KEEPING PACE WITH SPACE

The nation’s new space vision shoots for the Moon, Mars, and beyond. The expertise of industry and the passion of the public will help achieve this exciting plan … PAGE 8

FEATURES

AGI: BEST SMALL COMPANY IN U.S. … PAGE 3
AIR FORCE C4ISR FACILITY EMPLOYS STK … PAGE 4
NAVIGATION TOOL KIT LAUNCHED … PAGE 6
INTERNATIONAL PARTNERS GATHER … PAGE 10
AGI Joins GeoIntel Foundation; Graziani Elected to Board

AGI has joined the United States Geospatial Intelligence Foundation (USGIF), a nonprofit organization that brings together key players in the geospatial intelligence community to exchange ideas, promote the industry, and collaborate on a national geospatial intelligence agenda. Paul Graziani, AGI’s president and CEO, also serves on the foundation’s board of directors, where he was elected as a founding member.

“This is a great intelligence community effort and we’re excited to be a part of it,” says Graziani. “We believe AGI’s software and expertise will support the USGIF’s mission to advance cutting edge technologies that will keep the world safe and secure.”

Across the Board

In addition to Graziani, the USGIF’s board of directors, led by Chairman K. Stuart Shea, vice president, Northrop Grumman Information Technology, TASC, includes: Steven Jacques, Jacques & Associates, Inc.; Leo Hazelwood, Science Applications International Corporation (SAIC); Jack Dangermond, ESRI; Herbert Satterlee III, DigitalGlobe, Inc.; Dr. Michael Goodchild, University of California, Santa Barbara; Timothy Milovich, Questerra; Brig. Gen. Michael Lee, USAF (Ret.); IBM; Dr. James Myer, Photon Research Associates, Inc.; Arthur Grant, Raytheon; Board advisers to the USGIF are Lt. Gen. James Clapper, Jr., USAF (Ret.), National Geospatial-Intelligence Agency (NGA); and Joanne Isham, NGA.

Refer Friends and Win Cool Stuff!

Three STK users have received high-tech gadgets as part of AGI’s quarterly user referral program. SPARTA engineers/analysts Chris Gordon and Allan Jessup were the lucky recipients of iQue PDA/GPS receivers, and David Daniels, a database designer/developer for TYBRIN Corporation, won a Meade ETX-90EC telescope. Learn how you can get in on the user rewards at www.agi.com/referral.

AGI IS PROUD TO BE LISTED!

AGI was a sponsor of the Space Foundation’s “Space in the Classroom” event at Peterson Air Force Base, CO, on Sept. 17. The event featured space-related educational activities for 400 area students and their teachers. Dr. Salvatore Alfano, technical program manager for The Center for Space Standards & Innovation (CSSI), presented a paper on “Accommodating Rectangular Objects in Probability Calculations” at the AIAA/Guidance, Navigation, and Control Conference in August, while AGI hosted a session on orbital dynamics for conference attendees. John Carrico, senior astrodynamics specialist, presented the “Predictive Sensor Collection Utilizing ArcMap and STK Sensor Analyst” and “Geospatial Intelligence and Situational Awareness” sessions at the 2004 ESRI International User Conference. These papers and 30 others can be downloaded from www.agi.com/whitepapers.

AGI has been named to the 2004 Philadelphia 100, which recognizes the fastest growing privately held companies in the region. As a seven-time winner, AGI is one of the first companies to be inducted into the Philadelphia 100 Hall of Fame. Paul Graziani, AGI’s president and CEO, was named to Space News’ special report, “100 Who Made a Difference (1989-2004).” The report recognized those who had the greatest impact on the space community during that period. AGI board members Jeffrey Harris, president, Lockheed Martin Space Systems Co., Missiles & Space Operations; and Howell Estes III, president, Howell Estes & Associates, Inc.; also made the list.

CNN aired STK videos during the test launch of Scaled Composites’ SpaceShipOne and Cassini’s rendezvous with Saturn.
That’s a Wrap! The 2004 STK Users’ Conference Recap

For the third year, AGI held the STK Users’ Conference to share with current and future software users new ways to increase workplace productivity—whether they leverage AGI’s products for national defense programs, battlespace management, space control, space operations, or geospatial intelligence. Comprised of approximately 120 unique activities, AGI’s 2004 conference brought together attendees from 200 unique national security and space organizations in Chantilly, VA, for four days in June.

The first three days transformed the entire Westfields Marriott into a unique high-tech extravaganza by offering main conference activities free of charge; creating an STK Technology Zone with interactive solution areas; hosting technical seminars, solution sessions, users’ group meetings, and user presentations; offering hands-on specialized training courses; and doubling the attendance of last year’s event. Thursday’s closing classified day for defense and intelligence leaders was filled to capacity. Sprinkled throughout the entire conference was free food and fun for everyone.

Along with being the first to discover STK 6.0, more than 500 conference attendees heard from preeminent figures in the space, national security, and celebrity arenas. The all-star lineup included BG Richard Geraci, deputy director of military operations, National Security Space Office; Capt. William Read, NASA associate administrator, Office of Space Flight; Riki Ellison, Missile Defense Advocacy Alliance founder and former NFL great; Homer Hickam, best-selling author whose novel became the film “October Sky;” Charles Allen, assistant director of central intelligence for collection at the CIA; and John Stopher, House Permanent Select Committee on Intelligence staff member.

Geraci, the event’s opening night keynoter, spoke to the reason AGI holds the Users’ Conference each year: “Conferences such as these are not just an opportunity to exchange business cards … they are truly critical to our success in space, and therefore national security. I consider it my responsibility to stay engaged with this community, and, clearly, this forum is an excellent opportunity to do that.”

Inside the Pentagon in Washington, D.C., an Air Force visualization facility uses STK software to demonstrate and evaluate advanced Command, Control, Communications, Computers, Intelligence, Surveillance, and Reconnaissance (C4ISR) systems and concepts of operations. The state-of-the-art C4ISR Visualization Center (CVC) houses battle-management equipment and modeling and simulation tools that enable the Air Force headquarters staff (HQ AF) to participate in Air Force and joint exercises, evaluate new concepts of operations, and observe worldwide tactical operations in a real-time environment. The CVC also has a robust video teleconference and demonstration capability to brief senior Air Force and Department of Defense (DoD) leaders regarding current operations, exercises, and experiments.

Under the leadership of CVC director Norm Murray and deputy director Maj. Walt Conrad, the CVC conducts C4ISR analyses, produces 3-D visualizations, partners with Air Force Television News to create videos, and demonstrates C4ISR capability to HQ AF staff and DoD personnel. These activities aid in the analysis of alternatives and decision making, Advanced Concepts Technology Demonstrations (ACTDs), and other development efforts that ensure C4ISR requirements are addressed in the acquisition and policy process. Science Applications International Corporation (SAIC) and Simulation Technologies Incorporated (STI) provide technical and engineering services to the center.

The CVC uses STK in several ways to fulfill its many missions. STK is part of Constant Sentinel, an Air Force situational awareness solution. STK provides 2-D and 3-D battlefield visualization and analysis to meet mission objectives and support the warfighter and military forces in exercises around the world.

During recent exercises, the CVC used STK to evaluate time-critical targeting concepts for predictive battlespace awareness. STK was used with live data feeds while Air Force personnel around the globe took part in networked simulations. These simulations used the military’s High Level Architecture (HLA) and Distributed Interactive Simulation (DIS) interfaces, which permit interaction between simulators manufactured by different vendors that perform diverse functions.

“Because we can use STK to participate in and visualize exercises worldwide, we have saved thousands of dollars in travel costs, while enhancing HQ AF staff situational awareness and training,” says Kevin Hollingsworth, an SAIC systems analyst.

Another CVC mission is to provide briefing support and Concept of Operations validation to other Air Force programs. A current CVC objective is to help the Air Force quickly evalu-
STK Employed in Army Intel Tool Kit

As the U.S. continues its mission to unify the Armed Forces, the ability for joint service operators to share real-time intelligence data becomes critical. Project Morning Calm (PMC) is an Under Secretary of Defense (Intelligence)-funded military intelligence experiment aimed at improving situational awareness for combatant commanders and national intelligence agencies. The key to PMC’s success will be the ability to pair new ways of utilizing data with innovative technologies.

Functional STK prototypes are currently deployed for operational exercises in theater in support of PMC. Moving forward, the Army is compiling a data mining tool kit using hardware and software that has proven productive on other intelligence efforts. The tool kit will permit its users to access mission-specific intelligence information in an instant to search for significant patterns and trends in the data. The Army will leverage STK’s geospatial intelligence capabilities to provide dynamic situational awareness to PMC.

AGI’s geodynamic technology will allow analysts to read from a central database and display fused operational activities and events as geodynamic layers. Once these layers are available within the STK environment, intelligence analysts can perform further analyses and 3-D visualizations across all geodynamic domains—land, sea, air, and space. AGI looks forward to supporting PMC with these future initiatives.

TEAM PLAYERS: Members of the CVC team include (seated from left): Kevin Hollingsworth; Harold Robinson, SAIC program manager; Norm Murray, CVC director; Eric Reuter; Tim Alger; (standing from left) TSgt Guy McBeth, NCOIC; and Mark Anderson. Not pictured: Gary Eckhardt, Zack McCray, Bob Wilkie, Pat Stevenson, Bob Buffington, Michelle McGinley, and Pat Fields.

STEPT 2004 5 IN-VIEW

STK Employed in Army Intel Tool Kit

As the U.S. continues its mission to unify the Armed Forces, the ability for joint service operators to share real-time intelligence data becomes critical. Project Morning Calm (PMC) is an Under Secretary of Defense (Intelligence)-funded military intelligence experiment aimed at improving situational awareness for combatant commanders and national intelligence agencies. The key to PMC’s success will be the ability to pair new ways of utilizing data with innovative technologies.

Functional STK prototypes are currently deployed for operational exercises in theater in support of PMC. Moving forward, the Army is compiling a data mining tool kit using hardware and software that has proven productive on other intelligence efforts. The tool kit will permit its users to access mission-specific intelligence information in an instant to search for significant patterns and trends in the data. The Army will leverage STK’s geospatial intelligence capabilities to provide dynamic situational awareness to PMC.

AGI’s geodynamic technology will allow analysts to read from a central database and display fused operational activities and events as geodynamic layers. Once these layers are available within the STK environment, intelligence analysts can perform further analyses and 3-D visualizations across all geodynamic domains—land, sea, air, and space. AGI looks forward to supporting PMC with these future initiatives.

TEAM PLAYERS: Members of the CVC team include (seated from left): Kevin Hollingsworth; Harold Robinson, SAIC program manager; Norm Murray, CVC director; Eric Reuter; Tim Alger; (standing from left) TSgt Guy McBeth, NCOIC; and Mark Anderson. Not pictured: Gary Eckhardt, Zack McCray, Bob Wilkie, Pat Stevenson, Bob Buffington, Michelle McGinley, and Pat Fields.

TASC MEETS THE TASK

Northrop Grumman Information Technology, TASC (NGIT-TASC) is working with the CVC to meet its challenge of helping the Air Force quickly evaluate, validate, and build executable C4ISR communications architectures. “We see STK as a central element to provide the visualization and operational validation for this effort,” says Murray. Some of the STK modules that will be used in this effort include STK/PRO, STK/Chains, STK/Coverage, STK/Advanced Visualization Option (STK/Advanced VO), STK/Comm, and STK/Connect.

As the Air Force continues its transformation into the future, the CVC is expected to remain a vital link for showcasing and visualizing promising architectures. This success will rely on a team effort of government, industry, and academics, all working to assist the warfighter in a well-defined and integrated C4ISR environment.

*Editor’s Note: The CVC falls under the direction of the Air Force Agency for Modeling and Simulation, the Directorate for C4ISR Architecture and Assessment, and the Deputy Chief of Staff for Warfighting Integration. ▲

TASC MEETS THE TASK

Northrop Grumman Information Technology, TASC (NGIT-TASC) is working with the CVC to meet its challenge of helping the Air Force quickly evaluate, validate, and build executable C4ISR communications architectures. To support that effort, NGIT-TASC personnel have integrated several leading software solutions, including STK. The NGIT-TASC solution also includes software elements that promote and support the Department of Defense Architecture Framework (DoD)

Ray Williams, manager, Network Modeling and Analysis, at NGIT-TASC explains, “Using STK is central to the success of our effort to support the CVC. Because STK is so easy to customize and integrate with other software solutions, we were able to respond to the CVC’s requests for additional capabilities in a matter of days … not weeks or months.” ▲

INSTANT INTEL: AGI’s geodynamic technology can calculate and display bit error rate contours of a mobile phone in a truck leaving Baghdad.
Navigation Tool Kit: Precision for the SATNAV Community

Over the past decade, the Global Positioning System (GPS) has become the primary resource for deploying accurate position, velocity, and timing information to the satellite navigation (SATNAV) community. Military and civilian engineers rely on this system for precision operations, intelligence, navigation field operations, and constellation design, maintenance, and operation programs. Recognizing the need for software applications in the GPS navigation market, AGI partnered with Overlook Systems Technologies, Inc. of Vienna, VA, to develop Navigation Tool Kit. This new software product predicts the performance of navigation equipment in complex environments by modeling critical GPS system perturbations.

Navigation Tool Kit Version 1.0 is a comprehensive analysis tool that supports the entire GPS SATNAV community. Navigation Tool Kit combines AGI’s STK technology with navigation algorithms and workflow design provided by Overlook Systems, a leading GPS service provider for government organizations such as the GPS Support Center, located at Schriever Air Force Base, CO.

Atmospheric degradation, signal reflections, receiver clock timing, and satellite orbital errors all contribute to a navigation solution’s inaccuracy. The current satellite almanac files used in most navigation analyses are outdated and don’t account for these errors, leaving many SATNAV customers with an imprecise source of GPS data. Navigation Tool Kit compensates for the major inhibitors to GPS performance by employing industry standard algorithms and precise satellite data, and by modeling real-world platforms, receivers, and a wide variety of other catalog objects.

GPS correction files incorporated into Navigation Tool Kit from NavCom Technology’s StarFire Network (see story, page 7) improve outdated satellite almanac information to provide the most up-to-date source of GPS constellation data available. Users can also minimize the amount of error in an analysis by defining constraint models that allow for a more accurate interpretation of the GPS constellation.

The Navigation Manager graphical user interface (GUI) contains a task-oriented workflow tailored to the unique analytical requirements of the SATNAV community. When precise satellite navigation performance is critical to your mission, employ Navigation Tool Kit.

To learn more about AGI’s new navigation product, visit www.agi.com/navigation.

Benefits for combining Navigation Tool Kit with the STK Software Suite include:

- Dynamic 3-D visualization
- GPS satellite access lines based on line-of-sight visibilities in STK/Advanced VO and on the 2-D STK map
- Visualization of GPS satellite antenna beam gain and equivalent isotropically radiated power 2-D contours on the map
- GPS antenna gain pattern 3-D beams and jammer antenna 3-D gain patterns
- Antenna phase center offsets to show antenna beams at the proper position on an object model
AGI’s Orbit Determination Software Evolves

AGI’s astro experts continue to extend the capabilities of Orbit Determination Tool Kit. The first release ushered in support for GPS pseudo-range measurements, and the current version, 2.0, offers additional analysis options to increase the accuracy of orbit predictions. Orbit Determination Tool Kit’s improved modeling includes analysis for solid earth tides and the simultaneous estimation of the ballistic coefficient and atmospheric density. In addition, it supports space-based range measurements—making it a vital tool for operators of formation-flying satellite systems.

Orbit Determination Tool Kit integrates with the STK software suite for additional analysis, as well as visualization. It is the first robust tool to tell operators flying a satellite where it is, and much more, for a satellite’s entire life cycle. Learn further details at www.agi.com/od, and stay tuned for version 3.0, due this October.

HIGH FIDELITY: Orbit Determination Tool Kit features enhanced analysis options that increase the accuracy of orbit predictions while supporting the life cycle of the spacecraft during its mission.

Hot!New!Sixy! STK 6.0!

Attendees at the 2004 STK Users’ Conference were the first to discover STK 6.0—AGI’s comprehensive upgrade to the STK software suite. If you missed the chance to learn how STK 6.0’s new features enhance 3-D situational awareness and decision support, visit www.agi.com/stk60 to order your free copy, then install it and get started.

New STK 6.0 features, like refinements to terrain and imagery handling, enhanced symbology, and visualization of analytical results, are ideal for mission planners, systems engineers and analysts, and real-time tactical users. Also, STK’s open architecture enables it to serve as a fusion point for multiple data sources, providing a common operating picture (COP) to users in disparate locations. With usability enhancements that put more control than ever before at your fingertips, STK 6.0 is your complete situational awareness package.

NAVCOM SUPPLIES GPS CORRECTION DATA FOR NAVIGATION TOOL KIT

Your GPS receiver tells you where you are, but are you confident in its accuracy? Atmospheric effects, slight differences in predicted timing among the on-board atomic clocks, and errors in estimating the precise orbit of the satellites all contribute to GPS-receiver inaccuracy when calculating geographic location.

AGI’s new Navigation Tool Kit corrects for that … and more.

The newly released Navigation Tool Kit Version 1.0 enables analysts to assess how GPS system performance affects their missions, and with input from business partner NavCom Technology, Inc., it can accomplish this task like no other analysis and simulation software before. Using GPS correction files provided by NavCom, Navigation Tool Kit tells its users what performance to expect from their GPS equipment, and how accurate that performance is.

The GPS correction data is gathered from NavCom’s StarFire Network, a global system of GPS receivers that combines and processes information from dozens of reference stations around the world to provide accurate location data. Incorporating this information, Navigation Tool Kit generates a continuously updated source of precise GPS data, including daily updates to almanacs and Satellite Outage Files (SOFs). The data are supplied in the following formats:

- Prediction Support Files (PSFs) that allow Navigation Tool Kit users to produce statistical predictions of system accuracy;
- Performance Assessment Files (PAFs) that help examine historical performance of the GPS system through precise accuracy information;
- U.S. government-provided SOFs, generated from Notice Advisories to Navstar Users, that relate the health status of the GPS constellation.

The StarFire Network considers each of the GPS satellite signal error sources independently, making the data’s decimeter level of accuracy the best available. The algorithms developed and used by NavCom to compute this information are based on technology licensed by NASA’s Jet Propulsion Laboratory. Together, Navigation Tool Kit and NavCom’s StarFire Network give SATNAV professionals the precision they need for mission planning, situational awareness, intelligence, navigation field operations, and satellite constellation operation, design, and maintenance.

More about AGI’s SATNAV offering can be found at www.agi.com/navigation.
A Space Renewal

This year opened with a reinvigorated drive to fortify and expand the United States’ presence in outer space. In January, the President outlined the nation’s bold future space exploration vision for the next 30 years—including NASA’s human and robotic missions to the Moon, Mars, and beyond. Within the month, an alliance of aerospace organizations known as the Coalition for Space Exploration announced its formation and goal: to promote the “Vision for Space Exploration” and to pool space-related resources to achieve this forward-thinking U.S. initiative.

AGI, a member of the growing coalition and a leading provider of commercial off-the-shelf (COTS) aerospace analysis software, has long contributed its products to space program concept development, design, test, and evaluation, as well as real-time operations of space systems. Historically, AGI’s core product, STK, and its specialized add-on modules, have been integral in accelerating space programs’ analytical processes. As the aerospace industry moves forward with the refocused American space policy, STK remains an analytical tool of choice.

Space Exploration Engineering (SEE), a space mission design and analysis firm in Friday Harbor, WA, leverages STK for space mission planning from Earth orbit to the Moon and beyond. SEE uses STK to solve problems in orbital mechanics ranging from Earth orbit analysis and operations to deep space, and employs STK/Astrogator—AGI’s interactive orbit maneuver and space mission-planning tool—to plan cis-lunar and deep space trajectories for its customers, from double-lunar swingbys and Jupiter gravity assists, to Lagrange point missions and commercial landers to the Moon. Commercial lunar ventures that SEE has supported include Blastoff!, SpaceDev, Lunacorp, and Transorbital.

Dr. Robert Nelson, president of the Satellite Engineering Research Corporation, a consulting firm in Bethesda, MD, is a member of the NASA committee investigating alternative architectures for communication, navigation, and time dissemination in the solar system. Working with other committee members, Nelson employs STK to analyze the visibility and coverage properties provided by satellites in various constellations around the Moon and Mars and at the Lagrange points of the Earth-Moon system. The STK/Astrogator and STK/Coverage modules permit analyses of performances over time of satellites, surface facilities, and vehicles.

In Houston, TX, United Space Alliance personnel at the NASA Johnson Space Center use STK in support of International Space Station (ISS) operations. In particular, the Power Resource Analysis Group employs STK/PRO and STK/Advanced Visualization Option to determine the quantity, duration, and angle of sunlight on solar arrays. Additionally, STK/Attitude models the orientation of the ISS over time and the movements of the solar panels to compute their effective area. These analyses are then converted into a compatible format using AGI’s interface software, STK/Connect, and fed into internally produced NASA tools to discern how much power the ISS can expect to achieve. With STK, the Power Resource Analysis Group has dramatically reduced the time spent on these processes.

After 15 years of rigorous use, AGI’s commercial technologies are now found in hundreds of aerospace organizations worldwide. As our nation reaches even farther into space, AGI’s technology and people stand ready to support, promote, and further this national imperative to explore the universe.

Clockwise: Customizable graphical user interfaces (GUIs) enable engineers to quickly change parameters and instantly analyze their effects on a mission. STK/Astrogator with STK/Advanced VO generates dramatic, animated 3-D images of space missions ranging from near-Earth maneuvers to far-ranging interplanetary voyages. Analysts can feed flight-generated data into STK to refine spacecraft maneuvers and trajectories.
AGI and MAXIM Onboard with Navy

MAXIM Systems, Inc., a systems engineering and program management firm based in San Diego, has partnered with AGI in its STK Solution Provider Program. MAXIM performs advanced engineering support, analysis, and integration with STK for the U.S. Navy’s Communications Satellite Program Office, Program Executive Office Space Systems (PMW 146), which acquires space-based narrowband communications systems for fleet and joint users. MAXIM’s two largest contracts support the Space and Naval Warfare Systems Command’s C4ISR platforms and the Navy’s multilevel secure intelligence and target tracking environment.

As long-time users of STK, MAXIM’s systems engineers have developed custom applications to model communications links on ships. The company will use this expertise to provide communications situational awareness for the Navy, and will employ STK in end-to-end communications programs for government systems integrators.

For more on AGI’s partner programs, visit www.agi.com/partners. Find out more about MAXIM at www.maximsys.com.

Joining Forces For Army Space

ManTech International Corporation (www.mantech.com), an IT and technical services solution provider for the defense and intelligence communities, has partnered with AGI to develop a global battlespace awareness tool that leverages the power of ActiveX controls within STK. These controls allow users to embed STK technology within existing, widely used PC applications and custom programs. The tool, deployed on the Space Operations System ruggedized laptop, is for operational use by Army Space Support Elements and other Army space forces. It provides a mission-critical component of situational awareness deployments and other complex, integrated systems.

“Embedding STK into simple applications levels the playing field for Army space officers unfamiliar with STK who need solid analytical data at their fingertips. By combining our innovative technology solutions, AGI and ManTech are creating an easy-to-use tool that will greatly enhance Army space operations and initiatives,” says T.I. Weintraub, director of business development at ManTech.

AGI is creating a specialized STK application for ManTech’s Space Systems Division in Colorado Springs, CO, which ManTech will customize internally. The system will minimize training, render data quickly through automated analysis routines, and offer an improved workflow process that will be controlled by customized HTML graphical user interfaces (GUIs).

New Service Predicts Satellite Close Approaches

The Center for Space Standards & Innovation (CSSI) now offers a free current list of potential close approaches in space. Dubbed SOCRATES (Satellite Orbital Conjunction Reports Assessing Threatening Encounters in Space), the list identifies the top 10 potential conjunctions each day based on maximum probability and minimum range.

To generate the SOCRATES data, CSSI runs a list of satellite payloads on orbit against all other orbiting objects using STK/Conjunction Analysis Tools (STK/CAT). STK/CAT then reports potential close approaches by distance and probability.

1Earth Research, an STK Solution Provider also based in Colorado Springs, has partnered with AGI and CSSI to provide custom consulting services for satellite operators who wish to examine close approaches of interest in further detail. Using STK/CAT and other custom software, 1Earth offers improved assessments and assistance for recurring satellite conjunctions.

“It is essential that satellite operators maintain an awareness of the population environment to protect their space assets,” says Daniel Oltrogge, managing partner at 1Earth Research.

For more information about 1Earth Research’s services, visit www.1EarthResearch.com/cssi. To reference the free SOCRATES list, visit www.CenterForSpace.com.

HIGH-TECH AEROSPACE TRAINING INTRODUCES STK

The Applied Technology Institute (ATI) provides leading-edge public courses and on-site technical training for the aerospace and national security communities, focusing on space, communications, defense, sonar, radar, and signal processing. ATI recently partnered with AGI to incorporate STK into pertinent curriculums. A special $50 discount applies for friends of AGI who attend any of ATI’s courses; simply reference registration code: AGIVIP. For additional information, visit www.agi.com/ati.
New Capabilities, Familiar Faces in Germany

In June, AGI welcomed CAM (Computer Anwendung für Management) GmbH as the latest member of its growing international business partner community. CAM has the expertise to technically support and enhance the current STK product line, as well as offer STK training programs and project-specific STK customizations.

Experienced with AGI’s software suite, CAM has developed complementary products to STK since 1997. That expertise, coupled with an in-depth knowledge of the defense and civil aspects of the German, Austrian, and Swiss aerospace industries, makes the company well-suited to enhance the STK experience of AGI’s current and future customers in its region.

CAM currently supports STK users in the European Space Agency’s Operations Centre (ESOC) and the European Organisation for the Exploitation of Meteorological Satellites (Eumetsat), both in Darmstadt, Germany, and the German Aerospace Center (DLR), Oberpfaffenhofen, Germany; among others. The company has been active within the aerospace industry for more than 35 years. In that time, it has expanded into a number of fields including telemetry, operations, national security, and software design.

For CAM’s contact information and more about AGI’s international business partner program, visit www.agi.com/partners.

ImageONE Represents STK in Japan

ImageONE Co., Ltd. recently became AGI’s STK representative in Japan, providing sales, marketing, and technical support to STK users in that territory. As the leading provider of high-resolution commercial satellite imagery products and services in the region, ImageONE’s products are used by Japan’s Defense Agency and the country’s National Reconnaissance Satellite program. In addition, ImageONE installs and maintains ground stations and produces medical imaging information systems and image-processing technologies.

Makoto Higashi, ImageONE general manager, believes AGI’s software complements his company’s expertise. “STK extends our vertical product line a step further into the space segment of satellite operations and simulations,” he says.

Francesco Linsalata, AGI’s chief operating officer, thinks ImageONE’s support of STK will greatly benefit existing and potential Japanese STK users. “As STK gains momentum worldwide, ImageONE will help accelerate its integration within Japan’s space and national security initiatives,” he says.

To learn about AGI’s international business partner program, visit www.agi.com/partners.

INTERNATIONAL PARTNERS GATHER

AGI hosted its first annual International Business Partner Conference at its Exton, PA, headquarters immediately following the 2004 STK Users’ Conference in June. The conference was attended by representatives from Agenium Technologies (France), CAM (Germany), ImageONE (Japan), and HASCo (Taiwan). Other AGI international business partners include MEDICON Ltd. in Greece and Synergy Integration in Israel.

AGI has developed a network of professional organizations that provides complete services to aerospace and defense professionals beyond the United States and Canada.

To find an AGI worldwide partner in your region, contact info-intl@agi.com or visit www.agi.com/partners.
Launch Your Initiatives With STK Training

Craving to catch up with the advances in STK 6.0? Novice and veteran STK users will have plenty of chances to learn about STK and its add-on modules this fall. AGI's free, one-day “Introduction to STK” hands-on training sessions are currently slated for Huntsville, AL; Dayton, OH; Long Beach, CA; Exton, PA (AGI headquarters); and nearly a dozen more worldwide sites.

For those already familiar with STK who wish to expand their know-how, advanced STK training courses, which vary in length from one-day to week-long sessions, will be available in Boston, MA (Sept. 27-Oct. 1); Exton, PA (Oct. 11-15); Ottawa, CA (Nov. 1-5); Colorado Springs, CO (Nov. 8-12); and Long Beach, CA (Dec. 13-17). These nominally priced courses cover topics within STK including: advanced analysis; performance assessment with STK/Coverage; integration and customization; and STK output via still images and graphical animations. Specialized courses in STK/Astrigator and STK/Comm are also available. Register today to get the training you need to make the most of your software investment!

Course schedules are subject to change based on demand. Visit www.agi.com/training for the latest details and registration information. ▲

STK 6.0 BMW ROADTRIP

The STK 6.0 roadshow, “Battlespace Management,” hit both east and west of the Mississippi simultaneously this summer with free, half-day, solution-focused seminars. Building upon the release of STK 6.0 at the 2004 STK Users’ Conference in June, the battlespace management workshops demonstrated how this comprehensive upgrade to AGI’s COTS software assures a dynamic, real-time global common operating picture (COP) and supports intelligence, surveillance, and reconnaissance (ISR) activities.

AGI engineers presented STK 6.0’s major enhancements for 3-D situational awareness and decision support to more than 200 national security professionals in 12 North American cities. An STK seminar is also set for Australia in October (see www.agi.com/events for details).

If you weren’t able to attend a workshop, all is not lost. Resource materials are posted at www.agi.com/bmwresources.

DEFENSE ANALYSIS: Battlespace Management Workshop attendees got an in-depth look at how STK supports global COP and ISR activities.

KEEPING THE SPACE VISION ALIVE!

On behalf of the Coalition for Space Exploration, AGI hosted “Space Exploration Day” on September 10 at the Maryland Science Center in Baltimore. More than 100 attendees heard from guest speakers, including Dr. James Garvin, NASA’s chief scientist for Mars and Lunar Exploration; and Baltimore native astronaut Robert Curbeam, Jr.

This community outreach event was one of many being held across the U.S. by members of the coalition, a grassroots group of space industry organizations dedicated to furthering the nation’s new space exploration vision by encouraging its support by Congress and the general public.

For more information on the coalition, to learn how to join, or to sign the “Go For Mars” petition in support of our nation’s new space exploration vision, visit www.spacecoalition.com. ▲

Catch Us If You Can!

AGI’s software solutions for land, sea, air, and space abound at upcoming industry tradeshows. Stop by and visit us!

• September: ION-GNNS (Long Beach, CA); AIAA Space Conference (San Diego, CA).
• October: Strategic Space 2004 (Omaha, NE); GEOINT 2004 (New Orleans, LA); ITC 2004 (San Diego, CA); C4ISR Summit (Wakefield, MA); MILCOM 2004 (Monterey, CA).
• November: Core Technologies for Space Systems (Colorado Springs, CO).
• December: I/ITSEC (Orlando, FL).

For more on these and other stops AGI will be making, visit www.agi.com/events.
AGI raised more than $6,000 for charity this summer. In one event, AGI’ers Bill Williams (left) and Shawn Turner (right) took pies in the face for a Ronald McDonald House fundraiser. In another, a team of 31 AGI employees rode in the American Cancer Society’s 32nd annual 100 km Bike-a-thon.