



Deterrence and Assurance

Academic Alliance Newsletter

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

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Notes from the Director:
USSTRATCOM, Director Plans and
Policy Major General Nina M. Armagno

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Greetings Alliance Members,

As noted in the last newsletter, I have replaced Maj Gen Clint Crosier as the Director Plans & Policy at U.S. Strategic Command. One of my most important responsibilities is developing an actionable Deterrence Campaign Plan. This is a complex and difficult task--if you attended the USSTRATCOM Deterrence Symposium, you know that in two days of discussions we only scratched the surface of what it takes to "deter" an actor. At USSTRATCOM, we work every day to assure our allies and deter potential adversaries. After meeting many of you at the Academic Alliance meeting in July, I am confident that research and dialog through the Alliance is a key piece in helping us crack the deterrence equation.

I'm excited about the 2017-2018 academic year and encourage faculty & students to read the new list of research topics posted on the Alliance website. My staff and I stand ready to work with you to address these or other questions pertaining to deterrence and assurance in the 21st Century. I expect a terrific DA3 conference (Mar 18) at the University of Nebraska-Lincoln. I look forward to hearing your ideas on how we can work together.

My sincere thanks goes out to all of you. By applying your academic talents to the many complex problems of deterrence and assurance, you are doing our Nation a great service thinking about these challenges.

Nina M. Armagno

Recent Events

Academic Alliance Panel at the 2017 USSTRATCOM Deterrence Symposium (27 Jul 2017): Five student members of the Academic Alliance presented their research at the 2017 USSTRATCOM Deterrence Symposium during a panel titled "New Thinking on Deterrence." Mr. Howard Buffett, a lecturer at Columbia University and the panel moderator, opened the session by citing the importance of the Alliance to USSTRATCOM's mission of deterrence and assurance, and noted the research being presented by the panelists demonstrates the commitment and support of higher education to deterrence studies. The Symposium had 650 government, academic, and industry participants from 14 nations.



Pictured (L-to-R):
Ms. Kelley McCaa (University of Nebraska-Omaha),
Lt Col David Anderson (National War College), Ms. Karena Kyne (University of Lancaster, UK),
LtCol Carl Priechenfried (Joint Advanced Warfighting School),
Ms. Rachel Urban (University of Nebraska-Lincoln), and
Mr. Howard W. Buffett (Columbia University)

Recent Events (continued)

Ms. Rachel Urban, a student at the University of Nebraska at Lincoln, presented her research on U.S. interests in the South China Sea through an examination of four potential future scenarios. Two scenarios stood out as most relevant, with the main driver for potential conflict being economy. One was characterized by high American resolve with high Chinese ambition. Ms. Urban assessed it as the most likely scenario for a 'hot war' between the two countries. The other most relevant scenario was characterized by low American resolve and low Chinese ambition that saw intense cyber and economic competition between the U.S. and China.



LtCol (USMC) Carl Priechenfried, former student at the Joint Advanced Warfighting School (JAWS), turned the discussion to cyberspace. He discussed the idea of conducting actions in cyberspace as a distinct instrument of national power. He believes reframing cyber as a separate instrument of national power will offer additional options for strategic decision-makers at the national level. LtCol Priechenfried proposed changing our approach to cyberspace and treating it strategically, instead of thinking of it as a only a military capability, will increase the prospect for deterring malign actors in cyberspace.

Ms. Karena Kyne of the University of Lancaster (UK), presented her research on the impacts that technological change has on military logistics. The acceleration of technological change and increasing complexity now requires the military to have omnipresent awareness. Ms. Kyne proposed leveraging technological gains to improve logistics and making deterrence more reliable and viable.

Lt Col (USAF) David Anderson, former student at National War College, began his discussion by asserting war in space is likely because space has become a domain poised for an escalating arms race due to increasing tensions, lack of transparency, and a paucity of international norms and law. He stated the U.S. can avoid stumbling into conflict by instituting domestic and international organizational changes in its current approach to space.

Continuing the discussion of how space and deterrence are intertwined, Ms. Kelley McCaa from the University of Nebraska at Omaha focused her remarks on her team's research into deterring China in Space and protecting U.S. satellite infrastructure. Ms. McCaa recommended the U.S. begin the use of Electronic Warfare Officers in the theater of space for monitoring, the regulation of ASAT technology via international efforts as a means of preventing warfare in space, and the development of quantum communications and counter-quantum capabilities.



Recent Events (continued)

DA3 Annual Member Meeting (26 Jul 17) The annual meeting was well attended by faculty and students from more than a dozen member institutions. Maj Gen Armagno offered welcoming remarks and introduced herself to the members. The discussion revolved around upcoming events for this academic year, the research topics that USSTRATCOM would publish for this academic year, as well as encouraging alliance members to also suggest additional topics and research questions. The group also discussed ideas on how to develop outlets for members to publish their research. Air and Space Power Journal was discussed as a potential way to publish, and there was some discussion about the importance for graduate students and professors to publish in established journals with good reputations, to achieve their professional goals. Discussion moved toward developing a mechanism for undergraduate students to discuss and disseminate their research. A representative from U.S. Northern Command also participated in the meeting to gain a better understanding of how the Alliance operates and to inform USNORTHCOM's development of an academic alliance for their command.



Pictured (L-to-R): Gen John Hyten, Ms. Shelby Haas, Ms. Bethany Vailliant, Ms. Media Ajir & Lt Gen Bob Hinson

2017 General Larry D. Welch Deterrence Writing Award (27 Jul 17) Academic Alliance students from the University of Nebraska at Omaha won the 1st Place Award in the Junior Division of the Welch Deterrence Writing Award. The students, Ms. Shelby Haas, Ms. Bethany Vailliant, and Ms. Media Ajir wrote a paper titled "Russian Information Warfare and Implications for Deterrence Policy." Their research examined propaganda efforts from the Soviet era through the present, as well as cyber tactics employed by Russia today. Gen John Hyten, Commander, USSTRATCOM, presented the award accompanied by Lt Gen (ret) Bob Hinson.

USSTRATCOM Experience Day (28 Jul 17). Academic Alliance professors and students joined military and government officials from the UK, Canada, Australia, New Zealand, France, Germany, Poland, Denmark, and Japan at Offutt AFB to get a close-up look at the assets the U.S. relies on to operationalize deterrence. The group toured the USSTRATCOM Global Operations Center, followed by a close-look and aircrew briefings at a B-52 strategic manned bomber, an OC-135 Open Skies Treaty aircraft, and an E-6B Airborne Command Post/ICBM Airborne Launch Control System aircraft. The tours also included a THAAD (Terminal High Altitude Area Defense) launcher from the Army Air Defense Artillery School at Ft. Sill, Oklahoma.



THAAD Launcher from the Army Air Defense Artillery School (Ft Sill, OK)



B-52 Bomber from the 5th Bomb Wing (Minot AFB, ND)

Recent Events (continued)



Gen John Hyten, Commander, U.S. Strategic Command, welcomed the 2017 Experience Day participants, which included international government and military dignitaries from nine nations and members from multiple Academic Alliance institutions.



SSgt Aubrey Irizarry, Open Skies Treaty Aircraft Interpreter-Sensor Operator, talks to Academic Alliance members and allied partners about flying missions over Russia.

Lt Col Matt Stanley, B-52 navigator, explains capabilities of the B-52 bomber to Experience Day participants from within the aircraft's bomb bay.



USSTRATCOM Officials to Speak at the University of Nebraska at Lincoln. On 25 Sep, a team of DA3 officials from USSTRATCOM met with students of Dr. Tyler White's "Politics of Nuclear Weapons" course, discussing STRATCOM's views on deterrence theory. The visit also included initial focused discussions to define student teams' ideas for research projects during the 2017-2018 academic year.

Welcoming New DA3 Members

U.S. Strategic Command welcomes Texas A&M University (Dr. Matthew Fuhrmann) as the newest member of the Deterrence and Assurance Academic Alliance. We look forward to collaborating with Matt and learning from his expertise in international relations and nuclear proliferation.

Upcoming Events

(NEW DA3 FORUM) Academic Alliance Speaker Series. We are excited to announce the inaugural Academic Alliance Speaker Series event on **11 Oct 17 at 1000 ET**. This new venue is a collaborative effort between the DA3 and OSD's "Strategic Multi-Layered Assessment (SMA)" activity. The format for the series is a dial-in teleconference open to DA3 members and the broader SMA community. Each event in the series will include a 30-minute presentation and a 30-minute Q&A period. The initial session on 11 Oct features **Dr. Steffen Schmidt** from Iowa State University on the topic of "*Is there Such a Thing as Cyber Deterrence and What is it?*" Our second speaker will be **Dr. Matthew Fuhrmann** from Texas A&M University on **7 Nov**. His presentation will focus on "*Coercive Diplomacy and Nuclear Deterrence.*" The distribution list for the series reaches over 4000 people across DOD. An email invitation with dial-in instructions and access codes for the first session will be distributed to members approximately 4 Oct 17. Please share it with your colleagues.

Iowa State University Visit (9 Oct 17). Maj Gen Clint Crosier (HQ USAF A-5/8) will visit Iowa State University to meet with Dr. Ellen Pirro, faculty, and student members of the DA3 to discuss the global security environment and to refine their proposals for deterrence and assurance focused research. Gen Crosier is a graduate of ISU and an alumni of its Air Force ROTC detachment.

Call for Deterrence & Assurance Related Research. The DA3 2017-2018 Academic Year Research Topics are posted at <http://www.stratcom.mil/Academic-Alliance/Research-Topics/>. We encourage faculty and students across the Alliance to review the topics and consider research focused on these USSTRATCOM mission area challenges. If you have other research ideas, we're happy to discuss and offer recommendations to focus and to develop your research.

2018 DAAA Conference and Workshops (15-16 Mar 17). The University of Nebraska at Lincoln will host the 3rd Annual DA3 Conference and Workshops on the UNL campus next March. The theme is "Understanding 21st Century Deterrence." Dr. Tyler White is leading the effort at UNL. You should expect to receive a conference announcement and official call for papers soon. The tentative due date for research abstracts is 15 Dec 17. Dr. White can be contacted at (402) 472-9443, or twhite4@unl.edu.

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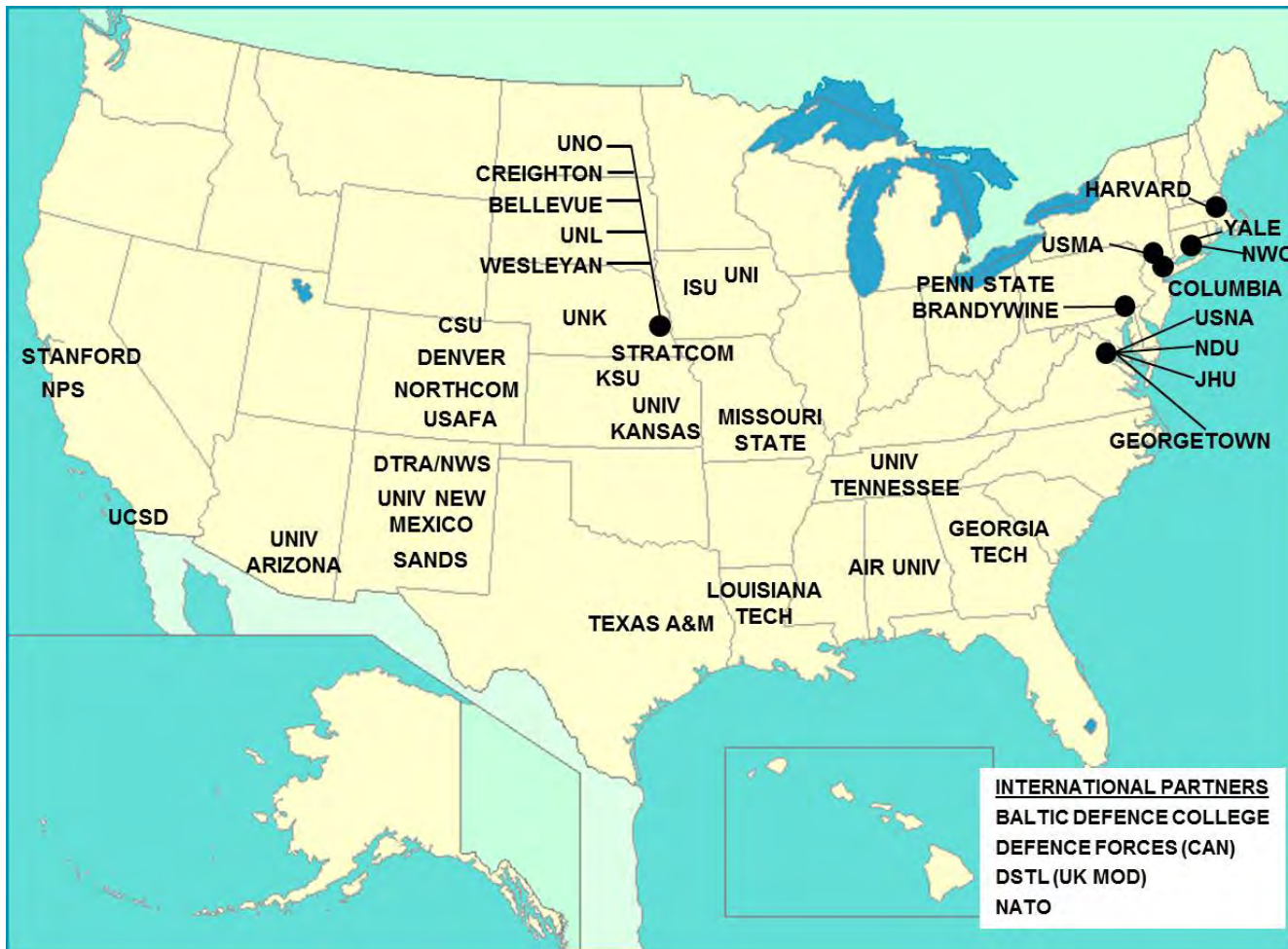
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SAVE-THE-DATE
15 - 16 March 2018

**The University of Nebraska at Lincoln Will Host the
3rd Annual DA3 Conference and Workshops
(Lincoln, Nebraska)**

Theme: "Understanding 21st Century Deterrence"



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Abstracts Due: Dec 2017

SAVE-THE-DATE
1 - 2 August 2018 (T)



2018 USSTRATCOM Deterrence Symposium
(Location TBD)

Registration will open Apr 2018

Contact Mr. Mike Powell for Details:
michael.w.powell6.civ@mail.mil or (402) 232-7758

SAVE-THE-DATE
3 August 2018 (T)



2018 USSTRATCOM Experience Day

(Offutt AFB, Omaha, Nebraska)

**"An Introduction to the Command's Missions,
Capabilities & Operations"**

Contact Mr. Doug Vance for Details:
douglas.w.vance.civ@mail.mil or (402) 232-5702