



NAVAL POSTGRADUATE SCHOOL CENTER FOR HOMELAND DEFENSE AND SECURITY
UNIVERSITY AND AGENCY PARTNERSHIP INITIATIVE

10th Anniversary
Homeland Defense & Security Education Summit

***Overcoming Barriers: Looking at the Next 10 Years of
Homeland Security Strategies, Plans, Policies and Education***

March 23-24, 2017
George Mason University
Arlington Campus

Naval Postgraduate School
Center for Homeland Defense and Security

in partnership with

Department of Homeland Security
Office of Policy

Federal Emergency Management Agency

George Mason University
Center for Infrastructure Protection and Homeland Security



Summit Agenda

Thursday, March 23

- 7:30 - 8:00am** **Event Registration and Check-in (Founders' Hall)**
- 8:00 - 8:15** **Welcome Remarks (Auditorium)**
John Hillen
Executive in Residence
George Mason University School of Business
- Susan Coller Monarez**
Deputy Assistant Secretary for Strategy and Analysis, Office of Policy
Department of Homeland Security
- Glen Woodbury**
Director, Center for Homeland Defense & Security
Naval Postgraduate School
- 8:15 – 9:30** **Leadership Keynotes (Auditorium)**
- 8:15 – 8:50** **Admiral Thad Allen, US Coast Guard (ret)**
Executive Vice President, Booz Allen Hamilton
- 8:55 – 9:30** **General Keith Alexander, US Army (ret)**
CEO and President, IronNet Cybersecurity
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- 9:30 – 9:45** **BREAK (Founders' Hall Art Gallery)**
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9:45 – 10:50

Roundtable Discussion (Auditorium)

The Future of Homeland Security

Moderator:

Thomas Inglesby

CEO and Director, Center for Health Security, Johns Hopkins University

Panelists:

Admiral Thad Allen, US Coast Guard (ret)

Executive Vice President, Booz Allen Hamilton

Teresa Shea

Executive Vice President, In-Q-Tel

General Keith Alexander, US Army (ret)

CEO and President, IronNet Cybersecurity

11:00 – 12:00

Program Discussions (Auditorium)

National Training and Education System

Scott Kelberg

National Training and Education Division

Emergency Management Institute

Wendy Walsh

EMI Higher Education Program Director

North American Aerospace Defense Command & US Northern Command

Ed Campbell

N-NC/J7 Education Director

Workforce Development/Student Programs

Rebecca Rouse

Marian University

12:00 – 1:00pm

Lunch – Informal discussions and networking (Multipurpose Rooms)



Concurrent Break-Out Session 1

A: Research Panels – Terrorism (I) (Founders' Hall 111)

1:00 – 2:15

Root Causes and Micro-foundations of Transnational Terrorism

Chair: Jim Ramsay, University of New Hampshire

Discussant: Trace Lasley, Department of Homeland Security

1. Jim Ramsay, University of New Hampshire, and Hope Murray, Embry-Riddle Aeronautical University
The Light Under the Bushel -- Redefining US National Security by Leveraging Principles of Human Security to Address Underlying Causes of Asymmetric Insurgencies
2. Gina Ligon, Douglas Derrick, Michael Logan, and Gia Harrigan, University of Nebraska - Omaha
Lethal Leadership: Using Organizational Psychology to Examine Terrorist Groups
3. Roya Talibova, University of Michigan
Do the Means Match the Ends? Exploring the Connection Between Terrorist Tactics and Motives

2:30 – 4:00

Countering Terror Networks and Organizations

Chair: Tricia Bacon, American University

Discussant: Brian Humphreys, Department of Homeland Security

1. Sarah Desmarais, North Carolina State University
The State of Science Regarding Membership in Terrorist Organizations
2. Barry Ezell and Ross Gore, Old Dominion University
The Terrorist Risk Assessment Simulation Platform
3. Adegboyega Ola and Gerelene Jagganath
University of KwaZulu-Natal, Durban, South Africa
Proliferation of Small Arms and Light Weapons in Nigeria: Implications for Peace and Security

B: Research Panels – Preparedness and Resilience (I) (Founders' Hall 118)

1:00 – 2:20

Risk-based Approaches to Preparedness

Chair: Alexander Siedschlag, Pennsylvania State University

Discussant: Stuart Evenhaugen, Department of Homeland Security

1. Vicki Bier, Alexander Gutfraind, and Ziyang Lu, University of Wisconsin
Beyond Resilience and Vulnerability – Characterizing the Defensibility of Critical Infrastructure Systems



2. Rick Kilroy, Coastal Carolina University
Threats to Homeland Security – Reassessing the All-Hazards Perspective
3. George Lane, Emergency Response Technology
Effects of and Responses to Electromagnetic Pulses (EMP)
4. Daniel Unruh, Kansas State University – Olathe
Enhancing Food-System Resilience and Ensuring Consumer Confidence in the Aftermath of a Food-Supply Catastrophe of International Origin

2:30 – 4:00

Public Engagement Before, During, and After Emergencies

Chair: Robert Mandel, Lewis & Clark College

Discussant: Joshua C. Dozor, Federal Emergency Management Agency

1. Vicki Bier, University of Wisconsin
Preparing for Mass Relocation from Disasters
2. Thomas Haase and Gunes Ertan, University of Pittsburgh
The Dynamics of Risk – Changing Technologies, Complex Systems, and Collective Action in Uncertain Environments
3. Alexander Siedschlag, The Pennsylvania State University
Protecting the Right to be American – Results from a Recent Representative Survey of Citizens' Perception of Homeland Security in Pennsylvania
4. Robert Mandel, Lewis and Clark College
Improving Citizen Threat Preparedness and Recovery

C: New Research on Homeland Security Education (Founders' Hall 308)

1:00 – 2:20

Policy-relevant Research and Workforce Development

Chair: David McIntyre, Texas A&M University

Discussant: Patrick Newman, Department of Homeland Security

1. David McIntyre, Texas A&M University
Using Directed Studies as a Method to Promote Policy Relevant Research
2. Richard White, University of Colorado – Colorado Springs
Apples-Apples: LIRA vs. RAMCAP
3. Kim Young-McLear, US Coast Guard Academy
Eric Popiel, US Coast Guard (DCO-X)
The Role of Inclusive Leadership, Identity, and Human-Centered Design in the Development of a Cyber Workforce

2:30 – 3:10

Chad Foster and Ryan Baggett, Eastern Kentucky University

Curriculum as a Lighthouse or Ship? Designing Multi-Disciplinary Homeland Security Education in Times of Turbulence



3:20 – 4:00 Meherun Laiju, Tougaloo College
Innovative Interdisciplinary Undergraduate Curriculum in Homeland Security at a HBCU

D: Technology Challenges and Approaches in Homeland Security (Founders' Hall 120)

1:00 – 1:40 Yacine Merdjemak, Argonne National Laboratory
Cybersecurity in a Post-Quantum World

1:45 – 2:25 Don Zoufal, University of Chicago
Sailing the Sea of Video Surveillance Data: Approaches to Navigating Policy Development and Analytics

2:30 – 3:10 Joel Harley, University of Utah
Engineering the Smart and Connected City

3:20 – 4:00 Matt Hull, Virginia Tech
Greg Nichols, Homeland Defense and Security Information Analysis Center
Implications of 21st Century Technology Development on National Security and Emergency Management

E: Public-Private Partnerships, Risk & the Role of Business in Homeland Security (Founders' Hall 317)

1:00 – 1:40 Tom Tennant, Business Executives for National Security
Innovative Approaches to Public Safety: Role of Public-Private Partnerships

1:45 – 2:25 Elizabeth Radziszewski, Rider University
Business Strategies and Innovation in U.S. Foreign Policy Management

2:30 – 3:10 Mark Landahl, Fredrick County Sheriff's Office
Tonya Neaves, George Mason University
Small Businesses as a Vulnerable Population

3:20 – 4:00 Ray Pena
What Risk Is/Professional Emergency Managers: Why We Need Them, What They Do, How They Do It, Why They Do It



F: Developing Strategies and Effective Communications (Founders' Hall 318)

- 1:00 – 1:40 Holly Hardin and Mark Basnight, Argonne National Laboratory**
Overcoming Communication Barriers: How Science and Research Can Solve Ineffective Communication During Crises and Enhance Homeland Security Strategies
- 1:45 – 2:25 John Comiskey, Monmouth University**
Homeland-Hometown Security: A Coherent National Strategy to Protect the Homeland
- 2:30 – 3:10 Joe Ryan and Demosthenes Long, Pace University**
Homeland Security Defined
- 3:20 – 4:00 Buster Hall, Northeastern State University – Oklahoma**
Climate Change and Homeland Security: Whistling Past the Graveyard

G: Special Topics (Founders' Hall 210)

- 1:00 – 1:40 Mike Feggans, USAF Langley Hospital**
Hampton Roads Cyber Corps: A pathway for regional unification in defending local private industry from cyber attacks
- 1:45 – 2:25 Bob McCreight, George Mason University**
Don Donahue, University of Maryland University College
Public health preparedness for mass casualty events in urban areas
- 2:30 – 3:10 Ed Welch**
The Future of Policing in America: Active Community Networks and the Final Report of The President's Task Force for 21st Century Policing
- 3:20 – 4:00 Bill Edwards, Special Operations Command – North**
Theater Special Operations Command North: developing and leveraging the "blue network"

[Return to Plenary Session](#)

- 4:00 – 4:15 Day One Wrap-Up (Hazel Hall Room 121)**
Steve Recca
Co-Director, University and Agency Partnership Initiative
- 4:30 – 6:00 Reception (Hazel Hall Atrium)**



Summit Agenda

Friday, March 24

- 7:30 - 8:00am** **Event Registration and Check-in (Founders' Hall)**
- 8:00 – 8:05** **Opening Comments/Administrative Notes (Auditorium)**
Steve Recca
Co-Director, University and Agency Partnership Initiative
- 8:05 – 9:35** **Roundtable Discussion (Auditorium)**
DHS Homeland Security S&T Technology Advisory Committee (HSSTAC)
Emerging Homeland Security Issues
- Moderator:**
Dylan George
In-Q-Tel
- Panelists:**
Vincent Chan, Cybersecurity
Massachusetts Institute of Technology
James Hendler, Artificial Intelligence
Rensselaer Polytechnic Institute
Dan Dubno, Autonomous Technology
Hourglass Initiative
Byron Collie, Adaptive Manufacturing
The Goldman Sachs Group
Eric Haseltine, CBRN Detection
Haseltine Partners, LLC
- 9:45 – 10:15** **Keynote (Auditorium)**
Susan Coller Monarez
Deputy Assistant Secretary for Strategy and Analysis, Office of Policy
Department of Homeland Security
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- 10:15 – 10:30** **BREAK (Founders' Hall Art Gallery)**
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Concurrent Breakout Session 2

A: Research Panel – Terrorism and Transnational Crime (II) (Founders’ Hall 118)

10:30 – 12:00 ***New Perspectives on Transnational Crime and Terrorism***
Chair: Louise Shelley, Terrorism, Transnational Crime and Corruption Center, George Mason University
Discussant: Bruce Lichtman, Department of Homeland Security

1. Enrique Desmond Arias, George Mason University
2. Mahmut Cengiz, George Mason University
3. *How the Ongoing Syrian Conflict Impacts Transnational Crime and Terror Networks*
4. Sharon Melzer, George Mason University
Non-traditional Funding Streams for Threat Financing and their Impacts on National Security
5. Louise Shelley, George Mason University
The Transformation of Illicit Trade: Diversification and Growth

B: Research Panel – Border Security, Migration, Trade and Travel (Founders’ Hall 120)

10:30 – 12:00 ***New Perspectives on International Migration and Border Security***
Chair: Susan Martin, Georgetown University

1. James Hollifield, Southern Methodist University
Emerging Migration State? Addressing Tensions between Economic and Security Pressures
2. Rey Koslowski, SUNY Albany
Employer Sanctions as Border Security
3. Marc Rosenblum, Deputy Assistant Secretary for Immigration Statistics, DHS Office of Policy, Southwest Border Security
What We Know and What We Can Know
4. Susan Martin, Georgetown University
Enhancing International Cooperation in Managing International Migration

C: Topics in Homeland Defense (Founders’ Hall 312)

10:30 – 11:10 **Brent Bankus, Army War College**
Revisiting the Use of State and Home Guards”

11:20 – 12:00 **Andres Gannon, University of California – San Diego**
Military Mobilization as a Leading Indicator of Conflict



D: Resiliency and Infrastructure (Founders' Hall 317)

10:30 – 11:10 Kyle Pfeiffer, Argonne National Laboratory

A Model to Enable Scalable Supply Chain Security and Resilience

11:20 – 12:00 Bob McCreight, George Mason University

Building Resilient Infrastructures Against Electrical Energy Collapse and Crisis Opportunities for Investing in Solid Strategies

E: New Approaches in Homeland Security Education (Founders' Hall 307)

10:30 – 11:10 Jim Ramsay, University of New Hampshire

John Comiskey, Monmouth University

To Serve and Protect: A New Policing Education Model for the 21st Century

11:20 – 12:00 Greg Bond, Boston University

Paradigm Shift: A New Curriculum for EMS - Team Training to Operate in Complex Environments

F: Law Enforcement and Public Safety in Homeland Security (Founders' Hall 308)

10:30 – 11:10 William Toms, Fairleigh Dickinson University

The Perceived Militarization of American Law Enforcement: A Comparative Homeland Security Approach

11:20 – 12:00 Mary Tyszkiewicz, Arizona State University

Building Community Resilience to Increase the Likelihood of Saving Lives in Emerging Threat Situations Using Heroic Improvisation (HI) Exercises

G: Special Topics (Founders' Hall 210)

10:30 – 11:10 Irene Clark, California State University, Northridge

Cezar Ornatowski, San Diego State University

Radicalization and Metacognitive Awareness of Identity in Writing Genres: Insights from Neuropsychological Research

11:20 – 12:00 Srini Sitaraman, Clark University

Preventing Terrorist Access to Nuclear Arsenals and Emphasizing De-Escalation, Deterrence, and Regional Stability in the South Asian Nuclear Theater—Nuclear Policy Challenges for the New Administration



H: Special Topics II (Founders' Hall 318)

10:30 – 11:10 Aleks Nestic, Joint Special Operations University

Patrick Christian, Valka-Mir Human Security

A Psycho-Emotional Human Security Analytical Framework: Origin and Epidemiology of Violent Extremism and Radicalization

11:20 – 12:00 Jooho Kim, Purdue University

Social Network Analysis: Role of Social Media to Propagate Emergency Information After a Disaster

12:00 – 1:00pm Lunch (Multipurpose Rooms)

12:20 Special Presentation (Multipurpose Rooms)

The Honorable Norm Augustine

Former CEO, Lockheed Martin Corporation and Undersecretary of the Army

Concurrent Breakout Session 3

A: Research Presentation Panels – Terrorism (II) (Founders' Hall 118)

1:00 – 2:30 Countering Violent Extremism

Chair: Susan Szmania, Department of Homeland Security

1. Jef Connor and Rollie Flynn, Georgetown University
National Security Task Force on CVE Research Findings
2. Caitlin Ambrozik
The Implementation of Community-led Security Initiatives -- The Case of CVE
3. Cristin O'Malley and Dennis Westbrook, National Intelligence University
Leveraging Intervention Models to Counter Violent Extremism in the United States
4. Laura Steckman, Mitre Corporation
Multilanguage Digital Media -- ISIL's External Outreach



B: Research Panels – Border Security, Migration, Trade and Travel (Founders’ Hall 120)

1:00 – 2:30

Border Security Policy: Migration, International Cooperation, and Lessons Learned

Chair: Jason Ackleson, Department of Homeland Security

Discussant: Sean Moon, Department of Homeland Security

1. Emily Damm, Elizabeth Roshelli, Amy Jones, and Skye Cooley, Mississippi State University
Mass Migration and The Media -- Convergence and Divergence of Global Media Narratives Towards a Working Model
2. Rey Koslowski and Geoff Leckey, University at Albany, SUNY
Can Trans-Governmental Cooperation Take the US and Canada “Beyond the Borders”?
3. Phil Osborn
Cyber Border Security—Defining and Defending the Nation’s Cyber Border
4. Bob Watts, National War College
Preparing for the Next Maritime Migration -- Lessons from the Past and Recommendations for the Future

C: Research Panels – Infrastructure Protection and Cybersecurity (Founders’ Hall 312)

1:00 – 2:30

Threat Identification and Prioritization

Chair: Megan Clifford, Argonne National Laboratory

1. Charles Harry and Nancy Gallagher, University of Maryland
Assessing Risks of Disruptive Cyber Attacks Against Critical Infrastructure
2. Duane Verner, Kibaek Kim, and Fred Petit, Argonne National Laboratory
Incorporating Prioritization in Critical Infrastructure Security and Resilience Programs
3. Ryan Kelly, Naval Postgraduate School
The Unbound Systems Thinking Cyber-Security Paradigm
4. Cedric Novenario and Wayne Porter, Naval Postgraduate School
Hacking Your Ride – Is Web 2.0 Creating Vulnerabilities to Surface Transportation?

2:45-4:15

Innovations in Preparedness and Collaboration

Chair: Brian Humphreys, Department of Homeland Security

Discussant: Scott Tousley, Department of Homeland Security

1. Andrea Jerkovic, CEUSS | Center for European Security Studies
Evaluating Federal Grant Programming to Support State and Local Critical Infrastructure Protection – Results and Perspectives of Qualitative-Empirical End-User Survey Research in the EU
2. Kyubyung Kang, Sayanti Mukhopadhyay, and Makarand Hastak, Purdue University
A Framework for Analyzing Multidimensional Infrastructure Supply chain and Business Continuity Plans to Enhance City-Level Resilience



3. Scott Tousley, DHS S&T Cyber Security Division; Douglas Derrick, Gina Ligon, Erin Pleggenkuhle-Miles, and Leif Lundmark, University of Nebraska - Omaha
Addressing the DHS Collaboration Challenge of Critical Infrastructure
4. Eric Taquechel, Naval Postgraduate School
Evolution of Critical Infrastructure Protection Theory

D: Intelligence and Homeland Security (Founders' Hall 317)

- 1:00 – 2:25 Panel: Innovative Pedagogy for Homeland Security Intelligence Education vs. Training**
1. Jim Steiner, University at Albany, SUNY
Using a Customer-focused Paradigm to teach Homeland Security Intelligence
 2. Erik J. Dahl, NPS Center for Homeland Defense and Security
Does Intelligence Education Need to be Classified?
 3. Brian Nussbaum, University at Albany, SUNY
Communicating Cyber Intelligence and Threat Information to Non-Technical Customers
 4. Keith Cozine, St. John's University
Experiential Based Learning to Teach Intelligence Collection within a Homeland Security Curriculum
- 2:30 – 3:10 Jason Houser, Argonne National Laboratory – Global Security Sciences**
Evolution of the Threat Environment Increases the Value of CBP Becoming the 17th Member of the Intelligence Community
- 3:20 – 4:00 Jessica Katz Jameson, North Carolina State University**
Overcoming Barriers to Internal and External IC Collaboration

E: New Approaches in Homeland Security Education (Founders' Hall 307)

- 1:00 – 1:40 Michel Bosco, European Commission**
Phil Water, US Department of Homeland Security S&T Directorate
Cross-Border Cooperation in Homeland Security Research
- 1:45 – 2:25 Andy Cain, Colorado Springs Office of Emergency Management**
From Organizational Cylinders of Excellence to In-concentu Meta-Organizations: How the Practitioner-Scholar Can Reduce Barriers and Strengthen Homeland Security Organizational Transformation
- 2:30 – 3:10 Dave McIntyre, Texas A&M University**
Reducing Barriers between Academics and Practitioners through Directed Studies Courses



3:20 – 4:00 Tina Bynum, Colorado Technical University
The Evolution of Homeland Security: A Hermeneutic Phenomenological Exploration Toward Defining the Term

F: Special Topics (Founders' Hall 210)

1:00 – 1:40 Mike Aspland, Naval Postgraduate School
Social Network Analysis, its application in the homeland security community and presentation of the Global ECCO on-line gaming learning tools for strategic thinking

1:45 – 2:25 Rebecca Lawton, Wilmington University
Sociology of Terrorism—Understanding Terrorism

2:30 – 3:10 Patricia Levy, Fort Hays State University
Osama's Legacy: A *Jihadi* Global Financial Network

3:20 – 4:00 Zamawang Almenar, George Mason University
ISIS Confirmed for CBRNE Acquisition and Proliferation

[Return to Plenary Session](#)

4:20 – 4:35 Integrating Research and Practice: QHSR 2018 (Auditorium)
Jason Ackleson
Director of Strategy, Office of Policy
Department of Homeland Security

4:35 – 4:45 Closing Comments and Wrap-Up (Auditorium)
Steve Recca
Co-Director, University and Agency Partnership Initiative

4:45 ADJOURN