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WEDNESDAY OCT 10 2012

Zen and the Art of Intelligence

DNI Urges Intelligence Integration and Avoiding Sequestration

The Director of National Intelligence believes the Intelligence Community could learn some lessons from bikers—and not bicyclists, but the Harley Davidson aficionados.

“There’s profound wisdom that comes from old bikers, in life, and when you think about it, for intelligence,” DNI James Clapper said during his keynote address Tuesday morning at the GEOINT 2012 Symposium.

The following were among the sayings he thought could be attributed to both motorcycles and intelligence: Never mistake horsepower for staying power; A bike on the road is worth two in the shop; Maintenance is as much art as it is science.

He also referenced the well-known book, “Zen and the Art of Motorcycle Maintenance,” by Robert Pirsig, which at closer look is more about philosophy and values.

One argument from the book is that quality, value and truth are what actually exist in the real world, Clapper said. He added that this notion could easily be extended to intelligence integration, which has been his primary focus as DNI.

“We split intelligence into HUMINT, SIGINT, and GEOINT—any number of INTs, even as we try to improve them and make them work together,” Clapper said. “But these are all manmade constructs too. We refer to them as

see *Zen and the Art of Intelligence*, p. 14



Director of National Intelligence James Clapper gives a keynote speech Tuesday morning.

“If [sequestration] happens it would occur during the time of one of the most perverse and demanding array of threats I’ve seen in almost 50 years in this business.”

— DNI James Clapper



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REMEMBERING THE CUBAN MISSILE CRISIS

Havana Nights Welcome Reception Pays Homage to History



The GEOINT 2012 Havana Nights Welcome Reception took place in the Gaylord atrium's Emerald Plaza and Wreckers Sports Bar.

This month marks the 50th anniversary of the Cuban Missile Crisis, which was a critical point in our nation's use of aerial surveillance to counter major national security threats.

USGIF paid homage to this historic event with its "Havana Nights Welcome Reception: Remembering the Cuban Missile Crisis," which featured of all the sights, sounds and flavors of Havana, Cuba.

With Cuban-inspired food and live music, GEOINT attendees kicked off the week with a networking event that spanned most of the Gaylord Palms.

For 13 days in October 1962, the U.S. came very close to engaging in a major nuclear war. President John F. Kennedy had publicly warned the Soviet Union not to introduce offensive missiles into Cuba. However, Soviet leader Nikita Khrushchev surreptitiously brought missiles to Cuba, which were discovered by an American U-2 spy plane.

"The Cuban Missile Crisis was one of the most intense moments in our nation's history and without the critical reconnaissance, President Kennedy could never have made the decisions," said Dr. Christopher Tucker, USGIF board member and principal of Yale House Ventures. "GEOINT 2012 is the perfect venue for marking this occasion."

On display for the reception was an authentic SA-2 medium to high altitude two stage surface to air (anti-aircraft) Soviet Union designed missile, which was among the 24 discovered by the U.S. in 1962. The missile be on display this week outside the exhibit hall. ■

PHOTO COURTESY OF JFK LIBRARY/ WIKIMEDIA COMMONS



President John F. Kennedy and Chairman Nikita Khrushchev at a meeting in Vienna, Austria in 1961, a year before the Cuban Missile Crisis.

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INNOVATION DISTINGUISHES BETWEEN
A LEADER AND A FOLLOWER. — Steve Jobs



COMMERCIAL GEOINT WORKSHOPS

CSARS and EO Working Groups Offer Training Sessions

USGIF's Commercial Synthetic Aperture Radar Satellite (CSARS) and Earth Observation (EO) Working Groups are offering training sessions throughout the week as part of the NGA/USGIF Commercial GEOINT 2012 Workshop Series.

"During the recent workshops in Florida for SOCOM/CENTCOM and for SOUTHCOM, the members of the Working Groups agreed that it would be an added value they could bring to GEOINT 2012 to provide a number of one-hour sessions [to be held in Sarasota 3, where you can sign up as well] on various SAR and EO capabilities and application areas," said John Moeller, chair of USGIF technical programs.

The commercial SAR training will include overview and introduction sessions, where participants will be introduced to the capabilities and advantages of commercial space-based SAR. The special topic sessions will provide in-depth presentations of selected applications supported by SAR imagery, such as mapping and feature extraction, maritime domain awareness, disaster monitoring and digital elevation models.

The CSARS Working Group will also hold a lunch roundtable on Thursday from 1 to 2 p.m. in Sun Ballroom 4-5. No registration is required to attend the roundtable.

During the EO sessions, DigitalGlobe and GeoEye will highlight the ways to get access to and use commercial, high-resolution imagery through NGA's EnhancedView program. End users will get specific instruction on the benefits and use cases for commercial imagery, plus learn more about future capabilities.

To learn more and view the agenda, visit the news page at www.usgif.org. To register, send your name, email address and requested session code from the agenda to training@usgif.org. ■

GEOINT 2012 DISCOUNTS

As an attendee or exhibitor at the GEOINT 2012 Symposium, take advantage of the following discounts and offers by showing your GEOINT 2012 badge or "got geoint?" wristband.

DOWNTOWN DISNEY

Looking for something to do this evening? Your "got geoint?" wristband will earn you discounts from 7 to 11 p.m. at the following Downtown Disney venues: Planet Hollywood, Raglan Road, Bongos, House of Blues, Portobello, Fulton's Crab House, and Wolfgang Puck Café. Buses will depart from Gaylord Palms and the Caribe continually from 6:30 to 11:30 p.m. for this optional night out.

GARDEN TOUR

A free Gaylord Palms Garden Tour will be offered today at 6 p.m., and includes a tour of all three breathtaking themed atriums: Everglades, Kew West, and St. Augustine. The tour spans more than 4.5 acres of space with more than 500,000 eye-catching individual plants. To join, meet at the Emerald Bay Plaza fountain.

RETAIL

GEOINT 2012 participants receive a 10% discount at the following Gaylord Palms retail shops: Alligator Alley, Brighton Collectibles, Island Paradise, and PGA Tour Shops.

RELACHE SPA

The Relache Spa at Gaylord Palms has four special offers for GEOINT 2012 guests: a 50-minute GeoFacial for \$150, a 90-minute Cosmic Ray Conditioning Ritual for \$90, an 80-minute Moon Rock Massage for \$210, and a 50-minute Celestial Body Wrap for \$162. These prices include a 20% service charge. Stop by or call the spa to make an appointment. ■



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GEOSPATIAL INTEROPERABILITY

The Challenges and Opportunities of Information Sharing

The numbers are staggering. That's one reason why the reality for sharing information across all government levels in the wake of the attacks of 9-11 is harder than the vision.

"There are 800,000 front-line law enforcement officers," offered Mike Howell, deputy program manager for the Information Sharing Environment with the office of the Director of National Intelligence. "How do we clearly know that we trust them?"

Howell, who led Tuesday's panel on "Geospatial Interoperability: The Basis for Shared Information and Investments," answered his own question by referencing yet another benchmark event in intelligence security: "The lesson learned in the WikiLeaks [incident] is that we have to."

And the problem goes beyond the 800,000 officers.

"There are over 100 different ways to classify information in the law enforcement world," said Dan Cotter, CTO of the Department of Homeland Security.

The rest of the panel, which included Jerry Johnston, with the Department of the Interior, and James Kwolek, with the NGA, agreed.

The work to share information has three major goals, said Johnston, who is leading an effort to accomplish them: focus on using the data, a change from the greater emphasis on just collecting it; focus



James Kwolek of NGA, Dan Cotter of DHS, and Jerry Johnston of DOI discuss geospatial interoperability during a breakout session Tuesday afternoon.

on authoritative data; and leverage shared computing capability.

Citing the difficulty some potential users have with multiple passwords to different domains, Cotter offered a scenario of sitting at one computer and using one password to get all of the data he needs.

"That's going to be a huge step for us," he said. ■

A SMARTER RESPONSE

Confronting a New World of Global Disasters

From Hurricane Katrina to the devastating earthquake in Haiti to the oil spill in the Gulf of Mexico, we are confronted with an unprecedented rise in global disasters.

To meet the demands and uncertainty of this trend, new methods are emerging that leverage spatially and temporally referenced social media communications.

During the GEOINT 2012 Breakout Session, "Confronting Complexity in Global Disasters: Creating Unity of Effort When It Matters Most," a panel of government and industry experts discussed how GEOINT is creating a unity of data through multiple channels to generate better disaster response.

"The ability to share data geospatially to provide timely information

to the disaster response enterprise is critical," said Mark Snyder, director, office of transformation and initiatives at FEMA. "It's all about data transparency to make the disaster survivor more self sufficient and ultimately bring communities back online in a shorter amount of time."

The National Geospatial-Intelligence Agency (NGA) is equipping FEMA and other response organizations with the tools to rapidly visualize a crisis as it develops in real time.

"This is fundamentally changing the way we do business," said Dennis Bowerman, mission manager for the integrated work group - readiness, response and recovery, NGA. "By leveraging deep analytic solutions in a self-service fashion, we are able to advance the way we provide geospatial data in an on-demand fashion." ■

GEOINFORMATION SERVICES

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While you're there, make sure to see the first images from SPOT 6! Also, get the latest news on Pléiades, the current TerraSAR-X promotions, the upcoming WorldDEM and the SpaceDataHighway.

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PREDICTIVE ANALYTICS

Recorded Future Carves a Niche in Open Source Intelligence

Startup company **Recorded Future (Booth 1437)** displays its predictive analytics capability at the GEOINT 2012 Symposium.

Recorded Future has carved out a niche in the open source intelligence market, separating temporal information from the noise of more than 150,000 sources to create a calendar that includes everything from planned unrest to high-level international meetings.

The company focuses on what's ahead, using the past primarily for context. The concept is to find people who are talking about the future. Analysts can use that information, fused with their own data, to predict the future in recommendations to decision-makers. Government officials can monitor protests in other countries or meetings between other governments' officials. The business community can investigate risks, such as leaked news about upcoming product releases.

Recorded Future continues to add sources of information as well as additional language capabilities that generate even more sources in an attempt to broaden its value globally.

"We are broadening our scope rapidly," said Matt Kodama, vice president of products for Recorded Future. "The number of languages

we support is mounting and every time we add another language, we add more sources. It's a lot more sophisticated than just keyword searches. It's pretty culturally specific."

The company's process of separating intelligence is complex, using a relationship between the past and future.

"We can basically roll the clock back," Kodama said. "We know this particular event did happen in this time at this place. Now let's go back a week before that and look at publications. Who was predicting that accurately? Who wasn't?...It's a way of looking at source credibility. If you've got a source that's been calling it in the past, and particularly one making a volume of good calls, not only was their veracity good but their predictions were fast. That's a source you want to monitor."

It's part of the puzzle of open source information, a growing capability in government and commercial planning, and one which is generating increasing technological capability.

From millions of bits of data, Recorded Future looks for people who are talking about the future, then looks further to learn where and when that future event might take place.

FLOOR

EXHIBIT HALL HIGHLIGHTS

PHOTO COURTESY OF BATTLESPACEFS.COM



UAVS AND MORE

General Atomics to Display Predator Models and STARE

General Atomics (Booth 629) will have a varied display of UAVs at GEOINT 2012, beginning with a one-sixth scale model of the Predator B/MQ9.

The follow-on of the Predator A UAV that established the capability of remotely powered reconnaissance aircraft in Mideast war zones, the B model is a formidable aircraft that was the first of its kind: a hunter-killer UAV designed for long endurance and high altitude.

General Atomics recently tested the Predator B/MQ9 Block 1-plus, an upgrade, at its Palmdale, Calif., facility.

The Predator C Avenger will also be on display. It's the next generation UAV—jet-powered with stealth characteristics. Tail 2, the second aircraft of the series, was successfully tested earlier in the year, with Tail 3 and Tail 4 expected soon. The company is also working on a Predator C Avenger model that could be launched from an aircraft carrier.

In addition to UAVs, the company will also feature its Lynx Multi-mode Radar and the new System for Tactical Archival, Retrieval and Exploitation (STARE), both of which were demonstrated at NATO's Unified Vision (UV12) trial in Brekstad, Norway, in June.

STARE is designed to create intelligence at the tactical level. It can store data for 30 days, retrieve and fuse data sources, exploit and create actionable intelligence, and connect to the SIPRNet and Distributed Common Ground System (DCGS) for data dissemination.

A COLLABORATIVE EFFORT

ITT Exelis and Exelis VIS Highlight Tools for ISR PED

ITT Exelis (Booth 1317) was born about a year ago from a corporate decision to divide the far-reaching ITT brand into three businesses. ITT Exelis handles the government ISR business, but is presenting some new concepts from the overall ITT brand at the GEOINT 2012 Symposium.

The first is a new product, the ENVI Services Engine, which supports the ENVI software line that is in its fifth generation (and counting) of processing and analyzing imagery and data gathered from airborne and satellite sensors.

The ENVI Services Engine, produced by ITT Exelis Visual Information Solutions (Exelis VIS), uses open source standards and middleware-agnostic architecture to bring image analysis capabilities to the cloud. This offers potential for a wider range of exploitation and dissemination to end users and warfighters. The open-source standards provide flexibility to allow the ENVI Services Engine to be integrated into many different types of systems.

Although now split into three different businesses, the ITT team continues to collaborate as a larger company, according to Beau Legeer, vice president of product marketing at Exelis VIS.

"Our message to this marketplace is a cohesiveness that we have, not only with airborne capture solutions, but also ground and onboard exploitation and processing solutions," Legeer said. "The message that we want to convey is that we provide the technology and solutions necessary to work through that entire imagery and data chain."

ITT Exelis will also showcase airborne solutions, such as Jagwire, which is web-enabled and designed to offer an integrated and unified approach to processing, discovery, storage, dissemination and exploitation of full-motion video and intelligence information in near real-time, while optimizing bandwidth use.

The company also plans to showcase the Federated Embedded intel-server for Collaborative Operations (FELCO), which brings layered intelligence to warfighters more quickly.

INFORMATION INNOVATION

Budget Pressures Drive Collaboration

DEFENSE AND INTELLIGENCE INFORMATION INNOVATION



Rob Carey, deputy chief information officer, DoD, (left) and Al Tarasiuk, chief information officer for the Intelligence Community, discuss information innovation at Tuesday's panel.

Tuesday morning's defense and intelligence panel on information innovation discussed the importance of collaboration to overcome shared challenges.

"The relationship between the IC and the DoD is stronger than ever because of the need to become an enterprise that serves the nation's security apparatus," said Rob Carey, deputy chief information officer, DoD.

"The reality is that none of our agencies is going have enough money to be able to deal with requirements like big data, mass analytics, and things like that," said Al Tarasiuk, chief information officer for the Intelligence Community. "The volumes and the intensity of all of this information coming in is just too great. The only way we can do this and be effective in our missions is to do it together."



Joint Information Environment (JIE) and Intelligence Community Information Technology Enterprise (ICITE) are central to the collaboration strategy. The ICITE is program aims to move employees to a common desktop and cloud environment and at the same time provide cost savings from improved IT. Along those same lines, JIE provides architecture enabling all to use an approved device whether at work, at home, or at any other mobile location.

The ability to share data securely, independent of the network across which that data travels, was another idea put forward.

With the kind of cyber attacks that we're seeing, Tarasiuk said, "The only way to fundamentally know who you're sharing your information with is by having an identity access management system that associates the attributes of a system or a person with the attributes of data."

This will give the data stewards a better sense of where their information is going and that it's under control, he explained.

"Fine grain, attribute-based access control is really critical to sharing information," he said.

Cloud-based computing is fundamentally changing the way security is handled. From network-layer security, now down to data-layer security, the possibility of exchanging secure, encrypted data across unsecured networks could be a short distance down the road, Tarasiuk said. "But we're not there yet."

When it comes to the role of industry, both panelists asked for understanding and partnership. Look at the macro-level and see where this is going, Carey said.

"We love to embrace innovation, but with the current architecture, innovation happens in-pocket and not at the enterprise level. That's where we need to go."

Tarasiuk said, "What we need from our business partners is to participate in this change, and help us get there."

On the topic of sequestration, Tarasiuk said, "I'm not looking forward to Jan. 1 and waking up to see that law – it will bring a lot of turmoil."

In reference to a memo Carey once sent in which he simply wrote, "Open source good," he issued a similar statement: "Sequestration bad." ■

**Open source good.
Sequestration bad.**

— Rob Carey, deputy chief information officer, DoD

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IT'S A NUMBERS GAME—AND MORE

NGA Director Outlines Progress and Goals

It's one thing to count off benchmarks on the way to accomplishing a mission, but quite another to offer context. What happens when that mission is complete?

This, according to National Geospatial-Intelligence Agency (NGA) Director Letitia Long:

"Recently, one of our young analysts used a newly delivered widget—powered by service-enabled content—to identify a previously undetected feature. She was able to create a geospatial rendering of that feature and its associated characteristics. Research that would have taken two analysts a full day took her a mere 10 minutes."

In delivering a keynote address Tuesday at GEOINT 2012, Long prefaced the story with information about reducing redundancy, as well as streamlining data and making it available.

"So far, we have made 40 percent of our content stores available," she said. "Our goal is 100 percent of our content stores available by July 2013."

It's a way to foster more such success stories. So, too, is collaboration between the NGA and Defense Intelligence Agency in which a Common Desktop Environment (CDE) is created. About 2,000 Intelligence Community employees will be on the CDE by March of 2013, with 60,000 a year later, Long said.

More numbers: The NGA has about 150 computer applications in its "App Store," and about 80 percent were generated by the agency itself. The remainder came from agency partners, and Long is seeking a future in which that ratio is reversed.

"My goal is that by July 2013, 75 percent of the apps in our store will be developed by others," she said, adding that a commercial



A panel of four of NGA's strategic objective champions discuss the new NGA 2013-2017 Strategy during a lunchtime panel Tuesday in the Innovation Pavilion.

model is needed to deal with licensing limitations as the apps become more ubiquitous.

The idea, said Long, is that openness of data and wider use of applications can foster partnerships.

It's also a way to cope with what could be draconian budget cuts on the horizon. Sequestration, which could hammer defense budgets next year, was on the minds of most who spoke during Tuesday's general session. Long was no different.

"At the end of the day, I'm looking for an opportunity to partner," she said. "At the end of the day, the whole of us working together in an integrated fashion is much more than the sum of the parts."

In her two years as NGA head, Long has sought to change its working environment, particularly when it comes to analysis. From that has come Integrated Working Groups that challenge analysts to create new ways to do their jobs. They were tasked to consider products from conception to completion, rather than just being concerned with their part of the process.

"This approach took people out of their comfort zones and put them into a place where they collaborated and brainstormed with others," she said.

The IWGs have begun a culture change in analysis, generating a synthesis that has contributed to the Integrated Analytic Environment, Long added. That IAE is leading to closer relationships and collaboration that can improve the way NGA and other government agencies do their jobs. ■

STRATEGIC OBJECTIVE CHAMPIONS ROUNDTABLE

A lunchtime roundtable convened at the Innovation Pavilion featuring four of NGA's Strategic Objective Champions (SOCs) who offered their perspectives on the new NGA 2013-2017 Strategy.

Lisa Spuria, director of analysis and SOC for analytic capabilities, said that as a result of bringing developers and analysts together at the grassroots level, there have been a number of "a-ha" moments and "wows."

"It's a huge culture change," she added. To have the mission drive the technology, rather than the other way around.

Jimmy Greene, director of source operations and management and SOC for content, offered the analogy of the banking industry's transformation: "Remember years ago, when you wanted a 100 dollars, you had to go and wait in line? Then came ATMs, now there's online banking so you don't even have to step foot in the bank if you don't want to."

We want to create an online environment, he went on, where you can access all the latest and greatest information we have.

Echoing a common refrain heard throughout the day, Spuria petitioned industry for new technologies: "Trend analysis and ABI [activity-based intelligence] is a huge new area, and one where industry could really help us."

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ZEN AND THE ART OF INTELLIGENCE CONTINUED

stovepipes...but we actually achieve the highest quality of value when we put them all together. That brings us closer to the truth, to the elusive holy grail of perfect intelligence.”

Following his introduction, Clapper’s keynote focused on several distinct topical areas.

APPRECIATING ALLIES

Clapper drew again from “Zen and the Art of Motorcycle Maintenance,” when he spoke about U.S. allies, referencing the benefits of finding an ally who thinks alike when one is struggling or on the path toward enlightenment.

“We’re bound tightly to our allies and friends now more so than ever before,” Clapper said. “Allied partnership in the NSG has really matured.”

The DNI added that he had just returned last week from a trip to Australia, where he attended an intelligence policy forum for senior level national security officials from allied nations. The forum concentrated on strengthening IT and personnel standards, which he said represents a foundational basis for further collaboration and integration.

ACTIVITY-BASED INTELLIGENCE

Clapper also discussed what he referred to as two big ideas for the future of the Intelligence Community. The first idea is the Intelligence Community Information Technology Enterprise (ICITE), a Community-wide plan centered on cloud computing and cloud storage.

“As we execute this right we’ll save a lot of money,” he said. “Maybe more importantly, the Intelligence Community will be able to take intelligence integration to the next level as we transition from individual, agency-centric IT...to an enterprise model that shares resources and data.”

Clapper said the ICITE program aims to have initial operational capability for an IC cloud and common IC desktop by March 2013, with the full target architecture in place and in use by 2018.

The other big idea for the future of the Community is activity-based intelligence, which will be fueled by a future generation of overhead architecture, Clapper said, providing greater capability to look at an activity area over time and better forecast events.

“Instead of kind of predicting where we should look tomorrow, if we can respond on a quick queuing and tipping basis, to me that is what [ABI] is all about,” Clapper said. “In other words, be queued and then have the agility and capability to respond to those queues.”

EFFICIENT SECURITY

The Intelligence Community should set an example for the whole of government when it comes to security and avoiding leaks, Clapper said, referencing the two FBI investigations currently underway for what he called egregious leaks.

Clapper said he intends to continue the push to further streamline the clearance process, and move toward more efficient initial investigations followed by continuous investigations rather than the periodic check-ups currently in place. Such pilot programs are currently underway with the Army and NSA, and have proved promising thus far, he said.

Also important is promoting clearance reciprocity in terms of security and efficiency, Clapper said.

“We’re going to push hard on all these initiatives, but in the end, despite whatever security enhancements we are able to make, this is still about personal trust,” he said.

SEQUESTRATION

Clapper ended his address on the somber note of sequestration, or the “so called fiscal cliff we’re about to drive over unless Congress takes action,” he said, declaring that sequestration would be disastrous for the Intelligence Community.

“It isn’t just the cut, it’s the manner in which it would have to be taken—that the National Intelligence Program would be an array in some 700 PPAs and each and every one of them would be proportionately cut, leaving me as program manager absolutely no latitude on picking cuts or protecting key activities or programs.”

Ultimately, Clapper said such cuts would mean reductions in people, what he called the nation’s most valuable asset, and could jeopardize every major systems acquisition program in the National Intelligence Program.

“The worst part is that if it happens it would occur during the time of one of the most perverse and demanding array of threats I’ve seen in almost 50 years in this business,” Clapper said.

He added that Congress should heed one last thought from his list of biker wisdom: “If you really want to know what’s going on, watch what’s happening at least five cars ahead.” ■

The GEOINT 2012 Show Daily is brought to you by *trajectory*, the official publication of the United States Geospatial Intelligence Foundation (USGIF).



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PHOTO GALLERY



Marissa Allison of Booz Allen Hamilton addresses the audience during a Monday afternoon panel session at GEOINT Foreword.



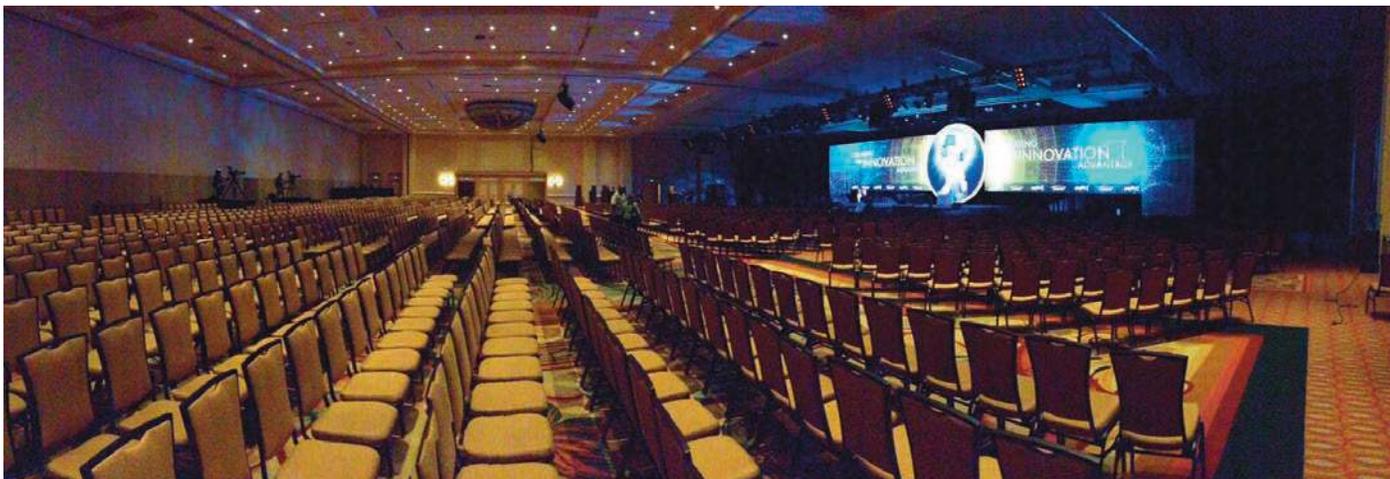
Air Force Junior ROTC from Dr. Phillips High School present the colors during the GEOINT 2012 welcoming ceremonies Tuesday morning.



Max Baber, USGIF's director of academic programs, and attendees enjoy the Cuban-themed Havana Nights Welcome Reception Monday evening in the Gaylord atrium.

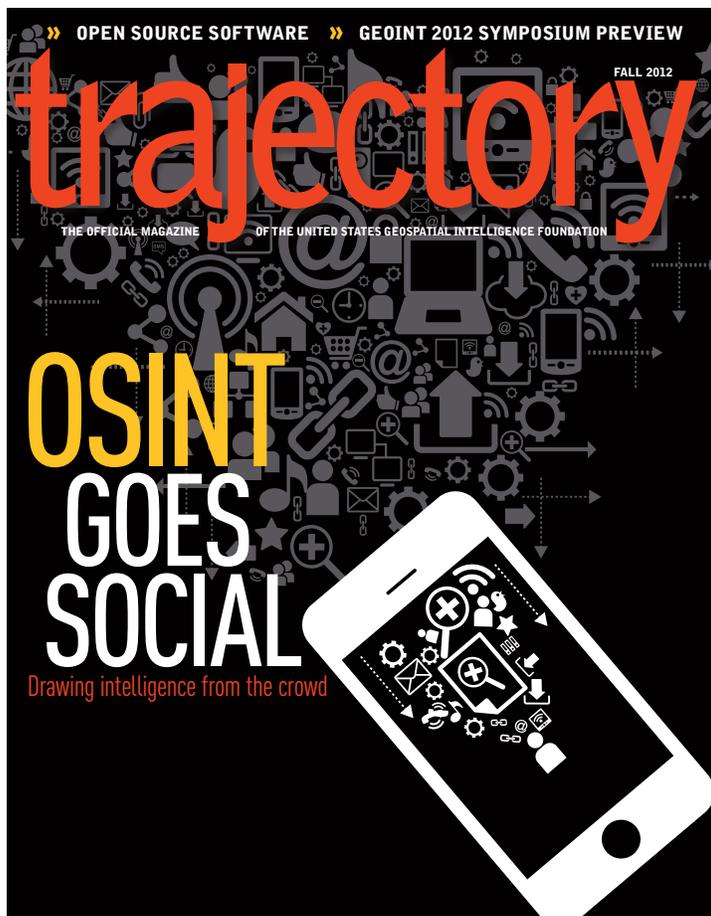


U.S. Army soldiers tour the General Dynamics booth Tuesday in the exhibit hall.



All is quiet and the stage is set for the official kick off of GEOINT 2012.

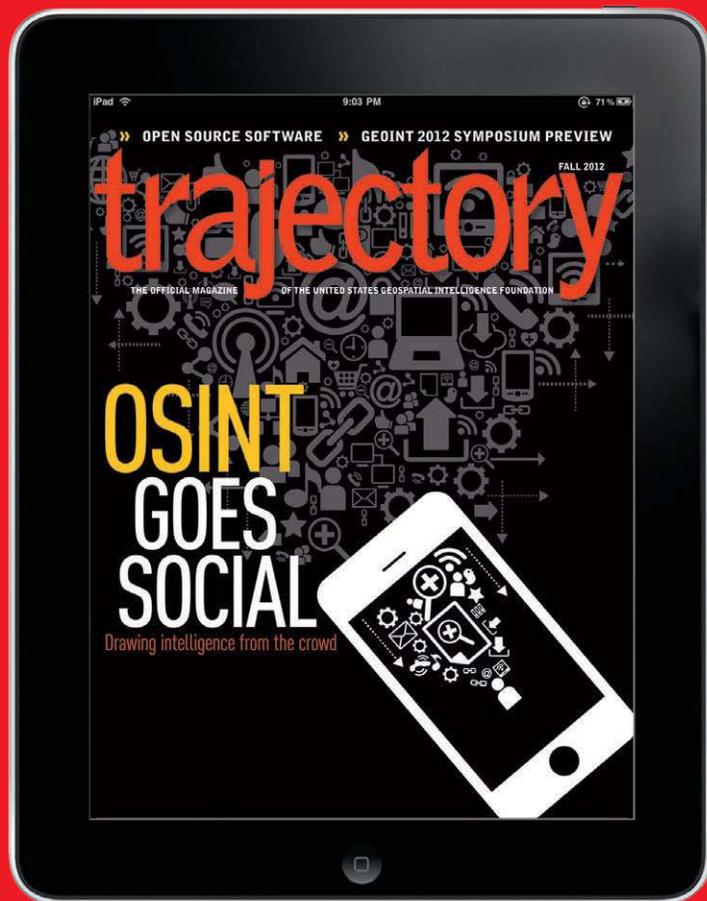
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8:00 A.M. - 8:15 A.M.
USGIF Awards Presentations
Osceola Ballroom C-D

8:15 A.M. - 8:30 A.M.
Master of Ceremonies
 MG (Ret.) John M. Custer III, Director, Federal Strategic Missions and Programs, EMC

8:30 A.M. - 9:15 A.M.
Keynote
 Air Chief Marshal Sir Stuart Peach, Commander, Joint Forces Command, U.K. MoD

9:15 A.M. - 10:15 A.M.
PANEL
 The Converged Future of Geospatial Intelligence: Young Innovators Entrepreneurs and innovators are building the future vision of GEOINT today. This panel will investigate how the converging worlds of Crisis Mapping, Geosocial Networks, Open Data and Location based Analytics are creating new data sets and tools. This change is being lead by a new generation of dynamic thinkers and geodigital natives who are applying emerging technologies and analytical techniques to vast data sets.

Moderator - Todd Huffman, Private Consultant

- Alex Cooper, Senior Systems Engineer, SAIC
- Shay Har-Noy, Chief Executive Officer, Tomnod
- Shadrock Roberts, Senior GIS Analyst, U.S. Agency for International Development (USAID)

10:15 A.M. - 10:45 A.M.
Networking Break

10:45 A.M. - 11:30 A.M.
Keynote
 LTG Michael Flynn, Director, Defense Intelligence Agency (DIA)

11:00 A.M. - 6:00 P.M.
Exhibit Hall Open

11:00 A.M. - 12:30 P.M.
Interoperability Tech Talks
Innovation Pavilion, Exhibit Hall, Booth #2003

11:30 A.M. - 12:15 P.M.
Keynote
 The Honorable Michael Vickers, Under Secretary of Defense for Intelligence (USD(I))

12:00 P.M. - 2:00 P.M.
Lunch
Exhibit Hall and Sun Ballroom A-B

12:15 P.M. - 2:15 P.M.
Lunchtime Roundtable: Modeling and Simulation Workshop
Sun Ballroom 1-3

2:30 P.M. - 4:00 P.M.
Breakout Session
Activity Based Intelligence: Delivering Contextualized GEOINT
Osceola Ballroom A

This break out session will explore integrating data and information sources to create context for a given observed activity [i.e., activity based intelligence] - context that is spatially and temporally registered. Experts from various knowledge sectors will examine how different aspects of human existence and interactions might provide repeatable and verifiable signatures which could be integrated into a common operating picture, thereby providing 'context' to the activity that originally motivated the question. Experts from Academia, Government, and Social/Cultural Media will come together to discuss how one might add 'context' to activity based intelligence.

WELCOME – Barry C. Tilton, P.E., NRO Senior Technical Advisor, Integrity Applications Incorporated

Moderator – John Morris, Chief Scientist, Riverside Research

- MG Steve Fogarty, Commanding General, U.S. Army Intelligence and Security Command (INSCOM)
- Mark J. Choiniere, NGA Liaison to the Advanced Systems & Technology Directorate, National Reconnaissance Office (NRO)
- Dr. Gary Condon, Science and Technology Advisor, ISR Task Force, OUSD(I)
- David J. Gauthier, Chief of Strategic Capabilities, Office of Special Programs, National Geospatial-Intelligence Agency (NGA)
- Samuel Oliver Jr., Chief, ISRPED and Applications Division, U.S. Air Force

Breakout Session
Threats in the GEOINT Industrial Security Enterprise
Osceola Ballroom B

This session targets U.S. technology, intellectual property, trade secrets and proprietary information. Our national security relies on our collective success at thwarting these persistent attacks. Every

2012 SYMPOSIUM AGENDA

time our adversaries gain access to sensitive or classified information and technology, it jeopardizes the lives of our warfighters, since these adversaries can exploit the information and technology to develop more lethal weapons or countermeasures to our systems. Our national security is also at risk in the potential loss of our technological edge, which is closely tied to the economic success of the cleared contractor community and the well being of our economy. This panel will bring together experts from Industrial Security, Counterintelligence, Cyber and Industry to discuss the management of risk, as a function of threat, vulnerability and consequence, across the GEOINT cleared industrial base. Panel members include subject matter experts from DSS, NGA, NSA and key GEOINT industry partners.

Moderator – Stanley “Stan” Sims, Director, Defense Security Service (DSS)

- Chris Forrest, Chief, Industrial Security Field Operations, NCR Defense Security Service (DSS)

- Jennifer Gabeler, Assistant Deputy Director, Intel Defense SecurityService (DSS) CI
- Scott Hicar, Chief Information Officer, DigitalGlobe
- Scott O’Connell, Director, Threat Mitigation Center, National Geospatial-Intelligence Agency (NGA)
- G. Rick Wilson, Deputy Special Assistant for Cyber - NSA Cyber Task Force (CTF) and DoD Co-Lead for DHS-DoD Joint Coordination Element (JCE)

4:00 P.M. - 6:00 P.M.

Interoperability Tech Talks

Innovation Pavilion, Exhibit Hall, Booth #2003

4:00 P.M. - 6:00 P.M.

Exhibit Hall Networking Reception

6:30 P.M. - 11:30 P.M.

Shuttle Transportation to Downtown Disney

» THURSDAY OCTOBER 11 AT-A-GLANCE

9:15am - 9:45am	THE USGIF ARTHUR C. LUNDAHL LIFETIME ACHIEVEMENT AWARD PRESENTATION [Osceola Ballroom C-D]
9:45am - 10:00am	MASTER OF CEREMONIES – The Honorable Jeffrey K. Harris, USGIF Board of Directors; and CEO & President, JKH Consulting [Osceola Ballroom C-D]
10:00am-11:15am	PANEL – Service Intel Chiefs [Osceola Ballroom C-D] <ul style="list-style-type: none"> • Lt Gen Larry D. James, Deputy Chief of Staff for Intelligence, Surveillance and Reconnaissance, U.S. Air Force • MG Steve Fogarty, Commanding General, U.S. Army Intelligence and Security Command (INSCOM) • RADM Sandy Daniels, Senior Advisor for Space to the Deputy Chief of Naval Operations for Information Dominance, N2/N6, U.S. Navy • Phillip C. Chudoba, Assistant Director of Intelligence, U.S. Marine Corps
11:15am-12:00pm	KEYNOTE – GEN Keith B. Alexander, U.S. Army, Director, National Security Agency/Chief, Central Security Service (NSA/CSS) and Commander, United States Cyber Command (USCYBERCOM) [Osceola Ballroom C-D]
11:00am-3:00pm	EXHIBIT HALL OPEN
11:00am-12:30pm	INTEROPERABILITY TECH TALKS [Innovation Pavilion, Booth #2003 Exhibit Hall]
12:00pm-2:00pm	LUNCH [Exhibit Hall and Sun Ballroom A-B]
1:00pm-2:00pm	LUNCHTIME ROUNDTABLE – GEOINT Professional Certification [Sun Ballroom 1-3] LUNCHTIME ROUNDTABLE – Commercial SAR Satellite Briefing [Sun Ballroom 4-5]
2:30pm-4:00pm	BREAKOUT SESSION – Interagency GEOINT Coordination [Osceola Ballroom A] BREAKOUT SESSION – National Certification and Accreditation Programs for the Intelligence Profession [Osceola Ballroom B]
2:30pm-4:00pm	WORKING GROUP MEETING – Modeling & Simulation [Sun Ballroom 4]
7:00pm-10:00pm	NETWORKING EVENT – GEOINT 2012 Sunshine State Closing Celebration [Gaylord Palms Emerald Plaza]



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