2019
Education & Professional Development Colloquium
Welcome

Welcome to the Education and Professional Development Colloquium!

Spring has sprung and all around us the world is full of growth and promise for the future.

The same is true for the Military Operations Research Society as we come together for our annual Education Colloquium.

Every year we take time to help undergraduate students from military academies and civilian institutions learn more about their opportunities to become part of the national security analysis community. This year, our theme is "The Life Cycle of a Question" and we will explore how a single strategic question is handled by Analysts in different parts of the community.

We are excited to have Dr. Yisroel Brumer, Deputy Director (CAPE), Analysis and Innovation, returning as our keynote speaker. Not only is he a talented and proven Analyst, he is also an engaging communicator.

As we do every year, we will be holding the Rosenthal Competition which gives students a chance to try out their skills on realistic, national security problems. While students get a chance to work on an interesting problem, they also get to work in teams blending military and civilian backgrounds.

Finally, we will have a series of guest speakers to describe their personal experiences working at different levels of national security analysis.

With such diverse and engaging opportunities, I am sure you will find something to make your future bright.

Sincerely,
COL Charles “Chuck” Weko, III, USAR
16 April 2019

0700-0800  Registration and Breakfast  
_Multipurpose Forum_

0800-0830  Introduction to the Rosenthal Competition  
_Auditorium_  
Ms. Nnenna L. I. Johnson

0830-1200  Breakout to Competition Rooms:  
_GVC A/GVC B/Freedom/Trident/Viking_

1200-1300  Lunch  
_Multipurpose Area_

1300-1400  Student Tour  
_Space Experience Center/Legacy/100 Moments_

1400-1645  Breakout to Competition Rooms:  
_GVC A/GVC B/Freedom/Trident/Viking_

1645-1700  Submit Presentations  
_Auditorium_  
Ms. Nnenna L. I. Johnson

1700-1830  MORS Social  
_Space Ex Demonstration Center_

17 April 2019

0700-0800  Registration and Breakfast  
_Multipurpose Forum_

0800-0815  Welcome and Introductory Remarks  
COL Charles “Chuck” Weko, III, USAR; EPD Chair

0815-0830  MORS Welcome  
Ms. Sheilah Simberg, President, MORS

0830-0845  Lockheed Martin Welcome  
Mr. Chris Eastman, Strategic Planning Manager and Mission Development Lead, LMCO

0845-0945  Rosenthal Presentations

0945-1045  Keynote Speaker:  
Dr. Yisroel Brumer, Deputy Director (CAPE), Analysis and Innovation

1045-1100  Break  
_Multipurpose Area_
17 April 2019

1100-1200   Rosenthal Presentations

1200-1300   Lunch
            Multipurpose Area

1300-1330   Speaker
            LTC Chike J. Robertson, USAR, Manpower Analyst for the Reserve Component, Headquarters G8, Program Analysis and Evaluation Directorate

1330-1400   Speaker
            Dr. Steven Stoddard, Deputy Director, Force Management, Office of the Deputy Chief of Staff, Department of the Army

1400-1415   Break
            Multipurpose Area

1415-1445   Speaker
            Dr. Julie Pechacek, Research Staff Member, Institute for Defense Analyses

1445-1530   Speaker Panel
            • LTC Chike J. Robertson, USAR
            • Dr. Steven Stoddard
            • Dr. Julie Pechacek

1530-1545   Rosenthal Competition Award Presentation
            Ms. Nnenna L. I. Johnson

1545-1600   Closing Remarks
            COL Charles “Chuck” Weko, III, USAR; EPD Chair

Richard E. Rosenthal Student Competition

Distinguished Professor Richard E. Rosenthal of the Naval Postgraduate School was ubiquitous in the breadth and depth of his lifelong contributions to Military Operations Research, and to the broader field of operations research and management science. Highly respected for his understanding of optimization theory, he was equally proficient and prolific in practical military applications.

In MORS, he served on the Board of Directors, received both the Rist and Barchi prizes, and was a vigorous and creative contributor on the Education Committee. Professor Rosenthal was devoted to excellence in writing and the dissemination of knowledge through quality publication. Among his contributions, he was Editor-in-Chief of Naval Research Logistics from 1988 to 2003. He was one of three eminent guest editors of its 1995 three-issue sequence on Air-Land-Naval Warfare Models, which were consolidated and republished by MORS as Warfare Modeling.

His scholarship was respected for objectivity, thoroughness, and originality. He won the INFORMS Prize for superior teaching and twice received the school-wide superior teaching award at NPS. His organizational and management skills were recognized by the NPS faculty when they selected him as department chair. Following Dr. Rosenthal’s untimely death in 2008, the student competition at the MORS EPD Colloquium was named in his honor.

Thank you to the judges who give their time freely to help develop the next generation of national security research analysts.
Dr. Yisroel Brumer, Deputy Director (CAPE), Analysis and Innovation

Yisroel Brumer holds a Master’s in chemistry and a Ph.D. in Chemical Physics from Harvard. After conducting postdoctoral research on the physics of complex biological systems, he joined the Department of Homeland Security's Science and Technology Directorate where he was a pioneering member of a number of key programs. He then joined the Office of the Secretary of Defense, Cost Assessment and Program Evaluation (CAPE), where he conducted analysis and provided advice on the DoD’s Science and Technology, Homeland Defense, Nuclear Command and Control, and Combating WMD portfolios. After promotion to the Senior Executive Service, he led the Program Analysis Division, where he led major cross-cutting analyses and all DoD Front End Assessments, selected by and briefed out directly to the Secretary of Defense. He then led the Strategic, Defensive, and Space Programs Division, providing advice and analysis on over $60B per year of programs ranging from intercontinental ballistic missiles to antiterrorism. Additionally, he was hand-picked to provide oversight of the Secretary of Defense’s #1 priority, a multibillion-dollar revamp of the entire nuclear enterprise, including a cultural overhaul and the initial stages of Triad modernization. He was then promoted to Deputy Director of CAPE for Analysis and Innovation, where he is responsible for executing major cross-cutting analyses across the entire Defense portfolio.

LTC Chike J. Robertson, USAR, Manpower Analyst for the Reserve Component, Headquarters G8, Program Analysis and Evaluation Directorate

LTC Chike Robertson graduated with a B.S. degree in Systems Engineering from the United States Military Academy in 2002. He was commissioned as a second lieutenant in the Air Defense branch. Upon completion of the Air Defense Officer Basic Course at Fort Bliss, Texas, he was assigned as a PATRIOT Fire Control platoon leader in Alpha Battery, 3rd Battalion, 2nd Air Defense Regiment (3-2 ADA), 31st Air Defense Artillery Brigade in Fort Bliss, Texas. In March 2003, he deployed his platoon to Iraq in support of Operation Iraqi Freedom. Upon returning to Fort Bliss, he was reassigned as the Executive Officer in the same battery.

Following graduate school, LTC Robertson served as a market analyst and a future operations lead at the Army Marketing and Research Group (AMRG). Following his tour at AMRG, LTC Robertson served as a senior program analyst at the Office of the Chief of Army Reserve (OCAR) in the training branch.

Finally, following his assignment at OCAR, LTC Robertson was assigned to Headquarters G8, Program Analysis and Evaluation Directorate where he currently serves as the Manpower analyst for the Reserve Component.
Dr. Steven Stoddard, Deputy Director, Force Management, Office of the Deputy Chief of Staff, Department of the Army

Dr. Stoddard was appointed to the Senior Executive Service in July 2013, and currently serves as the Army’s Deputy Director for Force Management. Dr. Stoddard is responsible for all aspects of the Army’s force structure, particularly analyses and decisions regarding the types of units in the Army as well as decisions regarding units’ manpower, equipment, and stationing. He is also responsible for managing the implementation of all changes to the Army’s structure. In his previous SES position, he directed the study program at the Center for Army Analysis (CAA), which included analyses of Army forces, strategy, resources, and current operations in support of Army Staff principals and deployed commanders worldwide. Since 2013, Dr. Stoddard has initiated an expansive effort to blend science with operational art through wargaming, campaign modeling, and readiness modeling. Efforts in 2013-2018 served to underpin war plans in two theaters of operation. These efforts led to analyses that have made substantial impacts on the Army’s force structure, Sustainable Readiness Model, modernization initiatives, and decisions regarding force posture and stationing. His analysts have been recognized as the best study in DoD (2016, 2017) and best study in the Army (2014, 2016, 2017). His current efforts are focused on the Army’s structure and readiness for any possible near-term conflict as well as the Army’s capabilities and capacity for future conflicts.

Dr. Julie Pechacek, Research Staff Member, Institute for Defense Analyses

Julie Pechacek is a Research Staff Member and economist at the Institute for Defense Analyses (IDA) in Alexandria, VA, where she leads teams conducting econometric, machine learning, and other empirical research on military personnel topics including recruiting and retention; human capital identification, measurement, and development; optimal occupation match; returns to investments in education, training, and labor inputs; and the use of market mechanisms to prevent negative behaviors. In addition to her applied economic research, Julie leads an effort to build collaboration, provide opportunities for open-source model development, improve peer review, and expand the use of machine learning, high-throughput computing, and other techniques leveraging large data sets among the researchers supporting the Department of Defense (DoD) at IDA and other organizations. She is the founding researcher and Director of IDA’s Personally Identifiable Information Enclave, which operates a distributed computing cluster and other high-capacity computing assets. Julie completed her Ph.D. in economics at the University of Texas at Austin in 2013 with a focus on labor economics and applied econometrics. She and her family live in the Washington D.C. area and enjoy many adventures.
Communication
Download the MORS app in your app store for the most up-to-date information regarding the Meeting. If you post on social media, include the hashtag #MORSEPD to be part of the conversation.

Meals
Breakfast, Breaks and lunch are provided each day.

Parking
GVC Parking Garage Hours: 6:00 am – 12:00 am (Monday – Friday). Parking Rates: 1-hour $6.00; 2-hours $11.00; 3-hours to close $21.00 (maximum).

Space Experience Center (SEC)
The Social will be held on 16 April from 1700- 1830 at the Space Experience Center (SEC). Visitors can explore the critical role space plays in their everyday lives and understand the scope of Lockheed Martin’s legacy of innovation in helping customers apply advanced space and missile technology to connect, protect and explore. Multimedia displays and interactive demonstrations showcase the capabilities and resilience of critical civil and military applications in space science and exploration, national defense and global security missions. A multipurpose theater features high-definition video presentations and demonstrations on specific space technology and program topics. Unique interactive displays, such as the Orion Multipurpose Crew Vehicle cockpit simulator, a missile defense simulator, and the GPS Value Station provide visitors with a visceral experience of actual space technology in action.
Event Locations

Breakouts: GVC A/GVC B/Freedom/Trident/Viking
Meals: Multitpurpose Area
Plenary: Auditorium
Social: Space Ex Demonstration Center (see full description)

LM’s Global Vision Center
1st Floor

LM’s Global Vision Center
2nd Floor
MORS also produces two premier events annually which provide the national security community the opportunity to exchange information, examine research and discuss critical national security topics. These events include the **87th MORS Symposium** to take place at the USAF Academy from 17-20 June and the **Emerging Techniques Forum** to take place 4-5 December, 2019 in Alexandria, VA.

### 8 May
**Innovations in Measuring and Predicting Readiness Webinar**
*Visit the MORS Website for more Information and to Register*

### 13-17 May
**Certificate in Critical Skills for Analytics Professionals (CSAP)**
*Arlington, VA*

The MORS Certificate in Critical Skills for Analytics Professionals (CSAP) offers courses of instruction to hone the specialized skills necessary for success of the Military OR Analyst in a military/government environment or setting.

### 17-20 June
**87th MORS Symposium**
*United States Air Force Academy, Colorado Springs, CO*

The annual MORS Symposium is the premier event for the national security community to exchange information, examine research and discuss critical national security topics. Over 900 analysts will gather for 600+ presentations, courses, tutorials and networking events. This year’s theme will be “Advancing Analytics to Support National Security.”

### 23-25 July
**Innovations in Measuring and Predicting Readiness Meeting**
*Lockheed Martin Global Vision Center, Crystal City, VA*

The MORS Logistics CoP will be supporting two webinar working sessions in April and May, a session during the 87th MORS Symposium in June, and a meeting in July in Crystal City with a goal of producing a recommendation to the Department of Defense on a new approach to defining, measuring, predicting, and reporting readiness.

### 22-27 September
**Certificate in U.S. Security Risk Analysis**
*Arlington, VA*

Designed to help students understand basic concepts of risk as it relates to national security, including probability, uncertainty, consequences, fear, and human-control. Students will learn quantitative risk evaluation, build probability models, compute the value of information, and survey best practices for communicating risk.

### 22-25 October
**Cyberspace Wargaming & Analytics**
*Institute for Defense Analyses, Alexandria, VA*

The purpose of this workshop is to share and record the knowledge gained from the community’s recent experience in developing cyber assessments and wargames.

### 4-8 November
**Certificate in Wargaming**
*Arlington, VA*

A five-part course designed to enhance analyst capability and knowledge in multiple aspects of analytical and training games, including research, design, development, execution, analysis, and reporting.

### 19-21 November
**Advancing Campaign Analytics Special Meeting**
*TBD*

*More Details Coming Soon!*

### 4-5 December
**Emerging Techniques Forum (ETF)**
*Hilton Mark Center, Alexandria, VA*

The variety of topics, speakers, attendees, leaders, and distinguished guests will yet again be extensive. The meeting will be two days of cutting-edge, unclassified technical presentations and discussions.