



National Geospatial-Intelligence Alumni Association – East Chapter

DECEMBER 2022
#121



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We also welcome any new articles or items of Interest you would like to share with NGAA-East. Please submit to Ange Meoli at the email above.

From the NGAA-East Chapter President:

Dear Friends and Colleagues,

As we all emerge from our Covid-induced cocoons, I want to give you a brief update on where the NGA Alumni Association-East is at regarding programs and activities. During the past several months, the organization has resumed its luncheons/meetings at NGA East Campus. This summer, we held our first live event in over two years when we participated in the celebration of the 50th anniversary of the founding of the Defense Mapping Agency. This was an outstanding event that featured a panel discussion with a number of past and present employees who recounted some of the high points of the agency's long and storied history.

On the same occasion, NGAA-East was honored to sponsor the dedication of a memorial to our comrades at the Inter-American Geophysical Survey (IAGS) who lost their lives in the service of their country and agency while performing their often-dangerous missions in the rugged countryside of Central and South America. Our own Jack Hild spent much time and effort in researching the history of these brave men and advocating for a remembrance to their sacrifice. His dedication and hard work came to fruition that day as a handsome memorial was unveiled in the halls of the NGA Campus East.

In addition to that memorable event, the chapter had the pleasure of presenting its annual NGA Employee Excellence Award to Zach Nixon for his pioneering work in quality assurance of terrain elevation data. We also had the pleasure of announcing our 2022 Alumni Scholarship winners. Jennifer Daniel, our new Scholarship Coordinator, has more details about this flagship program later in this newsletter.

Last month, the chapter held its annual Fall Luncheon at NGA Campus East. Following several informative briefings and a nice lunch we attended the induction

ceremony for the NGA Hall of Fame, Classes 2020 and 2021. It was heartening to see our fellow alumni honored in this way. Earlier in the spring, I represented us at the NGA Change of Command ceremony where the Director of National Intelligence and the Assistant Secretary of Defense for Intelligence presided over the departure of VADM Bob Sharp and the arrival of VADM Frank Whitworth as Director, NGA. Admiral Sharp has been a fantastic supporter of the alumni association (he joined our ranks immediately after retirement) and Admiral Whitworth promises to be just as supportive of our mission.

Finally, after the Covid lockdown, we have been working to revive the social aspects of the chapter. Susan Allersmeyer joined the board as Social and Membership Coordinator, and she arranged a delightful outing at Tamara Winery in Lucketts, VA where we enjoyed an evening of wine and classic rock music under the stars. We are very interested in expanding this aspect of our mission, hosting wine tastings, museum tours and similar events to provide additional opportunities to socialize and network with your fellow alumni. If you have any thoughts, ideas, or preferences in this regard, please weigh-in now!

The board will meet soon to plan for an election of officers and plan an agenda for next year. You will receive a ballot in late summer 2023 to select new officers. If you would like to volunteer to stand as an officer in the organization, please let us know. I've rambled on too long as it is, so let me sign-off and wish you all a happy and healthy holiday season!

Irv Buck
President, NGA Alumni Association-East



CHAPTER NEWS

NGA Alumni Association East Event October 27, 2022

On October 27th 23 members gathered to attend events at the NGA Campus East. The day started with Bill Caniano, Director, Office of Corporate Communications greeting us and providing updates on management changes that have been made and ones to come. The Director, Adm. Whitworth, revised NGA's motto to be "Know the World, Show the Way from Seabed to Space". He wanted a



motto that more fully described NGA's mission and be clear that it included intelligence about space. In the future, the Defense Intelligence Agency and an unnamed "sister" agency will construct two new buildings on the NGA Campus. The buildings will be completed in the next five years. The occupants will share the NCE's food service and fitness center. In other, organizational changes, there is no longer an Associate Deputy for Enterprise (ADE). The Geospatial Intelligence component (G) will now report directly to the Director, NGA to ensure that the Director can more successfully

execute his functional management responsibilities. The International Affairs component and the NGA Service Support Teams will now report to the Associate Deputy Director for Operations.

Our group received two briefings: The first was on NGA's Maritime Safety Mission and its transition to all digital production. The Maritime mission has existed for over 150 years and has 70 international partners for hydrographic data sharing. The second briefing was on Historically Black Colleges and Universities. Harris-Stowe State University is developing a geospatial science certificate and has a summer immersion class in GEOINT. Howard University has a Cooperative Research & Development Agreement (CRADA) with NGA to advance GEOINT through improved atmospheric sciences and machine learning. The results will be used to improve satellite imagery to achieve more visual accurate. These are just two relationships NGA has with Academia.

Deputy Director Tonya Wilkerson spent time with the members and provided more updates on NGA activities. The NGA's senior leadership decided to change the strategic focus. Going forward the strategic focus will be:

- Enhance Operational Readiness
- Attract and retain highly skilled officers
- Partnerships
- Strengthening management of resources
- Acquisition

The Deputy Director is focused on people, strengthening the management of resources, and acquisition processes. A top priority is making sure that NGA obtains a 100% clean audit. The agency has made progress, but it is not where it should be. She also talked about the Maven Project that will transfer to NGA in FY23. Project Maven was established in 2017 “to accelerate DoD’s integration of big data and machine learning; the project fielded its first algorithms for processing images and video captured by surveillance aircraft. The project has continued to develop and deploy artificial intelligence (AI) capabilities. When asked where NGAA could help, Tonya said we can help with the branding of NGA and to advertise and enhance NGA programs to attract people. She referenced the CBS segment on NGA’s neural diversity program. In case you haven’t seen it, the link to the show is here: <https://www.cbsnews.com/news/spy-agency-utilizes-unique-skills-of-autistic-analysts/>



Following the morning’s speakers, we attended the NGA Hall of Fame induction ceremony for the recipients from 2020 and 2021. At the start of the ceremony NGA presented an excellent video about the Cuban Missile Crisis that was produced because it is the 60th Anniversary of the Crisis. NGA’s historian Dr. Lisa Williams also led a discussion of the with the panel with the historians from DIA and NSA. [60th Anniversary - Cuban Missile Crisis - YouTube](#)

All in all, we had an excellent day. It was great to reconnect with current and former NGA colleagues.

GEOINT Hall of Fame Induction 2020

Barry M. Barlow

Barry M. Barlow has served the defense and space community for more than 40 years, dating back to the inception of the Space Shuttle program in the 1970s. At NGA, he was the first director of Online GEOINT Services, as well as the director for Acquisition. He’s been honored for his service to those operating in Iraq and Afghanistan, and he oversaw the redesign and delivery of the time-dominant imagery distribution system, which helped service members and intelligence analysts around the globe.

Louis A. Bauer (posthumously)

Louis A. Bauer as the director of the Carnegie Institution’s Department of Terrestrial Magnetism, established the first U.S. program to globally map the Earth’s magnetic field in 1904 – aiding navigation and establishing the first World Magnetic Model. We honor him posthumously for dedicating his life to the study and observation of our planet. NGA is better able to Know the Earth thanks to his legacy of accomplishment.

Stacy L. Gardner, Jr. (posthumously)

Stacy L. Gardner enabled American superiority on the battlefield during Operations Desert Shield and Desert Storm, setting the standard for the evolution of imagery and spatial product integration for

wartime planning and execution. We honor him posthumously for providing invaluable years of service to our Nation.

John H. (Jack) Hild

John H. (Jack) Hild spent 3 decades at NGA, serving as the deputy director for Source and the Assistant CIO. He created the Multinational Geospatial Co-Production Group, which aids our partner nations around the globe. He also guided our Homeland Security mission after the attacks of 9/11, setting the stage for much of the vital work done at this Agency to this day.

James E. Johnson

James E. Johnson served with distinction in the field for nearly 50 years. He was instrumental to the management and technical success of a variety of critical programs and initiatives, including the Navy's Cruise Missile Program and the Digital Nautical Chart. He also helped integrate government and commercial imagery collection, distribution, and application.

Paula Webb Roberts

Paula Webb Roberts began her 33-year career across the Intelligence Community as a cartographer. She later helped guide the National Imagery and Mapping Agency's (NGA's predecessor organization) support to the IC and DOD following the 9/11 attacks. As the IC's Chief Human Capital Officer, she implemented changes to our personnel system that continue to shape our world-class workforce.

GEOINT Hall of Fame Induction 2021

Eric R. Benn

Eric R. Benn successfully led, expanded, and evolved the GEOINT discipline over his 40 plus year career. Benn contributed to the advancement of GEOINT and the national security of the United States. He made a difference through his stature as a GEOINT leader, his loyalty and dedication to mission, his hard work, and perseverance.

Gerald M. Elphinstone Ph.D.

Gerald Elphinstone, Ph.D., demonstrated a legacy of leadership in technical development that exemplifies NGA's tradition of world technical development mapping and charting. Elphinstone helped convert NGA from producing hardcopy products from stereo-plotters to digital products; and converting from hardcopy to digital imagery through a series of major program upgrades. He played a critical role in making NGA the technical leader in GEOINT it is today.

Keith E. Littlefield Ph.D.

Keith E. Littlefield is recognized for his dedicated service and leadership of cutting-edge acquisition strategies that fundamentally changed the GEOINT environment. In his 30-plus years of service, Littlefield personally led the development and fielding of major tasking, exploitation, processing and dissemination system at NGA and its predecessor organizations. He delivered some of the most transformative systems in the last two decades, helping NGA and the intelligence community maintain and grow a competitive edge over adversaries.

Dennis Moellman

For over 30 years, Dennis Moellman was a leader in spearheading the development of innovative

technologies to advance the science of geospatial intelligence, from creating sensor systems for both imagery and position exploitation, to later developing a state-of-the-art imagery evaluation facility that served as a model for imagery throughout the intelligence community. His work has greatly enhanced the NGA mission for the entire community, including government, commercial vendors, and foreign partners.

NGAA-East Scholarship Program

The National Geospatial-Intelligence Agency Alumni Association East (NGAA-East) members are committed to advancing GEOINT and investing in the future of those who may join our profession. Our annual NGAA Scholarship Program is an opportunity to invest in the future of aspiring college students or those currently enrolled. It provides support to the next generation of geospatial scientists, analysts, data scientists, engineers, scientists, computer specialists, business managers, accountants, and all the critical skill sets that support the business of government and service to our nation.

This year we received 23 excellent applications. Of the 23, ten were high school seniors and 13 are currently enrolled in college. Ange Meoli, Jack Hild, and Jennifer Daniel reviewed the applicants. The criteria used was academic achievement, citizenship, leadership, service, and aspirations for a career in GEOINT or the Intelligence Community. We were able to provide scholarships to three students. They are:

- A Freshman at the University of Maryland who is focused on the Geographical Sciences and is interested in becoming a Geospatial Scientist.
- An undergraduate student at Baylor University whose major is International Studies and Business Administration. He intends to pursue a career in the Intelligence Community.
- An undergraduate at Missouri University of Science and Technology who is studying Computer Science with a focus on cybersecurity. He is applying to be an NGA intern and to pursue a career as a Data Scientist.

We are actively seeking membership donations to this program for the 2023 scholarships. If you would like to participate and aid our efforts in making these scholarship awards possible, please send a check to Mr. Dennis Drum, 905 Spring Knoll Drive, Herndon, VA., 20170-3925, payable to NGAA-East Scholarship Program.

International Alumni Travel to Firenze, Italy

After a 2-year hiatus the International Geo Alumni resumed our annual meetings. While Romania continues to be our first choice, proximity to Ukraine weighed on our decision and Florence became the alternate venue. We hope the situation stabilizes and that we can finally visit Constanta in 2023.

Our trip to Florence started on Thursday, 29 November as early arrivers traveled to Pisa, Lucca and/or Florence on their own. Thursday night was our first dinner where 40 of us from 9 nations enjoyed a wonderful

meal and began new and renewed old friendships. NGAA member Dino Rainone planned the visit and, with Alba his wife, served as our most gracious hosts.

Friday started with two different trips. Those still engaged in the geospatial business began the day with a series of briefings from IGMI, the Italian Mapping organization headquartered in Florence. Topics included: IGMI Overview; New Satellites - New Capabilities; JISR; New Challenges: Climate, Human & Economic Geography / Mapping Undersea; Ship Modeling and Simulation; UN Geospatial Initiatives in Developing Countries; and Low Latency Foundation Data. The other part of our group headed to the perfume and pharmaceutical museum.



We reconvened for lunch at our hotel which was the military quarters for those Italian units located in Florence. The hotel was quite nice and had a wonderful restaurant. After lunch the entire group visited the Istituto Geografico Militare, IGMI, where we toured their museum and library. Artifacts included Gutenberg era books, Galileo era instruments and a host of other cartographic, geodetic, and other displays related to the geospatial business. Perhaps most impressive was the stop in a hallway. Upon looking up, we saw the fresco that Leonardo da Vinci painted when he lived there.

Our Saturday began with visits to Vinci for a guided tour of several museums dedicated to the work of Leonardo, followed by a visit to his birthplace. We convened for lunch and a wine tasting at a nearby vineyard and winery...where purchases packed our bus.



Sunday started with a tour of Florence with Giovanni, a retired Italian Colonel who had worked at IGMI. Diane and I recognized Giovanni immediately as our guide in Florence a decade earlier when we last visited IGMI. Our tour of Florence paused at a restaurant with a spectacular view of Florence. This was our last “official meal” together as some attendees needed to return for work on Monday. Those with some extra time traveled to Siena on Monday and Bologna on Tuesday before saying our final farewells.

Our most heartfelt Grazie to Dino and Alba. If you’d like to learn more, the full video is at:

<https://youtu.be/dBaApbtjls4>

Keynote Address-Jack Hild at The IAGS Memorial Dedication



Hello everyone,

Today it is my great honor and privilege and pleasure to be able to recognize, with you, the 34 men who died supporting the US Latin American mapping and geodetic missions. In total, there were 15 accidents. The first was in 1948 and the last in 1979.

An important and enduring mission of NGA is establishing partnerships with geospatial organizations in Allied nations. Collaboration in the production and sharing of data and analysis benefits each party. Tradecraft, diplomatic ties, good will and trust are developed and strengthened. Formed by President Truman as a US Army organization in 1946, IAGS was an early and very successful example of one of these international partnerships.

Aviation support was a major part of the IAGS mission. Over the years the Army and Air Force provided support and IAGS “owned” the assets for a period as well.



Part of the IAGS
“Air Force” in a
1962 photo taken
in Peru.

At its peak, the “IAGS air force” included over 100 fixed and rotary wing aircraft. One report noted that “Pilots and engineers were learning the art of pinpoint “bombing” of the triangulation stations with cases of batteries, rations, medical supplies, correspondence and beer.”

Part of the IAGS story, that faded from the NGA corporate memory, is the fact that the IAGS mission was a dangerous one. While I found no evidence of hostile action, travel to survey sites in South America was hazardous, with poor weather conditions and high altitude missions in the Andes. Navigating the fjords and rivers and third world maintenance conditions also played a role in the accidents. In addition to the men being recognized today, an unknown number of Latin American partners also lost their lives. A few have been identified in my report, but most are hidden in the personnel archives of their respective nations.

This work wouldn’t have been possible without NGA Archivist Lisa Wagner and IAGS leader Chuck Guyswyte. Chuck retired just as IAGS was being closed and placed several pallets of IAGS materials into storage, knowing that his HQ direction to destroy it was an error. ;-). Chuck reached out to NGA and in 2014 Lisa accepted the material. This was a treasure trove of IAGS documents that included personnel records, school photos, national mission status reports, scrapbooks, and Que Pasa! Que Pasa was the IAGS newsletter. Published for nearly 50 years, Que Pasa was distributed monthly or bi-monthly ... and I read them all. While there were many other sources employed, Que Pasa opened the door for this research.

Today, in the audience is Ms. Kathryn Gorenflo, niece of Mr. Ray Johns who died in Chile in 1979. Bruce Johns, Ray’s son, is watching on-line. Also on-line is Mr. Steve Conner, whose father, Major Richard Conner perished in Peru in 1964.

Both Bruce and Steve contributed a lot to the research. I’ll have more on their stories in a moment, but first let me just say a little more about the IAGS mission. At its peak IAGS had more than 600 US staff working in almost every country in south and central America and my best guess is that there were at least 3,000 foreign nationals participating. IAGS was also charged with international training. There was a school in Panama where thousands of cartographers and geodesist and engineers were trained in the state of the art of the various disciplines.

What was the work? Aside from training, the key mission was assisting national governments in mapping their territory. An important task was creating horizontal and vertical control networks. Installing survey markers, like this, in tens of thousands of locations. All these benchmarks formed the backbone for all the national mapping programs. Tens of

millions of square nautical miles of aerial photography was collected. Gravity and tide gauge measurements all contributed to the creation of the South American Datum. Over 10,000 topographic maps were created by IAGS's foreign partners. For many years I've praised the Multinational Geospatial Co-production Program (MGCP) as the largest cooperative mapping program in history. I still believe that's true, but products generated by the IAGS can also make a strong case.

This work was dangerous. As I read through the *Que Pasa's*, nearly every issue had an account of that danger. One story was about an oil survey crew wandering in to an IAGS camp one night after being attacked with spears and arrows. A foreign national was struck and killed by lightning while installing an antenna. There were plenty of non-fatal crashes as well. And there were many incidents when IAGS rendered assistance after hurricanes, flooding, and earthquakes.

Unfortunately, I don't have time to discuss each accident, but here are a few.

In 1948 Sergeant Joseph Wegener died in Venezuela and was the first IAGS fatality. The accident occurred when his L-5 aircraft went out of control as he was circling the airstrip preparing to land. This was the first mission for an aircraft that had just been assembled.

In 1952 IAGS employees Richard Lucas and Donald Newbury as well as two Chilean engineers drowned when their boat capsized in Chilean waters. The four were part of a six-man survey crew en-route to a survey location in an eighteen-foot boat. While in the Moraleda Channel they encountered a wave that caused all six to be ejected from the vessel into icy waters. Another IAGS engineer and a Chilean engineer were rescued after clinging to a floating oil drum for over an hour. Mr. Lucas and Mr. Newbury's names are engraved on a memorial at the Chilean Mapping Organization in Santiago. NGA helped arrange a tour when Diane and I visited in 2019.

In 1964 Major Richard Conner and Sergeant David Johnston lost their lives near the Rioja region in Northeast Peru. The US Embassy had requested support from IAGS to locate a missing Peruvian Air Force helicopter. They flew search patterns for almost 2 weeks.



Left - Major Richard Conner in the Tumbes Peru area, 5 May 1964.
Below is Sargeant Johnson



Someone in the search team had reported seeing something "glittering in the sunlight" but could not investigate further because they were low on fuel. Major Conner volunteered to investigate the sighting. He and Dave Johnston took off in their Otter and a short time later crashed into a jungle-covered hill about 2,500 feet above the valley. As I mentioned earlier, Major Conner's son, Steve is on line today. In addition to information on his father, Steve provided significant

material on other accidents, many pictures of aircraft and the operating environment that are included in my report. Thank you, Steve!



Harold Moir



Lt. Col. Miles W. Bowen

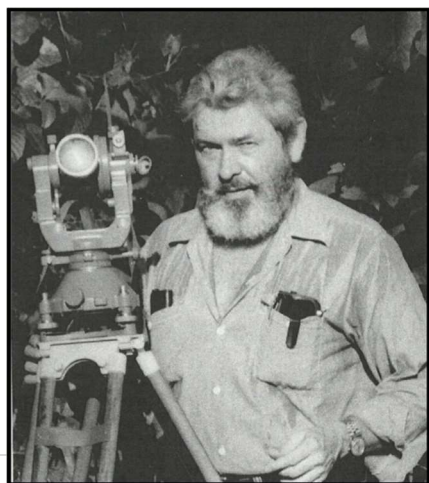


Maj. Laurence A. Frank

In 1969 Major Laurence Frank, Lt. Col. Miles Bowen, and Harold Dunc Moir, were killed when their aircraft crashed in western Venezuela. Bowen and Moir were killed immediately, and Frank succumbed to injuries four days later. Three others were injured in the crash. About five minutes into the flight, Pilot Frank notified the control tower that he was returning due to engine trouble.

Witnesses reported that the single engine Otter lost altitude rapidly and crashed 200 yards short of the runway. Dunc was a long term IAGS employee and there were lots of stories about him and his wife as they moved from country to country.

In 1979 IAGS cartographer Raymond Johns lost his life in Chile. He had deployed to Chile in 1976 to install the first GPS tracking station in the southern zone of Chile. The instrument tracked satellite signals and stored the data on cassette tapes. He was on a mission to retrieve a cassette on the day of the accident. Three Chilean Army officers also died in the crash. Ray's name is also engraved on the monument in Santiago. Ray was a long-term IAGS employee and there were more stories about him and his wife and the 6 "little Johns" in the IAGS archive than any of the others included in this report. He was from Pittsburg, served in the US Navy and graduated from Penn State in 1953. Personnel records show a rapid progression, moving from a GS-07 cartographer in 1959, to a GS-11 in 1961. Ray's other duty stations included Panama, Bolivia, Trinidad, Havana, Paraguay, and Brazil. Ray was in Cuba when Castro took power and there was a great story in Que Pasa about destroying records before leaving. In one of the last photos of Ray, he could have been the model for the Dos Equis "Most Interesting Man in



the World.” Given all of his assignments, and the other stories Bruce shared, I can imagine listening to him in a third world bar until the sun came up.

While the work was dangerous, I think the IAGS family knew how to have fun. Times were different back then, especially in the 50s and 60s, but the wives clearly kept the IAGS ‘family’ together. Over various periods there was significant documentation of the welcome and farewell parties, dances, and picnics. There was one picture that caught my attention, of a group of 6 women at a party drinking and smoking.



One of other my favorite stories was from a National Geographic Society press release in 1966. It told the story of a group of mountaineers announcing they were going to attempt to ascend a previously un-scaled mountain in Central America. They were successful. When they reached the summit, they found an IAGS survey marker embedded in the rock. Two years earlier, an un-named IAGS engineer had made the ascent, installed the marker, made his measurements, and then climbed down to take on his next assignment.

There are thousands of other stories captured in the IAGS archives that illustrate the resolve and commitment of the IAGS men and women as they went about their day to day “routine”.

If you are interested in getting a sense of what life was like, a search for IAGS and Big Picture will lead you to a 1964 YouTube video.

I’d like to mention some who provided helped with the research - Chuck Guyswyte, Bill Caniano, Lisa Wagner, Steve Conner, Bruce Johns, Candy Frame, Irv Buck, John Furrer, Paul Hauser, Martin Lassar, Ange Meoli, Wayne Miller, Ed Obloy, Liam O’Brian, Vern Perdue who unfortunately passed last week a few days shy of 97, Charles Smith, Brock Covington, John Tomasovitch, Ron Bower, Lidia Lopez, JP Roa, Coralí González, Bob Zebell, my wife, Diane and, of course, thanks to the talented staff of artists and designers in OCC for creating this memorial and to all the staff who made today happen.

Finally, I’d like to announce that these 34 men have been given honorary membership into the Alumni Association.

Thank you for attending.

Here is the link to the IAGs dedication: <https://www.youtube.com/watch?v=TCY65o3Mm2w>



HOMENAJE A LOS CAIDOS EN ACTOS DE SERVICIO				
GEOGRAFO	EDMUNDO	ALVAREZ	A.	1951
SOLDADO	RAUL	OSORIO		1952
ALARIFE	MARIO	LETELIER		1952
INGENIERO	DONALD	NEWBURY		1952
INGENIERO	RICHARD	LUCAS		1952
ALARIFE	SIGIFREDO	VALENZUELA	G.	1953
HELIOGRAFISTA	ERNESTO	PINILLA	V.	1953
ALARIFE	JULIO	NARVAEZ	O.	1955
ALARIFE	FERNANDO	VERA	H.	1955
CABO 1	MANUEL	JESUS MUNOZ		1963

GEOGRAFO	NELSON	ARANEDA	C.	1966
CARTOGRAFO	GUSTAVO	CARVALLO	M.	1966
CARTOGRAFO	ORLANDO	BALBOA	M.	1968
INGENIERO	RAYMOND	JOHNS		1979
TOPOGRAFO	MARIO	BENAVIDES	M.	1981
TENIENTE	RICARDO	VISCAYA	F.	1981
SUBTENIENTE	EDUARDO	REYES	V.	1981
CABO 2	RAMON	SEPULVEDA	P.	1981
TENIENTE	JUAN PABLO	BASCUR	G.	1979
TENIENTE	MARCO	TEODOROVIĆ	S.	1979
CABO 2	ERNESTO	BASCUÑAN	D.	1979

Diane and Jack Hild in Santiago, Chile, 2019, placing flowers at a memorial to those who died mapping Chile. Three members of IAGS are recognized on the memorial.

The table provides a summary of the author's findings. Thirty-four US personnel lost their lives in support of the IAGS missions.

US Fatalities Supporting the IAGS mission		
Confirmed	Location of Accident	Date
CPT Hugh L. Broyles	Bolivia	21-Nov-60
T-Sergeant Joseph B. Wegener	Venezuela	22-Sep-48
2nd Lt John Hunter Morrison Jr	Panama	4-Jul-49
CPT Langdon C. Tennis	Panama to Belize	17-Oct-49
CPT August J. Cronin	Panama to Belize	17-Oct-49
CPT John W. Hilter	Panama to Belize	17-Oct-49
T/Sergeant George N. Davis	Panama to Belize	17-Oct-49
S/Sergeant Jules J. Carson	Panama to Belize	17-Oct-49
S/Sergeant John J. Hayes	Panama to Belize	17-Oct-49
Sergeant Ralph Searce	Panama to Belize	17-Oct-49
CPT Harold W. Woodson	Guatemala	31-Jan-50
CPT Erwin P. Wolf Jr.	Guatemala	31-Jan-50
M/SGT Thomas A. Brown	Guatemala	31-Jan-50
S/SGT Howard B. Walton	Guatemala	31-Jan-50
Lt Owen Bickford	Costa Rica	17-Aug-50
MAJ Robert Smedley	Costa Rica	17-Aug-50
Mr. Richard W. Lucas	Chile	7-Mar-52
Mr. Donald Newbury	Chile	7-Mar-52
CPT Joseph Bermudez	Colombia	12-May-54
PFC Martin J. McCarthy	Colombia	12-May-54
Cpl Frank. B. Carpenter	Costa Rica	10-Mar-55

CPT Kenneth M. Funchess	Costa Rica	10-Mar-55
1Lt Walter (Bud) H. Rogers	Equador	7-Dec-58
CPT Orrin H. Deuel	Bolivia	21-Nov-60
Sp4 Joseph R. Karson	Bolivia	21-Nov-60
MAJ Richard Farnham Conner	Peru	20-Aug-64
SGT David D. Johnston	Peru	20-Aug-64
Capt Castle Farish	Venezuela	9-Sep-68
MAJ Charles M. Crowe	Bolivia	4-Oct-68
Mr. Richard (Dick) Hayward	Bolivia	4-Oct-68
LTC Miles W. Bowen	Venezuela	11-Apr-69
Mr. Harold (Dunc) Moir	Venezuela	11-Apr-69
MAJ Laurence (Larry) A. Frank	Venezuela	15-Apr-69
Mr. Raymond Johns	Chile	22-Feb-79

Status of the New NGA Campus West

November 2022



Next NGA West Program Director Sue Pollmann speaks at the enclosure ceremony Nov 30th. Photos by Kari Siltz, Office of Corporate Communications

On November 30th NGA celebrated another milestone on the path to the completion of its new campus in St. Louis. The structural flooring, walls and ceilings are complete, and the building is sealed. Now the teams are busy painting, and installing ceilings, lights and plumbing fixtures. The campus is well on its way to being ready to move in in 2026. More information and photos can be seen at this link:

https://www.nga.mil/news/New_NGA_Campus_Under_Construction_in_St_Louis_Reac.html

Map Reading for School Teachers in the 1970's

Karl Broom

The summer of 1970, my last at the University of Oregon, through no fault of my own, I ended up teaching a summer school course in map reading for schoolteachers.

My mother-in-law, a grade schoolteacher was fascinated by the information my wife and I extracted from topographic map sheets when we were looking where we might go for a hike. She realized there was information that would help her prepare for classes. (I loved the high Cascades, but never could convince my wife to hike in that area even if no climbing was involved.)

My mother-in-law asked if the Geography Department, where I was a grad student had such a course. My answer was "No." Her response was "Well, why not?" With her prodding and assistance, I developed an outline for a summer school course and gave it to the Department Chair. A couple of days later, he called me into his offices. He liked it and said that the lead Cartography Professor would teach, and I would be his Teaching Assistant. Sounded good and with the Cartography Professor we began preliminary planning. A few weeks later the Professor departed on sabbatical, several months earlier than planned. I went back to the Chair to ask what now? The Chair answered "You are it! It is all yours!"

My mother-in-law was pleased. In other words, no good deed goes unpunished.

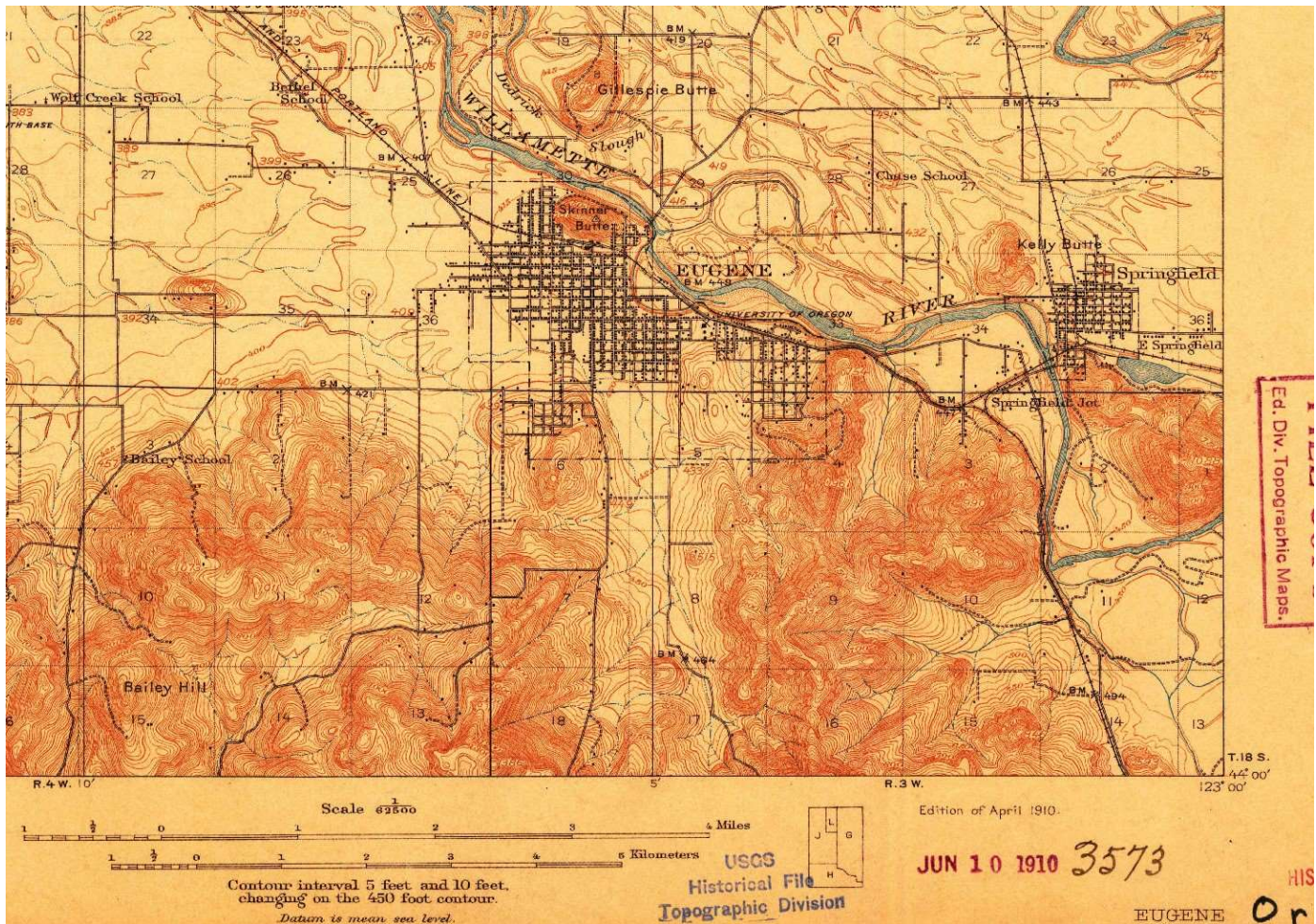
My wife and mother-in-law were the guinea pigs for my ideas for lectures and exercises. They asked questions about what I planned for the lectures and helped me improve the hands-on exercises.

In the first class, after everyone introduced themselves—their educational background, school and grades taught, etc. I began the first lecture by defining our objectives. My intention was to spend most of our time discussing topographic maps. But I started with ordinary road maps and the assumption that, like my mother-in-law, all my students, most with at least a master's degree, knew what a road map was and understood it well enough to navigate from Eugene to Portland, Oregon.

Bad assumption! After a few minutes of puzzled looks, rather like my Airedale Terrier that knows I want her to do something, but doesn't have a clue what that might be, I recognized that I had a problem. I asked a few questions. Most didn't know what a map was – any map. And none knew how to use one to travel from one city to another. Topographic map? What's that? That was even more of a mystery?

So, it really was back to basics. What is a map? I'll spare you all of that since many of you are cartographers and all of us are life-long users of all sorts of maps. And some of you are probably like me and are addicted to old maps, especially ones showing where our ancestors lived decades or hundreds of years ago.

For typical topographic maps, prepared by the US Geological Survey, I expected most would be interested in both geospatial and historic features. When was a church built? What were the limits of the urban area at the time the map was published? What are they today? What is the elevation of the land around the school? How steep are the slopes of nearby hills? What is the vegetation nearby? Etc.



A portion of the 1910 topo sheet we used for comparison to see how things had changed. Perhaps the greatest difference, other than scale, was the lack of vegetation on the older map.

Key to understanding maps:

- Purpose
- Scale – expressed as a ratio of inches per mile
- Marginal information – always read it. All of it! (My failure to notice a contour interval change caused me to fall into steep gully while looking for a shallow stream channel. A hazard of land navigation at night while on an Army exercise.)
- Surface cover
- Built up area
- Historic annotations
- Projection – mention of different projections for various types of maps, but not otherwise discussed.
- Magnetic declination.

I didn't think it would be necessary to pay more than passing mention because my intention was to help the students understand what was on the maps that might be helpful in preparing for instruction in their classes. After the first lecture or two, it was clear that the students wanted to learn the basics of land

navigation with map and compass. Fortunately, the prep was neither difficult nor time consuming because I had taught that subject when I was a training officer for a Military Intelligence battalion in the Army a few years earlier.

So, what's on a topographic map? We walked through some of this together in class. We also had several homework exercises to be done individually. The specifics varied from one exercise to the next but would have looked something like the following:

- What is located at geographic coordinates _____?
- What is the distance from point A to point B? Are there terrain features that would preclude seeing one from the other?
- When was the church in Coburg built?
- What is the height of Skinner's Butte above sea level, and above the Willamette River at its base?
- What topo sheet is NW of Eugene East Quadrangle?
- What is the source material for items shown in purple?
- And then a practical exercise with map and compass: What is located on a magnetic azimuth of ____ at a distance of _____ yards? If one proceeds on an azimuth of _____, what is located behind the hill you encounter?

The final exam included two parts.

- Land navigation with map and compass that could be completed in an hour or two without driving, mostly on the University of Oregon campus.
- And the practical exercise that looked much like the topics covered in class but focused on material each student could use to prepare for their own classes. A "correct" answer for this would not be reasonable because the dozen or so taught grades from 2nd or 3rd through high school. I asked students to extract information from topo sheets in their part of the state (and one from California) to illustrate what they were using, how it benefitted their lesson plan, and explain why in a sentence or two. I was pleased with the results because they clearly understood how to extract useful information, they would not otherwise have been able to find from other sources and incorporate it into their lesson plans.

One of my students was so good that I recommended he teach the course the summer of 1971 if the class was to be offered again. Fast forwarded to 2022 from the 1970's; (a mere 50+ years), we find that technology and cell phones with Google Maps and WAZE software has put a significant change in how the world deals with the need for map reading skills. cell phones with Google Maps and WAZE software has put a significant change in how the world deals with the need for map reading skills. changed in how the world deals with the need for map reading skills.

New Members

We welcomed fifteen new members to our Chapter over the summer and fall.
Greetings to all; we are glad you've joined us, and we look forward to seeing you soon!

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Membership in NGAA

We encourage all NGA alumni to join our ranks to maintain and deepen your professional and social contacts with the friends and colleagues you made from your time with the agency. Unfortunately, we can no longer offer the free membership underwritten by the Constellation Federal Credit Union as that institution has been absorbed by another credit union, which will not offer that same benefit. The NGAA-East Executive Committee is currently looking at other partners and sponsors who can offset some of our operating expenses and perhaps expand the services and experiences we can offer to our members. For a minimal cost of joining (\$40 for a lifetime membership) you get all this and more:

- Periodic newsletter to stay in touch with activities involving all NGAA and other alumni groups
- Roster with contact information of all members (not to be shared outside the membership)
- Spring and fall luncheons, one or both of which are held at NGA at their invitation.

These luncheons typically coincide with award ceremonies and/or optional unclassified update briefings. The Annual NGAA-East selection of an "NGA East Employee of the Year," from NGA nominees who have contributed significantly to the Agency's mission and their community. Selection is from NGA Campus East nominees:

- Opportunity to serve on committees that will interact with NGA on a variety of topics
- Opportunity to serve on committees that will interact with the United States Geospatial Intelligence Foundation (USGIF) on a variety of topics
- Opportunity to have input on issues brought to NGAA-East by NGA, e.g., development of an annual calendar to mark Agency milestones
- Opportunities for professional contributions to NGA's Pathfinder magazine as well as submissions to NGA paper/electronic internal employee communication capabilities
- Official venue to provide artifacts and/or memorabilia about NGA and predecessor organizations to NGA, USGIF, the Spy Museum, and others
- Support to NGA exhibits and displays
- Ability to nominate U.S. persons and/or allied partners to the Geospatial Intelligence (GEOINT) Hall of Fame
- Interface with other Intelligence Community alumni groups through the Intelligence Community Alumni Network (ICAN); provides additional linkage with former colleagues § Access to Chapter information (and applications) at www.ngaaeast.org.

There are also multiple educational and social events throughout the year to include tours, lectures, wine tastings, and happy hours.

Volunteer Opportunity at the Spy Museum

Many of the restrictions and requirement imposed by the pandemic have changed. Most museum are mainly concerned about your health and keeping you safe. As the current health crises are being contained you might consider this volunteer opportunity. Calling all SPY fans and intelligence experts! The International Spy Museum in Washington, DC is now recruiting volunteers to join their team. The International Spy Museum Volunteer Program advances the mission of the Museum by providing dependable service and being an approachable resource for guests, staff, and the diverse Washington, DC community. Enjoy meeting new people? Love espionage? You may be a perfect fit for our program. Learn more about volunteering and apply online at

<https://www.spymuseum.org/support-spy/volunteer-program/>.

Volunteer Opportunities

- Welcome guests and assist them in planning and organizing their visit.
 - Answer guest questions at the Information Desk.
 - Prepare groups for missions and educational programs.
 - Surveil the permanent exhibit and engage guests during their visit, including demonstrating Radio Frequency Identification (RFID) technology.
 - Assist and manage the execution of Private Tours.
 - Serve as the final touchpoint for guests in the Debriefing Center.
- *Additional opportunities are available with our Sales and Retail team.

Volunteer Benefits

- Uphold a long tradition of giving back to the local community.
- Provide a critical role in the guest experience.
- Positively impact the reputation of the International Spy Museum.
- Professional development opportunities and Museum sponsored field trips.
- Museum store discounts.
- Exclusive previews and tours of the new Spy Museum at L'Enfant Plaza.
- Two free tickets to the Museum per year.
- Annual Volunteer Appreciation Event.

If you have any questions, please feel free to reach out directly to Kia Hunter, Volunteer Manager, at khunter@spymuseum.org or 202-654-0957.