark Deinert, Associate Professor, Department of Mechanical Engineering, and CSM faculty and students, about Academic Alliance membership. During the visit, DA3 learned about CSM's "Nuclear Science and Engineering Program," an interdisciplinary curriculum of nuclear forensics, radiation detection and damage measurement, and nuclear security policy. The visit included briefs on several related research projects. CSM was welcomed into the Academic Alliance in January 2019, and plans to attend the annual conference in March.

(14 Nov) U.S. Air Force Academy: DA3 staff met with Dr. Damon Coletta and Lt Col James D. Fielder, USAF to discuss war gaming as a tool for applied learning. While there, DA3 staff observed students playing the war games they designed and interacted with them about their design

choices. One war game scenario involved a regional crisis simulation, while the other focused on resource management in space capability development among nation states.

(14 Nov) Georgetown University: USSTRATCOM Deputy Director of Plans and Policy, Mr. Robert Taylor, SES, spoke to students enrolled in Dr. Matt Kroenig's International Security course. During the visit Mr. Taylor briefed the class on the command's mission, presented an overview of deterrence, and offered ways they could participate in upcoming Academic Alliance events and opportunities.

(15 Nov) University of Denver - Josef Korbel School of International Studies: DA3 staff met with Dr. Lewis Griffith, Dr. Julia MacDonald, and Dr. Kevin Archer to discuss opportunities for collaboration. CENEX (Crisis Engagement and Negotiation Exercise), a graduate student run simulation environment, was offered as one opportunity for future Academic Alliance engagement. Since the visit, Dr. MacDonald has agreed to present her research into nuclear crises during the April 2019 session of the USSTRATCOM Academic Alliance speaker series.

(21 Nov) U.S. Naval Academy: RDML Scholl met with the Honorable William (Bill) Ostendorff to discuss course development support and DA3 engagement opportunities. During the visit Prof. Ostendorff shared his perspective on nuclear policy gleaned from experience as both Principal Deputy Administrator at the National Nuclear Security Administration and as a former Commissioner at the U.S. Nuclear Regulatory Commission. Also in attendance were Col Jeffrey Smitherman, USMC, Dean of Humanities and Social Sciences, and CAPT Robert Chadwick, USN, Commandant of Midshipmen.

(29 Nov) Baltic Defence College, U.S. Nuclear Strategy Panel: Mr. Pat McKenna, Chief, USSTRATCOM Plans Evaluation and Research Division, presented on U.S. nuclear strategy at the Senior Leaders Course via Skype. His remarks focused on the 2018 Nuclear Posture Review (NPR), in which he emphasized continuity with previous NPRs while addressing low-yield ballistic missile warhead and sea-launched cruise missiles.

(30 Nov-2 Dec) Harvard University: RDML Scholl and USSTRATCOM staff participated in "Red Horizon: A Strategic War Game on U.S.-Russia-China-EU Relations," an event hosted by Harvard's Davis Center for Russian and Eurasian Studies. The simulation explored military wargaming and diplomatic multi-stakeholder negotiation.

(3 Dec) University of California, Berkeley - Nuclear Policy Working Group (NPWG): Mr. Taylor and DA3 Coordinator Ms. Katie Cooper participated in the SIGNAL Nuclear Gaming Symposium hosted by the Project on Nuclear Gaming (PoNG). The game explored and analyzed effects of military capabilities upon nuclear thresholds, conflict escalation dynamics, and strategic stability through the use of serious games. Participants included researchers from Lawrence Livermore and Sandia National Labs and other academic institutions.

The visit included a meeting with Dr. Bethany Goldblum, Founder and Director of the Nuclear Policy Working Group - UC Berkeley (NPWG), to discuss engagement opportunities with USSTRATCOM and to welcome NPWG as a new DA3 member.

(4 Dec) Stanford University (CISAC): Mr. Taylor and DA3 Coordinator Ms. Cooper met with Dr. Harold Trinkunas, Dr. Siegfried Hecker, and Dr. Scott Sagan and participated in a luncheon with CISAC faculty and fellows at Stanford. Fellows had an opportunity to ask questions about the command and to discuss their current research agendas.



Iowa State students and DA3 staff with CAPT Scott Curtis, USN and Prof. Ellen Pirro



Mr. Robert Taylor, SES and Dr. Bethany Goldblum



Mr. Taylor with Stanford faculty and fellows

Recent Events (continued)



VADM David Kriete, USN (center) speaks with MCWAR faculty and students

(4-5 Dec) Marine Corps War College (MCWAR) Command Visit: USSTRATCOM Deputy Commander Vice Admiral David Kriete, USN, welcomed MCWAR faculty and students with a two-hour discussion and Q&A session on nuclear deterrence and the strategic environment. MCWAR's visit also included briefs on USSTRATCOM's mission, planning, operations, and a tour of the Global Operations Center, as well as briefs on deterrence, space policy, and nuclear weapons effects.

MCWAR is the senior Professional Military Education institution of the Marine Corps. It educates selected military and civilian professionals in order to develop critical thinkers, military strategists, joint warfighters, and strategic leaders to meet the challenges of a complex and dynamic security environment.



Gen John Hyten, USAF (center, left) speaks with the Australian Defence Force and academics in Australia

(11 Dec) Academic Roundtable, Australian Defence Force Headquarters, Canberra Visit: USSTRATCOM Commander Gen John Hyten, USAF and RADM Correll met with Air Vice-Marshal Stephen Meredith, Head Force Integration, Royal Australian Air Force. Representing the United States Studies Centre were Mr. Ashley Townshend, Ms. Madelyn Creedon, and Mr. Brendan Thomas-Noone. Representing the Australian National University were Prof. John Blaxland, Prof. Rory Metcalf, and Dr. Nina Silove. They discussed Australian strategic defense issues and opportunities for academic engagement.

Recent Academic Alliance Speaker Series Presentations



(16 AUG) Dr. David Dorondo, professor of modern German and European Military History at Western Carolina University, "The U.S. Army and Nuclear Deterrence: A European Historical Context."

The release of the 2018 U.S. Nuclear Posture Review occasioned discussion, sometimes heated and sometimes ill-informed, of the theoretical capability of U.S. nuclear forces to respond to non-nuclear strategic attacks (cyber, hypersonic conventional weapons, etc.). Dr. Dorondo's presentation revealed that the history of U.S. and Allied nuclear forces in NATO has always possessed a theoretical capability in its operational rationale. For several decades, the United States Army played a significant role in contributing to such nuclear deterrent forces in Europe. These fielded nuclear forces were adjusted over time to meet changing geostrategic circumstances until they were stood down in 1991. For slides and audio to this presentation visit: <https://nsiteam.com/the-us-army-and-nuclear-deterrence-1955-1991-a-european-historical-context/>



(22 AUG) Dr. Jared Dunnmon, a postdoctoral research fellow at Stanford University, "NC2 in the 21st century: Maintaining Surety in Outer Space and Cyberspace."

Dr. Dunnmon spoke to the challenges facing 21st Century nuclear command, control, and communication (NC3), among them, increased U.S. reliance on a space-based NC3 architecture. He identified potential NC3 vulnerabilities in both outer space and cyberspace and explained a few major classes of exploitable flaws in these domains. He then discussed various technological tools currently being developed for risk mitigation, and policy tools that "adapt old rules to new domains." Dr. Dunnmon concluded his presentation by talking through a scenario (an Advanced Extremely High Frequency [AEHF] satellite malfunction). For slides to this presentation visit: <https://nsiteam.com/nuclear-command-and-control-in-the-21st-century-maintaining-surety-in-outer-space-and-cyberspace/>

(12 SEP) Mr. John Warden, Institute for Defense Analysis, "Limited Nuclear War: The 21st Century Challenge for the US."

Mr. Warden's presentation focused on an adversary who may come to believe it can engage in and win a limited nuclear war with the United States and its allies. He provided a few historical examples in which nations engaged in limited war, and focused on U.S. and Soviet Cold War era plans for limited nuclear war in Europe from the 1950s-1970s. He then discussed the "21st Century Challenge" (Russia, China, and North Korea, dissatisfied with the Washington-led international order, pursuing strategies and capabilities to challenge U.S. influence) the potential implications. Mr. Warden then explained the relative attractiveness and potential benefits of nuclear escalation in a variety of scenarios, as well as the likely costs and risks of crossing the nuclear threshold. To conclude his brief, Mr. Warden presented a series of adversary strategies for prevailing in limited nuclear war and ways in which the United States and its allies can strengthen deterrence. For slides and audio to this presentation visit: <https://nbsiteam.com/limited-nuclear-war-the-21st-century-challenge-for-the-united-states/>



(7 Nov) Dr. Adam Stulberg and Dr. Lawrence Rubin, Georgia Tech, "The End of Strategic Stability? Nuclear Weapons and the Challenge of Regional Rivalries."

Dr. Adam Stulberg and Dr. Lawrence Rubin of Georgia Institute of Technology spoke about their recent book, published in 2018. Dr. Rubin began the session posing two key questions: 1) How do regional rivals understand strategic stability? and 2) How do these understandings of strategic stability affect arms-racing, posture, and doctrine? He then explained that although strategic stability means different things in different contexts to different actors, it still remains important. Dr. Rubin concluded his portion of the presentation by proposing the adoption of tailored strategic stability, a "framework rooted in basic tenets not solely focused on the nuclear dimension as the organizing principle." Next, Dr. Stulberg explained that asymmetries, interdependencies between nuclear rivals, subjective interpretations of critical concepts, and the diversity of practical meaning all contribute to the differences prevalent in interpretations of strategic stability. He also discussed a variety of cross-cutting conceptual distinctions, including nuclear weapons as absolute weapons/existential threats, national core values and fears, parity, and interdependence across multiple domains/relationships. Dr. Stulberg concluded by outlining several direct and indirect implications for U.S. strategy, and posed a variety of questions regarding transparency, the role of non-state actors, trade-offs, and the future of arms control. For slides and audio to this presentation visit: <https://nbsiteam.com/the-end-of-strategic-stability-nuclear-weapons-and-the-challenge-of-regional-rivalries/>



(29 Nov) Dr. Andrew Futter, University of Leicester, "Hacking the Bomb: Nuclear Weapons, Cyber Threats and the Incipient Digital Age."

Dr. Andrew Futter highlighted cyber threats and nuclear weapons research contained in his book, published in 2018. First, he introduced what he referred to as the cyber-nuclear nexus. He then discussed 11 things one should know about cyber threats and their relationship with nuclear weapons: 1) Cyber is a contested concept; 2) Cyber and nuclear are different domains; 3) Some cyber challenges are inherent; 4) Cyber threats are diverse; 5) Air gapping is not a panacea; 6) Espionage and IP theft are the biggest cyber threats; 7) Deterrence can play a role in the cyber-nuclear realm, but it has to be nuanced; 8) Viewing cyber as a "separate" domain is unhelpful; 9) Cyber threats are most dangerous in a crisis; 10) Humans are an absolutely fundamental part of the cyber challenge; and 11) There seems to be an emerging norm of "hacking the bomb." Dr. Futter concluded by offering a series of recommendations, among them, that the United States keep its nuclear facilities "simple, separate, and secure." For slides and audio to this presentation visit: <https://nbsiteam.com/hacking-the-bomb-cyber-threats-and-nuclear-weapons/>



(12 Dec) Dr. Dan Altman, Georgia State University, "Is the Fait Accompli the Primary Challenge for Deterrence in the 21st Century?"

Dr. Altman argued that the term "fait accompli" deserves more attention and should be used more frequently in discussions regarding deterrence. He began by explaining three ways in which challengers get what they want: through brute force, coercion, or fait accompli. Providing examples of each, he next elaborated on fait accompli, and discussed how it is actually a far more common tactic than both brute force and coercion, providing statistics of how frequently each has been used over the past century. He also argued when nations engage in fait accompli, they usually seize either very small (e.g., one or a few provinces) or very large (e.g., entire regions or nations) territories. Chinese land reclamation in the Spratly Islands and its implications was offered as an example of such territorial disputes. To conclude, he stated that "fait accompli" is quite possibly the primary challenge for 21st Century deterrence and provided several policy recommendations. For slides and audio to this presentation visit: <https://nbsiteam.com/is-the-fait-accomplis-the-primary-challenge-for-deterrence-in-the-21st-century/>





Upcoming Academic Alliance Speaker Series Presentations

(21 Feb 9:00-10:00am CT) Dr. Todd Sechser, University of Virginia, will be speaking on "Nuclear Use and Public Opinion."

(5 Mar 9:30-10:30am CT) Dr. Krista Langeland, associate physical scientist at the RAND Corporation, will present on "Influence and Deterrence."

(7-8 Mar) USSTRATCOM Deterrence and Assurance Academic Alliance 2019 Conference and Workshop at University of Nebraska at Omaha: <https://www.unomaha.edu/college-of-arts-and-sciences/political-science/research/det-assurance2019.php>

(3 Apr 12:00-1:00pm CT) Dr. Julia MacDonald, University of Denver, Korbel Institute will present on nuclear crises.

Deterrence and Assurance Academic Alliance Members and Partners



Welcoming New DA3 Members

Nuclear Policy Working Group, University of California - Berkeley

University of Texas at San Antonio

Colorado School of Mines



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Shout Out!



Special thanks to Mr. Jim Lamar, USSTRATCOM multi-media specialist, for designing the Deterrence and Assurance Academic Alliance logo. As always, we greatly appreciate your support and creativity.

DA3 members we need your support in suggesting a motto for our group. Please forward your recommendations to the Alliance POC's listed on page 1.

Don't Miss Out!

Seeking Submissions for the 2019 General Larry D. Welch Deterrence Writing Award

The Commander, United States Strategic Command is sponsoring a competition for the best research papers on the subject of strategic deterrence. Participating schools and researchers are asked to submit papers to USSTRATCOM by 10 May 2019. Submissions will be judged in one of two categories ("Senior Researcher" and "Junior Researcher"). The winning author in each category will be recognized with an award, as well as an invitation and funding to attend the 2019 Deterrence Symposium in Omaha, Nebraska scheduled for 31 July and 1 August 2019.

Website: http://www.stratcom.mil/Portals/8/Documents/2019_Gen_Welch_Det_Writing_Award.pdf?ver=2019-01-17-171200-350



Deterrence and Assurance Academic Alliance

Conference and Workshop

7-8 March 2019



The Fourth Annual two-day conference will feature a USSTRATCOM hosted Table Top Exercise (TTX) focused on deterrence and assurance issues, along with panel presentations and workshop sessions held at the University of Nebraska - Omaha. This year UNO received a record number of paper abstract submissions from students, faculty, and professionals. The conference will include coffee, lunch, and an evening reception with keynote addresses from UNO and USSTRATCOM representatives. Registration is now open. There is no fee to attend this conference.

Website: <https://www.unomaha.edu/college-of-arts-and-sciences/political-science/research/det-assurance2019.php>

Save the Dates



7-8 March 2019

**4th Annual DA3 Conference and
Workshops
hosted by the
University of Nebraska at Omaha**

(Omaha, NE)

Theme: "Collaborative Approaches
to Deterrence"

[https://www.unomaha.edu/
college-of-arts-and-sciences/
political-science/research/det-
assurance2019.php](https://www.unomaha.edu/college-of-arts-and-sciences/political-science/research/deterrence2019.php)

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31 July-1 August 2019

**2019 USSTRATCOM
Deterrence Symposium**

(La Vista Conference Center,
La Vista, NE)

Registration:
www.stratcomds.com

Contact Mr. Michael Powell for
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30 July 2019

**2019 USSTRATCOM
Experience Day**

(Offutt AFB, Omaha, NE)

"An Introduction to the Com-
mand's Missions, Capabilities &
Operations"

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