

United States Geospatial Intelligence Foundation  
**geoint 2010 symposium**  
 November 1 - 4, 2010 • New Orleans, Louisiana

# SHOWDAILY1

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Produced by Geospatial Intelligence Forum

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## GEOINT Offers Unique Value

With an agenda packed with intelligence leaders and an Exhibit Hall filled with the latest technology, 2010 Symposium is ideally suited for its times.

With record-setting numbers of registered attendees and exhibitors, the GEOINT 2010 Symposium is already well along the way to unprecedented success for the six-year-old annual event.

A key reason for that strong showing, says U.S. Geospatial Intelligence Foundation (USGIF) President Keith Masback, is that the breadth and depth of the four-day event are ideally suited to a time of tight budgets and an accelerating drive for increased efficiency within the defense and intelligence communities.

Offering an agenda filled with key leaders in the intelligence community, and an Exhibit Hall featuring 225 companies, government agencies and academic institutions, the GEOINT 2010 Symposium represents an extremely cost-effective way to connect with the people, programs and ideas on the cutting edge of geospatial intelligence.

"It's a very strong agenda, with almost every key senior leader in the intelligence community, and every service represented at the flag or SES level, either in a keynote or on a panel. That alone to me is worth traveling anywhere to see. There is no other place that puts all those people together at one time," Masback said.

"Secondly, there is the Exhibit Hall, where we have 225 exhibitors this year, up from 174 last year. That says to me that we are doing

something valuable for the community," he continued. "At a time when the secretary of defense and director of national intelligence are talking about being more efficient, this is an incredibly effective use of travel dollars, to see so many vendors offering hardware, software and services. So if you were only coming for that part, it would be a good return on your investment of time and money."

The third factor behind the Symposium's achievements, Masback adds, is the attendees themselves. "We expect once again to break our attendance record. In a down economy and a time when companies and government organizations are having to make hard decisions about where they apply their resources, people are coming in record numbers.

"That's a statement about the inherent value of what we offer, and about the value of personal connections and the value of building this community. When I look at the three pieces that we've assembled, that's what makes the GEOINT Symposium unique and of significant value to the defense, intelligence and homeland security communities," he said.

The event gets underway this morning and afternoon with pre-Symposium tracks focused on education and innovative technology at the Ernest N. Morial Convention Center, followed

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## Feature Extraction Advances

Software uses techniques from statistical machine learning theory and evolutionary computation theory.

Observera has released a new version of its Genie Pro advanced automatic feature extraction software, which uses techniques from statistical machine learning theory and evolutionary computation theory to perform robust and customized AFE in most imagery formats.

Simple training with a paint brush or polygon tool quickly identifies multiple classes within a small part of the imagery. Genie Pro builds algorithms from basic image processing building blocks, such as color detectors, edge detectors, texture analyzers, and shape filters. Genie Pro begins its programming by building a few algorithms and testing them against "painted" pixels. If an algorithm does not work well, it is eliminated. Surviving algorithms are then modified to create new ones. Genie Pro loops through this process hundreds or thousands of times in a matter of minutes, keeping users informed of its

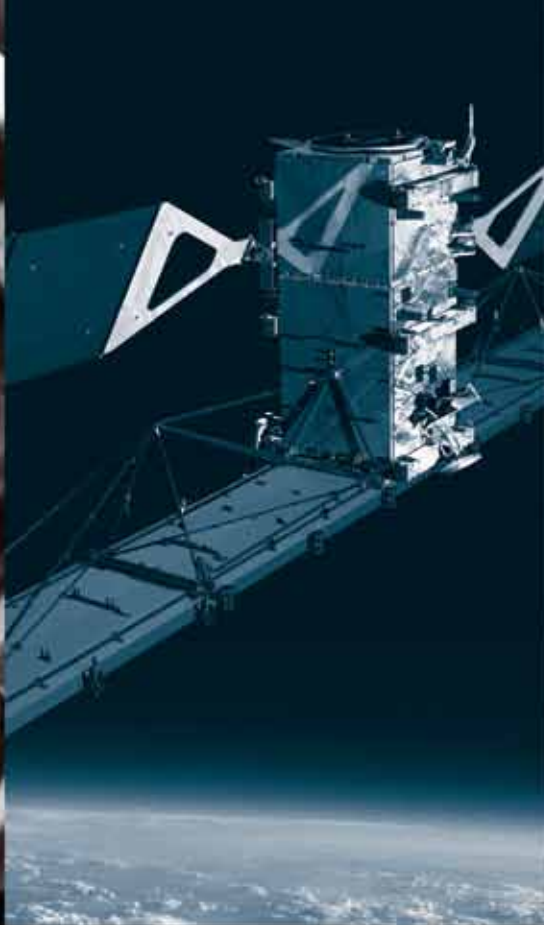
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# Community/Education Connection

Academic exhibitors at the GEOINT 2010 Symposium seek both students and closer links to government and industry.

BY HARRISON DONNELLY

Even as the geospatial technology of tomorrow is prominently on display at the GEOINT 2010 Symposium, another key aspect of the GEOINT of the future is also well represented in the Exhibit Hall—the colleges and universities that are playing a vital role in educating the next generation of GEOINT professionals.

A total of 10 higher education institutions are slated to exhibit at the Symposium: the Center for Geospatial Intelligence (CGI), University of Missouri; George Mason University (GMU), Center for Geospatial Intelligence, College of Science; James Madison University, Geographic Science Program; Northern Virginia Community College (NVCC); Penn State University, World Campus; University of Denver; University of Redlands, Master of Science in Geographic Information Systems Program; University of Mary Washington, Geographic Information Science Program, Geography Department; Virginia Tech's Center for Geospatial Information Technology (CGIT); and Washington College.

The strong higher education presence in New Orleans is the product of both the booming interest in geospatial education among schools and students, analysts say, as well as the pressing needs of government and industry for well-prepared GEOINT professionals. It also reflects the vigorous support of the U.S. Geospatial Intelligence Foundation, which among other efforts has established the University Geospatial Intelligence Certificate program.

The exhibiting schools will be highlighting a wide range of geospatial programs, covering the gamut of K-12, undergraduate, certificate and graduate education. Examples of the innovative initiatives on display include:

- CGI will provide live demonstrations of its enterprise change detection and exploitation system, GeoCDX, which was developed with funding for the National Geospatial-Intelligence Agency, the Army and the Defense Intelligence Agency.
- Washington College will demonstrate its

new ArcGIS Server Silverlight enterprise application, which is used to host the state of Maryland's adult parole and probation records to aid in crime analysis.

- NVCC will focus on illustrating the breadth and depth of geospatial education available at the nation's community colleges, with students explaining their geospatial projects.
- GMU, which graduated the first students from its USGIF certificate program this fall, will showcase its new Master of Science in geoinformatics and geospatial intelligence program.
- Penn State will provide information on two online programs for geospatial intelligence professionals: a graduate certificate in geospatial intelligence and a master of professional studies in homeland security with a geospatial intelligence option.
- In addition to its geographic sciences program, James Madison University will be highlighting its information analysis program, which was designed specifically for students who seek a career as an intelligence analyst, either in the U.S. government or the private sector.

While their offerings may be different in kind from most of the products and services being showcased in the exhibit hall, academic participants also say the annual GEOINT Symposia are "must attend" events offering unparalleled opportunities not only to reach out to prospective customers and partners, but also to network and share ideas with the leaders of the field.

The Penn State program, for example, has exhibited since 2007 and reports great results from past years. "The biggest benefit we've seen is that Penn State is now recognized by the geospatial intelligence community as one

of the go-to providers of education for geospatial professionals. This has helped build brand awareness for Penn State's online GEOINT programs," said marketing associate Erin Douglas Colley.

GMU, meanwhile, emphasizes its longstanding ties to the USGIF, including being the first school to participate in the foundation's certification program. "Exhibiting at the GEOINT Symposium is a natural choice for us, as it allows us to address the broader community of interest, and make them more aware of our offerings," added Dr. Anthony Stefanidis, an associate professor at the university and director of its geospatial center. "Participating also allows us to monitor advances in our field—a vital issue for ensuring that we continue offering world-class education in this domain."

Although some of the schools are first-time exhibitors, returning exhibitors voice satisfaction with the results of past conferences, including both reaching out to mid-career attendees interested in advanced degrees and building relationships with government and industry executives. "We exhibited last year and made several valuable contacts that have helped us

in our mission to support youth geospatial technology training," said Stewart Bruce, GIS program coordinator at Washington College, who noted that pre-Symposium tracks this year include a session on K-16 education.

Curt Davis of CGI, the first academic organization to exhibit at a GEOINT Symposium (2004), also cited interactions with government and industry leaders. "Every year we come away with new industry partnership opportunities to explore, while at the same time raising the visibility and awareness of the CGI and our R&D capabilities with potential government sponsors."

***"Exhibiting at the GEOINT Symposium is a natural choice for us, as it allows us to address the broader community"***

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With making connections with government and industry one of their key goals at the GEOINT Symposium, educators have some interesting insights to offer into their current relationships with the GEOINT community, and how to improve them. "In a word, this relationship is 'developing,'" said Dr. Michael Krimmer, program head, geospatial studies at NVCC. "There is ample room for innovation in proposing, examining and fostering these relationships to develop a 'geospatial education pipeline.'"

"The relationship is good but could be closer," observed Dr. Todd Bacastow, professor of practice for geospatial intelligence and lead faculty member for the online Graduate Certificate in Geospatial Intelligence at Penn State. "My greatest challenge is keeping abreast of the trajectory of the geospatial intelligence community and its educational needs. We have traditionally based our program on published NGA needs,

but having the appropriate clearance is key to understanding where the intelligence community and business organizations are going with geospatial in the future."

To strengthen those links, Bacastow identified three areas of action for government and industry: create internship opportunities for particularly talented students; develop faculty exchanges where academics could work at companies and agencies for brief periods of time; and clearly define the roles of government colleges, such as NGA College, and academic institutions.

Another step would be for GEOINT organizations to encourage employees to volunteer in K-12 classrooms, where they can promote youth geospatial technology education and help teachers increase their professional skills, suggested Bruce. He also praised financial support from companies such as SAIC, which

has sponsored disadvantaged students to attend Washington College's geospatial summer camp.

Stefanidis gives particular credit to the USGIF for its role in improving academic/GEOINT community ties. "In the past there was a notable gap between academia and government/industry: Students were graduating with their degrees and general knowledge, and they would then be trained on the job to become GEOINT analysts. The foundation, through its guidelines for accreditation and numerous functions that bring together academia, industry and government, has allowed us to get a better understanding of the knowledge and skills that are essential for a GEOINT analyst. Thus it has provided us with unique insight and the resulting opportunity to customize existing courses and programs, or develop novel educational offerings to better meet these needs."

## Intelligence Acquisition

In acquiring TechniGraphics, CACI adds an essential geospatial element to its core competencies in serving the intelligence community.

In a major move to strengthen its capabilities in geospatial intelligence, defense and intelligence contractor **CACI** has signed an agreement to acquire TechniGraphics, a leading provider of imagery and geospatial services, including digital maps, to the U.S. intelligence community. TechniGraphics' products form the basis for intelligence analysis, military operational planning, disaster relief planning, and operations and other mapping requirements.

TechniGraphics is a 450-person company headquartered in Wooster, Ohio, with additional locations in Fort Collins, Colo., and Madrid, Spain. The company, which provides mission-essential geospatial data, services and solutions, has distinguished itself on long-term contracts through dynamic management, quality production, and introduction of intellectual property to enhance IT solutions.

*Acquisition of TechniGraphics furthers CACI's strategy to grow and invest in capabilities that serve the intelligence market.*

Approximately 85 percent of TechniGraphics employees possess security clearances, and the company's principal customers are the U.S. intelligence community, Department of Defense, Department of Homeland Security, and allied governments. TechniGraphics' revenue in calendar year 2010 is expected to be \$46 million.

Acquisition of TechniGraphics furthers CACI's strategy to grow and invest in capabilities that serve the intelligence market. Key elements of this strategy are to diversify CACI's work and offerings within the intelligence community, focus on core intelligence mission areas with particular emphasis on those that are enduring, and develop capabilities in market segments adjacent to those where CACI has a presence. TechniGraphics increases CACI's already strong presence in this arena and adds an essential geospatial element to its core competencies.

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progress by telling them how well it did on their examples.

When the process is completed, users can view, manipulate and save the resulting algorithm and use it to analyze other images. They can also adjust the results or convert them to vectors and export them to a GIS program, and also can perform image search, image classification and image object detection. No programming skills are required.

Version 2.3 has many new features, including enhanced performance on large images and the ability to run batch training or batch solutions on large sets of images. Additional image processing operators have provided performance improvement and additional flexibility in generating solutions. A new accuracy metric was introduced for more balanced solutions across classes along with new Grammar Files, the guiding factor in how Genie Pro builds image processing chains to create attributes.

The new visualization tool allows the analyst to view each step of the solution as a set of ordered graphs, where an "attribute image" can be generated and displayed for each node of the graph.

# Delivering high performance to the intelligence community.

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by another of USGIF's crowd-pleasing networking events, the "Taste of New Orleans Welcome Reception at Generations Hall with Chef Paul Prudhomme," beginning at 7:00 p.m.

The strength and popularity of this year's Symposium are particularly noteworthy in light of the fact that it unexpectedly had to be moved from its originally planned location, the Gaylord Opryland in Nashville, Tenn., following the powerful flood that hit that facility and community this past spring.

Masback cites three reasons for the successful transition, beginning with the USGIF's close relationship with Gaylord Hotels. "When they had the devastating loss of their property due to flooding, they quickly released us outright from our contractual obligation. That allowed the second piece of the puzzle to fall into place—our small, professional staff at USGIF. Just when we were pulling off GEOINT Community Week last spring, the staff looked at multiple locations and came up with recommendations, and we were able to make the decision to go to New Orleans even as they were executing our second-largest event of the year. They did it without missing a beat, and I couldn't be prouder of how they did that.

"The third piece, which was critically important, was our longstanding relationship with the city of New Orleans," Masback noted. "We were there at our roots, in 2004, and even before at GEOintel in 2003. We're contracted to

go back in 2013 for our 10th anniversary. The people of the Crescent City have been so accommodating and helpful throughout this process, and they were key to this. Without those three ingredients, we wouldn't have been able to manage this as smoothly, seamlessly and transparently to attendees, exhibitors and speakers as we have."

The USGIF's theme for 2010—"GEOINT 2010—A New Era of GEOINT"—will be a major focus of discussion at the Symposium, as the geospatial intelligence community continues to grapple with the profound technological and generational changes that are reshaping it and the rest of the economy. "We want to take a look at the technologies that have become available, the hyper-availability of 'where' information and the power of place, the actualization of the cloud, and what all that enables, as well as the people who are coming into this field, whom I refer to as 'GEOINT natives.' They're the people who have grown up comfortable with the idea that the GPS is on the dashboard, remotely sensed data is available on the Internet, and personal information is published and subscribed through social media," Masback said.

"This mix is going to create something absolutely eye-watering," he predicted. "What we wanted to do this year with the GEOINT Symposium was to kick-start this discussion. I can't tell you where we're headed in the future. But what I know is that it's incredibly important that

we get it right, and it's really exciting. The idea is to be the catalyst to begin the discussion."

As someone who attended and spoke at GEOINT Symposia in past years, during an earlier stage of his professional career, Masback also has some clear ideas about what he wants participants to take away with them when they leave New Orleans.

"I want them to walk away saying, 'Wow! I've heard from the entire senior leadership of the intelligence community, and I understand what their vision is and where we're headed. I understand, to a certain degree, what my part in that is. I've had the opportunity to see the technology, services and offerings of some of the 225 companies, agencies and academic institutions exhibiting. I understand what's out there today, and what's coming in the pipeline. I can take that vision, and my piece of it, and make it happen. Also, I've had an opportunity to expand my personal network. I saw old friends and professional colleagues, and made new contacts that will make me a better, more able professional. I understand the vision, I'm enabled by the technologies and services, and now I can use my personal network to go forward,'" he said.

"If every attendee walks away with that, then USGIF has gone a long way to achieving its primary purpose for being, which is to enhance the training and tradecraft of the GEOINT community—to build that community, accelerate innovation and advance the tradecraft."

# Satellite Data Processing

## NOAA contract supports development of the Environmental Satellite Processing and Distribution System.

The National Oceanic and Atmospheric Administration (NOAA) has awarded a contract to **Solers** for development of the Environmental Satellite Processing and Distribution System (ESPDS). The ESPDS represents an effort by NOAA's National Environmental Satellite, Data, and Information Service division to provide enhanced system development and integration support for the Office of Satellite Data Processing and Distribution (OSDPD).

The effort encompasses both legacy as well

as next generation satellite missions, such as the Geostationary Operational Environmental Satellite-R series and NOAA's next polar-orbiting satellite series. The support will also cover the areas of IT security, communications, enterprise data access and distribution, system tool development, and migration of the current OSDPD collection of individual product systems to an enterprise architecture.

The contract initially consists of two work assignments and an overall enterprise task.

Solers won this effort in an open competition under the GSA Alliant Small Business indefinite duration/indefinite quantity contract vehicle. As awarded, ESPDS will generate approximately \$40 million in revenue for Solers over seven and a half years, with the potential to add additional work assignments as requested by the customer.

Solers' team members include Lockheed Martin, Arctic Slope Research Corp., Innovim, I.M. Systems Group and SM Resources Corp.

# Full Motion Exploitation

New system helps break down single-source stovepipes to enable near real-time and forensic fusion of full motion video and all-source intelligence information.

A new motion imagery exploitation system unveiled this week by **Science Applications International Corp.** (SAIC) enables intelligence analysts to fuse, exploit and report on motion imagery data from a full range of sources.

The Advanced Intelligence Multimedia Exploitation Suite (AIMES) is a new product release in the SAIC Advanced Analytics Application line of tools, which are designed to support the geospatial visualization and fusion of motion imagery data with other geospatial and spatial data sources.

AIMES is a new technology developed through internal research and development efforts that builds on SAIC's Video Processing Capability (VPC) line of products, and was designed closely with user cooperation throughout the development process. It integrates the capabilities of SAIC's widely used VPC with new advanced analytic functions, designed

into an intuitive graphical user interface.

AIMES helps break down single-source stovepipes to enable near real-time and forensic fusion of full motion video (FMV), all-source intelligence information, as well as synchronized visualization of raw data, chat and processed intelligence.

"AIMES is a great example of where SAIC's internal research and development is aligned with ISR trends, and where we can offer solutions to emerging defense requirements," said John Thomas, SAIC senior vice president and business unit general manager.

In addition to addressing challenges associated with FMV and wide area exploitation, AIMES is poised to change the nature of FMV processing, exploitation and dissemination (PED) management through its included task management function. This capability allows for real-time enterprise task changes at FMV PED sites.

AIMES offers an open architecture that can adapt to meet the evolving needs of the FMV and geospatial intelligence communities. The AIMES open architecture features the ability to rapidly integrate third party tools, algorithms and services through the use of cloud technologies. This enables the retention of a consistent FMV infrastructure, while keeping pace with the new technologies. AIMES is compatible with distributed common ground systems services to enable the integration of all-source spatial and geospatial information, and is available in both Windows and Solaris versions, maximizing user capability to use different and motion intelligence data types.

"We look forward to offering AIMES to intelligence analysts and giving them a significant advantage over adversaries, helping commanders find these adversaries, and protecting our men and women in harm's way," said Thomas.

## Exploring Data

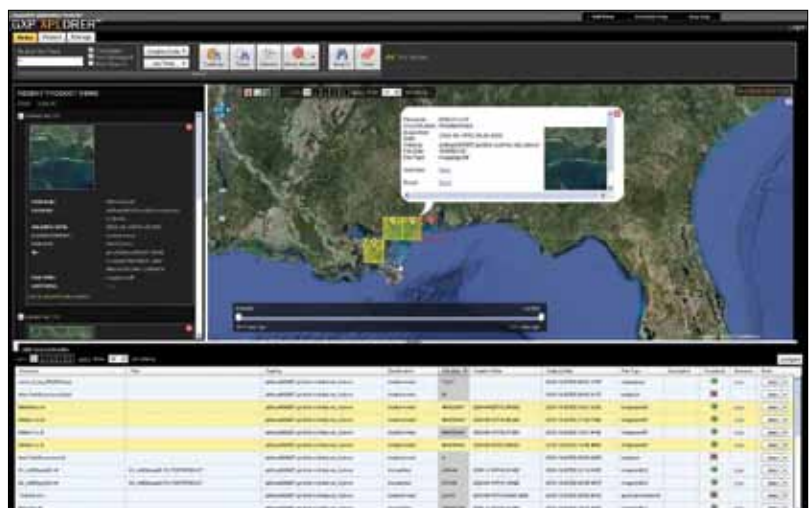
New enterprise data management system helps find and share geospatial information.

**BAE Systems** has introduced GXP Xplorer, a new enterprise data management system that makes it easy to find and share geospatial data on a local network or across an enterprise.

Analysts use a map-based discovery window to locate and view data, and to select files for use in other software applications, such as PowerPoint or SOCET GXP. The GXP Xplorer data library offers cataloging and search tools to build a common data environment.

GXP Xplorer is an open enterprise solution that can scale from a handheld device to a desktop to an enterprise-wide server cluster. It runs in virtual environments and can be tailored for a variety of configurations, such as a single-user catalog, peer-to-peer catalog sharing, and multiple users sharing the same work group catalog. Users can store data copies for safekeeping and synchronize with libraries on other devices.

GXP Xplorer is available as an independent software application and as an integrated software component for BAE Systems' SOCET GXP.



SOCET GXP combines advanced image analysis and geospatial production tools into one comprehensive product for situational analysis, operational planning and geospatial-intelligence reporting.

## Capturx Deployed

Adapx announces successful deployment of geospatial software with the NGA.

**Adapx** has announced that Capturx geospatial solutions have been successfully deployed with the National Geospatial-Intelligence Agency and named as part of an Army program of record, ENFIRE. With Capturx geospatial solutions, defense and intelligence teams can automate any GIS data capture by simply writing on paper maps with digital pens.

At the GEOINT 2010 Symposium, Adapx will demonstrate how GIS data captured with digital pens can be integrated directly into ArcGIS, GeoPDF files, and Google Earth, enabling teams to instantly share data from the field without cumbersome mobile computers or paper handling.

Capturx geospatial solutions have been deployed by NGA to speed up GIS data capture using paper maps, forms, ArcGIS and GeoPDF files in recent desert exercises. "Digital pens are another tool for the NGA to achieve its mission of providing ready access to geospatial intelligence for civilian and military customers and in support of humanitarian efforts," said Sue Meisner, Public Affairs Office, NGA.

Capturx Software for ArcGIS, GeoPDF, Excel, Microsoft Office OneNote have all recently been approved for inclusion in the Army ENFIRE toolkit 5.0 (Engineering Field Planning, Reconnaissance, Surveying, and Sketching Set) program of record. As part of the ENFIRE 4.0 program of record, Capturx software provided combat engineers and reconnaissance teams to reliably integrate field data such as conditions, repairs, hazards, and obstacles, into ArcGIS for immediate command visibility and better decision making.

"We are very pleased with the growth in deployment s of our Capturx geospatial product line in the defense and intelligence communities," said Ken Schneider, president and chief executive officer of Adapx. "The reliability and ease-of-use that Capturx has proven with demanding warfighters in tough terrains makes Capturx a perfect data capture solution for any field team."

At GeoINT, Adapx will demonstrate the latest Capturx geospatial integration, Capturx for Google Earth. Capturx for Google Earth is a prototype leveraging the Adapx multimodal and sketch recognition engines. With the new geospatial functionality, commanders can create new military Courses of Action (COA) by sketching symbols and notes on digital paper. Capturx will automatically recognize any of the point features from among the 4,000 standard MIL-STD-2525B/C/D symbols and automatically overlay the proper symbols on Google Earth.

In addition to Capturx for Google Earth, GeoINT attendees will also be able to see live demonstrations of:

- Capturx for ArcGIS, Capturx Multimodal ArcGIS
- Capturx Markup for PDF with GeoPDF support
- Capturx Forms for Excel and SharePoint Server

Adapx is changing the way mobile teams collect data and collaborate with Capturx software for digital pens. A broad range of industries and agencies use Capturx products as natural interfaces into Microsoft Office, GIS, PDF files, and SharePoint through digital pens and voice. Mobile teams can immediately collect and access data in native file formats and systems without the delay and cost of transcribing paper or deploying mobile computers. Adapx has strategic partnerships with Microsoft, ESRI, Lockheed Martin, In-Q-Tel, and works with standard digital pen technology from Anoto.

Adapx will be on display at GEOINT in the In-Q-Tel booth (#263) or the OGSystems booth (#623)

## GIS From Esri

**Exhibits will show how to manage, visualize, analyze, and distribute geospatial intelligence using Esri's complete enterprise geospatial system.**

National security, defense, and intelligence professionals will get to see demonstrations of **Esri's** complete geospatial system for intelligence at the GEOINT 2010 Symposium.

Geographic information system software from Esri gives agencies the ability to gather, fuse, analyze, exploit, and disseminate complex intelligence data through a map-driven interface. The geospatial knowledge derived from these processes forms a basis for making decisions in command and control, operations, logistics and other areas.

"Esri technology is uniquely qualified to handle many forms of intelligence such as data from satellite imagery and information collected using handheld devices," said Esri President Jack Dangermond. "When analyzed and displayed using GIS, subtle geographic patterns emerge from the intelligence that would otherwise be difficult to see."

Esri will be at booth 355, where briefings and demonstrations will be available on how to:

- Manage, visualize, analyze and distribute geospatial intelligence using Esri's complete enterprise geospatial system.
- Use ArcGIS 10, Esri's latest software release, to seamlessly incorporate imagery as an integral, easy-to-use part of the geospatial enterprise.
- Access ArcGIS Online to share spatial content and basemaps for applications.
- Exploit the latest in cloud, mobile, server, desktop, and online capabilities.
- Create, edit, manage and display military features as a core capability of ArcGIS 10.
- Use Esri's specialized spatial and geoprocessing tools to build complex models that solve common tasks in the GEOINT community.
- Work with robust geospatial tools to manage and analyze data for field operations and situational awareness.

# Army Tech on Display

Geospatial center to demonstrate Buckeye, GeoPDF and ENFIRE.

The U.S. Army Geospatial Center (AGC) will demonstrate its award-winning Buckeye program, Geo-referenced PDF project (GeoPDF), and Engineering Field Planning, Reconnaissance, Surveying, and Sketching Set (ENFIRE) during the U.S. Geospatial Intelligence Foundation's 2010 GEOINT Symposium.

BuckEye is a program that collects high-resolution, 3-D terrain data using a 39-megapixel color camera and light detection and ranging elevation data to produce unclassified 10-15 centimeter resolution imagery for intelligence, surveillance and reconnaissance and mapping missions in Afghanistan. Approximately 85,000 square km and 33,000 square km of data, primarily over urban areas, has been collected in Iraq and Afghanistan, respectively. The program received Army Greatest Invention of the Year honors in 2006, as well as USGIF's 2006 Geospatial Intelligence Achievement Award for the program's valuable contributions to the geospatial capability of coalition forces during the global war on terrorism.

GeoPDF allows soldiers to print easy-to-read maps on demand and to access detailed, up-to-date information on Adobe PDF-enabled computers. Both GeoPDF formats, raster and vector, provide a scalable display of the digital map or image with crisp, clear delineation of roads, riv-



ers, contour lines, and other features. The AGC created GeoPDF DVDs for most countries of the world through its partnership with the NGA Research Center, which has produced GeoPDFs of most of its standard map sheets.

The AGC is also working with NGA to convert all of NGA's geospatial intelligence products (maps, charts and images) into the GeoPDF format and to update current files to support the import and export of geospatial data with Adobe Reader for data exchange.

ENFIRE, an Army program of record, is a modern digital engineering tool kit that replaces

the Surveying Set, Military Field Sketching set, which has been in use since the early 20th century. The set integrates digital components into a common tool kit for collecting and disseminating minefield, reconnaissance and engineering data, enabling engineers to perform reconnaissance, surveying, obstacle reporting, construction site planning, engineering project management, and inventory management rapidly and at a safer standoff distance than analog measures permit. The first unit was fielded in April 2009, with 120 systems distributed to-date. Over 2,600 units are scheduled to be fielded through 2015.

## Operational Land Imager

Ball Aerospace is building the Operational Land Imager (OLI) for the Landsat Data Continuity Mission.

Ball Aerospace is building the Operational Land Imager (OLI) for the Landsat Data Continuity Mission.

The OLI flight focal plane subsystem, which was delivered in early September, completed installation into the main instrument on October 8. The focal plane array consists of 14 modules, each built by Raytheon Vision Systems. The ability to align and hold the array of modules to exacting tolerances is a critical risk for the program, which was mitigated by building a complete engineering design unit focal plane.

As a result, "the flight focal plane meets all requirements, with margin," reported OLI Program Manager Charlie VanHouten. Functional and spatial tests are scheduled to conclude in late November.



## MUST KNOW AND WHERE TO GO



### ATM MACHINES

There is an ATM in the foyer just outside the Exhibit Hall E entrance.



### BUSINESS CENTER

#### New Orleans Ernest N. Morial Convention Center

The UPS Store is located in Lobby F and offers all services including large and small printing and copying, faxing and inbound/outbound shipping.

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### WIRELESS HOTSPOTS

#### Exhibit Hall E during regular expo hours

Stay in touch by email while you're at the show in GEOLounges on the show floor. Wireless hotspots will be provided in lounge areas and lunch seating areas.



### EMERGENCY/FIRST AID

#### Call 911

In case of emergency, please pick up any house phone and dial 911 and then contact USGIF Show Management in Booth 100.



### LOST & FOUND

Please bring found articles to the USGIF Show Management Office located in Booth 100. At the end of the show, all unclaimed articles will be forwarded to New Orleans Ernest N. Morial Convention Center security.



### SHUTTLE SCHEDULE

#### Daily Shuttles To & From the Convention Center



Shuttle Service is available daily with buses departing from the Hilton New Orleans Riverside and Sheraton New Orleans hotels.

Tuesday, Nov. 2 – Thursday, Nov. 4 ..... 7:00 a.m. - 7:00 p.m.

#### Alder Golf Classic

Buses depart at 6:30 a.m. from the Sheraton New Orleans and Hilton New Orleans Riverside hotels.

Monday, Nov. 1 ..... 8:00 a.m. - 4:00 p.m.

#### Taste of New Orleans Welcome Reception at Generations Hall with Chef Paul Prudhomme

Buses depart at 6:30 p.m. from the Sheraton New Orleans and Hilton New Orleans Riverside hotels and will run continuously until 10:00 p.m.

Monday, Nov. 1 ..... 7:00 p.m. - 10:00 p.m.

#### Jerseys & Jeans Closing Celebration at the Louisiana Superdome

Buses depart at 6:30 p.m. from the Sheraton New Orleans and Hilton New Orleans Riverside hotels and will run continuously until 10:00 p.m.

Thursday, Nov. 4 ..... 7:00 p.m. - 10:00 p.m.



### MEALS

Continental breakfast is available to attendees with Full Symposium Passes in the New Orleans Theater Mid-House entrance on Tuesday, Wednesday and Thursday from 7:00 a.m. - 8:00 a.m.

Lunch for all attendees and exhibit booth personnel is served each day in Exhibit Hall E.

Tuesday, Nov. 2 ..... 12:30 p.m. - 2:00 p.m.

Wednesday, Nov. 3 ..... 12:30 p.m. - 2:00 p.m.

Thursday, Nov. 4 ..... 12:00 p.m. - 2:00 p.m.



### SOLICITATION POLICY

Solicitation of any kind is prohibited at the GEOINT 2010 Symposium. By registering to attend, you acknowledge this policy and agree that you will not advertise, represent or distribute literature for products or

services to our exhibitors, attendees or staff without the express written approval of USGIF. Any attendee that violates this policy will forfeit their registration credentials.



### PRESS ROOM

#### Rooms 263 and 264

All members of the media must check in at registration to claim their badge before heading to the press room to obtain their on-site media credentials. Proper proof of working media affiliation is required for any and all media that have not pre-registered.

Monday, Nov. 1 ..... 2:00 p.m. - 5:00 p.m.  
 Tuesday, Nov. 2 ..... 7:30 a.m. - 5:00 p.m.  
 Wednesday, Nov. 3 ..... 7:30 a.m. - 5:00 p.m.  
 Thursday, Nov. 4 ..... 7:30 a.m. - 5:00 p.m.



### REGISTRATION HOURS

#### Exhibit Hall E Foyer

Sunday, Oct. 31 ..... 3:00 p.m. - 6:00 p.m.  
 Monday, Nov. 1 ..... 8:00 a.m. - 7:00 p.m.  
 Tuesday, Nov. 2 ..... 6:30 a.m. - 6:00 p.m.  
 Wednesday, Nov. 3 ..... 7:00 a.m. - 6:00 p.m.  
 Thursday, Nov. 4 ..... 7:30 a.m. - 6:00 p.m.



### EXHIBIT HALL HOURS

#### Exhibit Hall E

Tuesday, Nov. 2 ..... 11:00 a.m. - 6:00 p.m.  
 Wednesday, Nov. 3 ..... 11:00 a.m. - 6:00 p.m.  
 Thursday, Nov. 4 ..... 11:00 a.m. - 5:00 p.m.

## SHOW POLICIES



### BADGES & ATTENDANCE

GEOINT 2010 badges are non-transferable. Badges must be worn and visible at ALL Symposium-related activities.

One-Day Exhibit Only Pass holders may upgrade to a Full Symposium Pass to attend Symposium sessions by paying the difference in the rate on the date of change. Badges may not be shared.



### DRESS CODE

USGIF suggests business attire for all conference sessions, breakout tracks and the exhibit hall. Military officers and enlisted personnel are encouraged to wear a duty uniform or business suit. Casual attire is recommended for the Taste of New Orleans Welcome Reception at Generations Hall and GEOWalk Corporate Hospitality Night. Your favorite football team's jersey and jeans are recommended for the Jerseys & Jeans Closing Celebration at the Louisiana Superdome.



### MOBILE PHONES & PAGERS

As a courtesy to all speakers and your fellow attendees, please place all mobile devices in silent mode during all Symposium sessions. In addition, all cell phones must be answered outside of the general session and meeting rooms.



### PHOTOGRAPHY

Photography is not permitted without the prior approval of show management. By attending the GEOINT 2010 Symposium, you are granting USGIF permission to use photographs taken by the official show photographer for future marketing purposes.



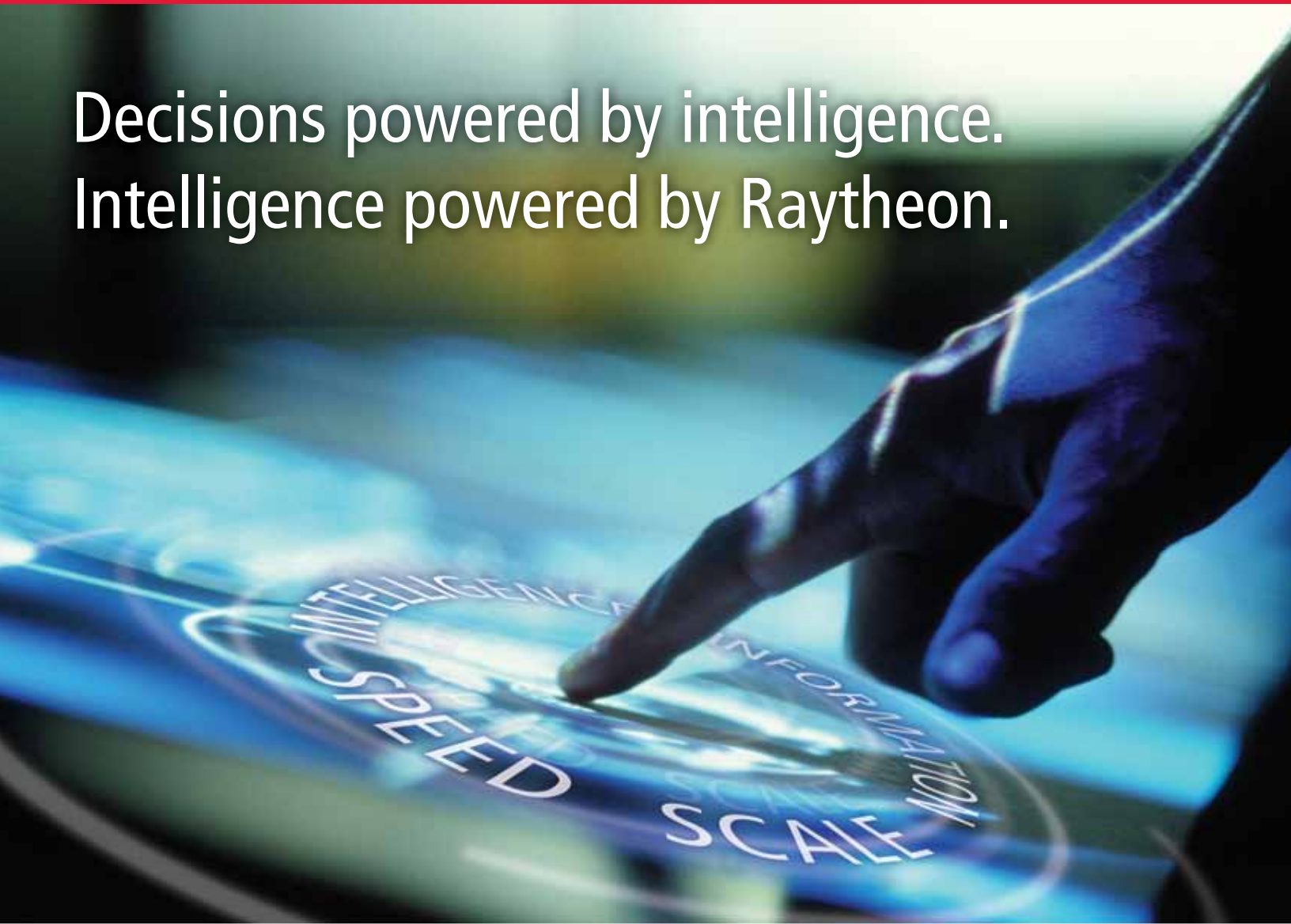
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## TODAY'S SESSION PARTICIPANTS

### MR. THOMAS AGER

#### Lead SAR Engineer, Acquisition Engineering Office, National Geospatial-Intelligence Agency

Thomas Ager recently completed a community initiative to evaluate the new international commercial radars, and is now managing a project to downlink and process these sensors at the CSTARS ground station in Florida using a sensor-independent, modular processing flow.

### MS. JEANETTE ALLEN

#### Senior Remote Sensing Education Specialist, Sigma Space Corp., NASA Goddard Space Flight Center

Jeanette Allen is a senior remote sensing education specialist for Earth-observing satellite missions with Sigma Space Corp. at NASA Goddard Space Flight Center.

### DR. MAX BABER

#### Director of Academic Programs, United States Geospatial Intelligence Foundation

Max Baber is director of academic programs at the United States Geospatial Intelligence Foundation (USGIF), managing accreditation of university geospatial intelligence certificate programs and supporting related educational initiatives.

### DR. DENNIS BELLAFIORE

#### Senior Lecturer, Department of Geography, John A. Dutton e-Education Institute, Pennsylvania State University

Dennis J. Bellafiore is the co-author of Penn State's GEOG 885 World Campus course, "Advanced Analytic Methods for the Geospatial Intelligence Professional," contributor to "The Learner's Guide to Geospatial Analysis," now available on the Internet, and co-developer of a new business location intelligence course.

### MR. CHUCK BENTON

#### Technology Education Specialist and Chair, Practical Arts Department, Dover Area High School (Pennsylvania)

Chuck Benton is chairman of the Practical Arts Department at Dover Area High School in Pa., where he is a technology education specialist teaching drafting, pre-engineering and GIS.

### MR. STEWART BRUCE

#### GIS Program Coordinator, Center for Environment and Society, Washington College

Stewart Bruce is the GIS program coordinator at Washington College. In addition to teaching, Bruce also manages numerous funded projects, spanning the gamut from crime mapping to youth technology training in GIS.

### MR. GABE CHANG

#### Senior Consulting Client IT Architect, IBM

Gabe Chang is the co-chair for the Emerging Technologies Subcommittee for the U.S. Geospatial Intelligence Foundation (USGIF), and a senior consulting client IT architect for IBM.

### MR. MIKE DEAN

#### Principal Engineer, Raytheon BBN Technologies

Mike Dean is co-chair of the U.S. Geospatial Intelligence Foundation (USGIF)'s Emerging Technologies Subcommittee and a principal engineer at Raytheon BBN Technologies, where he has spent 26 years providing technical leadership on software R&D projects for DoD, IC and commercial customers.

### COLONEL STEVE FLEMING, U.S. ARMY

#### Academy Professor, Department of Geography and Environmental Engineering, U.S. Military Academy

Colonel Steve Fleming is an academy professor in the Department of Geography and Environmental Engineering at the U.S. Military Academy, West Point, N.Y.

### DR. PETER GUTH

#### Professor, Oceanography Department, U.S. Naval Academy

Peter Guth teaches courses in physical geography, geographical information systems, geological oceanography and honors research methods.

### LIEUTENANT COLONEL KENNETH HART, U.S. AIR FORCE

#### Director of Geosciences, Department of Economics and Geosciences, U.S. Air Force Academy

Lieutenant Colonel Kenneth Hart directs the operation of 15 faculty and staff and 30 geospatial science, meteorology and social science courses taught to 1,500 cadets annually.

### MR. LARRY HILL

#### Senior Vice President, Acting General Manager, SAIC, Intelligence, Surveillance, and Reconnaissance Group

Larry Hill's responsibilities range from management of operations to development of business strategy in NGA, NRO and DoD markets.

### DR. MICHAEL KRIMMER

#### Associate Professor and Head, Geospatial Studies Program, Northern Virginia Community College Air Force

Colonel Michael J. Krimmer (Ret.), Ph.D., is associate professor and program head of geospatial studies at Northern Virginia Community College (NVCC). Krimmer retired from the Air Force after 25 years of service in 2003.

### DR. DAVID W. MESSINGER

#### Associate Research Professor, Chester F. Carlson Center for Imaging Science and Director, Digital Imaging and Remote Sensing Laboratory, Rochester Institute of Technology

David W. Messinger received a B.S. in physics from Clarkson University and a Ph.D. in physics from Rensselaer Polytechnic Institute. Messinger has worked as an analyst for Xon-Tech Inc. and on the national missile defense program for Northrop Grumman.

### MR. MICHAEL MESTROVICH

#### Senior Technology Officer for Innovation, Directorate for Information Management and Chief Information Officer, Defense Intelligence Agency

Michael Mestrovich leads the research and evaluation of next-generation information technology solutions for the Department of Defense Intelligence Information System enterprise to identify IT products, tools, environments, systems and methodologies for their applicability to improve the analytic process.

### MR. JOHN MOELLER

#### Senior Principal Engineer, Northrop Grumman Information Technology

John Moeller is a senior adviser for geospatial standards, interoperability and strategic issues. Moeller serves as the co-chair of the U.S. Geospatial Intelligence Foundation's (USGIF) Technical Committee, co-chair of the Spatial Ontology Community of Practice, which was initially established as part of the Federal CIO Council's Best Practices Committee, and is the USGIF representative on NGA's Geospatial Intelligence Standards Working Group.

**DR. CHRISTOPHER ROZELL****Assistant Professor, School of Electrical & Computer Engineering, Georgia Institute of Technology**

Christopher Rozell received a B.S.E. in computer engineering and a B.F.A. in performing arts technology (music technology) in 2000 from the University of Michigan. Rozell attended graduate school at Rice University, where he was a Texas Instruments Distinguished Graduate Fellow, receiving the M.S. and Ph.D. in electrical engineering in 2002 and 2007, respectively.

**DR. H. GREGORY SMITH****Deputy Director, InnoVision Directorate and Chief Scientist, National Geospatial-Intelligence Agency**

H. Gregory Smith is currently InnoVision's deputy director and NGA's chief scientist and in this role serves as the agency's senior scientific authority and mentor, working across InnoVision, the agency and the community to develop NGA's scientific and technical personnel and advanced research program.

**DR. ANTHONY STEFANIDIS****Associate Professor, Department of Geography and Geoinformation Sciences, College of Science, George Mason University**

Anthony Stefanidis is an associate professor with the ESGS Department at George Mason University (GMU), and is also the director of the Center for Geospatial-Intelligence at GMU.

**MR. DAVID L. STERLING****Project Manager for GEOINT Programs, Everest Technology Solutions**

David L. Sterling is a project manager for GEOINT programs with Everest Technology Solutions in Fairfax, Va.

**MR. MARK E. STURGELL****Chief, Cognitive Modeling and Agents, 711th Human Performance Wing, Wright-Patterson Air Force Base, Ohio**

Mark E. Sturgell is currently the chief of the Cognitive Modeling and Agents branch of the 711th Human Performance Wing, Wright-Patterson Air Force Base, Ohio.

**DR. MARC VERHAGEN****Assistant Research Professor, Computer Science Department, Brandeis University**

Marc Verhagen received a bachelor's degree in geography and a master's degree in computational linguistics from Utrecht University in the Netherlands, and a master's degree and Ph.D. in computer science from Brandeis University.

**MR. DAVID WALDRUP****Director of Intelligence Community Support, In-Q-Tel**

David Waldrup has over 30 years of combined experience working within the Department of Defense, the intelligence community and commercial businesses around the world.

**MR. WESLEY A. WILSON****Chief, Information and Incidents Analysis Group, National Counterterrorism Center**

Wesley A. Wilson leads the National Counterterrorism Center's (NCTC) development of a large-scale data analytics program, a unique project that integrates technologists, analysts and massive data sets to support new approaches to fighting terrorism.

**MR. CARL ZIMMERMAN****Instructor, Homeland Security Program, U.S. Coast Guard Academy**

Carl Zimmerman is teaching geospatial sciences in the Science Department of the Coast Guard Academy.

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## TODAY'S SESSION DESCRIPTIONS

### TECHNOLOGY TRACK

10 a.m. – 4 p.m. Room 265

#### IC S&T Innovation

10 a.m. – 12 p.m. Room 265

The intelligence community is working hard to highlight the power of commercial IT, GPS industry, visualization, gaming, academia and the evolving Internet as real drivers the government needs to harness. To do that it is imperative the IC innovate processes from end to end, from contracting for R&D through the methodologies used for analysis and production of GEOINT data and services. Topics to be discussed include the NSG R&D perspective on innovation; innovation process; DIA virtual desktop; innovative computational geospatial analysis; AFRL Discovery labs and virtual worlds.

**Moderator - Mr. Edward T. Cope**, NSG RDT&E, National Geospatial-Intelligence Agency

- **Dr. H. Gregory Smith**, Deputy Director, InnoVision Directorate and Chief Scientist, National Geospatial-Intelligence Agency
- **Mr. Thomas Ager**, Lead SAR Engineer, Acquisition Engineering Office, National Geospatial-Intelligence Agency
- **Mr. Michael Mestrovich**, Senior Technology Officer for Innovation, Directorate for Information Management and Chief Information Officer, Defense Intelligence Agency
- **Mr. Mark E. Sturgell**, Chief, Cognitive Modeling and Agents, 711th Human Performance Wing, Wright-Patterson Air Force Base, Ohio
- **Mr. David Waldrup**, Director of Intelligence Community Support, In-Q-Tel

#### Activity-Based Intelligence

1 p.m. – 3 p.m. Room 265

Activity-based intelligence is an evolving strategy for developing intelligence using the combined capabilities of persistent surveillance, tailored collection management, multi-INT analytic tradecraft and flexible and discoverable data management. A foundation of activity-based intelligence is the use of persistent ISR, cued by an all-source intelligence network, to find a target amid civilian clutter and fix its precise geolocation. This can be done forensically, tracing entities and transactions to a particular event, thus making connections across time and location. Activities and transactions, spatially and temporally organized, are the key to activity-based intelligence. This strategy, derived out of best practices and lessons learned in current military operations, has been a successful enabler for rapid operations. The concept can also be seen to have utility well beyond military and intelligence uses, extending to law enforcement, homeland security, border surveillance and other potential applications. This tutorial will present a conceptual overview of activity-based intelligence, with real-world use cases and technology demonstrations of the concepts in military and civilian applications.

#### NCTC Worldwide Incidents Tracking System (WITS)

3 p.m. – 4 p.m. Room 265

The National Counterterrorism Center has launched the next generation of the Worldwide Incidents Tracking System (WITS) and would like to present WITS NextGen at GEOINT 2010. Available to the public on the Internet, WITS is the U.S. government's authoritative database of terrorist attacks compiled exclusively from open source information. With WITS NextGen, users can run reports and queries to retrieve analytic information related to terrorist attacks worldwide. NCTC will showcase WITS NextGen at GEOINT 2010 by providing a presentation that demonstrates new geospatial functions, explains the underlying WITS methodology that ensures rigor in the data, shows how government analysts and academics are using WITS in their research and concludes with a WITS promotional video.

- **Mr. Wesley A. Wilson**, Chief, Information and Incidents Analysis Group, National Counterterrorism Center

### ACADEMIC TRACK

10 a.m. – 4 p.m. Room 269

#### Filling the K-16 Pipeline with Geospatial Students: Education Challenges and Opportunities

10 a.m. – 12 p.m. Room 269

The geospatial enterprise is growing rapidly, and geospatial educators are implementing a number of initiatives to fill the K-16 academic pipeline with students keen to pursue geospatial careers. This session presents information about programs that are exciting interest in geospatial technologies among high school, community college and liberal arts students. Session attendees will learn how to support such endeavors as advocates for geospatial education. Panelists will share their experiences developing geospatial programs at various educational levels, and student participants will present information about a diversity of classroom projects involving remote sensing, GIS and geographic visualization. Panelists and students will extend this session with demonstrations presented in Washington College, iGETT and Northern Virginia Community College spaces within the Academic Pavilion area of the GEOINT 2010 exhibit hall.

**Moderator - Dr. Max Baber**, Director of Academic Programs, United States Geospatial Intelligence Foundation

- **Ms. Jeanette Allen**, Senior Remote Sensing Education Specialist, Sigma Space Corp., NASA Goddard Space Flight Center
- **Mr. Chuck Benton**, Technology Education Specialist and Chair, Practical Arts Department, Dover Area High School, Pennsylvania
- **Mr. Stewart Bruce**, GIS Program Coordinator, Center for Environment and Society, Washington College
- **Dr. Michael Krimmer**, Associate Professor and Head, Geospatial Studies Program, Northern Virginia Community College

#### USGIF Accreditation of University Geospatial Intelligence Certificate Programs

12 p.m. – 1 p.m. Room 269

USGIF is accrediting university geospatial intelligence certificate programs as we partner with government and industry to grow the GEOINT work force. Panelists will share perspectives from industry and higher education on the value of USGIF accreditation. The USGIF accreditation process and guidelines will be detailed, impact on university geospatial programs will be reviewed, and benefits to industry staffing will be discussed.

**Moderator - Mr. David L. Sterling**, Project Manager for GEOINT Programs, Everest Technology Solutions

- **Dr. Max Baber**, Director of Academic Programs, United States Geospatial Intelligence Foundation
- **Mr. Larry Hill**, Senior Vice President, Acting General Manager, Intelligence, Surveillance, and Reconnaissance Group, SAIC
- **Dr. Anthony Stefanidis**, Associate Professor, Department of Geography and Geoinformation Sciences, College of Science, George Mason University

### Service Academy Roundtable: Advancing the Geospatial Intelligence Mission

1 p.m. – 2:30 p.m. Room 269

Effective capture and exploitation of geospatial intelligence is vitally important for successful military operations. Towards that goal, robust geospatial science and technology programs exist at each of the U.S. service academies, providing significant preparation for officers whose leadership and decision-making abilities rely upon a comprehensible geospatial context for field engagements. USGIF Academic Programs and the Tradecraft Subcommittee host this roundtable session showcasing the geospatial intelligence programs of U.S. service academies, offering presentations from academy representatives about academic, tradecraft and research elements of their geospatial programs and providing opportunity for session attendees to interact directly with these representatives to learn more about trends in service academy geospatial programs.

**Moderator - Mr. John Moeller**, Senior Principal Engineer, Northrop Grumman Information Technology

- **Colonel Steve Fleming**, U.S. Army, Academy Professor, Department of Geography and Environmental Engineering, U.S. Military Academy
- **Lieutenant Colonel Kenneth Hart**, U.S. Air Force, Director of Geosciences, Department of Economics and Geosciences, U.S. Air Force Academy
- **Dr. Peter Guth**, Professor, Oceanography Department, U.S. Naval Academy
- **Mr. Carl Zimmerman**, Instructor, Homeland Security Program, U.S. Coast Guard Academy

### Academic Research Program Presentations

2:30 p.m. – 4:00 p.m. Room 269

Science and technology research and development thrives at the collegiate level. USGIF will offer a glimpse of this with a presentation from various researchers. In addition to USGIF's Geospatial Intelligence Research Award recipient, three projects have been selected from the more than 60 research initiatives presented at the 2010 NGA Academic Research Program Symposium. These presentations by leading research scientists are representative of the outstanding quality and depth of research being conducted in support of national geospatial intelligence basic and applied research programs. Join us to see how research is helping the geosciences community "Know the Earth."

**Moderators - Mr. Gabe Chang**, Senior Consulting Client IT Architect, IBM; and **Mr. Mike Dean**, Principal Engineer, Raytheon BBN Technologies

- **Dr. Dennis Bellafiore**, Senior Lecturer, Department of Geography, John A. Dutton e-Education Institute, Pennsylvania State University (USGIF Academic Research Award Winner)
- **Dr. David W. Messinger**, Associate Research Professor, Chester F. Carlson Center for Imaging Science and Director, Digital Imaging and Remote Sensing Laboratory, Rochester Institute of Technology (NURI NARP Selectee)
- **Dr. Marc Verhagen**, Assistant Research Professor, Computer Science Department, Brandeis University
- **Dr. Christopher Rozell**, Assistant Professor, School of Electrical & Computer Engineering, Georgia Institute of Technology (NURI NARP Selectee)

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## TODAY'S AGENDA

**8:00 A.M. - 4:00 P.M.**

### Allder Golf Classic at Stonebridge Golf Club of New Orleans

Buses leave at 6:30 a.m. from the Sheraton New Orleans and Hilton New Orleans Riverside

**10:00 A.M. - 12:00 P.M.**

#### ACADEMIC TRACK

### Filling the K-16 Pipeline with Geospatial Students: Education Challenges and Opportunities (Room 269)

**Moderator** - Dr. Max Baber, Director of Academic Programs, United States Geospatial Intelligence Foundation

#### Panelists

- Ms. Jeanette Allen, Senior Remote Sensing Education Specialist, Sigma Space Corp., NASA Goddard Space Flight Center
- Mr. Chuck Benton, Technology Education Specialist and Chair, Practical Arts Department, Dover Area High School, Pennsylvania
- Mr. Stewart Bruce, GIS Program Coordinator, Center for Environment and Society, Washington College
- Dr. Michael Krimmer, Associate Professor and Head, Geospatial Studies

Program, Northern Virginia Community College

**10:00 A.M. - 12:00 P.M.**

#### TECHNOLOGY TRACK

### IC S&T Innovation (Room 265)

**Moderator** - Mr. Edward T. Cope, NSG RDT&E, National Geospatial-Intelligence Agency

#### Panelists

- Dr. H. Gregory Smith, Deputy Director, InnoVision Directorate and Chief Scientist, National Geospatial-Intelligence Agency
- Mr. Thomas Ager, Lead SAR Engineer, Acquisition Engineering Office, National Geospatial-Intelligence Agency
- Mr. Michael Mestrovich, Senior Technology Officer for Innovation, Directorate for Information Management and Chief Information Officer, Defense Intelligence Agency
- Mr. Mark E. Sturgell, Chief, Cognitive Modeling and Agents, 711th Human Performance Wing, Wright-Patterson Air Force Base, Ohio
- Mr. David Waldrup, Director of Intelligence Community Support, In-Q-Tel

**12:00 P.M. - 1:00 P.M.**

#### ACADEMIC TRACK

### USGIF Accreditation of University Geospatial Intelligence Certificate Programs (Room 269)

**Moderator** - Mr. David L. Sterling, Project Manager for GEOINT Programs, Everest Technology Solutions

#### Panelists

- Dr. Max Baber, Director of Academic Programs, United States Geospatial Intelligence Foundation
- Mr. Larry Hill, Senior Vice President, Acting General Manager, Intelligence, Surveillance, and Reconnaissance Group, SAIC
- Dr. Anthony Stefanidis, Associate Professor, Department of Geography and Geoinformation Sciences, College of Science, George Mason University

**1:00 P.M. - 2:30 P.M.**

### Lunch Served for Pre-Symposium Track Attendees (Room 265)

#### ACADEMIC TRACK

### Service Academy Roundtable: Advancing the Geospatial Intelligence Mission (Room 269)

**Moderator** - Mr. John Moeller, Senior Principal Engineer, Northrop Grumman Information Technology

#### Panelists

- Colonel Steve Fleming, U.S. Army, Academy Professor, Department of Geography and Environmental Engineering, U.S. Military Academy
- Lieutenant Colonel Kenneth Hart, U.S. Air Force, Director of Geosciences, Department of Economics and Geosciences, U.S. Air Force Academy
- Dr. Peter Guth, Professor, Oceanography Department, U.S. Naval Academy
- Mr. Carl Zimmerman, Instructor, Homeland Security Program, U.S. Coast Guard Academy

**1:00 P.M. - 3:00 P.M.**

#### TECHNOLOGY TRACK

### Activity-Based Intelligence (Room 265)

**2:30 P.M. - 4:00 P.M.**

#### ACADEMIC TRACK

### Academic Research Program Presentations (Room 269)

**Moderators** - Mr. Gabe Chang, Senior Consulting Client IT Architect, IBM; and Mr. Mike Dean, Principal Engineer, Raytheon BBN Technologies

#### Panelists

- Dr. Dennis Bellafore, Senior Lecturer, Department of Geography, John A. Dutton e-Education Institute, Pennsylvania State University (USGIF Academic Research Award Winner)
- Dr. David W. Messinger, Associate Research Professor, Chester F. Carlson Center for Imaging Science and Director, Digital Imaging and Remote Sensing Laboratory, Rochester Institute of Technology (NURI NARP Selectee)
- Dr. Marc Verhagen, Assistant Research Professor, Computer Science Department, Brandeis University
- Dr. Christopher Rozell, Assistant Professor, School of Electrical & Computer Engineering, Georgia Institute of Technology (NURI NARP Selectee)

**3:00 P.M. - 4:00 P.M.**

#### TECHNOLOGY TRACK

### NCTC Worldwide Incidents Tracking System (WITS) (Room 265)

Mr. Wesley A. Wilson, Chief, Information and Incidents Analysis Group, National Counterterrorism Center

### Taste of New Orleans Welcome Reception at Generations Hall with Chef Paul Prudhomme

Buses begin at 6:30 p.m. from the Sheraton New Orleans and Hilton New Orleans Riverside

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## TUESDAY'S AGENDA

**8:00 A.M. - 8:30 A.M.**

### Presentation of Colors and Welcome

K. Stuart Shea, Chairman and CEO, USGIF; and President, Intelligence, Surveillance and Reconnaissance Group, SAIC (New Orleans Theater)

**8:30 A.M. - 8:45 A.M.**

### Master of Ceremonies

The Honorable Joan Avalyn Dempsey, Senior Vice President, Booz Allen Hamilton (New Orleans Theater)

**8:45 A.M. - 9:30 A.M.**

### Opening Keynote

The Honorable James R. Clapper Jr., Director of National Intelligence (New Orleans Theater)

**9:45 A.M. - 10:30 A.M.**

### Keynote

Gen. Bruce Carlson, U.S. Air Force (Ret.), Director, National Reconnaissance Office (New Orleans Theater)

**10:30 A.M. - 11:00 A.M.**

### Networking Break

**11:00 A.M. - 11:45 A.M.**

### Keynote

Caryn A. Wagner, Under Secretary for Intelligence and Analysis, Department of Homeland Security (New Orleans Theater)

**11:00 A.M. - 6:00 P.M.**

### Exhibit Hall Open (Halls E & F)

**11:45 A.M. - 12:30 P.M.**

### Keynote

Letitia A. Long, Director, National Geospatial-Intelligence Agency (New Orleans Theater)

**12:30 P.M. - 2:30 P.M.**

### Lunch Served in Exhibit Hall (Hall E)

#### Lunchtime Roundtable

NGA's Transforming Operations and Production to Services Initiative (TOPS CRADA) (Room 275)

**2:30 P.M. - 4:30 P.M.**

### Breakout

GEOINT Insight and Influence Through Functional Management (Room 265)

**Introductory Keynote - Admiral William O. Studeman**, U.S. Navy (Ret.), Consultant, Northrop Grumman Corp.

**Moderator - Mr. Paul R. Weise**, Director, Office of Geospatial Intelligence Management, National Geospatial-Intelligence Agency

#### Panelists:

- **Ms. Diane (Di) Harris**, Assistant Secretary Capabilities and Systems, Department of Defence, Australia
- **Mr. Geoff Holmes**, Director GEOINT, Government Communications Security Bureau (GCSB), New Zealand
- **Major General Mary A. Legere**, U.S. Army, Commanding General, U.S. Army Intelligence and Security Command
- **Mr. Curtis A. Rowland**, Technical Director for GEOINT, National Air and Space Intelligence Center

**2:30 P.M. - 4:30 P.M.**

### Breakout

Maritime Domain Awareness (Room 273)

**Moderator - Mr. Guy Thomas**, Science and Technology Advisor, U.S. Coast Guard

#### Panelists:

- **Ms. Pamela Jackson**, Director, Unified GEOINT Office, Office of Naval Intelligence and Director, Office of Naval Intelligence/Naval Oceanographic Office NGA Support Team, Analysis and Production Directorate, National Geospatial- Intelligence Agency
- **Capt. Eric V. Kristin**, U.S. Navy, Director of OPNAV N2/N6 Technology Innovation, National Maritime Intelligence Center
- **Mr. Gary LaGrange**, President and Chief Executive Officer, Port of New Orleans
- **Capt. Anthony LaVecchia Jr.**, U.S. Navy, Director of Intelligence, Joint Interagency Task Force West, Camp Smith, Hawaii
- **Rear Adm. John W. Smith Jr.**, U.S. Navy, Deputy Director, Joint Interagency Task Force South, Key West, Fla.
- **Rear Adm. Robert P. Wright**, U.S. Navy, Reserve Deputy Commander and Chief of Staff, U.S. Fleet Forces Command

### Breakout

Open Source in the 21st Century (Room 278)

**Moderator - Ms. Tina J. Pinkard**, Deputy Center Chief, Global Services Group, Open Source Center

#### Panelists:

- **Ms. Barbara Bowyer**, Director, Office of GEOINT Research Center, National Geospatial-Intelligence Agency
- **Dr. John T. Sample**, Geospatial Computing Section Head, U.S. Naval Research Laboratory
- **Dr. Lee Schwartz**, Geographer of the United States and Director, Office of the Geographer and Global Issues, Bureau of Intelligence and Research, Department of State
- **Dr. Barry A. Zulauf**, Adjunct Professor, Mercyhurst College and Michigan State University; Former Deputy Chief, DEA Office of National Security Intelligence

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

### Exhibit Hall Reception (Halls E & F)

# GEOINT COMMUNITY WEEK

USGIF Invitational - May 9

Army Geospatial & Imagery Conference - May 10-13

USGIF Technology Day - May 12

USGIF Workshop Series - May 13

Held annually in the Washington, D.C. area, GEOINT Community Week brings together stakeholders within the geospatial intelligence tradecraft for a week of networking, classified briefings, exhibits and learning workshops.

The week begins at the USGIF Invitational golf tournament, with proceeds going to the USGIF Scholarship Program. The Army Geospatial and Imagery Conference (AGIC) follows on Tuesday, delivering four days of classified sessions and presentations. On Thursday, join community members for USGIF Technology Day and attend presentations on emerging technologies, along with the opportunity to walk through an exhibit hall filled with USGIF members' current innovations. Bringing the day to a close is the GEOINT Community Week reception. Concluding the week is another installment of the USGIF Workshop Series based on a current topic important to you.

For more information and updates on GEOINT Community Week, please visit [www.usgif.org](http://www.usgif.org).





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