Cyber RECon 2024

Alumni Hall

The United States Naval Academy

17-18 April 2024

Academic Engagements

USCYBERCOM's Academic Engagements Program draws upon academia's unique resources and expertise to enhance the command's ability to:

- o engage the future workforce
- o increase basic and applied research for cyber & information topics
- o expand cyber- and information-focused analytic partnerships
- o enrich strategic dialogue on cyber and information topics

The Academic Engagements Program advances the following inititatives:

- o build an academic network (currently over 120 colleges & universities)
- o sponsor the annual Cyber RECon student research conference
- o disseminate Cyber Tech Talks
- o seek a scholar-in-residence
- o offer senior leader engagements for increased awareness
- o advance awareness of internships and cyber careers
- o facilitate guest lectures to support requests for command experts
- o strengthen the connection between theory and practice:
  - ➢ understanding the nature of cyberspace & information
  - ➢ applying coherent logic to cyber & information operations

Day 1 April 17

Time	EVENT		TIME	EVENT
0800-0845	Registration		1210-1310	LUNCH served in Bo Coppedge Room
0845-0855	Welcome: RADM Dennis Velez, USCYBERCOM J5 Dir		1310-1350	Speaker: Dr. Daniel Ragsdale, Office of the National Cyber Director
0855-0905	Welcome to USNA: Dr. Samara Firebaugh, USNA Provost		1350-1435	Guardian Group, 7-9, each team 15 mins
0905-0910 0910-0950	Intro for KEYNOTE Speaker, RADM Velez Keynote Address: DASD Eoyang, Dep. Asst. Sec. of Defense for Cyber Policy		1435-1445	Break
0950-1035	Hunter Group, 1-3, each team 15 mins		1445-1545	Strategist Group, 10-13, each team 15 mins
1035-1045	Break		1545-1600	Wrap-Up: BGen Keith Osmond, USCYBERCOM J5 Vice Director
1045-1130	Analyst Group, 4-6, each team 15 mins		1600-1645	Student Tour of USNA, Mr. Jeff Krause, USCYBERCOM J55
1130-1210	Speaker: Ms. Holly Baroody, USCYBERCOM Executive Director		1730-2000	Social Event Welcome, DoubleTree Hilton, Brig Gen Reid Novotny, USCYBERCOM, Deputy J5

Day 2 April 18

Time	EVENT		TIME	EVENT
0800-0900	ADMIN with Students		1020-1035	Break
0900-0945	Speaker: Dr. Gwyneth Sutherlin, Director University Consortium for Cybersecurity (UC2) and Associate Professor, College of Information and Cyberspace (CIC), NDU		1035-1045 1045-1115	Introduce KEYNOTE Speaker: RADM Velez Keynote Address: Gen Timothy Haugh, CDRUSCYBERCOM
0945-1000	Introduce Category Awards:		1115-1130	Commander's Cup Presentation: Gen Haugh
1000-1005	Award for Hunter Category		1130-1315	LUNCH
1005-1010	Award for Analyst Category		1315-1500	Student Expo
1010-1015	Award for Guardian Category		1500-1545	Speaker: Mr. Sri Iyer, Amazon Web Services, Student Expo Awards Program
1015-1020	Award for Strategist Category		1545-1600	Conference Wrap-Up: BGen Osmond, USCYBERCOM J5 Vice Director

Speakers on Day 1 (in order of appearance)

RADM Dennis Velez

Rear Admiral Dennis Velez is the Director of Plans and Policy, U.S. Cyber Command. At sea, Velez completed tours aboard USS Stout (DDG 55), USS Carr (FFG 52), USS Gettysburg (CG 64), and USS Donald Cook (DDG 75). He served on afloat staffs with Commander, U.S. Second Fleet/Striking Fleet Atlantic aboard USS Mount Whitney (LCC 20) and as the deputy commander for Destroyer Squadron Fifteen in Japan. He was the commanding officer of USS Fitzgerald (DDG 62) and USS San Jacinto (CG 56). Ashore, Velez served as officer in charge of Western Hemisphere Group Caribbean Area Coordinator; Surface Placement branch head, Head Junior Surface Warfare Distribution, Assistant Captain detailer and deputy director for Surface Warfare Distribution at Naval Personnel Command; Joint Staff Strategic Plans and Policy Directorate as chief, North East Asia Division and assistant director for Political-Military Affairs, Asia. He is a 1992 graduate of the United States Naval Academy with a Bachelor of Science in Aerospace Engineering. He also earned a master's degree in information technology management from Touro University in 2004.

Samara Firebaugh, Ph.D.

Dr. Samara L. Firebaugh is the Provost, United States Naval Academy. Prof. Samara Firebaugh graduated magna cum laude from Princeton University with a bachelor's degree in electrical engineering in 1995. She received her master's and PhD from the Massachusetts Institute of Technology in 1997 and 2001, respectively, both also in Electrical Engineering. Dr. Firebaugh's area of scholarship is microelectromechanical systems (MEMS), and particularly in integrated sensors and micro robotics. Dr. Firebaugh joined the Electrical and Computer Engineering Department at USNA in 2001 and has served in several roles at USNA including Vice President of the Faculty Senate, Chair of the Electrical and Computer Engineering Department, and most recently the Associate Provost for Academic Affairs. She was the 2014 recipient of the Class of 1951 Civilian Faculty Award for Excellence in Teaching, and the 2012 recipient of the Raouf Award for Excellence in Engineering Teaching. She received the Meritorious Civilian Service Award in 2014 and was appointed a Senior Member of IEEE in 2017.

DASD Mieke Eoyang

Ms. Mieke Eoyang is the Deputy Assistant Secretary of Defense for Cyber Policy. The Cyber Policy office is responsible for establishing DoD cyberspace policy and strategy, providing guidance and oversight on DoD cyberspace activities, and managing DoD's primary external relationships across the U.S. government, key domestic stakeholders, and our allies and partners. Prior to that she was the Senior Vice President for the National Security Program at the think tank, Third Way, where she led their work on a wide range of national security issues including on foreign policy, Congress' role in the national security policymaking process, non-proliferation, intelligence oversight, electronic surveillance, and cybersecurity. She was the founder of the organization's Cyber Enforcement Initiative which focused on improving the government's efforts to impose consequences on the human behind malicious cyber activity. Ms. Eoyang received her Juris Doctor from the University of California, Hastings College of the Law, and her bachelor's degree from Wellesley College.


Dr. Gwyneth Sutherlin

Dr. Gwyneth Sutherlin is Associate Professor in the College of Information and Cyberspace at National Defense University. Dr. Sutherlin is a leading expert in socio-cultural analysis--the translation of qualitative research into discrete technology design for decision-making. She develops curriculum to advance the leadership for Globally Integrated Operations in the Information Environment and supports the Joint Staff as a subject matter expert. She is also a visiting scientist at Pacific Northwest National Laboratory in the group for national security and artificial intelligence. Her teaching and research focus on information influence, emerging technology, and data analysis. She draws from over a decade of field experience focused on multilingual communications, risk evaluation, and cognitive pattern analysis in conflict environments. Dr. Sutherlin has a degree in political science from Indiana University and a PhD in peace and conflict studies from the University of Bradford. She has worked in eight languages.
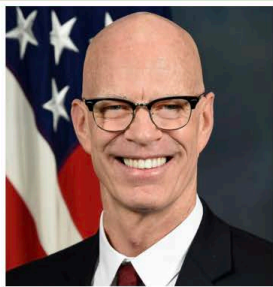
Speakers on Day 1 (in order of appearance)	
 Dr. Daniel Ragsdale	**Dr. Daniel "Rags" Ragsdale is** the Deputy Assistant National Cyber Director at the Office of the National Cyber Director (ONCD) in the White House. He previously served in DoD for over 40 years including a wide range of operational and academic roles as an Army Officer and then Civilian, culminating with service as Principal Director for Cyber and then Acting Director of Defense Research and Engineering (R&E) for Modernization in OUSD R&E. He was also a Program Manager at DARPA, Vice Dean for Education at the US Military Academy (USMA), Founding Director of the Texas A&M Cybersecurity Center, and Vice President of DoD Strategy at Two Six Technologies. He is a 1981 graduate from West Point. He has a Master of Science degree in Computer Science from the Naval Postgraduate School and a Ph.D. in Computer Science from Texas A&M University.
 BGen K. E. Osmond	**Brigadier-General (BGen) K. E. Osmond is** currently posted as the Vice J5 of US CYBERCOM. Prior to that, he was the Deputy Chief of Combat Systems Integration, at NDHQ, and, before that, the CAF Military Advisor to PRMNY. From 2017-2020, BGen Osmond spent three years as the Commander of the 5th Canadian Division Support Base Gagetown. He has been deployed to Bosnia twice and has spent a year in both Syria and Afghanistan. His six postings outside of the country, include the Middle East, Germany, two postings to Washington, DC, one to New York City and most recently to Fort Meade, Maryland. He holds an undergraduate degree in Arts from Memorial University of Newfoundland and a master's degree in Defence Studies from the Canadian Forces College. In addition, he was privileged to be given the opportunity to study at the Eisenhower School of National Defence University where he earned a master's degree in science and National Resource Strategy as well as a Certificate in Supply Chain Management.
 Brig Gen Reid Novotny	**Brigadier General Reid J. Novotny is** the Deputy Director, Plans and Policy, J5, U.S. Cyber Command. Before this assignment, he served as the Group Commander for the 175th Cyberspace Operations Group comprised of two National Mission Teams, a Cyber Protection Team, a Cyber Operational Support Squadron, and a Cyber Intelligence Surveillance and Reconnaissance Squadron. Brigadier General Novotny represented the largest force of cyber professionals in the state of Maryland who operate in support of State, County, and Local governments through partnerships. Brigadier General Novotny also served as the National Guard J6 on the State's Joint Staff. He was responsible for coordinating the employment of Maryland National Guard service component forces and equipment providing communications, cyber, and information management capabilities in support of joint domestic operations and exercises. He earned a bachelor's degree in computer science at The George Washington University in Washington, DC, a master's degree in computer security at The George Washington University in Washington, DC, and a master's degree in strategic communications at George Mason University in Fairfax, Va.

Speakers on Day 2 (in order of appearance)

Ms. Holly Baroody

Ms. Holly Baroody assumed her current position as Executive Director (EXDIR), United States Cyber Command (USCYBERCOM) on December 4, 2022. In this role, she supports the Commander in leading the Cyber Mission Force to direct, synchronize, and coordinate cyberspace operations. She leads strategic initiatives to advance CYBERCOM's capabilities, talent management, and partnerships. Prior to assuming her current position as USCYBERCOM Executive Director (EXDIR), Ms. Baroody served on a Joint Duty Assignment (JDA) as the Deputy to the Commander of the Cyber National Mission Force (CNMF) in USCYBERCOM from 2021 - 2022, where she supported the CNMF Commander in leading a 2000+ person organization with an Enterprise footprint to plan, direct, and synchronize full spectrum cyberspace operations to Defend the Nation from foreign adversary cyber threats. Ms. Baroody has 20+ years of experience in the Department of Defense (DoD) and Intelligence Community (IC) through both military and civilian service. Ms. Baroody holds an undergraduate degree in Information Technology (IT) Management from the American Military University, and a graduate degree in Cybersecurity Technology from the University of Maryland Global Campus.

Gen Timothy Haugh

Gen Timothy D. Haugh is Commander, U.S. Cyber Command and Director, National Security Agency/Chief, Central Security Service at Fort George G. Meade, Maryland, after serving from August 2022–February 2024 as the Deputy Commander, U.S. Cyber Command. He has served as Commander, Sixteenth Air Force; Commander, Air Forces Cyber, and Commander, Joint Force Headquarters-Cyber, Joint Base San Antonio-Lackland, Texas. The general has commanded at the squadron, group, wing, numbered air force, and joint levels and served on staffs at major command, agency and combatant command headquarters. GEN Haugh's previous joint general officer assignments include serving as the Commander, Cyber National Mission Force, and the Director of Intelligence, U.S. Cyber Command. He holds a Bachelor of Arts, Russian Studies, Lehigh University, Bethlehem, PA, a Master of Science, Telecommunications, Southern Methodist University, Dallas, TX, a Master of Science, Joint Information Operations, Naval Postgraduate School, Monterey, CA, and a Master of Science, National Resource Strategy with a concentration in Information Operations, Industrial College of the Armed Forces, Fort McNair, Washington, DC.

Mr. Sri Iyer

Sri Iyer is Senior Technology Leader, Worldwide Public Sector | AI/ML, Quantum, and Specialty Solutions. He is an experienced Emerging Technology leader with a demonstrated history of helping organizations solve complex business problems using disruptive technology as an enabler. He has led development of numerous Data Analytics, Artificial Intelligence, Quantum, and Automation projects for clients across public and private sectors. He is skilled in Agile Methodologies, Cloud Computing, Data Analytics, Machine Learning, and Software Development. He is a strong sales professional with over a dozen industry certifications and a Master's degree focused in Information Technology Management and Data Science.

About United States Cyber Command (USCYBERCOM)

Mission: USCYBERCOM conducts and synchronizes activities to secure, operate, and defend the Department of Defense (DOD) information network (DODIN); attain freedom of action in cyberspace while denying the same to adversaries; and, when directed, conduct cyberspace operations (CO) in order to deter or defeat threats to US interests and infrastructure, ensure DOD mission assurance, and achieve joint force commander objectives.

Vision: Achieve and maintain superiority in the cyberspace domain to influence adversary behavior, deliver strategic and operational advantages for the Joint Force, and defend and advance our national interests.

The Command became a unified combatant command on 4 May 2018 (from 2010 to 2018 it was a sub-unified command under United States Strategic Command). It represents the culmination of a series of organizational steps in the DOD's efforts to coordinate the activities of the various Services and Defense agencies that have built and continue to operate the Department's seven million networked devices and the roughly 15,000 networks that link them.

USCYBERCOM's evolution--like that of its predecessor organizations--has reflected a series of decisions strongly influenced by the emerging possibilities and risks entailed in the spread of information technology as well as the political, operational, and organizational constraints on the US government and the DOD.

About: USCYBERCOM's task is to plan and execute global CO and activities to defend and advance national interests in collaboration with domestic and international partners across the competition continuum. Its responsibilities include providing mission assurance for the DOD by directing the security, operation, and defense of the Department's information networks (i.e., the DODIN); contributing to deterring of or defeating strategic threats to national interests and infrastructure; and helping the combatant commanders achieve their missions in and through cyberspace.

USCYBERCOM comprises a headquarters organization that directs operations through its components. These include the Cyber National Mission Force Headquarters (CNMF-HQ); the Joint Force Headquarters DODIN (JFHQ-DODIN); and Joint Task Force ARES; plus its Joint Force Headquarters-Cyberspace (JFHQ-C) elements, each of which is paired with one of the Services' Cyber Components. Those Service components are Anny Cyber Command, Marine Forces Cyberspace Command, Fleet Cyber Command/Tenth Fleet, Air Force Cyber/16th Air Force, and U.S. Coast Guard Cyber.

About USCYBERCOM Academic Engagements

Purpose: Encourage and support student research on Cyber Command's key mission challenges. The Cyber RECon initiative includes sharing of the command's academic research questions, technical advising / coaching by command experts on a subset of research projects, feedback on the research, and an opportunity for select research teams to participate in a symposium event.

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