

# ALLIES

Alliance Linking Leaders in Education and the Services

2018 ALLIES Civil-Military Relations Conference

## Security, Society, and the New Climate Regime



Nov 10-11, 2018

**Tufts**  
UNIVERSITY

THE INSTITUTE FOR  
GLOBAL  
LEADERSHIP

# CMRC Schedule

Saturday, Nov. 10th

10:00-11:30am

Robinson Auditorium

## Panel: Society and Climate Change

- Dr. Casey Brown, University of Massachusetts/Amherst
- Dr. Rachel Cleetus, Union of Concerned Scientists
- CDR Aaron Delano-Johnson, U.S. Coast Guard
- Dr. William Moomaw, The Fletcher School of Law and Diplomacy, Tufts University

11:30am-12:30pm

Anderson Hall

## Breakout Sessions

Room 210: Dr. Moomaw; Room 211: CDR Delano-Johnson; Room 212: Dr. Brown

12:45-1:45pm

SEC Atrium

## Lunch Break

2:00-3:30pm

Robinson Auditorium

## Panel: Climate Security: Adaptations and Dangers

- Dr. Auroop Ganguly, Northeastern University
- Dr. Jarrod Hayes, University of Massachusetts/Lowell
- Mr. Gregg Nakano, University of Hawai'i
- Lt. Col. Patrick Workman, U.S. Army

3:30-4:30pm

Anderson Hall

## Breakout Sessions

Room 208: Lt. Col. Workman; Room 210: Dr. Hayes; Room 211: Mr. Nakano;  
Room 212: Dr. Ganguly

5:00-6:15pm

Cabot 206, Fletcher School

## Keynote Address: Climate Change, National Security, and the Future is Arctic Governance

- Mr. Mark Nevitt, University of Pennsylvania

6:30pm

Chase Center, Carmichael Hall

## Dinner

Sunday, Nov. 11th

11:00am-4:30pm

Cabot and Olin Centers

## Simulation on Climate Change and State Decision-making

# SPEAKER BIOS

## Keynote Speaker

### Mr. Mark Nevitt

Drawing on his experience as a tactical jet aviator and attorney in the U.S. Navy, Mark Patrick Nevitt's writing examines civilian control of military institutions generally, with a focus on the intersection of environmental, administrative, and national security law. His publications have appeared or are forthcoming in the *Washington University Law Review*, *Boston College Law Review*, Oxford University Press, *Georgia Law Review*, *Cardozo Law Review* and *Berkeley Journal of International Law*, among others. He routinely blogs for NYU Law's *Just Security* and Penn Law's *Regulatory Review*. A former tactical jet aviator who received several military awards to include the Air Medal, his Navy JAG assignments have included serving as a criminal defense counsel in Lemoore, California; international law and ethics attorney with the U.S. Navy's Sixth Fleet in Naples, Italy; Deputy Director for Administrative Law for the Office of the Judge Advocate General at the Pentagon; and the Department of Defense's Regional Environmental Counsel in Norfolk, Virginia. During his tenure in Norfolk, Mark tackled emerging legal and policy issues posed by the intersection of climate change and national security. More recently, Mark helped lead the Navy's investigation into the Iranian detention of U.S. Navy sailors in Farsi Island, investigating issues of international, national security, and administrative law.

## Panel One

### Dr. Casey Brown

Dr. Casey Brown is an internationally recognized expert in water resources systems analysis and climate risk assessment. He serves as Associate Professor in the Department of Civil and Environmental Engineering at the University of Massachusetts at Amherst and Adjunct Associate Research Scientist at Columbia University. He led the water team at the International Research Institute (IRI) for Climate and Society at Columbia University. Dr. Brown has worked extensively on water and climate projects around the world. He has a number of awards to his credit, including the Presidential Early Career Award for Science and Engineering, the National Science Foundation CAREER award and the Huber Research Prize from the American Society of Civil Engineers. Dr. Brown's work is funded by the Rockefeller Foundation, the National Science Foundation, NOAA, Department of Defense, World Bank and the US Army Corps of Engineers. He is Associate Editor of Water Resources Research and founded the Water and Society Technical Committee of the AGU Hydrology Section and the Water Resources Planning under Climate Change Technical Committee of the ASCE Environmental and Water Resources Institute Systems Committee. He is a licensed professional engineer in the state of Colorado.

### Dr. Rachel Cleetus

Rachel Cleetus is the lead economist and policy director with the Climate and Energy program at the Union of Concerned Scientists. She designs and advocates for effective global warming policies at the federal, regional, state, and international levels. These policies include market-based approaches (such as cap-and-trade programs) and complementary, sector-based approaches (such as efficiency, renewable energy, and clean technology research and development). She also analyzes the economic costs of inaction on climate change. Prior to joining UCS, Dr. Cleetus worked as a consultant for the World Wildlife Fund, performing policy-focused research on the links between sustainable development, trade, and ecosystems in Asia and Africa. She also worked for Tellus Institute in the energy and environment program, under the mentorship of Steve Bernow.

### CDR Aaron Delano-Johnson

Commander Aaron Delano-Johnson is the US Coast Guard International Security Studies Program (ISSP) Fellow at The Fletcher School of Law and Diplomacy at Tufts University. Prior to the Fletcher School, he served as the US Coast Guard Liaison Officer (CGLO) and Department of Homeland Security (DHS) Assistant Attaché to the Republic of Haiti at US Embassy Port-au-Prince, Haiti. He has held a variety of Embassy and sea-going command positions throughout his career, including eight years at sea on four Coast Guard cutters. Most recently completing a tour of duty as the Executive Officer of USCGC STEADFAST (WMEC 623), a medium endurance cutter, based in Astoria, Oregon that conducts maritime law enforcement patrols from the Pacific Northwest to South America under the US Coast Guard's Western Hemisphere Strategy. A permanent Cutterman, his additional shipboard operational assignments include Deck Watch Officer and Assistant Operations Officer aboard USCGC BEAR (WMEC 901), Executive Officer of USCGC SITKINAK (WPB 1329) and Commanding Officer of USCGC CHANDELEUR (WPB 1319), in support of Counter-Drug and Alien Migrant Interdiction Operations (CD/AMIO), search and rescue (SAR) and security cooperation across the Caribbean and South America. Previous Embassy postings include service as a training advisor under the Georgian Border Security and Law Enforcement (GBSLE) Assistance Program at U.S. Embassy Tbilisi, Georgia, Deputy Chief of the Joint Interagency Task Force-South (JIATFS) Tactical Analysis Team (TAT), Cartagena, Colombia, US Coast Guard Liaison Officer to the Dominican Republic and SOUTHCOM Humanitarian Assistance Program manager at US Embassy Santo Domingo, Dominican Republic. Commander Delano-Johnson graduated from the US Coast Guard Academy.

## Dr. William Moomaw

William Moomaw is Professor Emeritus of International Environmental Policy at The Fletcher School of Law and Diplomacy, Tufts University, where he was the founding director of the Center for International Environment and Resource Policy, the Tufts Climate Initiative and co-founder of the Global Development and Environment Institute. He works to translate science and technology into policy terms using interdisciplinary tools. His major publications are on climate change, energy policy, nitrogen pollution, forestry financing and management and on theoretical topics such as the Environmental Kuznets Curve. He was a coordinating lead author of the 2001 Intergovernmental Panel on Climate Change chapter on greenhouse gas emissions reduction, and for the special report on renewable energy due in 2010. He was a lead author of three other IPCC reports (1995, 2005 and 2007). The work of the IPCC was recognized with the 2007 Nobel Peace Prize. He also was an author for the Millennium Ecosystem Assessment on nitrogen and serves on the Integrated Nitrogen Committee of the EPA Science Advisory board. He was the first director of the Climate, Energy and Pollution program at the World Resources Institute, and directed the Center for Environmental Studies at Williams College where he held an endowed chair in chemistry. He has received Teaching Awards at both Williams and at The Fletcher School, and an Honorary Doctorate from the University of Belgrade for his work on sustainable development. As an AAAS Congressional Science Fellow, he worked on legislation that eliminated American use of CFCs in spray cans to protect the ozone layer, and also worked on energy and forestry legislation. Dr. Moomaw currently serves on the Board of Directors of The Climate Group, Clean Air-Cool Planet (which he co-founded), Earthwatch Institute, Center for Ecological Technologies and the Consensus Building Institute. He has facilitated sessions with negotiators of international treaties.

## Panel Two

### Dr. Auroop Ganguly

Auroop R. Ganguly is a hydrologist and a civil engineer, and currently a Professor of Civil and Environmental Engineering (CEE) at Northeastern University (NU) in Boston, MA, USA, where he is the Director of the Sustainability and Data Sciences Laboratory (SDS Lab). He is also Professor by courtesy of multiple NU departments and colleges, specifically, Computer and Information Science, Marine and Environmental Sciences, Political Science, and Public Policy and Urban Affairs, as well as a Visiting International Professor of Computer Science and Environmental Science at the Indian Institute of Technology (IIT) Kharagpur. He is a member of the United Nations Environmental Program review panel and the lead author of the Artificial Intelligence (AI) section of the upcoming Sustained National Climate Assessment of the United States. He is the Chief Specialty Editor for water and built environment of the upcoming *Frontiers in Water* journal and serves on the editorial board of the journal *PLOS ONE* and Scientific Reports published by Nature, as well as the American Society of Civil Engineers (ASCE) *Journal of Computing in Civil Engineering*. He has published a textbook on *Critical Infrastructures Resilience* by Taylor and Francis and other edited books on Knowledge Discovery from Sensor Data by CRC Press and LNCS. Ganguly is the co-founder and chief scientific adviser at the NSF-funded startup risQ. Ganguly has been leading a study abroad undergraduate program on climate change science, engineering and policy across different regions of the world. He has 20+ years of professional experience spanning academia, private industry including startups, and government research laboratory, including Oak Ridge National Laboratory (ORNL), Oracle Corporation, and a best-of-breed company acquired by Oracle, besides joint, adjunct or visiting faculty positions at the University of Tennessee, Knoxville, the University of South Florida, and the Indian Institute of Technology (IIT) Bombay.

### Dr. Jarrod Hayes

Jarrod Hayes is an Associate Professor in the Department of Political Science with an additional appointment to the Program of Security Studies. His research interests fit most neatly into the areas of international security and foreign policy analysis. His research focuses on the role of identity in the construction of security within democracies, although his research interests are considerably broader and include issues in environmental security, nuclear weapons proliferation, international rivalries, international relations theory, strategy and arms control, and regional level foreign policy and security dynamics in Europe, South Asia, and East Asia. His work has been published in the *European Journal of International Relations*, *International Organization*, and *International Studies Quarterly*. His book, *Constructing National Security: U.S. Relations with China and India*, was published by Cambridge University Press.

### Mr. Gregg Nakano

Gregg Nakano is a Naval Academy graduate and served as a Marine officer during the first Gulf War and Los Angeles riots. After military service, Gregg studied Mandarin at Fudan University and Farsi at University of Tehran, before earning a MALD in Security Studies from the Fletcher School. As a civil-military coordinator for USAID's Office of Foreign Disaster Assistance, Gregg helped provide humanitarian assistance in emergencies around the world to include the Jenin refugee camps, post-invasion Iraq, the Indonesian tsunami, and the Bam, Iran earthquake. Between disaster responses, he created the Joint Humanitarian Operations Course and the security training components for the interagency Iraq DART. His passion for empowering the next generation of leaders includes expanding Tufts University's ALLIES civil-military education program, supporting the development of DoD's Medical Stability Operations and Veterinarian Support to Stability Operations courses, as well as helping create the Organization for Security and Co-operation in Europe's patrolling course for the Afghan border police. He's currently working to develop an experien-

tial service learning curriculum that helps students, cadets and midshipmen understand the climate change impacts on national security utilizing the Kwajalein Atoll as a living classroom.

### Lt. Col. Patrick Workman

Lieutenant Colonel Patrick Workman is an International Security Studies Program (ISSP) Fellow at The Fletcher School of Law and Diplomacy at Tufts University and has had a diverse Army career taking him from the tactical as an Infantry officer in Iraq to the national strategic in multiple positions at the Special Operations Command. He provides a broad view of the Department of Defense and how it works with the Interagency to achieve its directed missions. From Kailua, Hawaii, he was commissioned as a Second Lieutenant of Infantry in 1997 after graduating from the United States Military Academy, West Point. Following completion of the Infantry Officer Basic Course, Airborne, and Ranger School, Lieutenant Colonel Workman served as a Platoon Leader and Company Executive Officer in 2nd Battalion, 14th Infantry, in the 10th Mountain Division, Fort Drum, New York. Following his assignment in Fort Drum, Lieutenant Colonel Workman was assigned to Ft. Benning, Georgia from 2000 - 2002 where he commanded an Infantry Basic Training Company (Bravo, 1st Battalion 19th Infantry Regiment) and completed the Infantry Officers Advanced Course. In 2002, Lieutenant Colonel Workman was assigned to 1st Armored Division in Wiesbaden, Germany, where he served as a Division Plans Officer for the deployment to and combat operations in Iraq. He then moved to the Division's 2nd Brigade Combat Team to serve as the Brigade Plans officer in Baghdad, Iraq from 2003-2004. He took command of C Company and later Headquarters and Headquarters Company, 1st Battalion, 6th Infantry Regiment which he deployed with from 2005-2006 to Ramadi, Iraq. From 2007 to 2009, Lieutenant Colonel Workman attended and graduated from the Naval Postgraduate School with a Master of Science in Operations Research with a focus on Optimization. He was then assigned to the Training and Doctrine Command Analysis Center at White Sands Missile Range from 2009-2012 as a Combat Analyst and Senior Military Analyst where he used modeling and simulation to inform the procurement of the next generation of weapons systems. From 2012 - 2015 he served at the Joint Interagency Task Force - National Capital Region as the National Security Policy and Engagements Team Lead coordinating efforts between elements of the Department of Defense and other National agencies against threat networks. Lieutenant Colonel Workman's last assignment, from 2015 - 2017, was with the US Special Operations Command Commander's Action Group and later as the Executive Officer to the Commander. In 2017 Lieutenant Colonel Workman deployed to Jordan as the Chief of Staff of a Multi-National Joint Task Force designed to empower, support and integrate the efforts of international, interagency, and Joint Force partners to disrupt trans-regional terrorist networks and their ability to recruit and field foreign fighters.

Lieutenant Colonel Workman is a graduate of Airborne, Air Assault, Sapper, and Ranger Schools. His awards and decorations include the Bronze Star Medal, Defense Meritorious Service Medal, Meritorious Service Medal, and the Combat Infantryman's Badge.