



SCHAR SCHOOL OF POLICY AND GOVERNMENT

Center for Security Policy Studies

at George Mason University

**Fourth Annual Symposium on International Security**

“Technology and the Future of Warfare”

September 24, 2021, 9am-1:30pm

REGISTER TO ATTEND USING THIS QR CODE



*Coffee and pastries will be available before the event. A boxed lunch will be served before the final panel.*

**Tools: Identifying the new technologies being integrated into defense capabilities**

**9am – 10:15 AM**

*Changing Concepts/Definitions of War and the Challenge of New Technologies – Forrest Hare*

Dr. Forrest Hare is a cyber operations solutions developer at SAIC and adjunct professor at George Mason University. Prior to his retirement, he served 28 years in the U.S. Air Force and had assignments in targeting, signals intelligence, information operations, and cybersecurity policy. He earned a PhD in public policy from George Mason University,

*Bio Technologies – Stephanie Rogers, acting assistant director for biotechnology at the Office of the Undersecretary of Defense for Research and Engineering*

Dr. Stephanie Rogers is the acting assistant director for biotechnology at the Office of the Under Secretary of Defense for Research and Engineering. She previously served as vice president of IQT Labs Operations and Bioinformatics and vice president and deputy director of B. Next at In-Q-Tel. She holds a PhD in plant pathology from Oklahoma State University.

*Evolving Debates about Cyber as a new form of Warfare – Mark Montgomery, Cyber Solarium*

Mark Montgomery is the executive director of the Cyberspace Solarium Commission. He previously served as policy director at the Senate Armed Services Committee under the late Senator John McCain. He served in the U.S. Navy for 32 years as a nuclear trained surface warfare officer before retiring in 2017 as a rear admiral.

Moderator: Forrest Hare, GMU and SAIC

**Tasks: Coordinating across the national security community  
10:30-11:45 AM**

*Framing the Technology Policy Challenges for the President* – Barry Pavel, Atlantic Council

Barry Pavel is senior vice president and director of the Snowcroft Center for Strategy and Security at the Atlantic Council. He has held numerous high level U.S. government executive branch positions related to national security, most recently as special assistant to the president and senior director for defense policy and strategy on the National Security Council from 2008 to 2010.

*Intelligence and Technology in Support of Military Operations* – Paolo Costa, GMU

Dr. Paolo Costa is an associate professor of cyber security at George Mason University's Volgenau School of Engineering, co-director of Mason's Radio and Radar Engineering Lab, and director for International Collaborations at the Center of Excellence in C4I&Cyber. He previously served as a fighter pilot in the Brazilian Air Force.

*Dual Use and Low Technologies: Policy Concerns* – TX Hammes, NDU INSS

Dr. Thomas X. Hammes is a distinguished research fellow at the National Defense University's Institute for National Strategic Studies. He has published three books and over 160 articles on international security issues. He served for thirty years in U.S. Marine Corps and received his doctorate in modern history from Oxford University.

Moderator: Ellen Laipson, Director, CSPS

**Organization: Investing in people and institutions for technological adaptations  
12:15-1:30 PM**

*Innovation in the Military: An Historical Perspective* – Michael Hunzeker, GMU

Dr. Michael Hunzeker is an assistant professor of political science at George Mason University's Schar School of Policy and Government, as well as the associate director of the Center for Security Policy Studies. His research focuses on wartime learning and military innovation. He received a PhD from Princeton University and served in the U.S. Marine Corps from 2000 to 2006.

*Ethical Issues* – Cortney Weinbaum, RAND Corporation

Cortney Weinbaum is a senior management scientist at the RAND Corporation. Her research has focused on the impact of emerging technologies on intelligence, countering weapons of mass destruction, special operations, and space architecture. She began her career as an intelligence officer, where she led two teams that received the Director of National Intelligence's Meritorious Unit Citation.

*Institutional Challenges within DOD and the Inter-Agency* – Dan Gerstein, RAND Corporation

Dr. Daniel Gerstein is a senior policy researcher at the RAND Corporation. He previously served as undersecretary (acting) and deputy undersecretary in the Department of Homeland Security Science and Technology Directorate. He served in the U.S. Army and received a PhD from George Mason University.

Moderator: Ben Fernandes, GMU