



WILLIAM J. PERRY CENTER **for Hemispheric Defense Studies** *at the National Defense University*



HEMISPHERIC FORUM

SECURITY AND DEFENSE CHALLENGES POSED BY EMERGING TECHNOLOGIES IN THE AMERICAS:

Cybersecurity, Drones (Unmanned Systems), and Robotics



Cybersecurity, Unmanned Aerial Vehicles, and Robotics, technologies are truly innovative and important weapon systems in use in Latin America and the Caribbean. “We are in the midst of something important, perhaps a revolution in warfare and technology that will literally transform human history.” *according to P. W. Singer, author of Wired for War: The Robotics Revolution and Conflict in the 21st Century.*

October 27, 2015
1:30 p.m. to 3:30 p.m.
Abraham Lincoln Hall Auditorium



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Subject matter experts and defense technology policymakers will address policy and strategic challenges posed by emerging technologies and their increased adoption by state and non-state actors in the Americas.

What future threats do these new technologies pose for hemispheric security, and what new opportunities do they present



Speakers

Major General Frederick F. Roggero

U.S. Air Force (Ret.), President and CEO, Resilient Solutions, Ltd
Alexandria, VA

Dr. Boris Saavedra

Assistant Professor, William J. Perry Center for Hemispheric Defense Studies
Fort Lesley J. McNair, Washington, DC

Dr. Marty Trevino

Organizational Architect and Senior Strategist, National Security Agency
Fort George G. Meade, MD

Moderator

Professor Celina Realuyo

Professor of Practice, William J. Perry Center for Hemispheric Defense Studies
Fort Lesley J. McNair, Washington, DC

Speaker Biographies



Celina Realuyo

Professor of Practice,

William J. Perry Center for Hemispheric Defense Studies

Professor Celina Realuyo, Professor of Practice of National Security Affairs, William J. Perry Center for Hemispheric Defense Studies has dedicated her career to the practice and promotion of international relations, as a U.S. diplomat, international banker with Goldman Sachs, U.S. State Department Director of Counterterrorism Finance Programs, and professor of national security and international relations at Georgetown, George Washington, and the National Defense University. She has extensive expertise in the international security, geopolitical risks, counterterrorism, globalization, illicit economies, international banking, economic competitiveness, and government relations arenas.

She is a critically acclaimed speaker for government, military, corporate, and academic audiences around the world on: “Managing Geopolitical Risks in the 21st Century,” “The Economic Forces Shaping National Security,” and “Securing Supply Chains from Terrorism and Crime.” Celina holds an M.B.A. from Harvard Business School, M.A. from Johns Hopkins University School of Advanced International Studies (SAIS), B.S. from Georgetown University School of Foreign Service, and Certificate from l’Institut d’Etudes Politiques (Paris).

She is a member of the Council on Foreign Relations, International Institute for Strategic Studies, Women in International Security, and the Professional Risk Managers International Association. She is an Aspen Institute Socrates Society Scholar, French-American Foundation Young Leader, and Atlantik Bruecke German-American Young Leader. Celina has a passion for politics, languages, and international travel; she has visited over 50 countries, speaks French and Spanish fluently, and is conversant in Italian, German, Filipino, and Arabic.



Frederick F. Roggero

Major General (Ret.), USAF

President and CEO of Resilient Solutions LTD

General Roggero is the President and CEO of Resilient Solutions, LTD. He has broad experience in DoD, Government, and the defense industry. He commanded Air Force units at the Squadron, Group, Wing and Center levels, and served on the staffs of the Department of State and the Joint Staff in the Pentagon. He was a senior Military Fellow at the Council on Foreign Relations, taught national security affairs and leadership at the Air Command and Staff College and volunteers his free time to serve as the President of the Royal Air Force Museum American Foundation. He served as Air Force Chief of Safety, developed, executed and evaluated all aviation, ground, weapons, space system mishap and nuclear surety programs to preserve combat readiness. Achieved the two best years in aviation safety in the Air Force's 65 year history. Led the Air Force's first Unmanned Aerial System (UAS) accident investigation division, reducing the Air Force UAS mishap rate in half. Served as the Director of Operations for Air Mobility Command, responsible for all aviation policy and procedures for AMC's fleet of 1,200 aircraft and as, Director of Public Affairs and Strategic Communications for the Air Force. Top spokesperson, media relations, and brand guardian. Key studies include NTSB Accident Investigation and Human Factors Analysis Course and University of Southern California's Safety Management System for Remotely Piloted Vehicle Course. General Roggero is an acknowledged subject matter expert on Unmanned Aerial Systems (UAS), appearing on numerous media outlets discussing UAS Safety and Security; Command Pilot with over 4,000 hours in 22 different types of military aircraft. Instrument rated commercial airplane pilot. Former, Air Force Chief of Safety where he developed, executed, and evaluated all aviation, ground, weapons, space system mishaps and nuclear surety programs to preserve combat readiness. Achieved the two best years in aviation safety in the Air Force's 65 year history and led the Air Force's first Unmanned Aerial System (UAS) accident investigation division, reducing the Air Force UAS mishap rate in half.



Dr. Boris Saavedra

*Assistant Professor,
William J. Perry Center for Hemispheric Defense Studies
Fort Lesley J. McNair, Washington, DC*

Boris Saavedra, a retired officer of the Venezuelan Air Force, has served in all operational positions in that service. He has devoted more than 20 years of his professional life to academic activities, both in Venezuela and in the U.S., ranging from flight instructor and academic professor to director of the Basic School of the Venezuelan Armed Forces. Saavedra is a graduate of the Venezuelan Air Force Academy, from which he received a B.S. in July 1968 in science and military arts, specializing in aeronautics. He subsequently attended tactical and Air Staff courses at the Air War College; the advanced course of military studies and joint and combined military operations at l'École Supérieure de Guerre Interarmées of France (1983–1986), and the Advanced Course in National Defense at the Senior Institute for National Defense of Venezuela (1988–1989). He has a Masters degree in international policy and practice from George Washington University (2003) and a doctorate in international peace and security from the Instituto Universitario General Gutiérrez Mellado de España.



Dr. Marty Trevino

*Organizational Architect and Senior Strategist
National Security Agency*

Dr. Marty Trevino is the senior Subject Matter Expert (SME) for Organizational Strategy, Design and Business Intelligence (BI) for the National Security Agency (NSA) of the United States. Dr. Trevino's holds a Bachelors of Business Administration (BBA), a hybrid Master of Science and the Arts in Military History / International Political Development, and a Doctoral degree of Business Intelligence. Dr. Trevino is a certified Lean Six Sigma Master Black Belt and is an Organizational Design Expert. During his 25 year career, Dr. Trevino has led strategy formulation on a global scale and is the architect of numerous strategic design and optimization efforts in both government and commercial industry. Today, Dr. Trevino is the architect of NSA's project SOLOMON which represents the fusion of BI systems with Design Thinking to derive strategic organizational outcomes. Dr. Trevino liaisons with university researchers, national labs and numerous commercial for profit firms to leverage products, technologies and expertise to develop and optimize Department of Defense (DoD) efforts and mission sets. Through his private firm of MSteele Enterprises (msteele.org), Dr. Trevino also performs speeches, facilitates E-Suite discussions on strategy, BI, Big Data, the Internet of Things (IoT), OD and in select cases acts as a strategic partner to select Fortune 1000 firms.





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