NRO GEOINT PORTFOLIO DAYS

AND TECHNOLOGY EXPOSITION

2–3 MARCH 2016

PROGRAM GUIDE

National Reconnaissance Office | J.D. Hill Conference Center | Chantilly, VA

CONFERENCE BADGE

For security reasons, please wear your conference badge at all times. You will not be permitted to enter sessions without it.

MESSAGE CENTER

If you need to receive telephone messages during the conference, please direct calls to Attendee Registration at 703-808-6757. Messages will be posted on the poster located next to Attendee Registration.

COFFEE/LIGHT REFRESHMENTS

Coffee and light refreshments will be served in the Exhibit Hall during the break periods.

FOUNDATION LAB TOURS

There will be a morning and afternoon tour on each day of the conference. The morning tour transportation leaves at the first break and comes back at lunch. The afternoon tour transportation leaves at the second break and comes back at the end of the last session.

TECHNOLOGY EXPOSITION

The Exhibit Hall is located directly across from the auditorium in the atrium and breakout rooms. Companies will feature innovative products, solutions, and government offerings. Time has been allotted throughout the conference to visit the exhibits.

Exhibit Hall Hours:

Wednesday 8:00 AM – 6:00 PM
(Exhibits will remain open during the Networking Social)

Thursday 8:00 AM – 4:30 PM

QUESTIONS OR CONCERNS

If you have any questions or concerns at any time during the conference, please do not hesitate to speak to an NCSI representative

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2 March 2016

MEMORANDUM FOR FORUM ATTENDEES

SUBJECT: NRO GEOINT Portfolio Days and Technology Exposition, 2-3
           March 2016

    The National Reconnaissance Office (NRO) Imagery Intelligence
Systems Acquisition Directorate (IMINT) is pleased to welcome you to
the 2016 GEOINT Portfolio Days and Technology Exposition. The theme,
Delivering Today and Tomorrow's GEOINT Capabilities, will provide
valuable insight into the current and future GEOINT architecture. Day
one will focus on current GEOINT capabilities through 2020 and provide
awareness of system capabilities, usage, and areas for improvement.
Day two will focus on IMINT's strategy beyond 2020 with an emphasis on
impending threats and capability gaps. In light of today's global
threats and the dependence on space-based intelligence to monitor,
analyze, and understand critical strategic and military developments,
this GEOINT Portfolio conference is crucial to ensure that IMINT
continues to deliver capabilities to the Intelligence Community and
warfighter.

    I am excited about the speakers scheduled to participate. They
provide many years of experience and will provide an outstanding
opportunity to discuss the successes and challenges of the GEOINT
architecture. In addition, I hope this event enables attendees to
partner across all organizations to further investigate and advance
GEOINT capabilities in support of our national security interests.

    I welcome your feedback to ensure our future efforts build upon
this week's forum. Again, welcome to the NRO and thank you for
attending the 2016 GEOINT Portfolio Days and Technology Expo.

Darlene R. Minick
Director, Imagery Intelligence
   Systems Acquisition Directorate

WEDNESDAY, 2 MARCH

Time	Session
7:15 AM - 8:05 AM	**Registration & Breakfast**
8:05 AM - 8:15 AM	**Welcome** *Mr. Jimmy Comfort, NRO/IMINT*
8:15 AM - 8:25 AM	**Administrative Remarks** *Mr. Dan Rust, NRO/IMINT*
8:25 AM - 8:30 AM	**Introduction of Ms. Sapp** *Ms. Darlene Minick, Director IMINT, NRO*
8:30 AM - 9:00 AM	**Keynote Speaker** *Ms. Betty Sapp, Director, NRO*
9:00 AM - 9:15 AM	**Overview of IMINT Architecture and Current Thrust Areas** *Ms. Darlene Minick, NRO/IMINT*
9:15 AM - 9:40 AM	**Today's EO Systems** *Colonel Rob Introne, NRO/IMINT*
9:40 AM - 10:05 AM	**Today's Radar System** *Colonel Donald Frew, NRO/IMINT*
10:05 AM - 10:30 AM	**BREAK/TECHNOLOGY EXPO***
10:30 AM - 11:00 AM	**Today's Persistence** *Dr. Eleanor Silverman, NRO/IMINT*
11:00 AM - 11:30 AM	**Today's Multi-Int** *Mr. Norm Davis, NRO/IMINT*
11:30 AM - 12:00 PM	**Operating Current Systems** *Mr. John Hoffman, NRO/MOD*
12:00 PM - 1:00 PM	**LUNCH/TECHNOLOGY EXPO**
1:00 PM - 1:30 PM	**Capability Highlights & Gaps: NGA** *Mr. Charles Schmidt, NGA*
1:30 PM - 2:00 PM	**Capability Highlights & Gaps: NASIC** *Mr. Keith Hoffman, NASIC*
2:00 PM - 2:30 PM	**Capability Highlights & Gaps: Navy** *Mr. Dave Creasy, N2/6*
2:30 PM - 3:00 PM	**BREAK/TECHNOLOGY EXPO***
3:00 PM - 3:40 PM	**Capability Highlights & Gaps: Weapons and Counterproliferation Mission Center (WCMC)** *Mr. Greg R., WCMC*
3:40 PM - 4:20 PM	**Capability Highlights & Gaps: Warfighter** *Mr. Jeffrey Canfield, J2/J28*
4:20 PM - 4:30 PM	**Closing Remarks** *Mr. Jimmy Comfort, NRO/IMINT*
4:30 PM - 6:00 PM	**NETWORKING SOCIAL HOSTED BY:** GENERAL DYNAMICS

THURSDAY, 3 MARCH

Time	Session
7:00 AM - 8:15 AM	**Registration & Breakfast**
8:15 AM - 8:20 AM	**Welcome Back** *Mr. Jimmy Comfort, NRO/IMINT*
8:20 AM - 8:25 AM	**Administrative Remarks** *Mr. Dan Rust, NRO/IMINT*
8:25 AM - 8:30 AM	**Introduction of Ms. Gordon** *Ms. Darlene Minick, Director IMINT, NRO*
8:30 AM - 9:00 AM	**Keynote Speaker** *Ms. Sue Gordon, Deputy Director, NGA*
9:00 AM - 9:40 AM	**Evolving Space Environment - A Policy Perspective** *Mr. Doug Loverro, OSD*
9:40 AM - 10:10 AM	BREAK/TECHNOLOGY EXPO*
10:10 AM - 10:50 AM	**Current/Future Intelligence Gaps** *Dr. Troy Meink, ODNI*
10:50 AM - 11:30 AM	**NRO Future Ground Architecture** *Mr. Miles Nakamura, NRO/GED*
11:30 AM - 12:30 PM	LUNCH/TECHNOLOGY EXPO
12:30 PM - 1:00 PM	**Emerging Imagery Technologies** *Dr. Susan Durham, NRO/AS&T*
1:00 PM - 1:30 PM	**IMINT Future Concepts** *Mr. Ed Mahen, NRO/IMINT*
1:30 PM - 2:00 PM	**Space Protection Strategy for GEOINT** *Dr. Stewart Cameron, NRO/SAO*
2:00 PM - 2:30 PM	**Future of Commercial Imagery** *Mr. John Charles, NGA*
2:30 PM - 3:00 PM	BREAK/TECHNOLOGY EXPO*
3:00 PM - 3:20 PM	**Future GEOINT Requirements** *Mr. Shawn Dilles, NGA*
3:20 PM - 4:10 PM	**Future GEOINT Architecture** *Dr. Didi Kuo, NRO/IMINT*
4:10 PM - 4:50 PM	**Congressional Perspective (HASC Staffers)** *Mr. Steve Kitay & Ms. Leonor Tomero, Congress*
4:50 PM - 5:00 PM	**Closing Remarks** *Mr. Jimmy Comfort, NRO/IMINT*

Visit the General Information page for more information on the Foundation Lab Tours.

MS. BETTY J. SAPP
DIRECTOR, NRO

Ms. Betty Sapp was appointed the 18th Director of the National Reconnaissance Office (DNRO) on July 6, 2012. The DNRO provides direction, guidance, and supervision over all matters pertaining to the NRO and executes other authorities specifically delegated by the Secretary of Defense and the Director of National Intelligence.

Ms. Sapp began her government career as a United States Air Force officer in a variety of acquisition and financial management positions, including: business management positions in the NRO; Program Element Monitor at the Pentagon for the MILSTAR system; Program Manager for the FLTSATCOM program at the Space and Missile Systems Center in Los Angeles; and manager of a joint-service development effort for the A-10 engine at Wright-Patterson Air Force Base in Dayton, Ohio.

In 1997, Ms. Sapp joined the Central Intelligence Agency. She was assigned to the NRO where she served in a variety of senior management positions. In 2005, she was appointed the Deputy Director, NRO for Business Plans and Operations. As such, she was responsible for all NRO business functions, including current-year financial operations, preparation of auditable financial statements, business systems development, budget planning, cost estimating, contracting, as well as all executive and legislative liaison activities.

In May 2007, Ms. Sapp was appointed the Deputy Under Secretary of Defense (Portfolio, Programs and Resources), Office of the Under Secretary of Defense for Intelligence. In this position, she was responsible for: executive oversight of the multibillion-dollar portfolio of defense intelligence-related acquisition programs; the planning, programming, budgeting and execution of the multibillion dollar Military Intelligence Program; and the technology efforts critical to satisfying both current and future warfighter needs.

In April 2009, Ms. Sapp was appointed the Principal Deputy Director, National Reconnaissance Office (PDDNRO). As PDDNRO, she provided overall day-to-day management of the NRO, with decision responsibility as delegated by the DNRO.

Ms. Sapp holds a Bachelor of Arts, and an MBA, Management, both from the University of Missouri, Columbia. She is also Level III certified in Government Acquisition and was certified as a Defense Financial Manager. Ms. Sapp is a native of St. Louis, Missouri, and now resides in Alexandria, Virginia.

MS. SUSAN M. GORDON
Deputy Director, NGA

Ms. Susan (Sue) Gordon became the National Geospatial-Intelligence Agency's (NGA) sixth Deputy Director on Jan. 1, 2015 after more than 25 years of service with the Central Intelligence Agency. As deputy director of NGA, she assists the director in leading the agency and in managing the National System for Geospatial Intelligence.

Ms. Gordon previously served concurrently as Director of the CIA's Information Operations Center and as the CIA Director's senior advisor on cyber. She was responsible for fully integrating advanced cyber capabilities into all of CIA's mission areas, while protecting against the cyber threat to the CIA's information, operations and officers.

Ms. Gordon began her career with the CIA in 1980 as an analyst in the Office of Scientific and Weapons Research in the Directorate of Intelligence, responsible for technical analysis of foreign space and missile systems. She later held several engineering development positions in the CIA's Directorate of Science and Technology, working both national systems and new concepts before moving into a succession of analytic and technical management positions.

Ms. Gordon served later as the executive assistant to the Executive Director of the CIA and then became the architect and first director of the Office of Advanced Analytic Tools. In 1998, she was named special assistant to the Director of Central Intelligence and was responsible for designing and implementing In-Q-Tel, a private, non-profit company whose primary purpose is to deliver innovative technology solutions for the agency and the intelligence community.

Following a break in service to raise her children, Sue was appointed Director of Special Activities in the Directorate of Science and Technology, focusing on supporting counterproliferation and counterterrorism efforts. She was also the Intelligence Community's focal point for related biological research, development and engineering capabilities for collection and operations. She served as deputy chief of the Information Operations Center from September 2009 to December 2011 and then as the CIA's Director for Support from January 2012 to November 2013.

Ms. Gordon holds a Bachelor of Science degree in zoology (biomechanics) from Duke University. She and her husband Jim live in Northern Virginia, and have two grown children.

MS. DARLENE MINICK
Director IMINT, NRO

Ms. Darlene Minick was appointed Director, Imagery Intelligence Systems Acquisition (IMINT) at the National Reconnaissance Office (NRO) in July 2008. As the Director of IMINT, Ms. Minick is responsible for the successful execution of all national imagery intelligence satellite systems acquisitions within the NRO with a budget of more than $15 Billion. Her responsibilities span the design, acquisition, launch, deployment and operations support for current and future IMINT constellations. In support of these efforts, Ms. Minick manages a government workforce of over 400, and a support contractor and industrial workforce of several thousand. Of equal importance to these responsibilities, she is also charged with sustaining mission partner relationships between federal agencies and representing NRO programs to Congress, the Director of National Intelligence, the Department of Defense, the Office of Management and Budget and the Community Management Staff.

Ms. Minick has over 30 years Government service, including many years in the Signals Intelligence Systems Acquisition Directorate (SIGINT) where she most recently served as Director, Space Systems Program Office from March 2005-July 2008. In this capacity, she was responsible for the acquisition of overhead systems valued at over $8 Billion. These systems include responsibility for design, acquisition, launch, deployment and operations. Ms. Minick was also responsible for integration of adjunct payloads onto satellites. In support of the above efforts, Ms. Minick managed a government workforce of nearly 100; CAAS, SETA, FFRDC and an industrial workforce of several thousand. Ms. Minick also held a variety of other positions of increasing responsibility to include: Deputy Director, Space Systems Program Office (August 2003-May 2005); Director, Space & Launch, SSPO (2001-2003); Director, Systems Engineering and Operations, SSPO (1993-2001; Chief, Operations, Systems Engineering and Operations, SSPO (1997-1998).

SPEAKER LIST

DAY 1

Colonel Rob Introne
Director of the Electro-Optical System Program Office (ESPO), Imagery Intelligence System Acquisition Directorate (IMINT), National Reconnaissance Office (NRO)

Colonel Donald Frew
Deputy Director of the Reconnaissance Systems Program Office (RSPO), Imagery Intelligence System Acquisition Directorate (IMINT), National Reconnaissance Office (NRO)

Dr. Eleanor Silverman
Program Director of the Activity Based Intelligence Systems Program Office (ASPO), Imagery Intelligence System Acquisition Directorate (IMINT), National Reconnaissance Office (NRO)

Mr. Norm Davis
Director of the Mission Program Office, Imagery Intelligence System Acquisition Directorate (IMINT), National Reconnaissance Office (NRO)

Mr. John Hoffman
Commander, Aerospace Data Facility East, Mission Operations Directorate (MOD), National Reconnaissance Office (NRO)

Mr. Charles Schmidt
Senior Advisor for Mission Management, Analysis Directorate, National Geospatial-Intelligence Agency (NGA)

Mr. Keith Hoffman
Senior Intelligence Engineer, Geospatial and Signatures Intelligence Group, National Air and Space Intelligence Center (NASIC)

Mr. Dave Creasy
Senior Space Systems Analyst, Op Nav N2/N6 (Information Warfare)

Mr. Greg R.
Senior Analyst, Weapons & Counterproliferation Mission Center (WCMC)

Mr. Jeffrey Canfield
Deputy Director for Battlespace Awareness, J28, Joint Staff J2

DAY 2

Mr. Doug Loverro
Deputy Assistant Secretary of Defense for Space Policy, Office of the Secretary of Defense Policy (OSDP)

Mr. Troy Meink
Assistant Director of National Intelligence for Systems and Resource Analysis, Office of the Director of National Intelligence (ODNI)

Mr. Miles Nakamura
Chief Architect, Ground Enterprise Directorate (GED), National Reconnaissance Office (NRO)

Dr. Susan Durham
Director, Advanced Systems and Technology Directorate (AS&T), National Reconnaissance Office (NRO)

Mr. Ed Mahen
Director of the GEOINT Systems Program Office (GSPO), Imagery Intelligence System Acquisition Directorate (IMINT), National Reconnaissance Office (NRO)

Dr. Stewart Cameron
Director, Survivability Assurance Office (SAO), National Reconnaissance Office (NRO)

Mr. John Charles
National GEOINT Officer for Commercial Imagery, Source Operations Group, National Geospatial-Intelligence Agency (NGA)

Mr. Shawn Dilles
Director, Office of Geospatial Intelligence Management Frontiers Division, National Geospatial-Intelligence Agency (NGA)

Dr. Didi Kuo
Director of Geospatial Intelligence Futures Study Group, Imagery Intelligence System Acquisition Directorate (IMINT), National Reconnaissance Office (NRO)

Mr. Steve Kitay
Professional Staff Member, Committee on Armed Services, U.S. House of Representatives

Ms. Leonor Tormero
Professional Staff Member, Committee on Armed Services, U.S. House of Representatives

MASTER OF CEREMONIES

Mr. Jimmy Comfort
Deputy Director Imagery Intelligence System Acquisition Directorate, National Reconnaissance Office (NRO)

Amazon Web Services

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Amazon Web Services (AWS) Worldwide Public Sector helps government, education, and nonprofit customers deploy cloud services to reduce costs, drive efficiencies, and increase innovation across the globe. With AWS, you only pay for what you use, with no up-front physical infrastructure expenses or long-term commitments.

Analytical Graphics, Inc.

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Analytical Graphics, Inc. (AGI) makes, sells, and fully supports off-the-shelf desktop and server software with SDKs for modeling, analyzing, and visualizing C4ISR systems. AGI is also the founder and primary contributor to the CesiumJS open source project which provides time-based 3D geospatial visualization in a browser without a plugin.

August Schell

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August Schell provides enterprise-class IT solutions focused on core infrastructure, cloud management, software defined data centers (server, network, and storage virtualization), big data, and cyber security.

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CIS Secure Computing, Inc.

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CIS Secure Computing designs and manufactures mission critical secure computing and communications solutions for the U.S. Intelligence Community and U.S. Government Agencies.

ClearTerra

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ClearTerra LocateXT technology discovers and extracts geocoordinates, place names, and other critical information within unstructured data and places it instantly into desktop, server, and cloud-based geospatial platforms.

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Symantec is a global leader in providing security solutions for our Enterprise customers. The Symantec Enterprise Security strategy is centered on four key pillars: cyber security services, advanced threat protection, information protection for on premise and the cloud, and is based on our unified security analytics platform.

TerraGo Technologies

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From sharing feature-rich maps and imagery to deploying on-demand apps for a mobile workforce, we build products that enable collaboration from any place on the planet. TerraGo invented the industry's most widely adopted geospatial collaboration technology with its GeoPDF products and is revolutionizing field data collection with TerraGo Edge mobile platform.

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IMINT Learning Center

IMINT Learning Center provides timely accessible education to broaden understanding of the IMINT mission and GEOINT systems and technology for cleared government, military, and contractor personnel across agencies. Visit IMINT Learning Center in the atrium.

RED DOT and MAIRS – IED Alerting and Status Update

The NRO's RED DOT provides the ability to collect and disseminate Counter-IED warning to command centers and tactical vehicles. The Army is working to make RED DOT a Program of Record. The Mobil Automated Intelligence Reporting System (MAIRS) extends the RED DOT warning to dismounted warfighters by proving the alerts displayed on current commercial imagery to connected smartphones and tablets in the Nett Warrior program – or via a standalone app on iOS devices. MAIRS also provides the means to report on the status of suspected IEDs – cleared, nothing found, components only, etc. The standalone MAIRS will also connect to an Apple Watch so the warfighter can receive the alert without having to pick up his/her phone.

Geospatial Metaverse

A physics based, persistent, collaborative, and immersive Massively Multiplayer Online environment which blends virtual and real world information to capitalize on user experiences and knowledge.

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