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The Symposium Returns to San Antonio

GEOINT 2017 PREVIEW WITH USGIF CEO KEITH MASBACK

How does it feel to be bringing the GEOINT Symposium once again to San Antonio?

This is our fifth time in San Antonio and the one constant has been tremendous attendee feedback in terms of quality of the location, convention center, hotels, and the proximity to the River Walk. And of course there are tremendous offerings in terms of food, entertainment, and shopping that make San Antonio one of the most popular destinations for GEOINT Symposia.

Another important thing about the San Antonio area is the large concentration of military and government organizations operating across myriad missions, including the 25th Air Force, NSA Texas, and U.S. Customs and Border Protection, who share an interest in geospatial intelligence. The San Antonio community is always very supportive as well. Rep. Joaquin Castro, Mayor Ivy Taylor, the local police and fire departments, and many others have gone out of their way to make us feel welcome in the city, continuing in the tradition of their predecessors.

How has USGIF evolved since 2011 when the organization last hosted the Symposium in San Antonio?

It's remarkable to think it's been almost six years since we've hosted the Symposium in San Antonio. Those years represent almost half the life of the Foundation, and we've made really important strides forward in that time. The term of art in the nonprofit world is "capacity building." First, an organization such as ours has to set down a firm platform upon which it can build and realize the promise of its mission. Next, it must generate the capacity to make a sustained impact. We've really been able to build out that capacity, and the organization that brings the Symposium to San Antonio this year is one that is more mature, more capable, and better poised for the future than we were six years ago. Take a look at our recently released 2016 Annual Report for a comprehensive snapshot of USGIF's programs and reach.

> see *Symposium Returns* p. 10



USGIF CEO Keith Masback addresses the audience at GEOINT 2016 in Orlando, Fla.

"We've really been able to build out that capacity, and the organization that brings the Symposium to San Antonio this year is one that is more mature, more capable."

—KEITH MASBACK, CEO, USGIF

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GEOINT 2017 WELCOME CELEBRATION Kick off the Symposium with great food and music

Join USGIF at South Bank on the San Antonio River Walk Sunday night to celebrate the Symposium with a GEOINT 2017 Welcome Celebration from 7 to 9 p.m. This event is always a special setting to meet new faces and reconnect with colleagues from across the GEOINT Community. Wear the wristband provided at registration or pick one up at the check-in desk between Howl & Hard Rock.

FROM THE

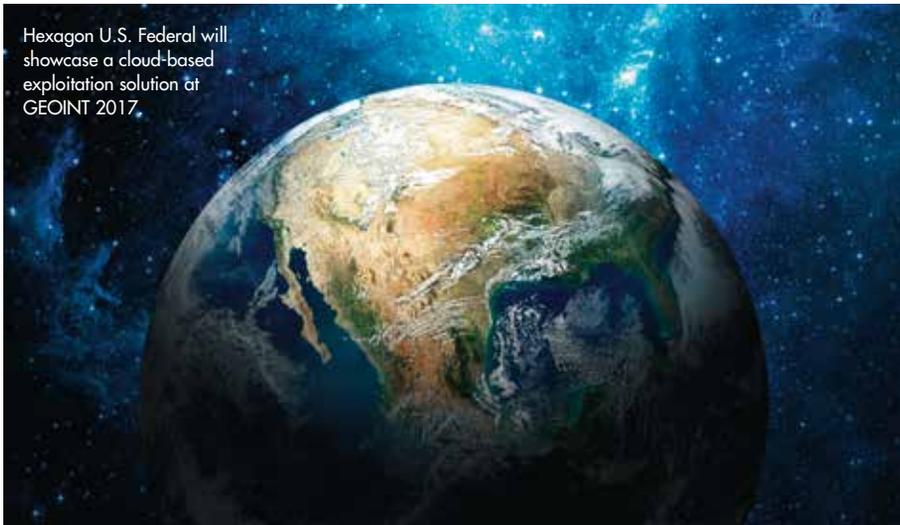


PHOTO COURTESY OF HEXAGON U.S. FEDERAL

Hexagon U.S. Federal will showcase a cloud-based exploitation solution at GEOINT 2017.

BRINGING GEOINT TO THE CLOUD

HEXAGON U.S. FEDERAL TO DEMONSTRATE REAL-TIME ANALYTICS WITH ESPIONAGE GAME

Hexagon U.S. Federal (Booth 1051), which recently rebranded from Intergraph Government Services, has more than three decades of experience serving the GEOINT Community.

The company, a subsidiary of Hexagon AB, offers imaging software, data integration, asset management, and information analytics to its government customers.

"We can bring more solutions to bear on a specific problem than any one company," said Rob Mott, Hexagon U.S. Federal's vice president of geospatial solutions.

The company's theme for its GEOINT 2017 booth is "bringing GEOINT to the cloud." Hexagon U.S. Federal will highlight a number of emerging technologies, including a cloud-based exploitation solution consisting of an analysis platform called M.App eX and a web application for image and data management called Web GLT.

The company will also demo a real-time analytics capability using what Mott referred to as a "convergence platform." This will come in the form of the Global Espionage Challenge: a game in which Symposium attendees will try to "catch an enemy spy." Participants will answer a series of geography-oriented questions via text message each day, and their responses will be processed by the convergence platform. Real-time analysis will display the results on a global map in the Hexagon U.S. booth. The map will reveal a daily winner based on how close the participant got to identifying the location of the enemy "spy." Each daily winner will be awarded a Series 2 Apple Watch.

Additionally, the company will showcase a web-based GIS technology called GeoMedia SmartClient. According to Mott, this is more than just a virtual desktop of GIS applications—it's a highly configurable interface meant for mobile, field-based users that need to collect and input data along stringent guidelines and quality checks, often in low-bandwidth areas.

"We're most looking forward to hearing from thought leaders about emerging trends and key challenges," Mott said. "You really get a sense, through tone and passion for certain topics, what's important to them—that's the most important takeaway for us. It helps us shape our future strategies."

THE STARTING POINT

DESCARTES LABS TO SHOWCASE CLOUD-BASED MACHINE LEARNING ANALYSIS ON A GLOBAL SCALE

Adam Smith makes this offer on behalf of what **Descartes Labs (Booth 1325)** has to show GEOINT 2017 attendees: "We get you to a starting point."

Beginning with satellite imagery and adding historical elements using images and video from NASA and others, the "starting point" Descartes Labs provides is a map ripe for analysis and the tools necessary to generate answers. To name a few use cases, Descartes' has helped a pool manufacturer analyze swimming pools around the world, an air conditioning firm study pollution in China, and farmers and agricultural investors monitor crops.

Descartes, established in 2014 as a spin-off from Los Alamos National Lab, offers a global-scale machine learning platform that powers geographic and temporal analyses of remote sensing data to identify objects, forecast change, and deliver high-performance intelligence solutions.

"We're ingesting most of the world's public data sources," said Smith, Descartes' head of business development. "The platform and analytics are there to help [our customers], whatever the problem they are trying to solve."

For example, Descartes Labs was recently awarded a grant from the Defense Advanced Research Projects Agency (DARPA) for a project called "Satellite Imagery Analysis for Automated Global Food Security Forecasting."

To help perform crop analysis and predict food availability, Descartes overlays historic and current weather patterns on its platform to determine trends and how they affect crops over time. This and other information "puts into context the way a crop is evolving in any specific year to give you an early warning that there may be a shortage," Smith said. "A bread shortage can lead to civil unrest in some areas."

FLOOR

EXHIBIT HALL HIGHLIGHTS



PHOTO COURTESY OF EARTH-I

Earth-i's prototype research and development satellite will be launched later this year.

OBSERVING EARTH

EARTH-I TO PROMOTE NEW FULL-COLOR VIDEO SATELLITE CONSTELLATION

British satellite operator **Earth-i (Booth 1528)** is expanding its role in the commercial Earth observation market. The company recently announced plans to launch and operate Europe's first commercial satellite constellation offering both video and imagery—and what it claims is the first in the world to provide full-color video footage.

"We have chosen a specific balance of higher image quality from lower cost, taskable, long-life micro-satellites that we can deploy in sufficient numbers," said Earth-i CEO Richard Blain.

Earth-i will highlight its constellation at GEOINT 2017 to glean initial feedback from current and potential customers and partners. Its booth, located in the New Member Showcase section of the exhibit hall, will tout Earth-i's progress in high-resolution (better than 1 meter) data collection as well as its ability to accurately track moving objects from space.

"This forms part of our capability package along with high-frequency revisit rates that we anticipate will reach multiple revisits per day to the same point on Earth," Blain said.

Earth-i's next satellite prototype, which is scheduled for launch later this year, will be used to test capabilities including tasking, data downlinks, and image acquisition techniques.

According to Blain, "The launch of our own constellation will enable us to meet the rising demand for high-resolution Earth observation data to support many applications including big data analytics, pattern of life [recognition], infrastructure monitoring, and disaster relief."

BUILDING BETTER SECURITY

AECOM ADVOCATES "BUILDING INFORMATION MODELING AND MANAGEMENT" TO INCREASE EFFICIENCY, SECURITY AT IC FACILITIES

To collect, analyze, and distribute information effectively, the Intelligence Community (IC) needs not only talented and dedicated people, but also secure and efficient facilities, according to multinational engineering firm **AECOM (Booth 425)**. At GEOINT 2017, AECOM will showcase the tool it says is best positioned to help the IC optimize its physical } infrastructure: building information modeling and management, otherwise known as BIM.

"A BIM model is the digital representation of physical and functional characteristics of a built facility or structure," explained Stuart Harrison, senior vice president leading the Infrastructure & Engineering sector for AECOM's Management Services Group. "The BIM model is therefore a drawing—usually three-dimensional—with a digital library of product information embedded within each element. Because the model contains such a widespread array of information, it creates a shared knowledge resource about the building or structure and forms a reliable basis for decisions not only during the early design and construction phases, but also during the operational stage."

AECOM will illustrate BIM's value to the IC by demonstrating digital models it has built for two high-value facilities currently using BIM to securely monitor, manage, and upgrade their infrastructure: Denver International Airport in Colorado and the Sydney Opera House in Australia.

"Building a BIM model is not like drawing lines on paper or on AutoCAD and assigning information to them," Harrison concluded. "BIM modeling is more analogous to constructing a LEGO model of individual bricks, each containing within them information on their size, connections, technical specifications, costs, etc. With AutoCAD you draw lines. With BIM you assemble components. And it is these components that contain a family of information."

Denver International Airport employs AECOM's building information modeling and management (BIM) tool.



PHOTO COURTESY OF AECOM



GEOINT 2017 Welcome Celebration

KICK OFF THE SYMPOSIUM AT THE RIVER WALK

Join USGIF at South Bank on the San Antonio River Walk Sunday night to celebrate the Symposium with a GEOINT 2017 Welcome Celebration from 7 to 9 p.m. This event is always a special setting to meet new faces and reconnect with colleagues from across the GEOINT Community.

The celebration will take place at six South Bank venues: Hard Rock Café, Howl at the Moon, Barriba Cantina, The County Line, Paesano's River Walk, and Ben & Jerry's. From a taste of Texas to rock 'n' roll, each location will feature themed food, drinks, and entertainment. To enter these venues during the celebration, wear the wristband provided at GEOINT 2017 registration. You may also pick up a wristband by visiting the check-in desk on W. Crockett St. between Howl and Hard Rock Café with your Symposium registration confirmation and valid ID.

Symposium Shuttles

USGIF OFFERING TRANSPORTATION FROM SYMPOSIUM HOTELS TO CONVENTION CENTER

USGIF is providing two free shuttles to and from Symposium hotels and GEOINT 2017 at the Henry B. Gonzalez Convention Center. One shuttle serves Courtyard and Westin, and the other serves Hyatt Regency and Residence Inn.

Shuttles run every 30 minutes during the following times:

Sunday, June 4

7 a.m. to 8 p.m.

Monday, June 5

6 a.m. to 5 p.m.

Tuesday, June 6

6 a.m. to 5 p.m.

Wednesday, June 7

6 a.m. to 4 p.m.



Training Snapshot

This year, the GEOINT Symposium offers 56 hours of training and professional development opportunities. Visit the GEOINT 2017 registration desk to purchase training. Each training session is \$25 for USGIF Members and \$30 for non-members.

MONDAY MORNING SESSIONS 7-9am

Hacking for Defense: Solving National Security Problems with Speed and Urgency

BMNT

River Level 006C

This session introduces participants to a new set of tradecraft tools that help GEOINT professionals rapidly test hypotheses and build innovative solutions. The "Hacking for Defense" process facilitates the curation and translation of hard intelligence problems into commercial language, situations, and applications using lean methodologies.

3D Terrain Modeling: Imagery or LiDAR or Both?

Woolpert

River Level 006D

The goal of this training course is to provide a dynamic forum to address current advances in aerial and land-based geospatial sensor technologies and data processing for 3D modeling of the terrain as it relates to the geospatial, defense, and intelligence communities.

Remote Sensing Applications for Natural Disasters: Harnessing the Power of LiDAR, Radar, Imagery, and Machine Learning for Disaster Management

Northeastern University

River Level 007A

This course will teach attendees how LiDAR, radar, and imagery can be used to address areas of the disaster management cycle using real-world scenarios and open-source data.



API Strategy and Design for Geospatial Data and Services

CA Technologies

River Level 007B

In this training session, attendees will look at general aspects of API strategy, design, and management. Participants will examine the challenges geospatial data introduces and how they can be addressed using established design patterns and technologies.

Cyber Attack and Defense War Game with IT, Industrial, and GEOINT Context

SAIC

River Level 007C

In this scenario-oriented and interactive training event, we will immerse participants of varying skillsets, backgrounds, and interests into a realistic cybersecurity attack and defense scenario.

Application of Machine Learning toward Open-Source Intelligence (OSINT) Research, Discovery, and Entity Disambiguation of Foreign Defense Resources and Physical Infrastructure

Diffeo

River Level 007D

The goal of this training session is to teach analysts the benefits of machine learning systems as applied to OSINT research with a focus on GEOINT-relevant examples.

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INNOVATION ACROSS THE SPACE DOMAIN

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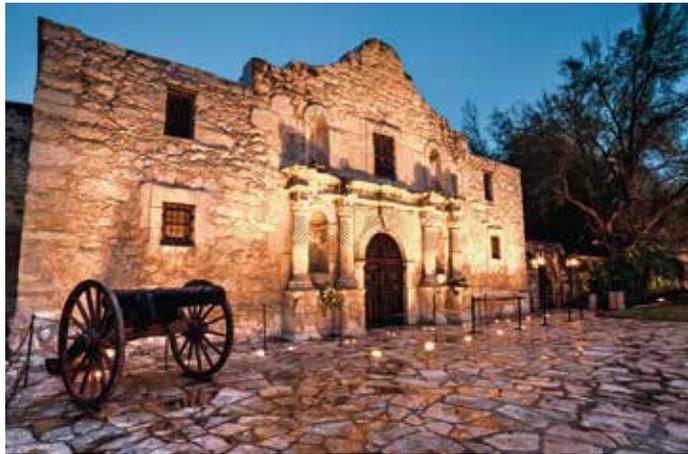
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Exploring San Antonio

WHAT TO EXPERIENCE IN THE ALAMO CITY



RIVER WALK

Take a stroll down the **San Antonio River Walk** for a scenic tour through the heart of the city. For 1.5 continuous miles, the river is lined with cobble streets, fine dining, live music, shopping, and nightlife to satisfy travelers of all personalities. The pathway includes a section known as **The Museum Reach**, which features visual art installations and plant exhibitions and provides direct access to **Pearl Brewery** and the **San Antonio Museum of Art**. Riverboats cruise the length of the River Walk, offering tourists a relaxed, fun way to see the signature attractions.

HISTORIC SITES

For a dose of American history, check out San Antonio's most iconic landmark: **The Alamo**. The 18th century Spanish mission was the site of a famous 1836 battle in the Texas Revolution and has since been preserved as a museum and popular tourist stop. More Spanish missions such as San Jose, San Juan, Espada, and Concepcion are just three miles from downtown in the **San Antonio Missions National Historical Park**, where guests learn about Native American life and Spanish Catholic colonialism. Guided mission tours are free, and adventurous visitors can partake in nature hikes and bike trails.

DINING

Wet your whistle at San Antonio's oldest bar: **The Esquire Tavern**. Opened in 1933, The Esquire boasts some of the best local craft beers in Texas, not to mention a revered bison burger. For the very best of a San Antonio staple, stop by **Ray's Drive Inn** for a famous puffy taco. This Tex-Mex dive is credited with

creation of the first puffy taco and even trademarked the term in 1992. There are many imitators, but none compare to the original. For a more elegant dining experience, make a reservation at **Bella on the River**. Located right along the River Walk, Bella offers seasonal Mediterranean and Southern European dishes in an intimate atmosphere. Live jazz music plays nightly.

SHOPPING

Those hoping to bring home souvenirs need look no further than **La Villita**. The historic arts village sits on the edge of the San Antonio River and, at almost 300 years old, is one of the city's first established neighborhoods. With more than 20 boutiques and art galleries, La Villita is a great place to spend a few free hours. Additionally, San Antonio's hip **Pearl District** is home to some of the city's best restaurants and retailers, as well as a weekend farmer's market.

Spouse/Guest Tours

USGIF is offering discounts on great tours and events for your spouse and/or guests while you attend GEOINT 2017. Registration and payment can be made upon arrival. Look for the sign that says "Spouse/Guest Tour Meet Here."

Monday, June 5

9-10 a.m.: Narrated River Tour - \$10

Tour downtown San Antonio and hear a historic narration of the city on a privately chartered barge. Pick up will be on the River Level at the Convention Center.

10:30 a.m.-2 p.m.:

Central Market Cooking Class - \$98

This is a private, hands-on class in which participants learn new skills while preparing a favorite local dish and then enjoy the results. Meet in Convention Center Main Lobby by the metal sculpture.

Tuesday, June 6

7-9:30 a.m.: San Antonio Breakfast Tour - \$35

Eat like a local! Enjoy "Texas Style" kolaches, Tex-Mex breakfast tacos, and pan dulce. The tour is held outdoors and covers approximately one mile of walking. Meet in Convention Center Main Lobby by the metal sculpture.

10 a.m.- 2 p.m.: Garcia Glass Studio Demonstration & Lunch - \$116

Tour the Garcia Art Glass studio and watch a narrated glass blowing demonstration. Following the studio demonstration, enjoy lunch at Rosario's, a local favorite. Lunch and a gift certificate to use at the studio store are included. Meet in Convention Center Main Lobby by the metal sculpture.

USGIF Appoints New Director of Academic Programs



Dr. Camelia Kantor

USGIF appointed Dr. Camelia Kantor, formerly an associate professor of geography at Claflin University in South Carolina, as its new director of academic programs effective July 3.

Kantor joins USGIF with nine years of experience in college level teaching, course development, and research in addition to four years of K-12 teaching in the U.S. and abroad.

"While it took USGIF some time to fill our director of academic programs position, our patience was rewarded in the hiring of Dr. Camelia Kantor," said USGIF CEO Keith Masback. "Camelia brings a deep academic background in geography combined with substantial passion for learning and discovery, including an absolute buy-in to the unique interdisciplinary approach required to convey GEOINT in an academic setting. We can't wait to have her fully on board and applying her skills and energy to advance the Foundation's academic programs."

At Claflin, Kantor designed, secured funding for, and implemented modern and innovative geography curricula that gained her recognition among the Association of American Geographers, which presented her with the 2017 Dr. Helen Ruth Aspaas SAGE Innovator award.

“I am excited to join the world’s leading organization in furthering the GEOINT tradecraft at a critical moment in which GEOINT is evolving beyond its military roots to gain significant momentum as a multidisciplinary and inter-institutional approach to problem-solving,” Kantor said. “I hope to continue to grow USGIF’s already well-established Collegiate Accreditation program and to ensure future GEOINT professionals are well equipped to not only perform on the job, but also to be well rounded and capable of leading their communities through their high ethics, technical and communication skills, and wisdom.”

Kantor holds a Ph.D. in geography from Babes-Bolyai University in Romania as well as a master’s degree in regional planning with a concentration in border conflicts, a master’s of business administration, and a master’s degree in educational administration.

Experiential Learning

STUDENT ASSISTANTS PARTICIPATE IN WORK-STUDY OPPORTUNITY AT GEOINT 2017

Sixteen students from across the country and internationally will have the opportunity to participate in GEOINT 2017 as part of USGIF’s Student Assistant Program. Students represent Fayetteville State University, James Madison University, Northeastern University, the NOVA Information Management School of the Universidade Nova de Lisboa, Penn State University, University of Redlands, Texas State University, the University of Southern California, the University of Utah, and Virginia Tech.

“The student assistant program is a fantastic opportunity for these hand-selected students to experience GEOINT 2017,” said Justin Franz, USGIF’s volunteer engagement manager. “Through the program, students are able to engage with professionals across the GEOINT Community, helping them develop their skills and career paths.”

In addition to providing onsite support, students will have the chance to tour the exhibit hall, attend receptions, and network with Symposium attendees.

“GEOINT is an area almost unknown in my country, so it was with great joy that I applied and had the opportunity to attend GEOINT 2017,” said Diogo Oliveria de Luz Cardoso, student volunteer and NOVA Information Management School student from Portugal. “I hope to meet with other students who share the same interest in GEOINT as I do, as well as professionals and creative minds, so they can share their personal experiences. At the end of the event, I hope to bring back home new knowledge and a new vision about GEOINT.”

The student assistants—along with 2016 USGIF Scholarship recipients and students from USGIF-accredited universities—will display their student research posters Sunday during GEOINT Foreword in Hall 4A. Attendees may vote for their favorite student poster using the GEOINT 2017 mobile app. The student with the most votes will win complimentary, full Symposium registration to GEOINT 2018 in Tampa, Fla., and a one-year USGIF individual membership. Second and third place winners will also receive a one-year membership.



Student assistants will wear green T-shirts with the phrase “got questions?” throughout the week. If you see a student assistant, say hello and share your experiences and advice about pursuing a career in the GEOINT Community.

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Symposium Returns *continued from cover*



GEOINT 2009 attendees visit the Alamo.

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“We’re committed to constantly updating and improving upon that entire development chain so the GEOINT workforce is knowledgeable, ready, and capable of high-level performance in the dynamic era of the GEOINT Revolution.”

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—KEITH MASBACK, CEO, USGIF

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What does this year’s theme, “Advancing Capabilities to Meet Emerging Threats,” mean to you?

Last year’s theme, “The GEOINT Revolution,” was about the phenomenal expansion of the application of GEOINT across an ever broadening set of sectors and missions. This year’s theme focuses on the proliferation of challenges the United States and our allies face around the globe and how we can take advantage of the ongoing GEOINT Revolution to mitigate and overcome them. Moreover, with the larger opportunity for mission application, emerging threats include natural disasters and acts of terror both domestically and abroad. Also embedded in the theme is the idea of partnership, which references the importance of having a common understanding of the meaning of geospatial intelligence and how we as a nation, along with our allies, will pursue solutions. Here at home, that means partnering with FEMA, the National Guard, and state and local authorities. We’re never going to perform our missions in a vacuum—GEOINT is a team sport by definition.

USGIF officially launched its Universal GEOINT Certification Program at GEOINT 2016. How has the program grown in the past year?

We’re very excited about the growth and interest in our professional certification program. Increasingly in today’s workplaces, there is a demand for professionals to demonstrate competency beyond just an academic background. In fact, we’re seeing the requirement for personnel to be productive on day one emerging as a primary consideration in hiring. Given the rigor of USGIF’s Universal GEOINT Certification Program, soon to be fully validated by third party national accreditation, we stand firmly behind those who earn one or more of our

certifications and guarantee they are competent practitioners in their respective areas of the GEOINT tradecraft.

In addition, we’re particularly excited by the overall continuum of education and training the Foundation has put in place: our nascent K-12 introductions to GEOINT-related concepts and technologies; our 14 accredited college and university GEOINT Certificate programs; our professional certification program; and the ongoing training and professional development opportunities offered at our events. We’re committed to constantly updating and improving upon that entire development chain so the GEOINT workforce is knowledgeable, ready, and capable of high-level performance in the dynamic era of the GEOINT Revolution.

USGIF recently introduced an EdGEOcation Giving Fund with great success. What sort of initiatives does that fund support?

It’s important to recognize the distinction of USGIF in terms of its nonprofit status—unlike most of our peer organizations we are not a trade association, but rather an educational foundation. This distinction is meaningful to us in that we never lose sight of our dedication to education and training. The success of the giving fund tells us the GEOINT Community’s commitment and willingness to invest time and money into the future of the profession remains strong. We are delivering on the original promise of the Foundation that was set forth at its founding in January 2004. Long supported solely by our member organizations, part of the natural evolution of USGIF is that individual members and donors now also support their professional association in the conduct of its mission on behalf of GEOINT practitioners, both current and future.

We’ve focused the proceeds of our first EdGEOcation Giving Fund on kick starting our K-12

engagement. Thanks to the vision and energy of our most junior employees, in collaboration with USGIF’s Young Professionals Group, and with the support of other USGIF Members, our K-12 efforts have grown significantly in the last 18 months and are gaining exciting momentum. Integral to our commitment to STEM education is the value we place on diversity and expanding opportunity. You’ll see this in action in San Antonio, as we’re excited to welcome Girl Scouts and Girls Inc. in addition to Boy Scouts at GEOINT 2017.

The pre-conference GEOINT Foreword agenda continues to grow and increase in popularity. What should Foreword attendees anticipate for this year?

What started as a small sensor tutorial has blossomed into an event that is quite valuable in its own right. Based on attendee feedback, we are always looking for opportunities to improve our delivery of great content packed into a crisp program. I think the GEOINT Foreword highlights this year will be the exposure to university research programs, rapid-fire presentations, and a live-virtual-constructive UAS demo that will be unlike anything we’ve had at the event before.

The two panels on the main stage at GEOINT 2017 are on the National System for Geospatial Intelligence (NSG) and the future of GEOINT, featuring panelists from across the Allied System for Geospatial Intelligence (ASG). Why is this significant?

The not-so-subtle change in approach by our partners at the National Geospatial-Intelligence Agency (NGA) is worth noting. The message this year, which I suspect will be clearly delivered by NGA Director Robert Cardillo in his keynote address, is that NGA recognizes it is just one part of a much larger whole when it comes to the application of GEOINT for national

security. This perspective will be reinforced by NGA's approach to both their presence on the main stage and in the exhibit hall.

There will also be keynotes by two military commanders this year—USTRANSCOM Commander Gen. Darren McDew and USSOUTHCOM Commander Adm. Kurt Tidd. What do you anticipate they will bring to the discussion?

It's very important for USGIF to put operational commanders and leaders on the GEOINT Symposium stage. Generally, we as GEOINT practitioners aren't performing the actual policy-making, decision-making, or mission execution. In the case of Gen. McDew, it's hard to imagine the breadth and depth of information he requires to transport everything our deployed forces need around the globe, around the clock. And it's difficult to

appreciate that without hearing specifically from a commander in his position about what he needs from the GEOINT Community to protect the men, women, and materiel in his command while supplying the global needs of our deployed forces.

In the case of Adm. Tidd, we have a very informed user of geospatial intelligence who is eager to hear about innovative approaches for his command to apply to the unique challenges in its area of responsibility. He has created the challenge at SOUTHCOM for innovators to come and put their technology and services to the test against real-world problems, and that presents a great opportunity for the GEOINT Community.

What are you most looking forward to experiencing in the GEOINT 2017 exhibit hall?

As I reflect back upon the time since we were last in San Antonio,

the biggest single change in terms of the GEOINT Symposium is probably the exhibit hall. The GEOINT Symposium has become the place to discover and understand emerging technologies in our field. And by the nature of the growth in the application of geospatial intelligence, those solutions have become increasingly diverse. Everything from machine learning and artificial intelligence to cyber and advanced phenomenologies will be on display. Every GEOINT professional has an absolute responsibility to remain informed about these latest advances or they're doing a disservice to themselves and those whom they serve. It's never been harder to keep up. Our symposium's exhibit hall remains the single most efficient and effective way to understand cutting-edge GEOINT technology and services as well as their mission implications. 🌐

Want to make the most out of this year's expo? Visit geoint2017.com/expo/floor-plan to map out your GEOINT 2017 exhibit hall experience!

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Tech Authors Present: The Future

SHEL ISRAEL AND ROBERT SCOBLE TO RETURN TO GEOINT SYMPOSIUM STAGE

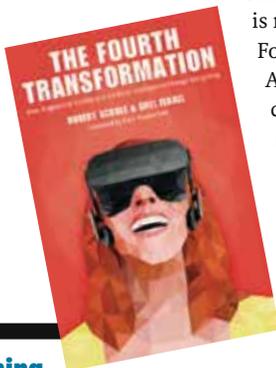
By Andrew Foerch



“[Attendees will] get a real idea of how deeply our world is going to change in the next 36 months. We’re going to lay that out to start a discussion with the industry.”

—ROBERT SCOBLE, AUTHOR AND FUTURIST

At GEOINT 2017, authors Shel Israel and Robert Scoble will give a joint keynote address discussing how AI and augmented reality will shape the near future.



Book Signing

At 12:30 p.m. following their keynote, Israel and Scoble will sign and distribute 500 free copies of “The Fourth Transformation” on a first-come, first-serve basis at the Symposium info counter. The book will also be available for purchase at USGIF Booth 1647 in the GEOINT 2017 exhibit hall.

Tech writers Shel Israel and Robert Scoble have a message for the GEOINT 2017 audience: the future is arriving quicker than most organizations realize and the time to adapt is now. Their latest book, “The Fourth Transformation: How Augmented Reality & Artificial Intelligence Will Change Everything,” explains how the exponential rise of AR and AI will transform education, retail, health care, and nearly every other sector in just the next three years.

“The relationship between humans, tech, and work will change,” Israel said. “[AR] will change culture. It will change intelligence gathering. It will change everything. Whether it should or not is not what we wrote about—it will. This is happening.”

At GEOINT 2013* in Tampa, Fla., Israel and Scoble took the

stage to present concepts from their 2013 book, “Age of Context: Mobile, Sensors, Data, and the Future of Privacy,” about the impending rise of mobile and touch technologies. Four years later, their analysis has proven prescient. Online business and smartphones in the workplace are today’s norm, as are the muddied waters of personal privacy that came with the emergence of big data surveillance.

As the first passenger in the first Tesla vehicle and the man who self-reportedly told the world about Pandora and Flipboard, Scoble is well versed on the technology of the future. Israel is his partner in crime—together, they’ve penned four books and just recently announced the creation of their new company, Transformation Group.

Now, the author duo will return to the GEOINT Symposium in San Antonio to share insights on what they believe are

today’s most urgent technological advances. In a joint keynote presentation at 11 a.m. Tuesday, June 6, they’ll speak about essential patterns and observations gleaned from more than two years of research and world travel in which they interviewed more than 400 AR and AI experts.

“[We’re] showing off what’s coming in the future,” Scoble said. “The book is just the entry point to this new world.”

In their keynote, they will discuss how forward-thinking companies including Facebook, Sephora, and Google Glass apply AR and AI technologies around the world to improve utility and in turn are revolutionizing modern life.

“[Attendees will] get a real idea of how deeply our world is going to change in the next 36 months,” Scoble said. “We’re going to lay that out to start a discussion with the industry.”

K-8 Students to Experience EdGEOcation at GEOINT 2017

USGIF TO HOST SAN ANTONIO AREA GIRL SCOUTS, GIRLS INC., AND BOY SCOUTS

By Lindsay Tilton Mitchell

K-8 students from the San Antonio area will have the opportunity to participate in various activities during GEOINT 2017. Not only will the students learn about GEOINT but also experience it firsthand by performing basic intelligence and analysis skills.

“GEOINT education for K-12 students is very important to the Foundation,” said USGIF COO Aimee McGranahan. “We are very excited to host these groups of young students to hear from senior leaders in the Intelligence Community and make them aware of GEOINT and the many career possibilities in the field.”

More than 30 girls from the Girl Scouts of Southwest Texas chapter will visit the Symposium June 5 to earn their STEM merit badges. On June 6, 15 girls from the Eureka! STEM program of Girls Inc. San Antonio will also attend.

The girls’ groups will take part in interactive activities on the National Geographic Giant Traveling Map of North America as well as attend a live UAS demonstration, technology demos, and presentations from female government and industry leaders, including:

- **Dawn Eilenberger**, deputy director of national intelligence
- **Karyn Hayes-Ryan**, component acquisition executive, National Geospatial-Intelligence Agency (NGA)
- **Dr. Suzette Kimball**, director, Civil Applications Committee
- **Letitia Long**, former director, NGA
- **Carmen Medina**, founder, MedinAnalytics; co-founder, RebelsatWork.com
- **Patty Mims**, deputy director, Federal Government, Esri
- **Christy Monaco**, director, Corporate Assessment Program Evaluation, NGA

USGIF’s K-8 educational program is generously funded and sponsored by AECOM, AGI, BAE Systems, DigitalGlobe, and Raytheon.

Girls Inc. attendees will also experience an exclusive GlobalXplorer Workshop, sponsored by DigitalGlobe, GlobalXplorer, and USGIF. GlobalXplorer is a citizen science and archeology platform that enlists volunteers around the world to discover sites unknown to modern archaeologists. The result of Dr. Sarah Parcak’s 2016 TED Prize, GlobalXplorer is a customized crowdsourcing platform produced by DigitalGlobe.



Orlando, Fla., area students visit a National Geographic Giant Traveling Map at GEOINT 2016.

Girls Inc. will learn how space technology and on-the-ground efforts come together through GlobalXplorer while using the platform.

“GlobalXplorer gives kids an interactive way to learn about how satellite imagery can be used to see a better world,” said Nancy Coleman, DigitalGlobe’s vice president of corporate communications. “We’re advocating for children, especially girls, to be exposed to real-life STEM applications early in their education, in hopes of inspiring them to follow a career path that will

lead to the next great scientific discovery.”

In addition to activities geared toward girls, 30 middle school Boy Scouts from the Boy Scouts of America Alamo Area Council will participate in a geocaching activity with members of USGIF’s Young Professionals Group June 7. YPG members will accompany the scouts on a geocaching activity throughout downtown San Antonio, where they will navigate various historic landmarks. After completing the activity, each scout will earn a geocaching merit badge. 📍

CONTRIBUTE TO THE EDGEOCATION GIVING FUND

USGIF’s K-12 initiative is made possible through the EdGEOcation Giving Fund, a donation campaign the Foundation launched last fall to increase funding for its educational programs. In addition to providing STEM materials to K-12 classrooms, the giving fund also helps subsidize the USGIF Scholarship Program and Collegiate Accreditation Program.

USGIF would like to thank all Organizational and Individual Foundation members who have contributed to the fund to help bolster the academic GEOINT pipeline for students from Kindergarten through the Ph.D. level. Recently, USGIF Member LGS Innovations donated \$7,500 to the EdGEOcation Giving Fund—the largest single contribution to date.

These and future efforts would not be possible without the generosity of the GEOINT Community.

There are many ways to donate to the giving fund. To donate \$5 while at GEOINT 2017, text GEOINT to 27722. You may also donate via credit card, check, and/or cash at USGIF Booth 1647 or visit usgif.org/education/donate.

Looking Foreword

THIS YEAR'S GEOINT FOREWORD PRE-SYMPOSIUM EVENT FOCUSES ON THE FUTURE

By Andrew Conner

Attendees look on at GEOINT Foreword 2016 in Orlando, Fla.



This year at GEOINT Foreword—USGIF's pre-Symposium science and technology forum held June 4—attendees will take part in discussions and listen to presentations that span the GEOINT spectrum, from tradecraft to data analytics to geographic information systems, with a focus on the future of the industry.

"Decision-makers, technologists, educators, students, analysts, business developers, and policy-makers will all find something of interest in the incredible tapestry woven from the fabric of conversations started by business, government, and academia," said Dr. Darryl Murdock, USGIF's vice president of professional development.

The morning GEOINT Foreword presentations highlight

government speakers with expertise in applied research and development. This includes keynotes from Dr. Peter Highnam, director of research at the National Geospatial-Intelligence Agency (NGA), and Dr. Stacey Dixon, deputy director at the Intelligence Advanced Research Projects Activity (IARPA). In addition, the morning will feature two panel discussions on applied research at DoD-sponsored university-affiliated research centers. These panels will include representatives from Georgia Tech Research Institute, Penn State's Applied Research Lab, the Utah State University Space Dynamics Lab, and the Johns Hopkins University Applied Physics Lab.

During the lunch break, researchers from Sinclair Community College's National UAS Training and Certification Center in Dayton, Ohio, will present a live, virtual, constructive demo of the center's unmanned aerial system (UAS) capabilities.

In the afternoon, presentations and discussions will cover the future of overhead imaging, with emphasis on where GEOINT analysts and decision-makers see the industry moving in the near future. This will include a talk from Dustin Gard-Weiss, director of NGA's GEOINT Enterprise Office, who will discuss commercial GEOINT integration and unveil the agency's new Commercial GEOINT Activity.

This will be followed by USGIF's take on TED-style talks—what Murdock referred to as "GED Talks," or GEOINT Engineering and Design Talks. This will take the form of three sessions with three speakers each. Speakers will have 12 minutes to give a free-form talk covering that session's theme: perspectives from air, perspectives from space,

ATTEND A LIVE, VIRTUAL, CONSTRUCTIVE UAS DEMO

Sinclair Community College in Dayton, Ohio, invested heavily in unmanned aerial systems (UAS) early on. In 2008, the college was part of an economic trade mission to Israel. After realizing UAS research aligned with its other academic priorities the school went "all-in" on the technology, said Dr. Andrew Shepherd, UAS program director at Sinclair.

Since 2008, the college has created an associate's degree program in UAS and completed construction on an indoor Flight Range as well as a Flying Pavilion. It is also home to the National UAS Training and Certification Center. Recently, the program began giving live, virtual, constructive (LVC) demos on some of its capabilities, including collecting data to help first responders and providing beyond-visual-line-of-sight (BVLOS) information.

During the lunch break, GEOINT Foreword attendees will have the opportunity to view one of these LVC demos, in which Shepherd and Dr. Ronald Storm, professor of unmanned systems at Sinclair, will show a combination of live flights being controlled by real people (weather permitting), real operators working in a simulator lab, and

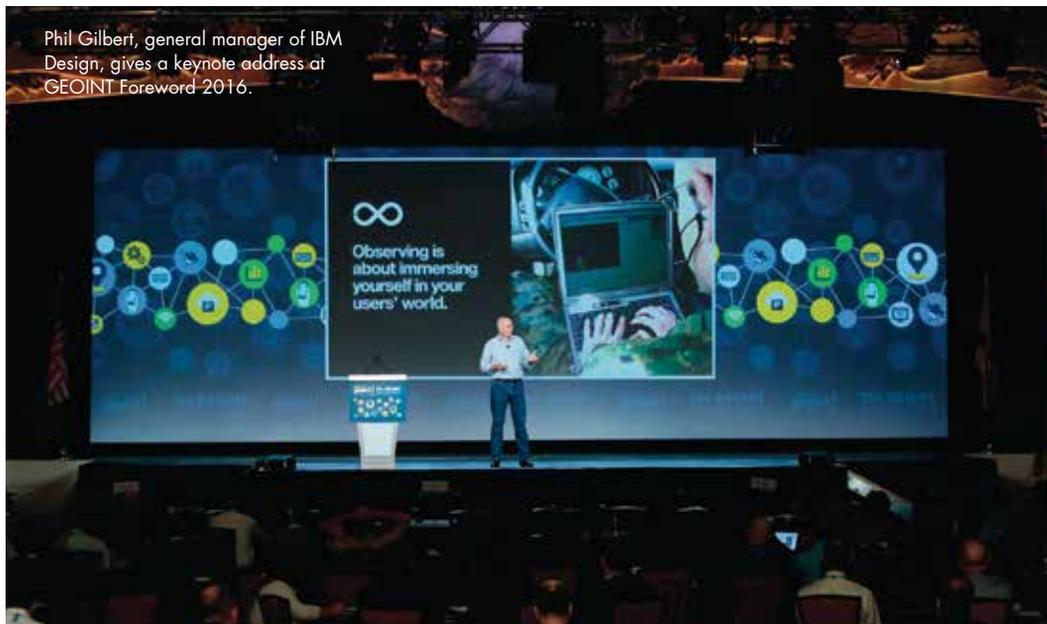
constructive components, which are computer-generated parts of the scenario that aren't directly controlled by people. All of this will be displayed through Sinclair's mobile ground control station.

"The exciting thing about it is, when you're flying a UAS, there are many challenges," Storm said. "And nobody has really flown UAS with manned aircraft together unless you're military, and to demonstrate and test [this concept], there is risk involved. The LVC environment allows us to develop for situations where you're operating manned and unmanned aircrafts, and what we've done is taken this capability and made it routine."

During the demo, GEOINT Foreword attendees can expect to see a combination of the first responder and BVLOS capabilities. An airport infrastructure inspection, an inspection of a runway for damage, and a mapping operation of a farm are all planned as part of the demo.

Throughout the rest of the week, Shepherd and Storm will be in the GEOINT 2017 exhibit hall hosting indoor UAS flights as well as tours of the mobile command vehicle used in Sunday's LVC demo.

Phil Gilbert, general manager of IBM Design, gives a keynote address at GEOINT Foreword 2016.



or analysis-as-a-service/non-traditional GEOINT.

“Our future focus is exciting,” Murdock said. “We are now talking openly about how to find, educate, and train the next generation of GEOINT analysts. Technology is great, but strong organizations have realized that they need to first ask: ‘How does that technology help our analysts and decision-makers now and into the future?’”

Throughout the day, attendees will be able to provide feedback on topics via a survey available in the GEOINT 2017 app, the results of which will be shared prior to the final panel. The day’s final panel will focus on the changing analytic landscape, and will

encourage attendees to provide insight into how they see collection and analysis changing in the near future.

After a full day of learning about and discussing the future of

the tradecraft, GEOINT Foreword attendees are invited to relax and network at the GEOINT 2017 Welcome Celebration, which begins at 7 p.m. on the South Bank of the San Antonio River Walk. 🌐

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Seeking Innovation

SOUTHCOM'S ADM. TIDD WELCOMES TECHNOLOGY PARTNERSHIP WITH "TRY IT HERE FIRST" APPROACH

By Jim Hodges



IMAGE COURTESY OF U.S. NAVY/SEAMAN DANIEL C. COWWEST

Adm. Kurt W. Tidd, Commander, U.S. Southern Command, departs the USS Iwo Jima during a mission to provide disaster relief and humanitarian aid to Haiti following Hurricane Matthew.

U.S. Southern Command (SOUTHCOM) is extending this invitation to technology developers: "Try it here first." And developers are responding.

With its vast area of operations and missions that continuously expand and shift, SOUTHCOM is positioning itself as an ideal innovation partner. For example, the combatant command is collaborating with the National Geospatial-Intelligence Agency and commercial satellite providers on pilot studies concerning leveraging imagery and data collection. The command is also

considering World View Enterprise's Stratollite flight vehicle as a potential long-duration solution to fill gaps in imagery collection.

The quest for technology as a force-multiplier is one of the reasons Adm. Kurt W. Tidd, SOUTHCOM's commander, looks forward to delivering a GEOINT 2017 keynote address Wednesday at 10 a.m. Tidd plans to tour the Symposium exhibit hall as well.

"Experts from the geospatial intelligence community are where ideas like those often come from," Tidd said via email, referring to both ongoing and future technology development at SOUTHCOM, which is headquartered in southern Florida. "I am eager to hear from them, to see the exhibits, and to learn more about the kinds of cutting-edge capabilities we may be able to consider experimenting with in the future."

San Antonio is home to the U.S. Sixth Army, one of SOUTHCOM's component units. SOUTHCOM has long been considered at the leading edge of the war against narcotics trafficking, but that mission is too limiting in the face of ongoing worldwide terror threats. Geospatial intelligence helps SOUTHCOM and its interagency and regional security partners meet the challenge of monitoring one-sixth of Earth's mass, an area that includes 31 countries as well as 16 dependencies and places of special sovereignty.

"This is a region where security threats range from extremist groups leveraging cyber to market their 'brand' of violence, to illegal mining and narcotics trafficking, to life-threatening natural disasters," Tidd wrote. "So, we're combining commercially available imagery with online tools and publicly available data. This combination gives us insights

into the security environment, such as how threat networks are connected or the conditions on the ground after a disaster."

Disaster relief is a growing part of SOUTHCOM's mission. Operations in the wake of natural disasters such as fall 2016's Hurricane Matthew point to the value of GEOINT.

During Hurricane Matthew, which touched a corner of Haiti, SOUTHCOM used publicly available images to establish base maps and then overlaid the maps with geo-tagged images of problem areas such as washed-out bridges. The information allowed Army and Marine Corps helicopters from Honduras to ferry disaster relief from Port-au-Prince storehouses to the hardest-hit areas the day after the hurricane passed.

"We were able to move much more quickly than if we waited on getting the helicopters there, sending the helicopters out on traditional road reconnaissance flights ... then coming back to figure out execution," Tidd said at a Pentagon news conference April 7.

In his GEOINT 2017 keynote, Tidd said he plans to share "some of the ways we're embracing operational innovation and partnering with experts from the geospatial intelligence community to better understand threats and challenges in the region and increase the success of our operations against them."

He will also discuss opportunities for industry.

"SOUTHCOM is the ideal innovation partner," he said. "Our area of responsibility is close to the U.S. and has varied terrain and diverse operational environments. We also have willing and capable partners in the region who support innovation and are experienced at countering adaptive adversaries." 🌐

"Experts from the geospatial intelligence community are where ideas like those often come from."

—ADM. KURT W. TIDD, COMMANDER, U.S. SOUTHERN COMMAND

MONDAY, JUNE 5

NAWG/NAIAWG Joint Session

Business Model Evolution to Meeting Emerging Mission Needs

1:00-2:00 p.m.
River Level 006A/B

Small Sats Working Group

Enabling the Next Generation of Satellites: Policy and Programmatic Considerations

2:30-3:30 p.m.
River Level 006A/B

TUESDAY, JUNE 6

Modeling and Simulation Working Group

Modeling and Simulation Working Group Meeting

8:00-9:00 a.m.
River Level 006A/B

Small Business Advisory Working Group

Creative Contracting Techniques for Meeting Small Business Goals

2:30-3:30 p.m.
River Level 006A/B

Geospatial and Remote Sensing Law Working Group

Maximizing Effective Use of GEOINT Data and Small Sat Collection-Navigating Privacy and Data Protection Regulatory Issues

1:00-2:00 p.m.
River Level 006A/B

Machine Learning and Artificial Intelligence Working Group

The State of Machine Learning and Artificial Intelligence in GEOINT

4:00-5:00 p.m.
River Level 006A/B

WEDNESDAY, JUNE 7

Young Professionals Working Group and Tradecraft & Professional Development Committee

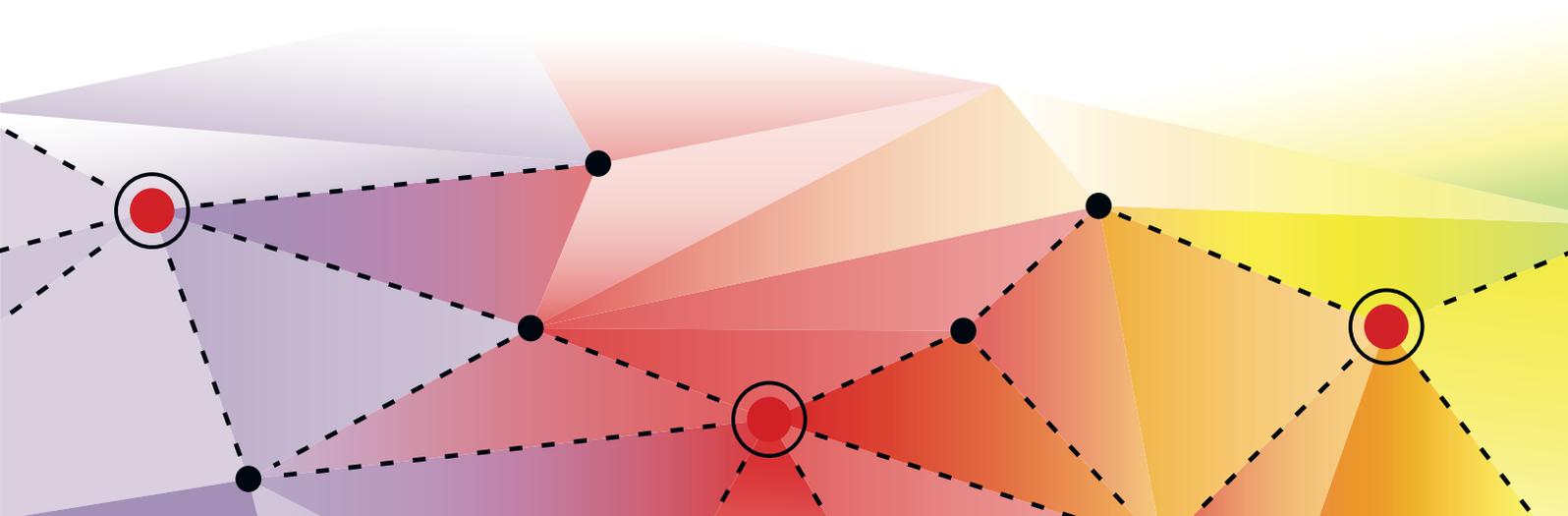
USGIF New Mentoring Program Overview

8:00-9:00 a.m.
River Level 006A/B

USGIF Analytic Modernization Working Group

The Future of Analysis: a Visioning Session

1:00-2:00 p.m.
River Level 006A/B





8:00a–5:30p GEOINT FOREWORD PRE-SYMPOSIUM SCIENCE & TECHNOLOGY FORUM (HALL 4A)

8:30-8:35a

GEOINT Foreword Welcome – Dr. Darryl Murdock, Vice President of Professional Development, USGIF

8:35-8:45a

Master of Ceremonies – Chris Powell, CTO, NT Concepts, and Co-Chair, USGIF Emerging Technologies Subcommittee

8:45-9:15a

Dr. Peter Highnam, Director, Research, NGA

9:15-10:00a

Applied Research: DoD-sponsored University Affiliated Research Centers

- Allan Sonstebly, Deputy Executive Director, Pennsylvania State University, Applied Research Lab
- Bryant Springer, Senior Research Scientist, Chief, Army Strategic Programs, Georgia Tech Research Institute

10:00-10:30a

Morning Coffee & Networking Break, Poster Gallery

10:30-11:00a

Dr. Stacey Dixon, Deputy Director, IARPA

11:00-11:45a

Applied Research: DoD-sponsored University Affiliated Research Centers

- Jennifer Sample, Ph.D., Program Manager, Advanced Science and Technology Development, Johns Hopkins University Applied Physics Laboratory
- Darin Partridge, C4ISR Systems Division Director at Space Dynamics Laboratory, Utah State University Space Dynamics Lab

11:45a-1:15p LUNCH BREAK AND LVC DEMO

12:15-1:15p

Live, Virtual & Constructive UAS Demo with Sinclair Community College National UAS Training and Certification Center

1:15-1:20p

Afternoon Welcome, Master of Ceremonies, Dr. Chris Tucker, Principal, Yale House Ventures

1:20-1:35p

A Holistic Vision for Integrated Analysis – Dr. Michael Hauck, Geospatial Consultant

1:35-1:55p

Commercial GEOINT Integration – Dustin Gard-Weiss, Director, GEOINT Enterprise Office, NGA, and CDR Brian Rower, NGA

1:55-2:40p

“TED-like” Perspectives from the Air: Aircraft, Dirigibles, and UAS

- Dr. Andrew Shepherd, Director, Unmanned Aerial Systems, Sinclair Community College
- Mark Romano, Senior Product Manager, Harris Corp. Geospatial Solutions
- Eric Truitt, Chief, Space & Intelligence Programs, Georgia Tech Research Institute

2:40-3:25p

“TED-like” Perspectives on Analysis-as-a-Service/Non-Traditional GEOINT

- Dr. Steven Brumby, Co-Founder & Chief Science Advisor, Descartes Labs
- David J. Gauthier, Director, Office of Strategic Operations, NGA
- Matthew Chwastek, Director, Product Management, Public Sector Orbital Insight

3:25-3:45p

Networking Break

3:45-4:30p

“TED-like” Perspectives from Space (Big-Sat, Small-Sat, and Clustered)

- Scott Herman, VP, Platform Development, Black Sky/Spaceflight Industries
- Robbie Schingler, Co-founder and Chief Strategy Officer, Planet
- Abe Usher, CTO, DigitalGlobe Radiant

4:30-4:35p

Audience Survey Results

4:35-5:30p

Panel Discussion – What we learned about the changing analytical landscape.

- Moderator: Dr. Christopher Tucker, Principal, Yale House Ventures
- Patrick Biltgen, Technical Director, Analytics, Vencore
- Sue Kalweit, Director of Analysis, NGA
- Adam Maher, Co-Founder & President, Ursa Space Systems
- Dr. Cordula Robinson, Associate Teaching Professor, Northeastern University, MPS Geospatial Services
- Dr. Amanda K. Ziemann, Agnew National Security Postdoctoral Fellow, Los Alamos National Laboratory

7:00-9:00P GEOINT 2017 OPENING RECEPTION AT SOUTH BANK ON THE RIVER WALK

» MONDAY, JUNE 5 AT-A-GLANCE

EXHIBIT HALL OPEN 10:00-5:00P

7:00-9:00a	PROFESSIONAL DEVELOPMENT TRAINING & EDUCATION SESSIONS (River Level 006C-007D)
9:00-9:45a	GEOINT 2017 OPENING CEREMONIES — NATIONAL ANTHEM PRESENTATION OF COLORS, AND WELCOME FROM JEFFREY K. HARRIS, USGIF CHAIRMAN OF THE BOARD (Hall 4A)
9:45-10:30a	KEYNOTE: ROBERT CARDILLO, DIRECTOR, NGA
10:00a-5:00p	EXHIBIT HALL OPEN (Halls 2-3)
10:30-11:00a	MORNING COFFEE AND NETWORKING BREAK
11:00-11:15a	WELCOME: CONGRESSMAN JOAQUIN CASTRO, 20TH DISTRICT OF TEXAS, MEMBER OF THE U.S. HOUSE PERMANENT SELECT COMMITTEE ON INTELLIGENCE
11:15a-12:30p	PANEL: THE FUTURE OF GEOINT
12:30-2:00p	LUNCH IN THE EXHIBIT HALL
1:00-2:00p	MEETING – USGIF NAWG/NAIAWG JOINT SESSION (River Level 006A/B)
1:15-4:00p	GOVERNMENT PAVILION STAGE (Hall 2, Booth 138)
2:00-4:00p	PROFESSIONAL DEVELOPMENT TRAINING & EDUCATION SESSIONS (River Level 006C-007D)
2:30-3:30p	MEETING – USGIF SMALL SATS WORKING GROUP (River Level 006A/B)
4:00-5:00p	EXHIBIT HALL NETWORKING RECEPTION

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