



## Agenda Overview

(Detailed breakout follows)

### WEDNESDAY, SEPTEMBER 14

8:30-9:15am	Registration	Room
9:30-9:45	<b>Welcome</b>	Plenary sessions in Polaris Suite
9:45-10:15	<b>Minerva: A Look Back and a Look Ahead</b>	
10:15-11:15	<b>Drawing Policy Impact from Social Science Research</b>	
11:30-12:30	<b>Inaugural Gates Lecture: Dr. Colin H. Kahl</b> National Security Advisor to the Vice President and Deputy Assistant to the President	
12:30-1:15	Lunch and Continued Discussion	Food Court
1:30-3:00pm	<b>Research with Context: Panel Session 1</b>	
	Track A Understanding Propaganda for Terror	Polaris
	Track B Refugees and Internally Displaced People	Oceanic
	Track C China, Technology & Long-term Strategic Competition	Meridian
3:00-3:45	<b>Interactive Session: Research and Resources</b>	
4:00-5:30	<b>Research with Context: Panel Session 2</b>	
	Track A How to Quit Terrorism	Polaris
	Track B/D Multiscale Models of Vulnerability and Social Behavior	Oceanic
	Track C Shifting Alliances in the Asia Pacific	Meridian
5:45-7:30p	No-Host Networking Reception	Laughing Man Tavern

### THURSDAY, SEPTEMBER 15

8:45am	Opening, Day 2	
9:00-10:30	<b>Research with Context: Panel Session 3</b>	
	Track A/D How Ideas Become Movements	Polaris
	Track B Society, Development, and State Stability	Oceanic
	Track C The Dark Side of Cyber	Meridian
10:45-12:15	<b>Research with Context: Panel Session 4</b>	
	Track A The Narratives of Influence	Polaris
	Track B The Nexus of Natural and Social Systems: Part 1	Oceanic
	Track C Crisis Escalation and the Changing Character of War	Meridian
12:15-1:15pm	Lunch and Continued Discussion	Food Court
1:15-2:45	<b>Research with Context: Panel Session 5</b>	
	Track A Foreign Assistance and Security Cooperation	Polaris
	Track B *The Nexus of Natural and Social Systems: Part 2	Oceanic
	Track C Domestic Pressures & Global Ambitions in Fmr Soviet States	Meridian
3:00-3:45	<b>Communicating Social Science Research for Policy and the Public</b>	
3:45-4:30	<b>Future Directions for Minerva Research</b>	

EVENT OVERVIEW

September  
14-15,  
2016

Ronald Reagan  
Building and  
International  
Trade Center

1300 PA Ave  
Washington DC



# 2016 MINERVA MEETING AND PROGRAM REVIEW

**WEDNESDAY, SEPTEMBER 14**

8:30-9:15am **Registration**

9:30-9:45 **Welcome**

All Plenary sessions are in the Polaris Suite

- **Melissa Flagg**  
Co-Chair, Minerva Steering Committee  
Deputy Assistant Secretary of Defense for Research  
Office of the Under Secretary of Defense for Acquisition, Technology, & Logistics

9:45-10:15 **Minerva: A Look Back and a Look Ahead**

How Minerva has evolved in its eight years; overview of 2016 Minerva grant awardees

- **Erin Fitzgerald**  
Program Director, Minerva Research Initiative  
Joint assignment with OSD Policy and OSD(AT&L)
- **David Montgomery**  
Minerva Outreach Lead and AAAS Policy Fellow  
Office of the Under Secretary of Defense for Acquisition, Technology, & Logistics

10:15-11:15 **Drawing Policy Impact from Fundamental Social Science Research**

Once the research is done, how can we make it count?

**Rich Davis**, ARTIS Research  
Sacred Values and Social Responsibilities in Governance and Conflict Management

**John Horgan**, Georgia State University  
Understanding American Muslim Converts in the Contexts of Security and Society

\***Xavier Morise**, French National Center for Scientific Research (CNRS)

*Chair:* **Lee Schwartz**, The Geographer of the United States  
Bureau of Intelligence & Research, Department of State

11:30-11:50 **Gates Lecture Introduction and Policy Perspectives**

- **Mara Karlin**  
Co-Chair, Minerva Steering Committee  
Deputy Assistant Secretary of Defense for Strategy & Force Development  
Office of the Under Secretary of Defense for Policy

11:50-12:30 **Inaugural Robert M. Gates Lecture**

- **Dr. Colin H. Kahl**  
National Security Advisor to the Vice President and  
Deputy Assistant to the President  
*On leave from Georgetown University*

12:30-1:30pm **Lunch and Continued Discussion**

Ronald Reagan Building Food Court

\* To be confirmed

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## Panels: Research with Defense Context:

Track A: Radicalization and Mobilization    Track C: Regimes, Power, and Deterrence  
Track B: Societal Resilience and Stability    Track D: Analytical Methods and Metrics

1:30-3:00pm    **Session 1**

### Track A: Understanding Propaganda for Terror

Polaris

**Tony Lemieux**, Georgia State University  
**Jonathan Pieslak**, City College of New York  
Mobilizing Media: A Deep and Comparative Analysis of Magazines, Music, and Videos in the Context of Terrorism

**Mia Bloom**, Georgia State University  
Preventing the Next Generation: Mapping the Pathways of Child Mobilization into Violent Extremist Organizations

Chair: **J.D. Maddox**, Director of Analytics for the USG-wide Global Engagement Center

### Track B: Refugees and Internally Displaced People

Oceanic

**Jane Zavisca**, University of Arizona  
Internal Displacement in Ukraine and Its Implications for Stability

**Emma Cardeli**, Boston Children's Hospital and Harvard University  
Identifying and countering early risk factors for violent extremism among Somali refugee communities resettled in North America

Chair: **Stacy Gilbert**, Senior Civil-Military Advisor  
Bureau of Population, Refugees, and Migration (PRM), Department of State

### Track C: China, Technology, and Long-term Strategic Competition

Meridian

**Tom Mahnken**, Johns Hopkins School of Advanced International Studies  
Understanding China's Efforts to Becoming a Global Science, Technology, and Innovation Leader

**Ed Steinfeld**, Brown University  
China's Emerging Capabilities in Energy Technology Innovation and Development

Chair: **Col P.J. Maykish**, Senior Air Force Strategy Advisor, OSD Policy

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# 2016 MINERVA MEETING AND PROGRAM REVIEW

DAY 1

3:00-3:45pm **Interactive Session: Research and Resources**

Posters, demos, and discussions featuring Minerva research and Minerva-generated data/tools

## Research Discussions:

Polaris

- **Global Value Chain of Food Security for Energy-Exporting Middle East Nations**  
Ghada Ahmed and Danny Hamrick, Duke University (PI: Pratson)
- **The Challenge of Population Change for Political Continuity in Uzbekistan**  
Cynthia Buckley, University of Illinois Urbana-Champaign
- **Identifying and countering early risk factors for violent extremism among Somali refugee communities resettled in North America**  
Emma Cardeli, Boston Children's Hospital (PI: Ellis)
- **Land Rights and Stability in Indigenous Societies of Central America**  
Jerome Dobson, University of Kansas
- **\*Tracking Critical-Mass Outbreaks in Social Contagions**  
Clay Fink and Aurora Schmidt, Johns Hopkins Applied Physics Laboratory (PI: Macy)
- **\*METANORM: Analysis & Evaluation of Norms & Governance Models for Cyberspace**  
Aadya Shukla, Massachusetts Institute of Technology (PI: Shrobe)
- **Political Crisis & Language: A Computational Assessment of Security Threats**  
Leah Windsor, University of Memphis

## Demonstrations of Data and Tools:

Foyer

- **ORA – A Meta-network Analysis Tool**  
Kathleen Carley, Carnegie Mellon University
- **LookingGlass: A Visual Intelligence Platform for Tracking Online Social Movements**  
Hasan Davulcu, Arizona State University
- **The WomenStats Database**  
Valerie Hudson, Texas A&M University and Lauren Eason, WomanStats Project
- **The Western Jihadism Project**  
Jytte Klausen, Brandeis University
- **A Computational Model of Resources and Resiliency: Deploying the Elements of National Power for Strategic Influence**  
Tony Rivera, Duke University

## Research for Defense Education Faculty (RDEF) projects:

Polaris

- **\*The Cyber Side of Social and Political Mobilization**  
Aaron Brantly, U.S. Military Academy at West Point
- **Building Partner Capacity in Middle Eastern Defense Institutions**  
Azeez Swaidy al-Bukhturee, National War College
- **Contemporary Great Power Attitudes and Aspirations toward Expansionism, Territoriality and Resource Nationalism in Space**  
Peter Garretson and Namrata Goswami, Air Command and Staff College
- **The Negotiation of Being American: The Reconstruction of Language and Culture in Second Generation Immigrants**  
Silvia M. Peart, U.S. Naval Academy
- **\*Understanding Armed Insurgent Attrition**  
John Riley and Captain Kristin Pearson, U.S. Air Force Academy

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4:00-5:30pm **Session 2**

## Track A: How to Quit Terrorism

Polaris

**Arie Kruglanski**, University of Maryland  
Motivational, Cognitive, and Social Elements of Radicalization and De-radicalization

**John Riley and Maj Kristin Pearson**, U.S. Air Force Academy  
Understanding Armed Insurgent Attrition

Chair: **Alisa Stack**, Principal Director, Special Ops & Irregular Warfare, OSD Policy

## Tracks B/D: Multiscale Models of Vulnerability and Social Behavior

Oceanic

**Luis Bettencourt**, Santa Fe Institute  
Energy & environmental drivers of stress/conflict in multiscale models of social behavior

**Tony Rivera**, Duke University  
A Computational Model of Resources and Resiliency: Deploying the Elements of National Power for Strategic Influence

Chair: **Rod Schoonover**, Director for Environment and Natural Resources  
National Intelligence Council / Strategic Futures Group

## Track C: Shifting Alliances in the Asia Pacific

Meridian

**John Blaxland**, Australian National University  
How the Thai Military Perceives the USA and China & Implications for a US Rebalance

**Stephen Burgess and Janet Beilstein**, Air War College  
Multilateral Defense Cooperation in the Asia-Pacific Region

Chair: **Patrick Buchan**, Australia Exchange Officer and Strategist, OSD Policy

5:30-7:30pm **No-Host Networking Reception**

Laughing Man Tavern  
1306 G St NW  
(tentative)

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# 2016 MINERVA MEETING AND PROGRAM REVIEW

**THURSDAY, SEPTEMBER 15**

8:30am Opening, Day 2

Plenary Session

## **Panels: Research with Defense Context (cont'd)**

9:00-10:30a **Session 3**

### **Track A: When Ideas Become Movements**

Polaris

**Hasan Davulcu**, Arizona State University  
Measuring and Countering Social Influence and Persuasion of Extremist Groups

**Vladimir Barash**, Graphika, Inc  
Tracking Critical-Mass Outbreaks in Social Contagions (PI: Macy)

Chair: **Leigh Nolan**, Acting Director for Syria, OSD Policy

### **Tracks B: Society, Development, and State Stability**

Meridian

**Valerie Hudson**, Texas A&M University  
Household Formation Systems, Marriage Markets, and Societal Stability/Resilience

**Jonathan Moyer**, University of Denver  
Taking Development (Im)Balance Seriously: Using New Approaches to Measure and Model State Fragility

Chair: **Rachel Sauer**, Strategic Futures Group, National Intelligence Council

### **Track C: The Dark Side of Cyber**

Oceanic

**Aaron Brantly**, U.S. Military Academy at West Point  
#Tech4Terror: A Theory of Technical Innovation for Jihad

**Michael Siegel**, Massachusetts Institute of Technology  
Global Vulnerability Markets: Using Dynamic Simulations to Change the Discovery, Supply, Demand, and Use of Vulnerabilities

Chair: **Krista Auchenbach**, OSD Cyber Policy

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10:45-12:15p **Session 4**

## Track A: The Narratives of Influence

Polaris

**Robert Pape** and **Cliff Workman**, University of Chicago  
The Social and Neurological Construction of Martyrdom

**Leah Windsor**, University of Memphis  
Political Crisis and Language: A Computational Assessment of Social Disequilibrium and Security Threats

Chair: \***LTC Dwight "Buzz" Phillips**, Senior Army Strategy Advisor, OSD Policy

## Tracks B: The Nexus of Natural and Social Systems, Part 1

Oceanic

**James Igoe Walsh**, UNC Charlotte  
Resources and Armed Conflict

**Ghada Ahmad**, Duke University  
A Global Value Chain Analysis of Food Security and Food Staples for Major Energy-Exporting Nations in the Middle East and North Africa

Chair: **Daniel Ahn**, Chief Economist (acting), Department of State

## Track C: Crisis Escalation and the Changing Character of War

Meridian

**J. Andres Gannon**, UC San Diego  
Deterring Complex Threats: Asymmetry, Interdependence, and Multi-polarity

**Benjamin Jensen**, Marine Corps University  
Complex Dependence: Mapping the Character of Modern War

Chair: \***Bruce Krapovicky**, Asian and Pacific Security Affairs, OSD Policy

12:15-1:15p **Lunch and Continued Discussion**

Ronald Reagan Building Food Court

DAY 2



# 2016 MINERVA MEETING AND PROGRAM REVIEW

## DAY 2

1:15-2:45p

### Session 5

#### Track A: Foreign Assistance and Security Cooperation

Polaris

**Paul Huth** and **Jacob Aronson**, University of Maryland  
Aiding Resilience? The Impact of Foreign Assistance on the Dynamics of Intrastate Armed Conflict

**Eli Berman**, UC San Diego  
Deterrence with Proxies

Chair: **Tommy Ross**, Deputy Assistant Secretary of Defense for Security Cooperation, OSD Policy

#### Track B: The Nexus of Natural and Social Systems, Part 2

Oceanic

**Elisabeth Gilmore**, University of Maryland  
Forecasting civil conflict under different climate change scenarios

**Nisha Krishnan**, UT Austin  
Complex Emergencies and Political Stability in Asia

Chairs: **Kelly Uribe**, Deputy Director for Peacekeeping and Stabilization, OSD Policy  
**Andre Sekowski**, Humanitarian Assistance and Response Affairs, OSD Policy

#### Track C: Domestic Pressures & Global Ambitions in Fmr Soviet States

Meridian

**Thom Sherlock**, US Military Academy at West Point  
A New Cold War? Russian Public Opinion as a Key Determinant

**Erica Marat**, National Defense University College for International Security Affairs  
The Politics of Police Reform: Society against the State in Post-Soviet Countries

Chair: **Ann Dailey**, Russia, Ukraine & Eurasia office, OSD Policy

3:00-3:30p

#### Communicating Social Science Research for Policy and the Public

**John Sides**, George Washington University and Washington Post  
Joining the Monkey Cage: Tying Research to the World

Polaris

Chair: **Erin Fitzgerald**, OSD Policy

3:30-4:00p

#### Future Directions for Minerva Research

Polaris

- **Erin Fitzgerald**, Program Director, Office of the Secretary of Defense
- **David Montgomery**, Outreach Lead, Office of the Secretary of Defense
- **Harold Hawkins**, Program Officer, Office of Naval Research
- **Benjamin Knott**, Program Officer, Air Force Office of Scientific Research
- **Martin Kruger**, Program Officer, Office of Naval Research
- **Lisa Troyer**, Program Officer, Army Research Office

~~ Closing ~~

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