

The Next Generation of GEOINT





MISSION

The United States Geospatial Intelligence Foundation's (USGIF) purpose is to promote the effective development and application of geospatial intelligence creating a stronger community of action among the associated commercial, governmental, and academic organizations. USGIF's focus is on thought leadership and support for education, training, and professional development.

USGIF EXECUTES ITS MISSION THROUGH ITS STRATEGIC PILLARS



BUILD THE COMMUNITY

USGIF builds the community by engaging defense, intelligence, and homeland security professionals, industry, academia, non-governmental organizations, international partners, and individuals to discuss the importance and power of geospatial intelligence.



ADVANCE THE TRADECRAFT

GEOINT is only as good as the tradecraft driving it. We are dedicated to working with our industry, university, and government partners to push the envelope on tradecraft. Through education and lifelong professional development, USGIF provides ample opportunities to gain needed knowledge, skills, and abilities.



ACCELERATE INNOVATION

Innovation is at the heart of GEOINT. We work hard to provide our members the opportunity to share innovations, speed up technology adoption, and accelerate innovation.



The United States Geospatial Intelligence Foundation (USGIF) was founded in 2004 as a 501(c)(3) non-lobbying, nonprofit educational foundation.

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OUR LEADERS



Keith J. Masback
Chief Executive Officer



The Honorable Jeffrey K. Harris
Chairman of the Board



From the Chairman and CEO

We are a member-driven Foundation. This 2017 Annual Report is designed to help you better understand and appreciate the myriad activities your Foundation is championing to Build the Community, Advance the Tradecraft, and Accelerate Innovation.

As an educational foundation, we are helping to enrich the capabilities of today's employees and citizens, while growing the workforce of tomorrow via our continuum of programs: K-12 outreach, college and university accreditation, training and professional development, professional certification, and ongoing mentoring and engagement.

USGIF's scholarship program is changing lives and directly impacting our profession. We operate efficiently to allow us to sustain and grow the resources for our undergraduate, graduate, and doctoral scholarships. Our scholarship awardees, each remarkable in their own way, contribute to substantial mission improvements through their scholarship and involvement across our ever-expanding GEOINT Community of Practice.

Our network of volunteers selflessly lead and manage committees and working groups, attacking tough issues with boundless energy and tremendous expertise. For example, the Geospatial and Remote Sensing Law Working Group endeavors to develop legal frameworks to best reconcile privacy concerns with the proliferation of remote sensing and location sharing technologies across multiple sectors of the economy.

Using an integrated multimedia strategy anchored by our award-winning *trajectory* magazine, the Foundation has successfully engaged an expanding set of users, including first responders, emergency managers, and a broad array of companies providing location information products and services enabling imaginative solutions to old problems. In September 2018 we will host a new, commercially focused event in Santa Monica, *trajectoryXyzt*, to establish the intellectual framework – outside the traditional national security arena – for efforts at the nexus of remote sensing from phones to drones to space, geospatial and location information of all types, data analytics, and data visualization. This represents a vitally important evolution in the work of the Foundation, engaging a new spectrum of sectors including energy, transportation, retail, marketing, and insurance.

Thank you for your continued support of USGIF and our programs. The GEOINT Community is more vibrant than ever, and we're proud of the role we've played, and continue to play, in the expansion of the discipline and its tradecraft.

**Get Involved.
Become a Member.
Support USGIF.**

EDUCATION IN ACTION

"I find working with USGIF very inspiring. It is great sharing ideas with members of the academic community that are a part of the GEOINT Certificate and all of the USGIF member organizations. This information exchange is very fruitful for us as faculty in the Intelligence Analysis Program and in the Geographic Science Program. Our students are being offered great opportunities through the GEOINT Community."

- Dr. Helmut Kraenzle, James Madison University

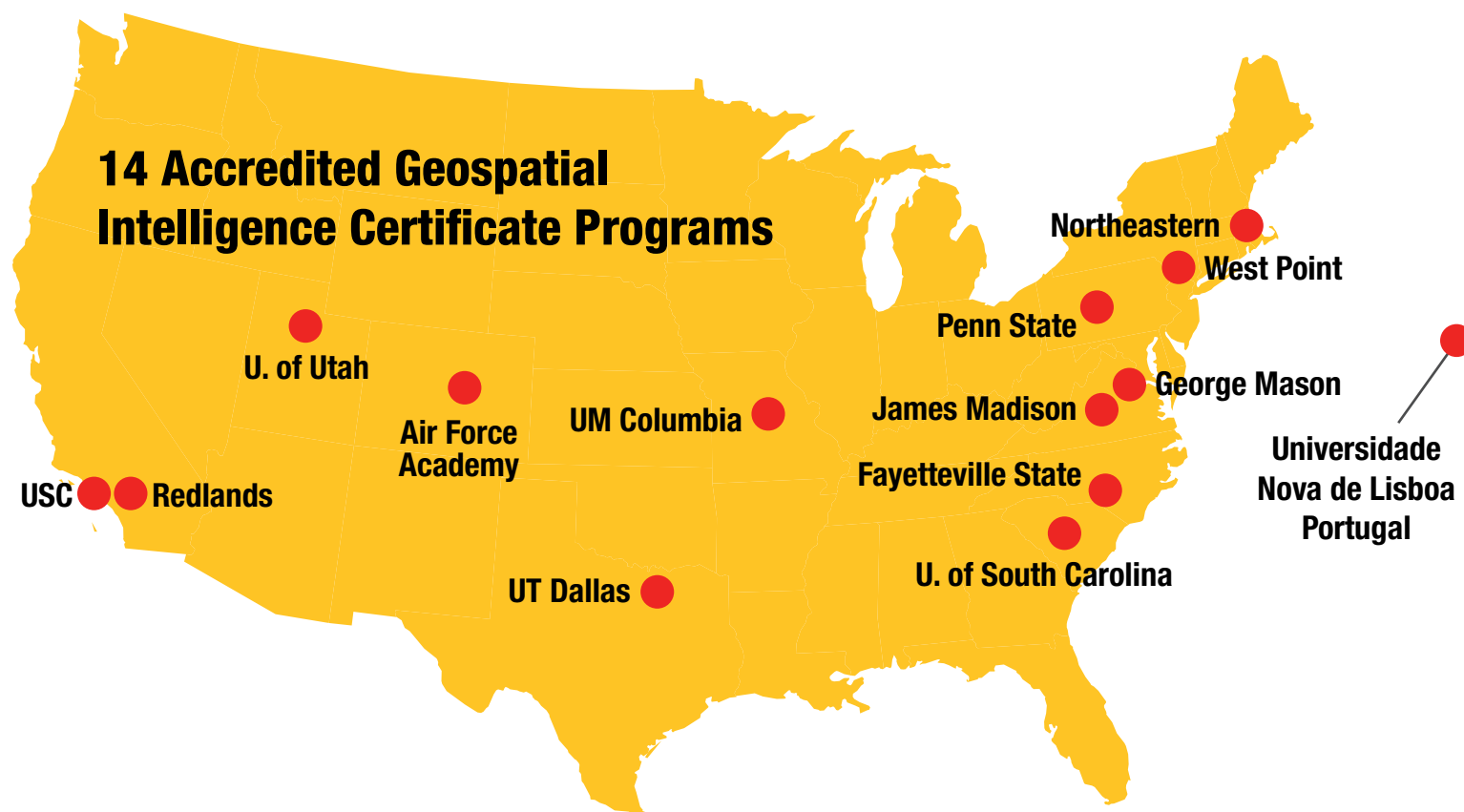


Representatives from West Point and NOVA IMS receive their renewed certificates of academic accreditation.

USGIF Collegiate Accreditation Program

The Collegiate Accreditation Program creates a pathway for undergraduate and graduate students to gain necessary knowledge and skills to contribute to the GEOINT Community. Students graduating from the program receive an academic GEOINT Certificate, giving them a competitive advantage in the job market. In 2017, USGIF:

- Renewed academic accreditation for NOVA IMS and West Point.
- Launched an essay challenge with NVIDIA and awarded Titan Xp GPUs to:
 - University of Southern California
 - University of South Carolina
 - U.S. Military Academy at West Point
- Donated 166 Maptitude software licenses from Caliper Corp. to students and faculty at USGIF partner schools.
- Partnered with Hexagon Geospatial to provide free software licenses and technical support to all 14 USGIF-accredited academic programs.



In 2017, **87 students** earned a USGIF GEOINT Certificate from an accredited school, bringing the total to **more than 820 students holding USGIF academic certificates.**

"Before learning of this program, I was at odds at what exactly I wanted to major in as well as what career I wished to pursue; however, after diving into the program, I learned of a new outlook regarding technology itself and discovered the path I wanted to take: Geospatial Intelligence Analysis."

- TyRik Thompson, Fayetteville State University

USGIF Scholarship Program

The annual USGIF Scholarship Program recognizes the achievements of graduating high school seniors, undergraduate, graduate, and doctoral students studying geospatial sciences and related disciplines.

2017 USGIF SCHOLARSHIP WINNERS

K. Stuart Shea USGIF Endowed Scholarship

Announced during the GEOINT 2017 Symposium, this new scholarship honors USGIF Founder K. Stuart Shea, and will be awarded annually to Ph.D. students studying cartography, geography, or imaging science starting in 2018.

DOCTORATE



Michael Brady
Rutgers University



Cara Murphy
Rochester Institute of Technology

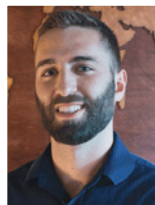


Carolyn Fish
Pennsylvania State University

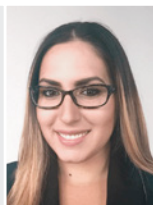


James Walker
University of California, Los Angeles

GRADUATE



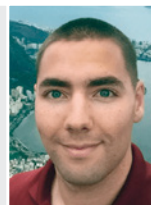
Andrew Knight
University of Georgia



Roxanne Ahmadi
Pennsylvania State University



Jace Ebben
Pennsylvania State University



Travis Meyer
Pennsylvania State University

**\$10K KEN MILLER
SCHOLARSHIP FOR
ADVANCED REMOTE
SENSING APPLICATIONS**



Colin Bunker
Ohio State University



Linnea Johnson
George Washington University



Andrew Ryan
George Mason University



Courtney Connor
Middlebury Institute of International Studies



Phil McTigue
Northeastern University



Jesse Sprague
University of New Mexico

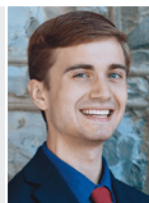
USGIF awarded **\$117,000** in scholarship funds in 2017.

UNDERGRADUATE

More than
\$1.1 million
has been
awarded since
the program
began in 2004.



Luke DeJong
*American Military
University*



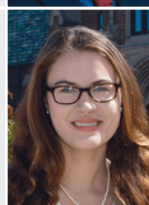
Daniel Gurley
James Madison University



Emma McFee
University of Utah



Norman Dela Fuente
*University of California,
Los Angeles*



Erin Manth
Mercyhurst University



Elijah Staple
*University of Colorado
Boulder*

“Receiving the USGIF scholarship has relieved a large financial burden placed on my family by the expenses [associated with] attending college. I am also very humbled to have been recognized by such a prestigious foundation in my field. Receiving this scholarship provides me encouragement and confirmation that I am heading in the right direction. Thank you so much for your generosity and for investing in the lives of college students.”

– Emma McFee, University of Utah, 2017 Undergraduate Scholarship Winner

GRADUATING HIGH SCHOOL SENIORS



Robert Cordts
James Madison University



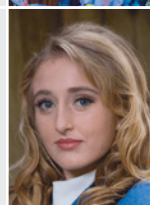
Lily Jenkins
*University of North
Carolina at Chapel Hill*



Joshua Orteza
University of Florida



Caitlin Gormley
University of Toronto



Haley King
George Mason University



Timothy Vrakas
Stanford University

USGIF partnered with
Organizational Member
Harris Geospatial
Solutions to grant
12-month student
ENVI+IDL licenses
to the 2017 USGIF
scholarship recipients.

Professional Development

Universal GEOINT Certification Program

Celebrating its one-year anniversary in 2017, the Universal GEOINT Certification Program is the gold standard for professional certification in the U.S. GEOINT Community and around the world. The professional designations, GIS & Analysis Tools (CGP-G), Remote Sensing & Imagery Analysis (CGP-R), and Geospatial Data Management (CGP-D), prove a deep and balanced understanding of the GEOINT tradecraft. For those practitioners who wish to truly distinguish themselves and demonstrate a broad understanding of the global GEOINT tradecraft, there is the Universal GEOINT Professional (UGP) designation.

In 2017:

- USGIF's Certified GEOINT Professional (CGP) certifications were granted accreditation by the National Commission for Certifying Agencies (NCCA).
- USGIF conducted certification testing during the Esri User Conference in addition to offering it at testing centers.
- USGIF engaged ITPG, a firm with a proven track record in growing valuable certification programs.



USGIF held a joint Certification Governance Board & Academic Advisory Board dinner meeting during GEOINT 2017, with more than 30 participants, including Five Eyes representatives from the United States, Australia, Canada, and the United Kingdom, as well as the U.S. Marine Corps, the U.S. Army, and NGA.



Certification Boot Camp

To help review and prepare for the Certified GEOINT Professional exams, USGIF is building three boot camps. The Foundation held a free GIS & Analysis Tools beta boot camp in September for 30 participants. All participants also sat for the CGP-G exam. The GIS & Analysis Tools boot camp is set to launch in 2018, with the other CGP certification boot camps to be released later in the year.

"Geospatial technology is ubiquitous and many organizations have varying levels of understanding as to what geospatial intelligence is. Not only has USGIF set a standard, but it cuts across organizations and industries by providing independent and unbiased verification of one's geospatial knowledge."

- Christopher Stahl, UGP; U.S. Army TENCAP

Essential Body of Knowledge Refresh

USGIF initiated a review of the GEOINT Essential Body of Knowledge (EBK) to identify changes, make improvements, and track emerging trends for future inclusion. Implementation of the EBK updates is expected by mid-2018.

Training

USGIF offers training opportunities to help GEOINT professionals increase their professional development and better understand aspects of the GEOINT tradecraft.

- 990 people attended training sessions during the GEOINT 2017 Symposium.
- 27 courses were offered for a total of 54 hours of training.

“Providing a training session during the GEOINT Symposium not only created an opportunity to share marketplace leading practices, tools and techniques but also provided a forum for talking about real challenges and the application of these tools to advance mission progress.”

– Ben Tinker, OGSystems

On the Road Again...

USGIF education and professional development staff spoke at a number of events and educational venues in 2017:

- GEOINT at Historically Black Colleges and Universities Summit, Tuskegee University, Tuskegee, Ala.
- ArdentMC's internal professional development training
- University Of Maryland, College Park, Md.
- North Carolina Central University, Durham, N.C.
- Esri's Imagery Education Summit, Redlands, Calif.
- The American Society of Photogrammetry and Remote Sensing (ASPRS) Imaging & Geospatial Technology Forum (IGTF), Baltimore, Md.
- National Security Conference, Lisbon, Portugal
- James Madison University, Harrisburg, Va.
- 2017 American Association of Geographers (AAG) Annual Meeting, Boston, Mass.
- The National Alliance for Public Safety GIS (NAPSG) Conference, Tuscaloosa, Ala.
- Geography 2050, Columbia University, New York, N.Y.

The GEOINT at Historically Black Colleges and Universities Summit, Tuskegee University, Tuskegee, Ala.



Events

Providing forums for teaching, learning, and networking is at the core of who we are as an organization. USGIF produces a number of events throughout the year that reach thousands of constituents.



The annual GEOINT Community Job Fair provided a free opportunity for 292 job seekers to directly connect with 32 employers in the defense, intelligence, and homeland security communities.



Dozens of speakers from government and industry discussed solutions for analyzing the exponentially growing mountain of big data derived from small satellite imagery. The group of 272 attendees heard from NGA, U.S. Southern Command, and several industry leaders.



This workshop attracted 286 attendees to hear from NGA, IARPA, JIDO, and others. The workshop also featured flash talks from a variety of universities and companies, an In-Q-Tel brief on natural language processing, and an update on the collaborative SpaceNet Challenge.



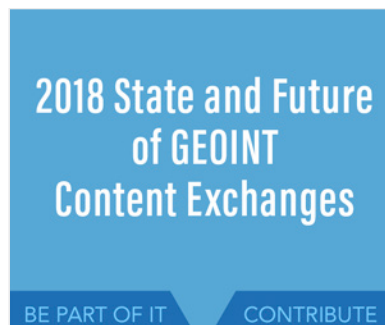
The Sneak Peek provided a preview of the GEOINT 2017 Symposium. Government leaders talked about their agencies' plans for the upcoming Symposium. Close to 100 attendees networked, enjoyed breakfast, and heard from NGA's Robert Cardillo and Dustin Gard-Weiss as well as DIA's Terry Busch.



Held as a follow-on to an NGA and Oak Ridge National Laboratory Geocomputation Summit, the breakfast was a forum to ask questions and discuss GEOINT data challenges that will drive high-performance computing.



USGIF hosted 96 players for an afternoon of golfing and networking in support of the Foundation's educational activities.



In four unclassified sessions held in Fairfax, Va., Denver, St. Louis, and Los Angeles, 115 participants discussed GEOINT trends and challenges. USGIF for the first time also released a call for abstracts beyond the in-person meetings. Teams self-selected to refine and write articles for inclusion in the 2018 report. Additionally, USGIF this year enlisted Community subject matter experts to constructively critique articles prior to publication in a peer review-like manner.

USGIF Workshops attracted more than **850 attendees** throughout 2017.

More than **1,100 attendees** participated in GEOINT Community Week.



Structured as an interactive forum for leaders in GEOINT higher education, the Summit brought together nearly 30 members of academia to discuss ideas, resources, achievements, and challenges.



NGA Tech Showcase East was a full-day, classified event offering 147 attendees the opportunity to listen to briefings and see 25 demos inside and around NGA Campus East facilities and workspaces.

GEOINT Community Week



Held in St. Louis, Tech West events brought together more than 350 attendees to discuss the many opportunities presented by the city's growing GEOINT industry and NGA's planned new campus in North St. Louis. Day one included the unclassified Technology Cluster Forum held at T-REX. The classified second day featured 25 technology demos at NGA Campus West.



The Geospatial & Remote Sensing Law Working Group offered its annual free, half-day program on legal and policy matters critical to the GEOINT Community. Attendees heard panels on topics such as: Protecting the Supply Chain, Small Satellite Regulatory Issues, and NOAA's Commercial Remote Sensing Regulatory Affairs.



The annual black-tie event brings together more than 500 leaders from across the Defense, Intelligence, and Homeland Security Communities with USGIF Organizational Members, Individual Members, Foundation partners, and their guests for a night of exchanging ideas, reconnecting, and celebrating.

GEOINT Community Week



Held bi-monthly, GEOINTeraction Tuesday is a casual networking event featuring a guest speaker, which attracts more than 100 attendees from across the GEOINT Community.



This workshop addressed the hot topic for the second time in 2017. Dozens of experts gathered to discuss with 283 attendees the challenges and opportunities presented by intelligent technology.

GEOINT Community Week

GEOINTeraction Tuesday Speakers

January - Dr. David A. Honey, Assistant Deputy Director of National Intelligence for Science and Technology, ODNI

March - David Lilley Jr., acting Director of the Geospatial Management Office (GMO), U.S. Department of Homeland Security

May - Dr. Lee Schwartz, geographer of the United States, U.S. Department of State

July - Pino Nobile, head of the Geospatial Section at the NATO Headquarters Situation Centre (during the Esri User Conference)

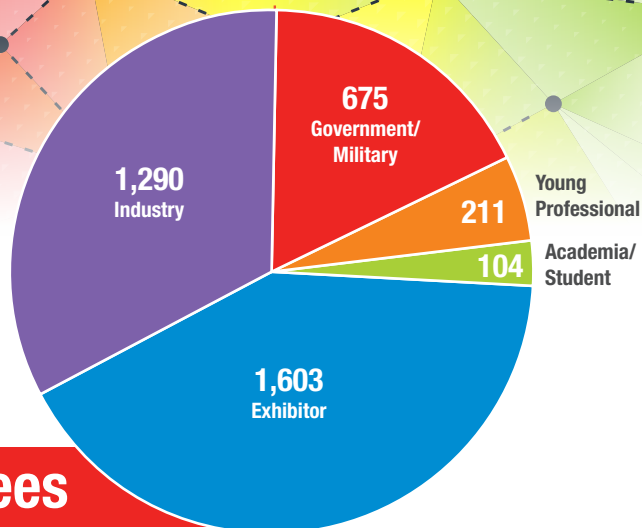
September - Kristin St. Peter, Deputy Director for Plans and Programs, NGA

November - Dr. Anthony Vinci, Associate Director for Capabilities, NGA (during GEOINT Community Week)

Advancing Capabilities to Meet **Emerging Threats**

June 4-7 - San Antonio, Texas

The 2017 Symposium focused on how next generation capabilities and processes—such as machine learning and artificial intelligence, cloud computing, agile and enterprise acquisition efforts, object-based production, and change detection are shaping the face of geospatial intelligence and analysis.



3,883 attendees

Top three reasons for attending GEOINT 2017:

- To network with colleagues
- To benefit from the keynotes, panel sessions, and breakouts
- To learn about new technologies and analytical capabilities



Attendees included more than 200 representatives from NGA as well as members from each branch of the U.S. military, and employees from the U.S. State Department, the U.S. Geological Survey, the U.S. Census Bureau, U.S. Transportation Command, the U.S. Department of Agriculture, and more.

Included international participation from 34 countries



WHAT WE LEARNED ABOUT THE CHANGING ANALYTICAL LANDSCAPE



GEOINT Foreword

The pre-symposium science and technology day, GEOINT Foreword attracted 635 attendees and featured presentations from DARPA, IARPA, NGA Research, and four Department of Defense-sponsored University Affiliated Research Centers.

- 240 exhibitors and 66 sponsors
- Nearly 100,000 square feet of exhibit space
- 91% plan to exhibit at GEOINT 2018
- Featured the Government Pavilion Stage which included 11 sessions with more than 20 government speakers



"I find the annual GEOINT Symposium to be extremely valuable for keeping up with fast-changing technology, as well as getting ideas and inspiration to bring back to my students, who hope to work in this field."

- Dr. Timothy Walton, James Madison University



Trajectory magazine's award-winning Show Daily produced 106 pages of content in 5 days. Trajectory on Location produced 36 videos that were viewed more than 2,000 times.

97% of attendees would recommend the GEOINT Symposium to a friend/colleague.



"To be able to understand what [DoD and IC] needs are and put that together with the kinds of research and development capabilities within the civil community is of enormous benefit to the American taxpayer."

—DR. SUZETTE KIMBALL, DIRECTOR, CIVIL APPLICATIONS COMMITTEE

USGIF Young Professionals Group

The Young Professionals Group (YPG) serves to unite GEOINT professionals in the early stages of their career. YPG offers programs that parallel the Foundation's mission and are tailored to the unique needs of the younger workforce.



2017 in Review:

- Initiated the Intelligence Mentoring for Professional Advancement and Career Training (IMPACT) program with a panel presentation at GEOINT 2017 and a planned rollout in 2018.
- Hosted 101 classes for topics in Acquisitions and Small Sats to discuss current and future trends for government and industry.
- Created socials with Esri's Young Professionals Network.
- Judged the Fairfax County Science High School's Science Fair and awarded \$600 to winners.
- Delivered YPG's first "Tech Talk" in St. Louis, titled "The Road to Sub-Meter Digital Elevation Modeled Surfaces," to kick off USGIF's Tech Showcase West.
- Participated on career panels for high school and college student audiences through George Mason University programs.
- Exhibited at the International Spy Museum's annual Spy Fest.
- Led a geocaching activity with local San Antonio Boy Scouts during GEOINT 2017, earning the scouts a geocaching merit badge.



GEOINT 2017 Symposium Golden Ticket Program

The YPG selected 26 individuals from 19 organizations for the GEOINT 2017 Symposium Golden Ticket Program. Since it began seven years ago, the program has helped 125 young professionals who might not otherwise have the opportunity to attend the Symposium and gain face-to-face time with industry leaders.

"The part I found the most beneficial was meeting the handful of professionals who shared their experiences and offered more than just encouragement, but actual engagement following the Symposium."

– Anonymous Survey Respondent



INVOLVEMENT



Volunteers outline articles in a content exchange for the 2018 State of Future of GEOINT report.

Committees

USGIF members make up and direct six committees, with the exception of the Strategic Committee, which is led by the USGIF CEO and comprises only Strategic Member Partner representatives. These committees make decisions regarding all USGIF events, as well as the Scholarship Program, GEOINT Certification Program, and Awards Program.

Academic Committee

The Academic Committee is responsible for USGIF's educational initiatives. In addition to providing scholarships, the committee spearheads USGIF's Collegiate Accreditation program.

USGIF Academic Advisory Board Members:

- Dr. Todd S. Bacastow, Penn State World Campus – Board Chair
- Dr. Budhendra Bhaduri, Oak Ridge National Laboratory
- David DiBiase, Esri
- Col. Steven D. Fleming, University of Southern California
- Dr. Joseph F. Fontanella, U.S. Army Corps of Engineers
- Dr. Daniel W. Goldberg, Texas A&M GeolInnovation Service Center
- Lt. Col. Ian J. Irmischer, Ph.D., United States Military Academy
- Dr. Shawn Kalis, Riverside Research
- Karen Kemp, University of Southern California
- Dr. Rakesh Malhotra, North Carolina Central University
- Dr. Colleen McCue, CACI – National Services
- Dr. David Messinger, Rochester Institute of Technology
- Sherry Olson, MITRE
- Dr. Anthony Stefanidis, George Mason University
- E. Lynn Usery, U.S. Geological Survey
- May Yuan, University of Texas at Dallas

Outreach Committee

The Outreach Committee is responsible for delivering USGIF's message to public and private partners as well as to policy and decision-makers. The Outreach Committee oversees Congressional education initiatives, the Interagency Working Group, and the USGIF Awards Subcommittee.

Planning Committee

The Planning Committee is responsible for overseeing all USGIF events, to include the GEOINT Symposium, GEOINT Community Week, the USGIF Workshop Series, GEOINteraction Tuesdays, and more. Volunteers select which programs they feel strongly about and assist in identifying topics, confirming participants, and working with speakers.

Strategic Committee

The Strategic Committee sets the direction of the Foundation and is composed of Strategic Partner Member representatives. Subject to oversight by the Board of Directors, this committee researches and recommends areas of strategic opportunity for Foundation operations.

Technical Committee

Chairs: Barry Barlow (Vencore) & Robert Mott (Hexagon U.S. Federal)

The Technical Committee identifies emerging trends and is a collection point for community needs, developing technical aspects of the tradecraft to demonstrate true interoperability from common community standards. Subcommittees include the Interoperability Outreach Subcommittee and the Emerging Technologies Subcommittee.

Tradecraft and Professional Development Committee

Chairs: Mike Hauck (Consultant) & Renard Paulin (Octo Consulting Group)

The Tradecraft and Professional Development Committee determines the basic and advanced qualifications for GEOINT professionals and assesses education and training programs, which prepare individuals for entry into or advancement in the profession. Additionally, the committee assists with USGIF's Universal GEOINT Certification Program.

- Participated in developing a portion of the GEOINT Foreword agenda and established a planning committee for 2018.
- Developed content for a webpage aimed at educating employment recruiters about GEOINT and geospatial skills. It also outlines the geospatial-related certifications USGIF offers and how those certifications can help current and future employees advance their skill set.
- Received Penn State briefing on overseas GEOINT tradecraft and provided feedback and insight.
- Coordinated with USGIF's NGA Advisory Working Group on business aspects of tradecraft to make smarter contracts.

The Planning Committee helped organize more than 25 events in 2017.

Working Groups

Working Groups are one of several ways for employees of USGIF Member Organizations and Individual USGIF Members to get involved with the Foundation and contribute to advancing the tradecraft.

Analytic Modernization

Chairs: Jacqueline Barbieri (Whitespace Solutions) & John Delay (Harris)

In 2017, the Activity-Based Intelligence (ABI) Working Group expanded its focus to be more inclusive of emerging and complementary analytic modernization efforts across the GEOINT Community. To reflect this shift, the ABI WG chose to transition its title to the Analytic Modernization (AMOD) Working Group. The AMOD WG was established to identify key initiatives and issues related to analytic modernization and to enhance communications on this topic.

- In May, the group held a session with the House Permanent Select Committee on Intelligence (HPSCI) staffers at which staffers were provided with perspectives and feedback on the state of ABI. This has since resulted in a new relationship between the working group and HPSCI staff.
- At GEOINT 2017, the working group held one session with NSA personnel on what they were looking to accomplish at the conference, and a second “Visioneering” session sought to define analytic modernization and expose key components, roadblocks, and opportunities facing the community.

Geospatial and Remote Sensing Law

Chairs: Gary Campbell (PepperLaw) & Bob Strauss (Raytheon)

The Geospatial and Remote Sensing Law Working Group aims to educate its members on legal issues and developments related to geospatial information. Membership for this working group is in-house counsel or legal representation for USGIF Member organizations.

- Held a discussion at GEOINT 2017 covering the new Defense Federal Acquisition Regulation (DFAR) data protection rules, sharing data under the EU Privacy Rules application of Privacy Shield, and NOAA licensing requirements for Small Sat Imagery Collection.
- Initiated short presentations to include topics on developments in licensing/acquisition of commercial software under FAR part 12, parameters of corrective actions in GAO bid protests, and FOIA Exemption 4, including the impact of the FOIA Improvement Act of 2016.
- Hosted the group’s annual Geospatial and Remote Sensing Law Workshop in December.

Machine Learning and Artificial Intelligence

Chairs: Kevin Berce (NVIDIA), Ted Josue (Riverside Research)

& Mike Rampino (Consultant)

Launched in 2017, the MLAIWG plans to help the community capitalize on the meaningful advances already achieved in this area and support progress in tackling near-term hard problems through education, information sharing, workshops, forums, and other activities.

- The group held its first meeting in March and has since started four subcommittees.
- During GEOINT 2017, the MLAIWG held a panel on “The State of Machine Learning and Artificial Intelligence in GEOINT” with 200 attendees.
- To close out the year, the group hosted a workshop during GEOINT Community Week with more than 280 attendees.

NGA Advisory

Chairs: Jim Kwolek (Consultant) & Skip Miselli (Radiant Solutions)

The NAWG brings industry and academia together to advise, recommend, and promote actionable ideas to improve NGA’s acquisition processes. In 2017, the group grew by 5% and:

- Held a discussion at the GEOINT 2017 Symposium with the USGIF NRO ASP Industry Advisory Working Group on “Business Model Evolution to Meet Emerging Mission Needs.”
- Executed the initial baseline NGA/Industry Mock Acquisition Program (NIMAP) to increase transparency between industry and NGA activities throughout the contract procurement and acquisition process. The exercise yielded numerous “a-ha!” moments in which government and industry gained a better understanding of each other. NAWG recommended an “Initiatives Day” which NGA held in August.
- Re-engaged with the new DD/NGA, Justin Poole, who provided wider access to NGA, which includes contact with acquisition and operational leaders. NAWG and NGA are working on new topics and setting up a regular “skull session” with DD/NGA and his management team.

Working Groups have more than **150 USGIF members** who actively contribute and regularly participate.

NRO ASP Industry Advisory

Chair: Nick Buck (The Buck Group)

The NIAIWG brings together industry professionals from hardware, software, systems integrator, and SETA/FFRDC organizations to help the government achieve its agency transformation objectives.

- Participated in a joint session at GEOINT 2017 with USGIF's NAWG on "Business Model Evolution to Meet Emerging Mission Needs."
- Completed three reports: Software Development vs. Integration; COTS-GOTS-OSS Make-Buy Drivers; and Requirements: Over-ask vs. Under-ask.
- The Software Business 101 course curriculum was refined for staff coordination in the NRO. The group met with the NRO Acquisition Center of Excellence to discuss how this course curriculum could be presented to NRO PMs, COs, and COTRs at various venues.

Small Business Advisory

Chairs: Randy Brown (Intelligence Consulting Enterprise Solutions, Inc.), Kelly Allen (Allen Integrated Solutions) & John Hartman (H2M Group)

The SBAWG's primary objective is to assist small business members seeking to gain traction in the GEOINT market by facilitating opportunities to build relationships with the Intelligence Community, Department of Defense, civil agencies, prime contractors, and other small businesses.

- The group developed a white paper in close coordination with small businesses that provide or wish to provide services and products to the GEOINT Community. It outlines a series of small business challenges, impacts, and recommendations that can be used as a framework to increase small business support to NGA and enable the NGA Small Business Programs Office to meet the small business goals established for NGA by the Small Business Administration.
- And also held a Small Business Panel discussion on the White Paper during the GEOINT 2017 Symposium.

Small Satellite

Chairs: George Flick (Noblis) & Rob Zitz (SSL)

The Small Sat WG educates the USGIF stakeholder community on the user needs for and technical capabilities of small sats and associated tasking, processing, exploitation, and dissemination systems.

- Held a panel discussion at GEOINT 2017 titled, "Enabling the next generation of satellites: Policy and Programmatic Considerations."
- Hosted the Small Satellite 101 session with USGIF's YPG, which included international participation.
- Participated in a panel discussion at the Small Sats Conference in Utah.

St. Louis Area

Chairs: Justin Bennett (Geo Data IT), Andy Dearing (Boundless), Steve Thomas (Ball Aerospace) & Steve Wallach (SPWallach Consulting)

The SLAWG brings together professionals from the government (both NGA and local), military, industry, academia, and community to create lasting educational and community pathways to geospatial degrees, certifications, and/or careers in the St. Louis region.

- The group's first meeting attracted 50 attendees.
- The group created the following subcommittees:
 - Strategic Steering Subcommittee
 - Catalog of Resources Subcommittee
 - SLAWG Messaging Subcommittee
 - K-12 Sub Committee
 - Internship Subcommittee
 - Security Clearance Subcommittee
 - Entrepreneur Subcommittee

Young Professionals

Chairs: Bill Pillote (ISPA Technology) & Isaac Zaworski (VRICON)

The YPWG is dedicated to promoting, supporting, and encouraging active involvement in the GEOINT Community through the development of projects and activities for young professionals.

- YPWG planned at least one event per month in 2017 to include YPG Third Thursdays, the GEOINT 2017 Golden Ticket Program, participation in the International Spy Museum's Spy Fest, and a Toys for Tots drive.

OUTREACH & COMMUNITY ENGAGEMENT



2017 USGIF Award Winners

2017 Arthur C. Lundahl-Thomas C. Finnie Lifetime Achievement Award Recipient

The USGIF Board of Directors presents this award annually to an influential member of the GEOINT Community who has dedicated much of his or her life's work to the tradecraft. The 2017 recipient was Maj. Gen. (Ret.) Robert "Rosie" A. Rosenberg, former director of the Defense Mapping Agency (DMA). Rosenberg served 30 years in the U.S. Air Force and was instrumental in the U.S. satellite program. He participated in the initial development, testing, and launches of the Atlas-Agena reconnaissance satellite systems with the Air Force Ballistic Missile Division, and was the mission planner and targeteer for the GAMBIT reconnaissance satellite program. Rosenberg was director of DMA, a predecessor to NGA, from 1985 to 1987.

"What an unexpected and most humbling honor to be named as the Lundahl-Finnie Lifetime Award Winner at this year's GEOINT Symposium. Just to be honored in the name of these two great American patriots who so significantly contributed to the foundation of GEOINT."

– Maj. Gen. (Ret.) Robert "Rosie" A. Rosenberg



2017 Awards Program

The USGIF Awards Program annually recognizes the exceptional work of the geospatial intelligence tradecraft's brightest minds. The awards are presented during the GEOINT Symposium. Anyone in the Community may nominate an individual or a team for an achievement award.

ACADEMIC



DIRSIG Development Team,
Rochester Institute of Technology

COMMUNITY SUPPORT



Dyah Goodman and
Michael B. Mosteller, NGA

GOVERNMENT



NGB-J2 DAART Development Team,
National Guard Bureau

INDUSTRY



SpyMeSat Team, Orbit Logic

MILITARY



Canadian Armed Forces

K-12 STEM Education and Outreach

The Foundation's K-12 program aims to foster general awareness of GEOINT and the myriad career opportunities in the field.

Community STEM Events

USGIF participated in local events throughout the year that promote science, technology, engineering, and mathematics (STEM). Events include GeoPlunge tournaments, science fair judging, girls in STEM activities, and more.



USGIF awarded \$850 in prizes for outstanding geospatial science fair projects.



Learning Materials for Classrooms

Intro to GEOINT Pilot Curriculum

USGIF partnered with Kilmer Middle School in Vienna, Va., to provide lesson plans on different GEOINT topics from November 2017 to January 2018. Topics included maps, satellites, imagery analysis, GIS, unmanned systems, and remote sensing.

National Geographic Giant Traveling Maps

USGIF sent National Geographic's giant maps to various Virginia schools. The Foundation created activities on the giant map that taught students map reading, satellite imagery analysis, intelligence skills, and more.



USGIF shared the giant map experience with 555 students in 2017.



K-8 Program at GEOINT 2017

USGIF invited 43 San Antonio area K-8 students to experience GEOINT in action. This was the first dedicated K-8 educational outreach program at the GEOINT Symposium.

Activities included:

- National Geographic Giant Traveling Map of North America
- Exhibit hall booth tour
- A hands-on experience in the Unmanned Aerial Systems Demo Area
- A presentation by female government and industry leaders on STEM careers
- Girls Inc. participated in an exclusive crowdsourcing workshop with DigitalGlobe and GlobalXplorer
- Girl Scouts & Boy Scouts earned merit badges for their participation

Intro to GEOINT

USGIF developed an “Intro to GEOINT” presentation geared toward students in grades 5-8. It provides an interactive overview of GEOINT—geography, maps, satellites, imagery, remote sensing, GIS, and careers. USGIF staff as well as dedicated volunteers took the presentation to schools across the country.



Loudoun County Partner in Education

USGIF was named a Loudoun County Partner in Education Award recipient for its school-business partnership with Moorefield Station Elementary School in Ashburn, Va.

Special Thanks to the Partners Who Supported USGIF's K-12 Activities in 2017

AECOM
AGI
BAE Systems
DigitalGlobe

Esri
GlobalXplorer
LGS Innovations
Raytheon

GEOINT 2017 Symposium Student Assistant Program



Colin Johnson represents Northeastern University as a student assistant.

The student assistant program is a fantastic opportunity for students from USGIF-accredited or affiliated schools to experience the GEOINT Symposium. These volunteers assisted with training, answering attendee questions, and more. Students also had the opportunity each day to attend Symposium events as well as network and engage with GEOINT professionals.

USGIF hosted 16 volunteers from 11 schools at the GEOINT 2017 Symposium

SCHOOLS REPRESENTED

Fayetteville State University	University of Redlands
James Madison University	Texas State University
Northeastern University	University of South Carolina
NOVA Information Management School,	University of Southern California
Universidade Nova de Lisbon	University of Utah
Pennsylvania State University	Virginia Polytechnic Institute and State University

Externship Program



In the summer of 2017, USGIF hosted eight students from Gettysburg College, James Madison University, George Mason University, and the University of California, Berkeley for a nonprofit association and GEOINT overview. Those interested in nonprofits learned how to create a nonprofit entity, how USGIF grew from an idea into a 501(c)(3) educational nonprofit, and the skills needed to both build and lead nonprofits and associations. Those interested in GEOINT were taken on trips to small, medium, and large companies, and different government agencies to gain a better understanding of the GEOINT Community, the skills needed to perform in the industry, and technologies used in the past, present, and near future.

Katherine (Kate) Cavanaugh (pictured on the far right), a 2016 Environmental Studies graduate from Gettysburg College, was chosen as a GEOINT Symposium extern. Cavanaugh attended the GEOINT 2017 Symposium, where she worked as a personal assistant to USGIF CEO Keith Masback. Through the externship, she had the opportunity to meet Intelligence Community leaders and learn about career possibilities in the field.

"Externing for Keith at the USGIF GEOINT Symposium was an incredible experience. Not only did I get to help with the setup of meetings between USGIF and partner organizations, but I was asked to sit in on those meetings and provide my own feedback. I was given the opportunity to meet the leaders in the geospatial community, leaders whose software and products I use every day at work. I couldn't stop smiling throughout the entire symposium, and am so grateful that I had the opportunity to see how many communities GEOINT touches."

- Kate Cavanaugh, GEOINT Symposium extern



Keeping up with USGIF CEO Keith Masback

- Reappointed as vice chair of the National Geospatial Advisory Committee

- ASPRS IGTF, keynote

- Special Operations Warrior Foundation, University of Tampa, talk with students

- Army Engineers Association event, panelist

- Pitney Bowes' Li360 Geography Week, webinar presenter
- Spy Museum Podcast interviewee: "Everything You Wanted to Know About GEOINT but Were Afraid to Ask"
- George Mason University GIS Day, keynote

JANUARY

- Esri Fed GIS, panelist
- Global SOF Symposium, panel moderator
- NC GIS Conference, presentation
- 2017 National States Geographic Information Council midyear meeting, keynote

FEBRUARY

MARCH

APRIL

- GXP 360, keynote
- Map and Geographic Information Round Table of the American Library Association and the Western Association of Map Libraries, webinar presenter

MAY

JUNE

JULY

- Appointed to the International Spy Museum's Advisory Board
- Esri UC Defense and Intelligence Summit, panel moderator

AUGUST

SEPTEMBER

OCTOBER

NOVEMBER

DECEMBER

- George Mason University, talk with students

"Mr. Masback provided an informative and relatable introduction to the session, then led a multi-faceted discussion that surely left the audience with a greater understanding of GEOINT and its impact on the Special Operations Community."

- Chelsea Hamashin, 2017 Global SOF Symposium

In Other USGIF News

- USGIF launched the St. Louis Initiative and Working Group.
- Dr. Camelia Kantor joined the USGIF team.
- Dr. Camelia Kantor's article on *Climate Change Influence on Agriculture and the Water-Energy-Food Nexus in Central and Eastern European Countries* was published in *Notulae Scientia Biologicae*.
- Dr. Darryl Murdock participated regularly in the Civil Applications Committee (CAC) meetings as an invited observer representing USGIF.
- USGIF participated in GIS Day events at George Mason University and a local GeoPlunge Tournament.
- The Foundation was awarded an honorable mention in the fundraising campaign category in PR Daily's 2017 Nonprofit PR Awards for the 2016 EdGEOcation Giving Campaign.
- USGIF sponsored or exhibited at:
 - 2017 Esri Federal GIS Conference
 - ASPRS IGTF 2017
 - National Geospatial Preparedness Summit
 - TUGis: Maryland's Geospatial Conference
 - CA Government Summit
 - Esri User Conference
 - Geography 2050



FUNDRAISING



USGIF staff attends a CFC charity fair to promote the Foundation's EdGEOcation Giving Campaign.

EdGEOcation Giving Fund

The giving fund is a way for GEOINT supporters to give back and support USGIF's K-12 educational programming. Donations are accepted via The Combined Federal Campaign National Capital Area (CFCNCA), PayPal, USGIF's Connect Online Store, cash/check, text-to-give, onsite at USGIF events, and AmazonSmile.

Donations Directly Support

- Providing Intro to GEOINT presentation material to classrooms
- Sponsoring STEM events and judging science fairs
- Developing and delivering learning materials for broad use
- Purchasing and donating earth science and geography materials to underserved schools
- Collaborating with USGIF Organizational Members and Partners to provide hands-on learning activities

2017 Giving Campaign

In October, USGIF launched the second EdGEOcation Giving Campaign in support of USGIF's K-12 educational programs. The campaign ran from October 2017 to January 2018 and **raised \$8,114.31**.



#Give4GeoEd

The Giving Fund Raised \$15,774 in 2017



Donations directly support USGIF's educational programming.



Raymond Ivie, representing LGS Innovations, generously donated \$7,500 and presented the check at GEOINT 2017.

USGIF participated in these CFCNCA charity fairs



PUBLICATIONS

18,000+ receive the *trajectory* newsletter
15,000+ subscribe to the print edition of
trajectory magazine



State and Future of GEOINT Report

USGIF's annual State and Future of GEOINT report is intended to foster knowledge sharing and discussion about both the short- and long-term future of the global GEOINT Community. This unclassified document is written by groups of volunteer authors, who participated in Content Exchanges in Fairfax, Va., Denver, and St. Louis. The 2017 report featured 13 articles by 45 authors representing 37 organizations.

Trajectory

Trajectory, the official magazine of USGIF, is a multi-channel content platform that strives to provide high-level thought leadership for USGIF members and the broad, global GEOINT Community. In 2017:

- 260 articles were posted on the *trajectory* website.
- The website had nearly 70,000 visits in 2017 by approximately 45,000 users.
- The most popular online article was “Enabling Rapid Response.”
- *Trajectorymagazine.com* re-launched to be responsive across all mobile devices in addition to desktop computers.
- *Trajectory* was awarded an honorable mention in the print publication category in PR Daily's 2017 Nonprofit PR Awards.

As a result of reading *trajectory*:

- 49% of readers have attended a USGIF event
- 35% of readers have recommended USGIF membership to a colleague
- 63% of readers discussed or shared an article with a colleague



In 2017, USGIF published its **first *trajectory* special edition**, which focused on the theme of public safety and included features on policing, fire, EMS, data sharing, and more.

Trajectory won an Association Media & Publishing award for its feature article “Modern Slavery,” which explored the role of GEOINT in the fight against human trafficking.

FINANCIAL REPORT



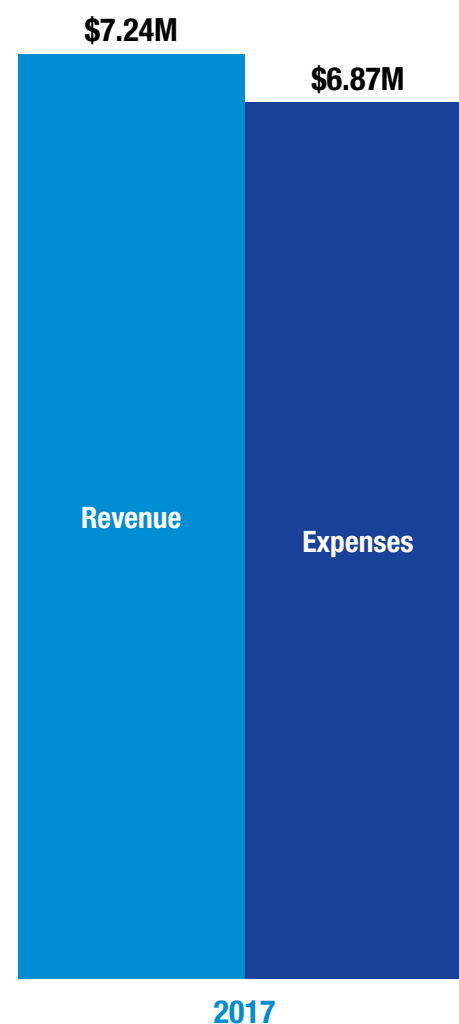
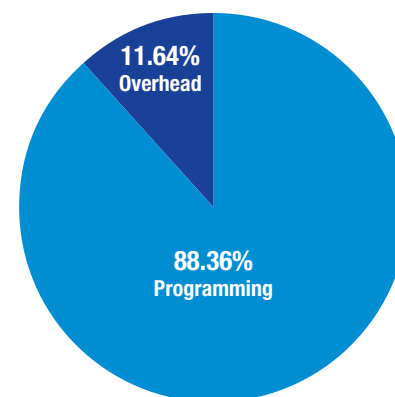
USGIF staff manage onsite event registration.

Financial Report

Revenue & Expenses

For fiscal 2017, ending June 30, 2017, USGIF saw membership increase as well as associated revenues, and this also factored into a slight increase in symposium revenues. A less expensive host city and venue for the GEOINT Symposium was a significant factor in total program services expenses, allowing USGIF to provide a similar number of programs throughout the year at a similar total expenditure.

Year Ended June 30, 2017	2017	2016
Revenue		
Convention and trade show	\$5,656,241	\$5,427,752
Membership dues	1,373,676	1,225,325
<i>trajectory</i> magazine	211,276	272,750
Other revenue	6,631	6,331
Total revenue	7,247,824	6,932,158
Expense		
Program services		
Convention and trade show	5,855,769	5,951,715
<i>trajectory</i> magazine	285,490	258,521
Total program services	6,141,259	6,210,236
Supporting services		
General and administrative	735,766	648,092
Total expense	6,877,025	6,858,328
Change in net assets before investment income	370,799	73,830
Investment income	34,174	20,653
Change in net assets	404,973	94,483
Net assets, beginning of year	2,948,624	2,854,141
Net assets, end of year	\$3,353,597	\$2,948,624



*USGIF's fiscal calendar ends June 30; FY17 financials are reported for July 1, 2016, through June 30, 2017.

MEMBERSHIP



“Woolpert’s membership with USGIF has provided us with a great deal of networking opportunities with government officials and other members, educational advances, and the opportunity to showcase our capabilities to the industry. Woolpert has greatly benefited by being a member of this organization.”

– Joseph Seppi, Woolpert

“USGIF provides an outstanding opportunity for business-to-business networking across the GEOINT Community of Interest. Participation in events and committees offers a fantastic venue to connect with like-minded professionals.”

– Gary Rogers, Individual Member

“USGIF has aided us in many opportunities to get involved in the community and with extending our network. GEOINT is the highlight of our year at this company, we enjoy the networking opportunities, the wonderful speakers, and the ability to see the future of the industry.”

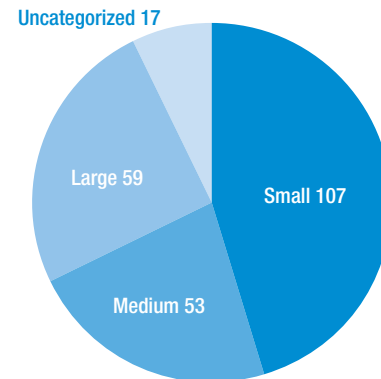
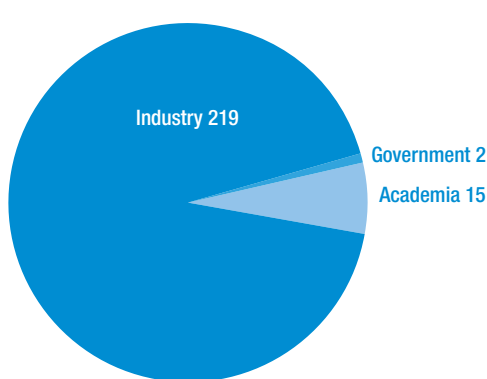
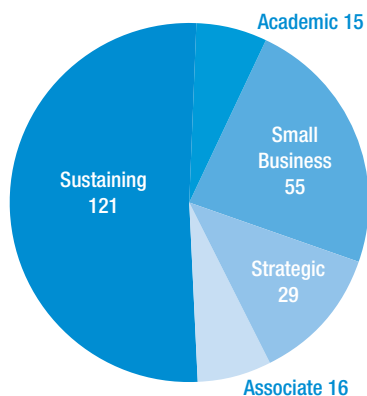
– Danny Rajan, SDL Government

Organizational & Individual Membership

USGIF offers organizational and individual membership, each of which provides its own unique set of benefits to different subsets of the GEOINT Community.

236 Organizational Members

Organizations seeking to establish themselves as thought leaders in the GEOINT industry, raise brand awareness, or participate in the GEOINT Symposium are well served by becoming organizational members.

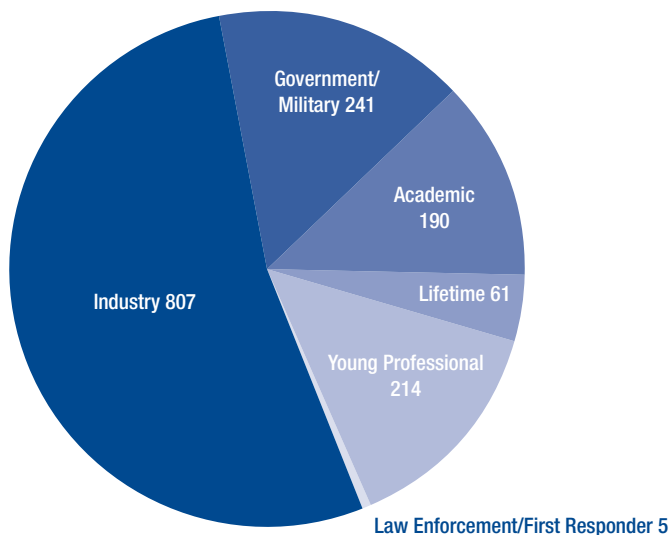


Top Organizational Capabilities

Cloud Computing Services & Support Consulting Computers/Software Visualization Software
 Geospatial Software Analytic Software **Data Management** Mapping/Geospatial Data
 Analytic Data Visualization Geographic Information Systems Data Science

1,518 Individual Members

Individual membership provides opportunities to network, stay informed of the latest industry trends, and receive discounted or complimentary event attendance.



*All membership data as of January 1, 2018.

Organizational Members

STRATEGIC PARTNER

					
	Booz Allen Hamilton				
					
					
					

ASSOCIATE PARTNER

AECOM
AT&T Global Public Sector
Dell EMC
Deloitte
H2M Group
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InTec LLC
Integrity Applications Incorporated (IAI)
NT Concepts
Planet
SAP National Security Services (SAP NS2)
SDL Government
Solers Inc.
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SUSTAINING PARTNER

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Applied Imagery
Basis Technology
BlackSky
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CSRA
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Cubic Global Defense
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Dewberry
DLT Solutions
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Dynamic Graphics Inc.
e-GEOS
Eagle Ray

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Envitia
Euroconsult USA
F5 Networks Inc.
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Hexagon Geospatial
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Japan Maintenance & Operation Service Corporation

Keeper Technology
 Kongsberg Geospatial
 LGS Innovations
 Live Earth
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 Luciad
 ManTech
 Mapbox
 MapLarge
 MapR Technologies
 MarkLogic Corp.
 Mellanox Federal Systems
 Micron Technology
 NetApp
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 Noblis
 NVIDIA Corp.
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 OpenText
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 Orbital Insight Inc.
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 PTFS
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SAIC
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 ViaSat
 ViON Corporation
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 World Wide Technology
 Zodiac Data Systems - Zodiac Aerospace

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 CCRi
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 DataRobot Inc.
 Descartes Labs
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 InQuisient
 Integrated Intel Solutions
 International Spy Museum
 ISPA Technology
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 Spaceknow Inc.
 Terran Orbital
 Tesla Government Inc.
 Tom Sawyer Software
 Trusted Knowledge Options Inc.
 Ursa Space Systems Inc.
 Video Inform
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ACADEMIC PARTNER

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 American Public University System
 Center for Geospatial Intelligence (CGI) - University of Missouri
 Delta State University
 George Mason University
 Georgia Tech Research Institute (GTRI)
 James Madison University
 Johns Hopkins University
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Office Manager

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Meeting & Events Manager

THANK YOU

for supporting USGIF through
your membership, donations,
sponsorships, volunteering, and
involvement. Our success is truly
a result of your commitment to
the GEOINT Community.



USGIF staff and interns at the 2017 GEOGala.



United States Geospatial Intelligence Foundation

Build the Community | Advance the Tradecraft | Accelerate Innovation

The only organization dedicated to promoting the geospatial intelligence tradecraft and building a stronger community of interest across industry, academia, government, professional organizations, and individuals.

2325 Dulles Corner Boulevard, Suite 450, Herndon, VA 20171 • 888.MY.USGIF • usgif.org

