# Schedule-at-a-Glance

## Monday, 22 June 2015

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
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</thead>
<tbody>
<tr>
<td>0700 - 1700</td>
<td>Registration</td>
<td>Hilton - Lower Foyer</td>
</tr>
<tr>
<td>0830 - 1700</td>
<td>CEU Courses</td>
<td>DoD Mark Center</td>
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<tr>
<td>0830 - 1700</td>
<td>Tutorials</td>
<td>DoD Mark Center &amp; IDA</td>
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<tr>
<td>1000 - 1030</td>
<td>Break Refreshments</td>
<td>DoD Mark Center - Cafeteria</td>
</tr>
<tr>
<td>1215 - 1315</td>
<td>Lunch</td>
<td>DoD Mark Center - Cafeteria</td>
</tr>
<tr>
<td>1500 - 1530</td>
<td>Break Refreshments</td>
<td>DoD Mark Center - Cafeteria</td>
</tr>
<tr>
<td>1330 - 1700</td>
<td>Rist Competition Presentations</td>
<td>IDA - 6709</td>
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## Tuesday, 23 June 2015

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
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<tbody>
<tr>
<td>0700 - 1700</td>
<td>Registration</td>
<td>Hilton - Lower Foyer</td>
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<tr>
<td>0700 - 0800</td>
<td>Chairs Kickoff</td>
<td>Hilton - Juniper</td>
</tr>
<tr>
<td>0830 - 1000</td>
<td>Plenary</td>
<td>Hilton - Plaza Ballroom</td>
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<tr>
<td>1000 - 1030</td>
<td>Break Refreshments</td>
<td>Hilton – Lower Lobby</td>
</tr>
<tr>
<td>1030 - 1200</td>
<td>Sponsor Panel</td>
<td>Hilton – Plaza Ballroom</td>
</tr>
<tr>
<td>1030 - 1230</td>
<td>CEU Courses (Continued)</td>
<td>Hilton</td>
</tr>
<tr>
<td>1215 - 1315</td>
<td>Lunch</td>
<td>DoD Mark Center – Cafeteria</td>
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<tr>
<td>1215 - 1315</td>
<td>Lunch time Tutorials</td>
<td>DoD Mark Center</td>
</tr>
<tr>
<td>1330 - 1500</td>
<td>CG/WG/DWG Sessions</td>
<td>DoD Mark Center, Hilton &amp; IDA</td>
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<tr>
<td>1500 -1530</td>
<td>Break Refreshments</td>
<td>DoD Mark Center – Cafeteria</td>
</tr>
<tr>
<td>1530 - 1700</td>
<td>Special Sessions and Demos</td>
<td>DoD Mark Center</td>
</tr>
<tr>
<td>1700 - 1900</td>
<td>Social Mixer</td>
<td>Hilton Terrace Ballroom</td>
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### Wednesday, 24 June 2015

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<thead>
<tr>
<th>Time</th>
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<th>Location</th>
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<tbody>
<tr>
<td>0700-1700</td>
<td>Registration</td>
<td>Hilton Lower Foyer</td>
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<tr>
<td>0700-0800</td>
<td>Chairs Breakfast</td>
<td>Hilton - Arbors</td>
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<tr>
<td>0700-0800</td>
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<td>0830-1000</td>
<td>CG/WG/DWG Sessions</td>
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<td>1000-1030</td>
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<tr>
<td>1030-1200</td>
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<td>1215-1315</td>
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<td>Hilton – Finn and Porter</td>
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<td>IDA - Cafeteria</td>
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<td>1215-1315</td>
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<tr>
<td>1330-1500</td>
<td>Special Sessions and Demos</td>
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<td>1500-1530</td>
<td>Break Refreshments</td>
<td>DoD Mark Center – Cafeteria &amp; IDA</td>
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<tr>
<td>1530-1700</td>
<td>Special Sessions and Demos</td>
<td>Mark Center &amp; IDA</td>
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<tr>
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</tr>
<tr>
<td>1530-1700</td>
<td>Special Sessions and Demos</td>
<td>Mark Center</td>
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<tr>
<td>1530-1700</td>
<td>Chair Close Out</td>
<td>DoD Mark Center - Auditorium</td>
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Welcome to the 83rd Symposium!

Fellow MORSians and National Security Analysts,

The Planning Team has put together an impressive line-up of events to showcase your research efforts, foster collaboration, learn, and grow professionally. As more rigorous analysis is required to prepare and defend the shaping of our National Security interests, it is imperative that we continue to concentrate some energy to maintaining the growth of our discipline and the skills of our national security analytic professionals, both in government and nongovernment organizations. One way to achieve this is by supporting existing continuing education opportunities, and developing new ones, targeting the maintenance and enhancement of the technical competence of our members. Appropriately, the theme for this year's Symposium is, “National Security Analysts: Growth through Professional Development and Continuing Education.”

The over 650 presentations will take place in three convenient locations. The DoD Mark Center, the Institute for Defense Analyses (IDA), and the Hilton Mark Center will host over 700 registered participants. Our annual Symposium will not conclude at the end of the week – we will gather virtually on 22-23 July 2015 for two days of unclassified sessions. This year's program will include both classified and unclassified presentations, as well as presentations by analysts from our Five Eyes partner nations (Australia, Canada, New Zealand, and the United Kingdom). We are very excited with their attendance and ask you to extend a warm welcome to these remarkable analysts to our gathering.

All sessions are organized around the seven composite groups (CG), 33 working groups (WG), and two distributed working groups (DWG), listed in this Program Guide. In addition to attending these sessions, we hope you will take the time to attend the plenary session, one or several special sessions, tutorials, demonstrations, posters, Continuing Education Unit (CEU) courses, and if you are ready and have registered, the Certified Analytics Professional (CAP) exam is available to you, in partnership with the Military Applications Society (MAS) of the Institute for Operations Research and the Management Sciences (InFORMS).

While at the 83rd MORS Symposium, don't overlook the well-attended networking event on Tuesday evening, 1700 in the Hilton Alexandria Mark Center. It is a guaranteed excellent way to develop and foster strong relationships and exchange business cards, get to know each other and share common interests - see who can collect the most cards at the event! In addition to the networking event at the Hilton, we are pleased to provide a second opportunity for you to network, exchange business cards, and if you are lucky, get an autograph! Take me out to the ball park... On Wednesday evening, the bus will depart the hotel at 1730 and head to the Nationals vs. Braves baseball game which begins at 1905.

New this year and to help you navigate and customize your schedule, we are pleased to provide you with this enhanced Program Guide. In it you will find not only general information and the agenda, but abstracts, presenters, and co-authors are included for your review. For those who prefer the more technologically advanced systems, we are also pleased to provide a scheduling App that can be used with your smartphones and other compatible devices (please refer to page xx for instructions). With an in-person and a virtual component, the 83rd Symposium will allow analysts across the national security community to share their work and collaborate with diverse and talented professionals. The MORS Symposium is a great place to not only show off completed work, but also to discuss new efforts in their early stages.

Colleagues with different backgrounds and experiences can often help you think through the formulation of your problem and better assess alternate approaches and methods.

We welcome and look forward to your comments. Please share your thoughts and ideas on what you liked and what we can make better with anyone on the program team. The program staff is listed in the handy Program Guide! One final note... the 83rd Symposium – your symposium – would not be possible without the time, talent, and dedicated efforts of the many volunteers and the MORS Professional Staff working together to organize the symposium for you. Take full advantage of it.

We look forward to seeing you!

Dr. Rafael E. Matos
MORS President
Program Chair

Mrs. Ronda J. Syring
83rd MORS Symposium
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Special Events

**MONDAY – 22 JUNE 2015**

**Rist Prize Competition**
1300 – 1700  
IDA, Room 6709

Join us for the David Rist Prize competition. The winners will be announced during the Opening Plenary session on Tuesday. Listen to this year’s finalists as they present their papers to our panel of judges. This session is classified. Finalists are:

Ms. Ashley K. Russel - “Integrated Disability Evaluation System (IDES) Improvement”

Mr. Rustin Schemm and Mr. Weston Castleberg — “Army Aviation Sufficiency Analysis in Support of Aviation Restructuring”

Brian Rose - “Mines and Alternatives: Methods of Interdicting North Korean Wartime Ballistic Missile Operations and WMD Sites”

**TUESDAY – 23 JUNE 2015**

**Chairs Kickoff**
0700 – 0800  
Hilton – Juniper

**83rd Opening Plenary and Sponsor Panel Session**
0830 – 1200  
Hilton – Plaza Ballroom

Working Group and Composite Group chairs will gather to receive final instructions and information.

Join us for the 83rd Symposium opening session with the Keynote address from Vice Admiral James D. Syring, Director, Missile Defense Agency, the presentation of the MORS 2015 Awards and Prizes and the MORS Sponsor Panel discussion.

**83rd Social/Mixer Reception**
1700 – 1900  
Hilton – Terrace Ballroom

Join us for cash bar and appetizers. Enjoy an opportunity to meet and socialize with your colleagues. Tickets are $20 per person and available in advance at the MORS Registration Desk.
WEDNESDAY – 24 JUNE 2015

**Chairs Breakfast**
0700-0800
Hilton - Arbors

**Nationals Baseball Game!**

Allows chairpersons to provide input on what went well and what we need to improve upon and an opportunity to thank the chairpersons and recognize them for their contribution.

Nationals vs. Braves game starts at 1905
Bus pick up is at 1730 at Hilton entrance
Advance purchase and reservation required

THURSDAY – 25 JUNE 2015

**Chair Close Out**
1530-1700
DoD Mark Center Auditorium

To collect attendance forms, confirm 84th Symposium CG/WG proposed leadership and receive feedback.
Plenary
Tuesday, 23 June 2015
0830 – 1200
Hilton – Plaza Ballroom

Vice Admiral James D. Syring
Director, Missile Defense Agency

Vice Admiral James Syring is from Muncie, Indiana. A 1985 graduate of the United States Naval Academy with a Bachelor of Science degree in Marine Engineering, he received his commission as an Ensign, USN. Subsequent to commissioning, he was designated an engineering duty officer. In 1992, Syring earned his Master of Science degree in Mechanical Engineering from the Naval Post Graduate School.

Ashore, Syring served in numerous engineering duty officer assignments including: Ship Superintendent for USS Port Royal (CG 73); Aegis Test Officer (ATO) for new construction DDG 51 class ships; Combat Systems, Test and Trials officer in the DDG 51 Aegis Shipbuilding Program Office; Combat Systems Baseline Manager in the Aegis Technical Division; Director for Surface Combatants, Office of the Assistant Secretary of the Navy (Research, Development and Acquisition). Syring served as the Technical Director for the U.S. Navy’s DDG 1000 Shipbuilding Program and followed that tour as the DDG 1000 Major Program Manager.

Upon selection to Flag Rank in 2010, Syring served as the Program Executive Officer for Integrated Warfare Systems (PEO IWS), responsible for acquiring, developing, delivering and sustaining integrated weapons systems for ships, submarines, carriers and aircraft within the Fleet and Joint Force.

In November 2012, Vice Admiral Syring became the 9th Director of the Missile Defense Agency (MDA), Office of the Secretary of Defense, Pentagon, Washington, DC. In this capacity, he oversees the MDA’s worldwide mission to develop a capability to defend deployed forces, the United States, allies, and friends against ballistic missile attacks.

Syring’s personal awards include the Distinguished Service Medal, Legion of Merit (2 awards), the Meritorious Service Medal (4 awards), Navy Commendation Medal, and Navy Achievement Medal.

During the Plenary, we will also honor our 2015 MORS Fellows, Award, and Prize recipients:

**New MORS Fellows:**
- Mr. Arthur H. Barber, III
- Dr. John R. Hummel
- Ms. Lana E. McGlynn
- Mr. Terrance J. McKearney

**Vance R. Wanner Award:** Mr. Ervin Kapos

**Clayton J. Thomas Award:** Dr. Harry J. Thie

**John K. Walker, Jr. Award:** Dr. Yuna Huh Wong for her December 2014 article, “Preparing for Contemporary Analytic Challenges.”

**Wayne P. Hughes Award:** Major Kristin Saling, US Army

**Barchi Prize:** Major Jeff Groves, Mr. Sean Bhattacharya, Captain Robert Dinwoodie, Dr. Robert Clemence - for their paper entitled “Evaluating Strategic Opportunity Costs: A Multidisciplinary Approach to Affordability Analysis.”

**Rist Prize:** The winner of the 2015 David Rist Prize will be announced during the Plenary. The finalists are:
- Ms. Ashley K. Russell - Integrated Disability Evaluation System (IDES) Improvement
- Mr. Rustin Schemm and Mr. Weston Castleberg - Army Aviation Sufficiency Analysis in Support of Aviation Restructuring
- Mr. Brian Rose - Mines and Alternatives: Methods of Interdicting North Korean Wartime Ballistic Missile Operations and WMD Sites
Attendee Information

Symposium App
Download the MORS Symposium Grupio App on your smart phone or tablet for a convenient and up-to-date schedule of sessions, information and maps. Select the sessions you wish to attend and create your own calendar of sessions in the app or add your selected sessions to your device calendar.

Look for Grupio in your App store, download the App. Search for MORS in the events. Login with your e-mail address (the one you registered with) use the password MORS2015. You may change your password under My Account. The Grupio App works on Apple IOS and Android devices and may be accessed on other devices and computers at www.grupio.com/mors.

Registration and Sales – Hilton Lower Lobby
All registration and sales will take place at the MORS Registration Desk at Hilton Mark Center Lower Lobby. Please stop by the Registration Desk to pick up your badge and for General Symposium Inquiries, Registration/Scheduling Questions, Transportation Questions, Attendee Message Board, Polo Shirts, Books, and Lost & Found.

Information Desk – DoD Mark Center
The MORS Information Desk will be manned at the DoD Mark Center directly in front of the Cafeteria (one floor above the conference rooms) and the designated MORS seating area. Stop by for scheduling inquiries and general information.

Hotel Parking
All MORS 83rd Symposium participants may park at the Hilton Mark Center for the special rate of $10.00 per day. This rate does not apply to valet parking. Guests staying at the hotel will automatically receive the rate when they use their room card to access the parking garage. Day guests should stop by the MORS Registration Desk at the Hilton or the MORS Information Desk at the DoD Mark Center for a discount coupon.

Locations and Entrance Procedures
The 83rd Symposium will take place in three locations, all within an easy walk or shuttle ride (see map on page 22). The Hilton Mark Center will host the opening Plenary and Sponsors Panel on Tuesday, 23 June and unclassified sessions only. The DoD Mark Center and the Institute for Defense Analyses (IDA) will host unclassified and classified sessions.

Hilton Mark Center - 5000 Seminary Road
All 83rd Symposium participants must register at the MORS Registration desk in the Hilton Lower Lobby. You must have your 83rd Symposium badge before proceeding to the other sites.

Department of Defense at Mark Center - 4825 Mark Center Drive
Enter via the Visitors Center, present your MORS 83rd Symposium badge and a government issued picture ID; proceed to the screening area; and after screening, proceed down the escalators, across the breezeway into the building. At the next check point, display your 83rd Symposium badge to the guard in the window booth who will open the electronic doors for you. Follow the signs past the cafeteria to the elevators and proceed to level B1 for the Conference Center rooms. Five Eyes (FVEY) partner participants will require an escort to the Conference Center level. See the MORS Security staff at the Visitor Center for your assigned escort.

Institute for Defense Analyses - 4850 Mark Center Drive & 4900 Mark Center Drive
Enter 4850 at the main entrance. Unclassified rooms are immediately to your left, you do not need to check-in at the security desk. To access classified rooms at 4850 and 4900 check-in at the security desk and wait for an escort to the classified rooms.

Shuttle Service
MORS will run a continuous shuttle service between all three sites. Look for the shuttle bus with the MORS sign which will pick up at the Hilton main entrance, IDA 4850 main entrance, and the DoD Mark Center Taxi pick-up area. You must present your MORS badge to board the shuttle.

The MORS Shuttle will pick up at the Courtyard Marriott Alexandria Pentagon South at 0730 and 1215 and return to the Courtyard from the Hilton at 1200 and 1730 daily.

Electronic Devices
Electronic devices (unauthorized laptop computers, cameras, cell phones, PDAs, audio recorders, pagers, USB drives, etc.) are not allowed at any time in the classified sessions. Receptacles will be provided to store devices before entering classified sessions.

Conference Badge and IDs
Participants are required to wear the MORS-issued 83rd Symposium badge at all times and have a DoD CAC or other government issued picture ID available for presentation upon request.
Citizens of the FVEY countries (U.S., Australia, Canada, New Zealand and the United Kingdom) with a SECRET clearance and who have passed their clearance information to MORS security officer may attend all unclassified sessions and sessions classified as “SECRET/REL to FVEY” or “CONFIDENTIAL/REL to FVEY.”

The 83rd Symposium badges are color coded as follows:

- White Badge – U.S. citizen cleared for admittance to unclassified sessions only.
- Blue Badge – U.S. citizen cleared for admittance to all sessions.
- Yellow Badge – Non-U.S. FVEY participant cleared for admittance to unclassified sessions and sessions classified as releasable to FVEY with some restrictions.

Attendees MUST NOT loan name badges. Lost badges must be reported to the Registration Desk as soon as possible so that a new one may be issued. Badges MUST NOT be changed, corrected, or altered in any way. If such action is necessary, a member of the MORS staff will authenticate and issue a new badge.

Admission Policy and Entry to the Meeting Areas
Admission to classified meeting areas is limited to holders of blue and yellow MORS-issued name badges and with approved photo IDs. Persons who enter or attempt to enter secure meeting areas without proper credentials and persons who aid, encourage, or willfully permit improperly authorized persons to enter the secure area of the meeting are liable for a citation of a security violation.

Refreshments
MORS will provide a complimentary continental breakfast each day at the DoD Mark Center Cafeteria (one floor up from conference rooms) in the designated MORS Symposium seating area on Monday, Wednesday and Thursday and at the Hilton Mark Center Lower Lobby by the MORS Registration Desk on Tuesday before the plenary session.

Morning coffee breaks will be provided at all three sites and afternoon coffee breaks at the DoD Mark Center Cafeteria in the MORS designated section.

Lunch Options

- **DoD Mark Center Cafeteria** (one level above the conference rooms) – a checkout line and reserved seating area are dedicated to MORS 83rd Symposium participants. Look for the MORS signs. The cafeteria offers a wide variety of menu items including many grab and go options.

- **Hilton Mark Center** – the Finn and Porter restaurant located in the Hilton serves a daily lunch buffet for $13.95.

- **Institute for Defense Analyses (4850)** – the cafeteria is open to all. From the main entrance, proceed past the check-in desk to the right and past the elevators; the cafeteria entrance is on the right.

Uniform
Civilian attire is business casual and suggested military attire is duty uniform.

MORS 83rd Virtual Sessions
All in person participants are entitled to join for the 83rd Symposium Virtual presentations 22-23 July 2015. You will receive an e-mail with links and instructions on how to participate in the virtual sessions.

SUBSCRIBE TODAY TO THE PREMIER PEER REVIEWED ACADEMIC JOURNAL COVERING MILITARY OR GO TO WWW.MORS.ORG.
MORS Sponsors

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Acting - Assistant Secretary of Defense for Research and Engineering  
Office of the Secretary of Defense Representative  
Dr. Shawn G. Ohler

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Director, Studies & Analyses, Assessments and Lessons Learned (HQ USAF / A9)  
Air Force Sponsor Representative  
Ms. Patricia A. Hickman

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**MORS Books**

Important Resources for Research

Stop by the MORS Store at the Hilton Lower Lobby to pick up one of these valuable MORS publications or order online at www.mors.org.
83rd Leadership

Program Chair
Ms. Ronda J. Syring

Advisor
Ms. Rochelle A. Anderson

Deputy Program Chair
Ms. Sheilah A. Simberg

WG/CG Coordinator
Dr. James T. Treharne

Deputy WG/CG Coordinator
Ms. Randi VanNyhuis

Symposium IT Coordinator
Dr. Roger C. Burk

Virtual Symposium Coordinator
Mr. Robert “SpaceBob” L. Henson

Tutorials Coordinator
Dr. Simon A. Goerger

CEU Coordinator
Dr. Darryl K. Ahner

Demos/Posters Coordinator
Mr. Michael A. Ottenberg
Mr. Rupert L. Seals

Special Sessions Coordinator
Dr. Steven A. Stoddard

Prize Session Coordinator
Mr. Joseph F. Adams
Mr. Chris R. Linhardt

Security Coordinator
Mr. Joseph F. Adams
Mr. Rupert L. Seals

Heritage Session Coordinator
Dr. Steven A. Stoddard

Rooms Coordinator
Mr. James D. McMullin

Jr./Sr. Analyst Coordinator
Mr. Aaron D. Burciaga
Mr. Walter C. DeGrange

COPs Coordinator
Mr. Michael A. Ottenberg

MORS POLO SHIRT
Stop by the MORS store for a MORS Logo LandsEnd Polo Shirt only $25
Composite and Working Group Leadership

Composite Group Leadership

CG A – Homeland and International Operations
Dr. Ross Snare, Snare Consulting LLC

CG B - C4ISR and Cyber Operations
Scott Schoeb, USAMSAA

CG C - Joint Warfare
Mr. Chris Linhardt, Infoscitex Corp

CG D - Resource/Readiness/Training
Dr. David Fulk, LMI

CG E – Acquisition
Chen Lai, USAMSAA

CG F - Interdisciplinary Advances in OR
Maj Steven Dillenburger, AF/A9

CG G – Hybrid Warfare
Dr. John Hummel, Argonne National Laboratory

WG 1 – Strategic Operations National Security Analysis
Chair:
1st LT Michael MacAndrew, AFMC AFNWC

Co-Chairs:
Dr. Rob Brigantic, PNNL
Maj Marcus McNabb, AFMC AFNWC
George Muller, PNNL
Dr. Lalit Yudhbir, Systems Planning and Analysis, Inc.

Advisors:
Richard Paulsen, AFMC AFNWC
Mark Sisson, STRATCOM J552

WG 2 – Chemical, Biological, Radiological, Nuclear and Advanced Explosives (CBRNE) Defense
Chair:
LTC Melanie Vinton, DTRA

Co-Chairs:
Dariusz Basiaga, DTRA
Chris Kiley, DTRA
Mr. Eric Lowenstein, DTRA
Fred Oppel, SNL

Advisor:
Dr. Andrew Wiedlea, DTRA

WG 3 – Infrastructure Analysis, Protection and Recovery (IAP&R)
Chair:
David L. Alderson, Naval Postgraduate School

Co-Chair:
Igor Linkov, US Army Engineer Research and Development Center
Nicole Sikula, US Army Environmental Command

Advisors:
Gerald G. Brown, Naval Postgraduate School
Anthony J. Oconnor, TASC, Inc.

WG 4 – Homeland Security, Homeland Defense, and Civil Support
Chair:
Ross Snare, Snare Consulting LLC

Co-Chairs:
Robert Brigantic, Pacific Northwest Nat’l Lab
Gerardo Garcia, MITRE
Cherie Gott, NOARAD-USNORTHCOM
Laura Sears, DTRA J9

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