



THE FLORIDA SURVEYOR

November 2020
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Cover Photo by: Tiago Leonardi

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PRESIDENT'S message

November brings us one of our most sacred national holidays during which we honor all of those who have served our country in the armed services. Without the brave and selfless commitment of these heroes to the preservation of the United States, our way of life would simply not exist. We must never forget and never fail to appreciate what the cost of freedom is and must always hold our highest regards for those who have paid that price on the behalf of their fellow citizens.

In that spirit, this month we are honoring one of our past Presidents of the Society who served with distinction in the U.S. Army in addition to his storied career in surveying. In March of 2019, I had the pleasure of attending the 3rd International Congress on Surveying, Cadastral and Geospatial Sciences in Isla Verde, Puerto Rico.

A gentleman there whose name has slipped my mind asked me if I knew Buddy Bannerman. He recounted that at a conference in the early 80s, Buddy was speaking on the importance of professional societies and unity of surveyors. He took a single tall wood stake and broke it easily over his knee, saying that alone, we are easily defeated. He then lifted a bundle of said stakes, noting that together those stakes are strong and cannot be easily broken.

Buddy's demonstration from some 35 years ago definitely made an impression that is still reverberating for the gentleman I spoke with in Puerto Rico. Buddy's words from that distant date are no less pertinent now than they were originally.

Expanding upon that topic, I'd like to encourage our licensee members to begin bringing one or more non-licensed employees to their chapter meetings if they are not already doing so. Having only a small subset of the members of our profession attend our meetings functions more like a clique than a Society.

If we want to be developing the next generation of licensees and improving the understanding of people who are happy as career technicians, we must engage them in the conversations and issues that matter. Making non-licensees feel valued is an important part of what will keep them inspired to grow and excel.

The work of surveying and mapping requires the efforts of many people beyond the licensees. Creating a better environment to support the development of non-licensees is necessary to keep the profession thriving.

The Panhandle Chapter made strides in this direction with the "Party Chief's School" that they hosted last year. For 4 hours on a Friday night and 4 hours on Saturday morning over a 4-week period, local licensees rotated in teaching specific subjects to a group of local chiefs. Some areas of knowledge are difficult to develop solely with on-the-job training, and a different approach is necessary to produce greater understanding.

In short, if we want more, then we must invest more, but thoughtful investment will pay valuable dividends. Bring a non-licensee to your next chapter meeting!

Until next month, stay safe!



President

Don Elder

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donelderpsm@gmail.com

FSMS SHOUT OUT



*OUR
DEEPEST
GRATITUDE
TO
OUR
SERVICE
MEMBERS!*

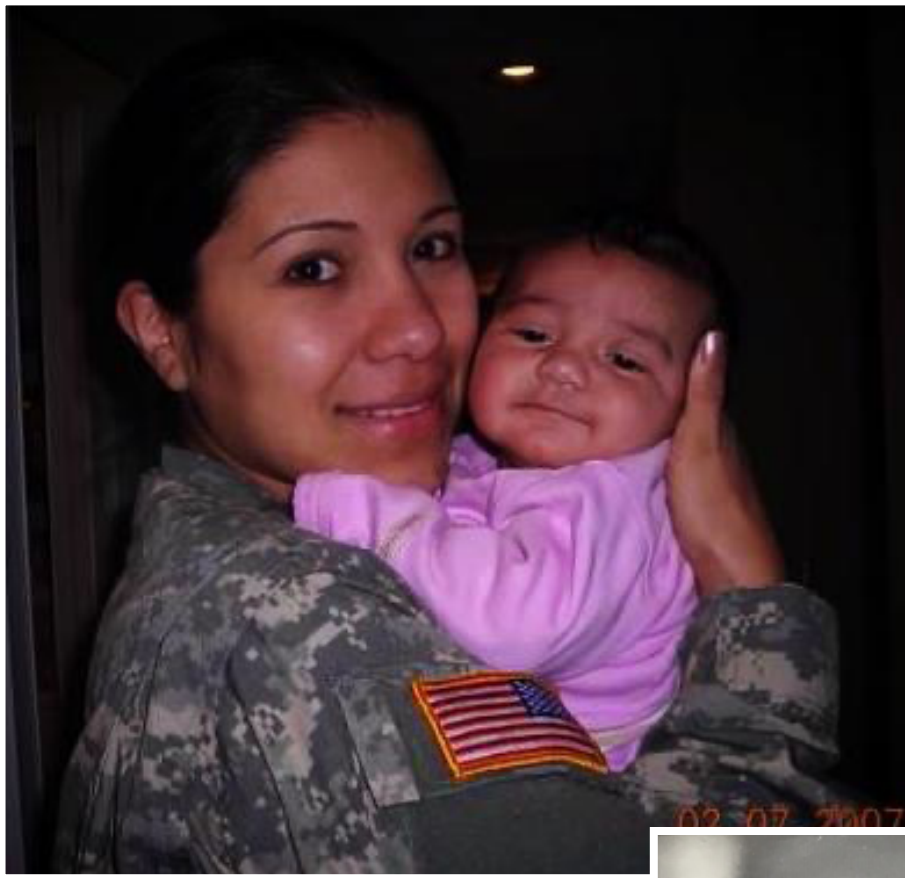
**HOWARD EHMKE'S SON, TIM SERVED IN THE MARINE CORP
AND WAS A VET OF DESERT FOX**



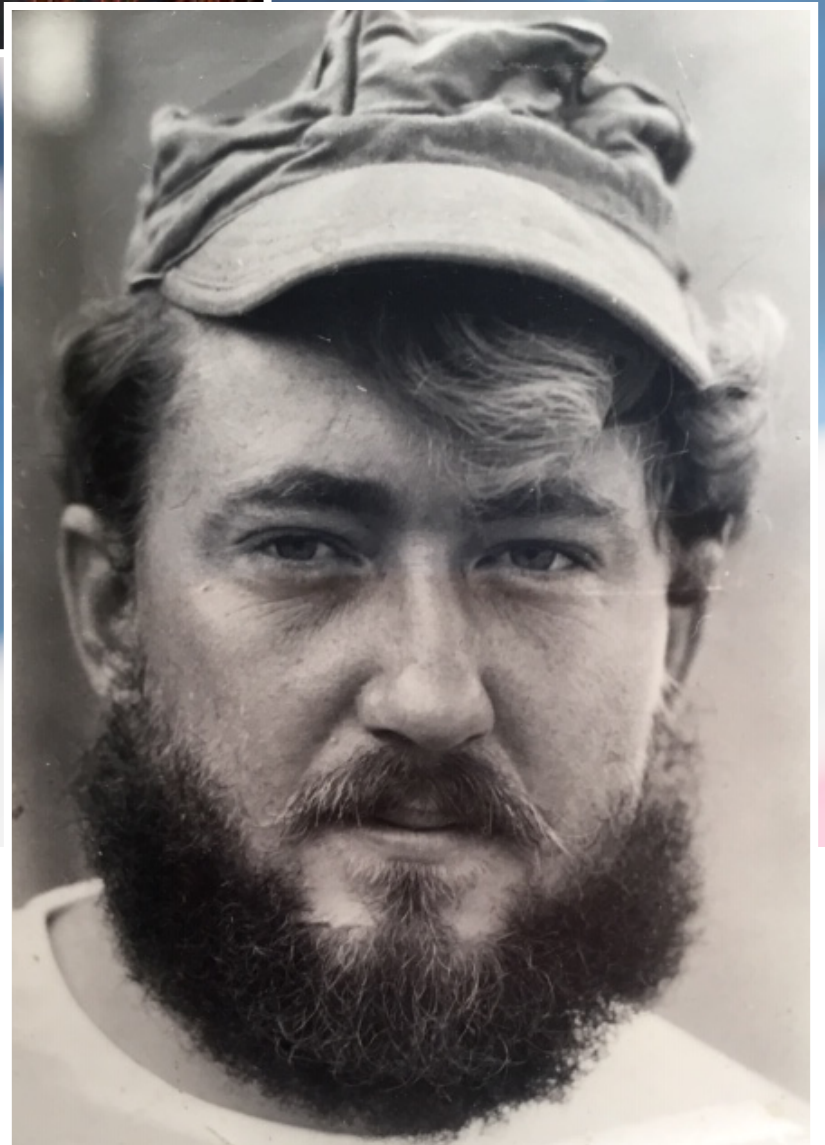
ABOVE: HOWARD EHMKE'S DAD, SERVED IN WWII AND KOREA, SECOND FROM THE RIGHT.



RIGHT: ROBIN TEAGARDEN, JR. RECEIVING HIS DIPLOMA FOR PHOTOGRAMMETRY COURSE AT IAGS (INTER AMERICAN GEODETIC SURVEY), FT CLAYTON, PANAMA CANAL ZONE IN 1958.



LEFT: LAURA WHIPPLE WHEN SHE WAS FULL TIME ARMY NATIONAL GUARD IN RHODE ISLAND, 2007.



RIGHT: CHAPPY YOUNG, EA-2 (SURVEYOR, 2ND CLASS PETTY OFFICER) SEA BEE TEAM 133-09, USN, 1969-1972 1971, TAKEN IN TRUK LAGOON, MICRONESIA.

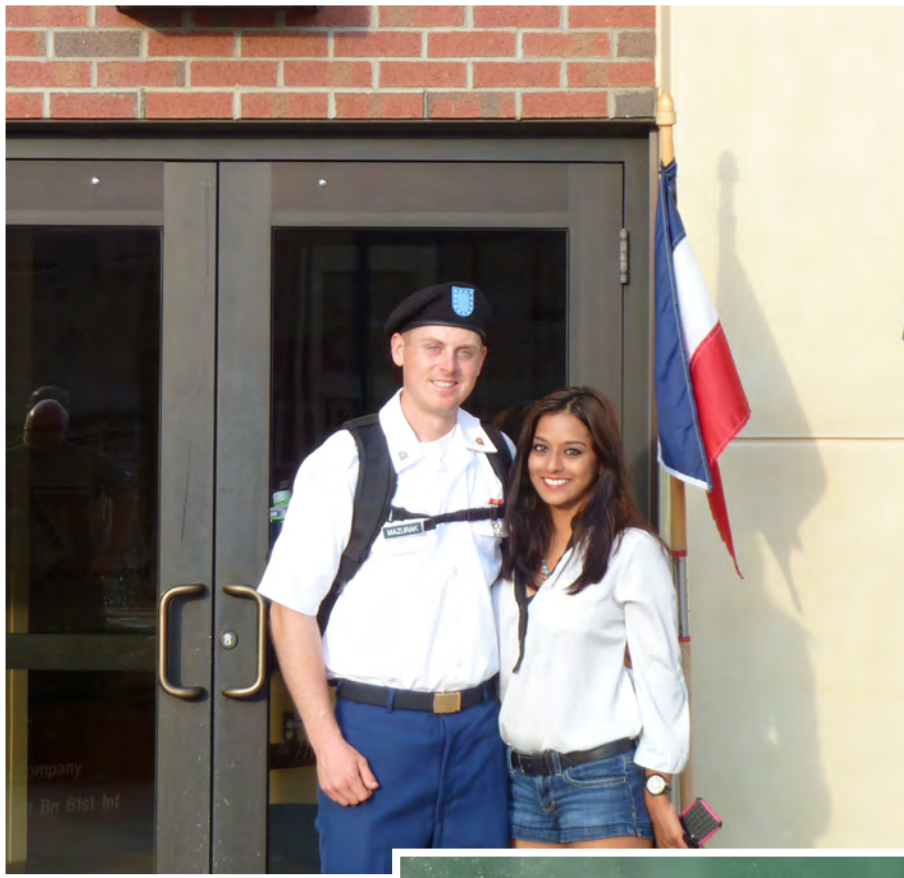


LEFT: RAYMOND F. PHILLIPS, PSM AT 16 YEARS OLD, WHEN HE WAS SERVING IN 6TH OF THE 502ND INFANTRY IN BERLIN, PART OF THE 101ST AIRBORNE DIVISION. 1983 TO 1986, BERLIN GERMANY.



BELOW: RAYMOND F. PHILLIPS MEDALS





LEFT: JAMES MAZURAK'S SON, NICHOLAS GRADUATING FROM ARMY BASIC, FT. JACKSON IN 2015 AND WITH HIS WIFE NIKKI. HE IS IN THE ARMY RESERVE. HE IS CURRENTLY A PARTY CHIEF FOR MASER CONSULTING AND TAKING COURSES AT UF IN ORDER TO BECOME A FUTURE PSM.

BELOW: FAMILY DAY SMOKE BOMBS



PHOTO BY: DOUG BEACH

LEFT: MARC MUROFF AND HIS TWIN BROTHER HOWARD MUROFF.

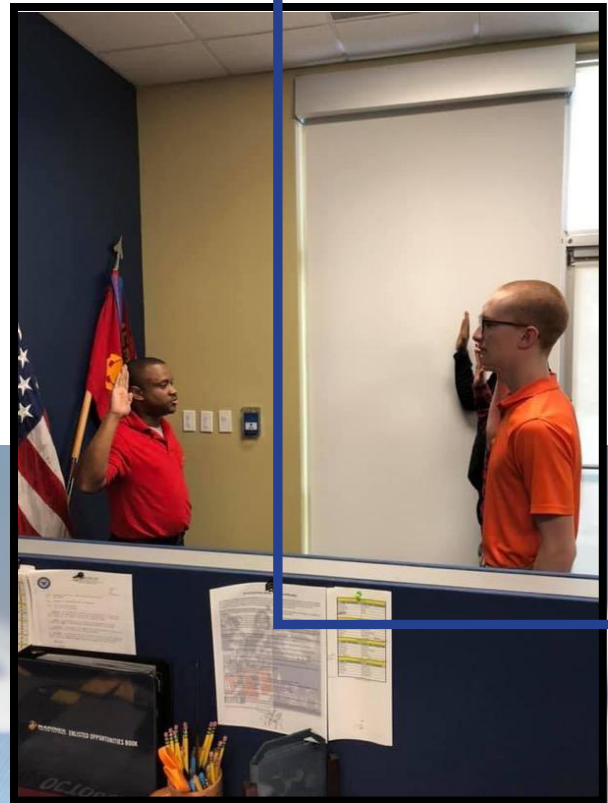


BELOW: MARC MUROFF'S ARMY BDU'S.



HQ. CO., 1st A.R.B., 124th INF (TALLAHASSEE, FLA.)
GOVERNOR'S GUARDS
CO. CAPT. W.B. LANGLEY
1st SGT. C.M. BAXLEY
FT. STEWART, GA
AUG. 1959
TIFFANY 259

OUR FEATURED FSMS PIONEER: BUDDY BANNERMAN! HQ Co., 1st ARMORED RIFLE BATTALION, 124TH INFANTRY, FLORIDA NATIONAL GUARD FROM TALLAHASSEE AT Ft. STEWART, GEORGIA DURING ANNUAL TRAINING, AUGUST 1959.



THIS PAGE:
ROBERT J BREEDLOVE, PSM, RLS'S
GRANDSON, MICHAEL ASHTON, ENTERING
THE MARINE CORPS ON 10/12/20. HE WILL
BECOME A FIFTH GENERATION MARINE IN
THEIR FAMILY WHEN HE COMPLETES
BOOTCAMP.





ABOVE: BRIAN MURPHY, PSM'S FATHER, ED MURPHY, M.D.(RIGHT).

IN A FORMER LIFE, ED MURPHY WAS A RADIO SHOW HOST. ACCOMPANIED BY A DEEP RADIO VOICE, HE RECEIVED HIS F.C.C. RADIO BROADCAST LICENSE IN THE 60s. EVENTUALLY HE HEADED THE CALL TO PURSUE A CAREER IN MEDICINE, FOLLOWING IN HIS FATHER'S FOOTSTEPS AND AFTER FINISHING HIS MANY RESIDENCIES AND INTERNSHIPS REQUIRED FOR ANESTHESIOLOGISTS, HE JOINED THE NAVY AND BECAME AN OFFICER, EVENTUALLY ATTAINING THE RANK OF LIEUTENANT COMMANDER. THIS PICTURE IS OF HIM VISITING WITH THE POPULAR SYNDICATED RADIO SHOW HOST, "PAPPY" LINN, WHO BROADCASTED OUT OF PENSACOLA.

SHORTLY AFTER BECOMING AN OFFICER, HE WAS RECRUITED TO GAINESVILLE, TO WORK JOINTLY AT SHANDS HOSPITAL, AND THE V.A., ACROSS THE STREET.

IN 1978, THE MURPHY FAMILY ADOPTED BRIAN AND SADLY TWO MONTHS LATER, ED MURPHY PASSED AWAY FROM NATURAL CAUSES. AS A TWIST OF FATE, BRIAN WOULD GO ON TO GET HIS MASTERS IN URBAN PLANNING FROM U.F. HIS THESIS WAS RELATED TO DEVELOPING A WEB BASED GIS IN SUPPORT OF THE NAVAL EDUCATION TRAINING COMMAND (NETC), WHICH JUST SO HAPPENS TO BE HEADQUARTERED IN THE FORMER NAVY HOSPITAL BUILDING IN PENSACOLA, WHERE ED MURPHY WAS STATIONED IN THE 70s.



LEFT: FROM DANNY WILLIAMS' US NAVY DAYS



RIGHT: STEPHEN GIBBS, SERVED IN THE ARMY 1968-1970. IN SOUTH KOREA FROM 1969 TO 1970 WITH THE RANK OF SERGEANT AS MILITARY POLICE. DURING THIS TIME IN SOUTH KOREA AS MILITARY POLICE WAS ASSIGNED TO AND WORKED WITH CRIMINAL INVESTIGATION DIVISION.



THIS PAGE:
JIM SULLIVAN LEARNED SURVEYING WITH THE ARMY. HE TRAVELED ALL OVER THE WORLD SURVEYING FOR INFRASTRUCTURE IMPROVEMENTS ON US MILITARY FACILITIES AND ALIAS (PEACE KEEPING PROJECTS). THE PEACE KEEPING PROJECTS RANGED FROM WATER WELLS, BRIDGES, CLINICS, AND SCHOOLS.

PHOTOS ARE FROM YEARS 1997 - 2000.



Many conveyances or interests of land are done by a sketch of description; although all are done with a legal description, many do not have a sketch that should. With interests of land for whatever use is determined by the legal instrument has a purpose. Easements, ingress/egress, an impaired body of land or water, conservation area, and many other uses. In government, we rely heavily on sketches of description, as this in most cases the agency taking or requesting an interest for public services or public benefit.

Our agency relies on both the sketch and description and have a verified legal description form that denotes the sketch and or legal description that was reviewed and accepted for Planning items. The instances would be for masterplans, planned developments, rezoning, annexations, and vacations.

The importance of having a clear understanding or intent of the conveyance or legally described land or portion thereof is crucial for both the agency and the land interest it affects. I do not see the same care given to a sketch of description or just a legal description, as they do their other products in which they prepare in several cases I have reviewed. Is that because of the words accompanied, *"this is not a survey"*? That should not factor into the items we sign our names, and the effort we put into their creation.

Many thanks should be given to Todd Boyle, County Surveyor with Manatee County in his outreach for the importance of a sketch of description and the sketch accompanying said description. The description of lines and monumentation is instrumental in keeping out interpretation of a legal description. We do not want to interject opinion into a legal description if we do not have to. We know in many cases we must because of the lack of information, a scrivener's error, or even improper calls.

I attended several meetings when 5J-17 was being re-written, and in most instances, I saw Todd there; he was telling the board the issues with sketches of description. He is correct; I think this is mostly seen at the time of creation by government surveyors. At some point, all surveyors will be affected if they encounter said instruments. Scratching their heads, *why is there no sketch?* *Would it appear there is a scrivener's error?*

So to all the government surveyors, we all feel the same pain! To the private surveyors who prepare an excellent product, thank you very much. To those who give little care to the sketch of description, you can do better! The argument I always hear is, only surveyors should be preparing legal descriptions. If that is the case, we must give them a reason, and not leave it to *we are the most qualified!* Our first job is to protect the public; this includes making sure the instruments we prepare are correct.

Sincerely,
Richard Allen

You can reach me at Richard.Allen@orlando.gov or 407.246.2788.

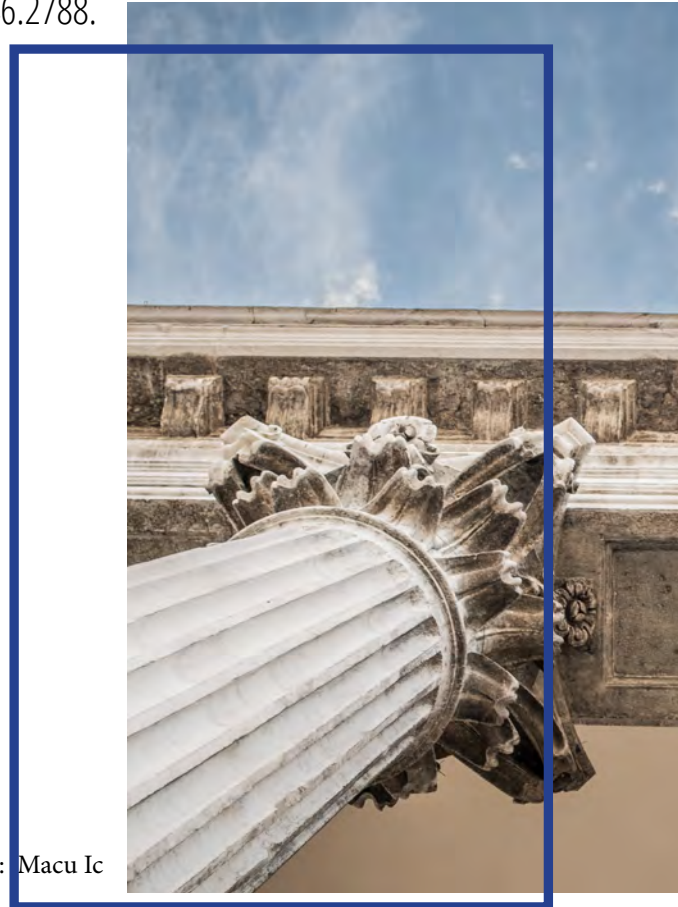


Photo by: Macu Ic



VERIFIED LEGAL DESCRIPTION FORM

MUNICIPAL PLANNING BOARD

The following legal description has been prepared by Who prepared the legal, if surveyor also include the company and submitted to the City Planning Bureau for verification.

Signature

Date

Application Request (Office Use Only):

File No. ANX#

Legal Description Including Acreage (To be Typed By Applicant): include where the legal came from, deed, surveyor prepared, attorney, etc.

1 OF 1

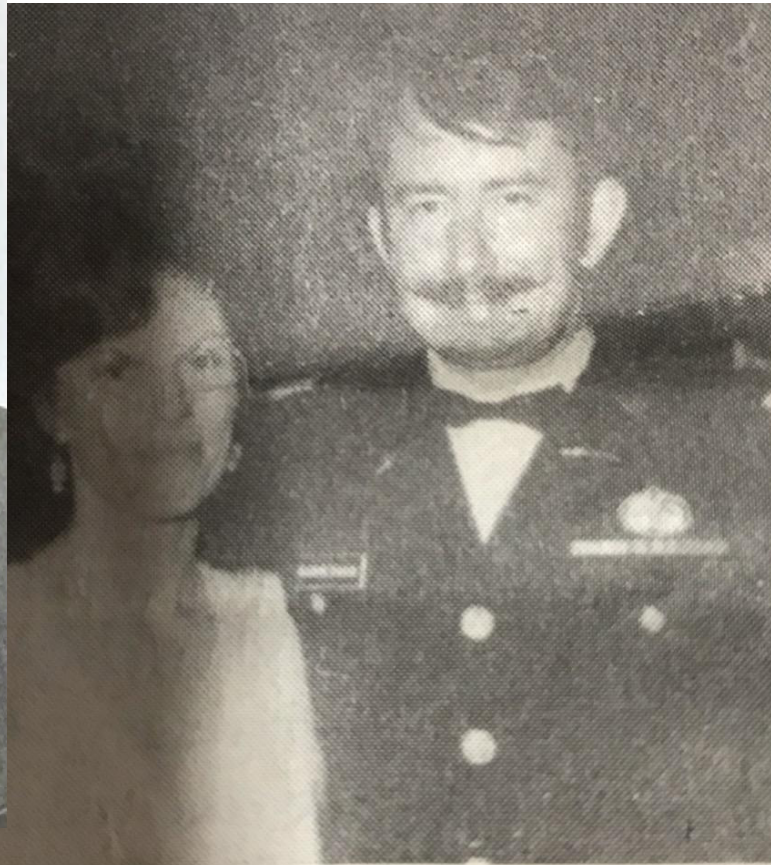
(6) Descriptions/Sketch to Accompany Description:

(a) Descriptions written by a surveyor and mapper to describe land boundaries by metes and bounds shall provide definitive identification of boundary lines.

(b) When a sketch accompanies the property description, it shall show all information referenced in the description and shall state that such sketch is not a survey. The initial point in the description shall be tied to either a government corner, a recorded corner, or some other well-established survey point.

This portion of 5J-17 was from the effort of Todd and the board's concern that he raised.

5J-17.052



Buddy and Sharon



**C.O. CAPT. WM. B. LANGLEY
1st SGT. MELVINS. TERRY**

**H & S CO 124 ARMD INF. BN. FT. STEWART, GEORGIA. JUNE 1958
(TALLAHASSEE, FLA.)**

TIFFANY

Exemplary Qualities

Some of the finest and scarcest qualities found in a person seem to be modeled by those who are not boastful, endlessly looking for praise. Instead they are driven by a sense of duty and purpose, their characters focused squarely on maintaining order and upholding high moral standards. Robert A. "Buddy" Bannerman is one of these rare breeds, proving one can uphold high standards while also holding family and community in high regard.

A Family Legacy

Robert A. Bannerman aka "Buddy" was born June 25, 1938 to the late Robert C. Bannerman, Jr. and Marie Bowles Bannerman. His mother retired with the State of Florida working in the Workers Compensation Division and his father retired from the State Road Department of Florida (now the Florida Department of Transportation) as a registered land surveyor and civil engineer.

Buddy started surveying around 1954 with his dad, Robert C. Bannerman, Jr. while attending Leon High School in Tallahassee, Florida. "My grandfather was responsible for the skip and fog lines you see on the highway today," says his grandson Scott Bannerman, PSM, PLS.

Longtime FSMS Member and FSMS President from 1999-2000 Jack Breed describes Buddy as a consummate gentleman. "Buddy was a great leader in our profession and our Society. His wife Sharon was always at his side, participating in every FSMS function. As a young member of the Board in the 80's, Buddy and Sharon always spent time with my wife Kristi and I, and we developed a strong personal friendship over the years," says Jack.

Buddy established Bannerman Surveyors, Inc. with his wife, Sharon in 1975. In all, he totaled over 60 years of land surveying. "Mom was right by his side for all these years doing secretarial work as well as finances," says Scott.

The merging of family with his trade came naturally to Buddy after receiving years of guidance from his father, so for his wife, Sharon to join him in the business was purely instinctual. Working closely with his wife for over 50 years and always holding her in high esteem proved to be the ultimate lesson in how to cherish your spouse.

"My Dad taught me by example in how to treat your spouse like a queen and how to raise a family. I know now after being married for 29 years and counting, raising two children and being blessed with two grandchildren just how important good, loving and caring parents are," says Scott.

Buddy and Sharon's life together has always intertwined hard work, faith, and community service. He has been a member of the First Presbyterian Church in Marianna for most of his life and served as an elder for over 46 years.

Mettle and Allegiance

"My Dad was a captain in the United States Army, Green Berets for 19 years from the early 60's to the late 70's. Entering into the Special Forces is like daylight and dark. At the time he was a Green Beret, only 5 out of 100 made the grade to be accepted," says Scott.

The Green Berets are an elite group who have the mental perseverance and survival skills necessary to keep their team safe. They perform operations in small teams to conduct surveillance in hostile territory, execute strikes to capture enemy material, and provide leadership and training to foreign allies to curtail security threats. According to goarmy.com, "candidates are also expected to demonstrate a proficiency in land navigation, one of the most important skills of a Special Forces Soldier."

Buddy participated in many operations all around the world. After serving with U.S. Army Special Forces he moved to Marianna, Florida and continued his service part time as a paratrooper with the 82nd Airborne based in Fort Bragg, North Carolina. He and his dad practiced surveying in Marianna until 1975 when his dad passed away.



A Serendipitous Meeting

Buddy's life changed when he met Sharon in 1973 at Camp Blanding Joint Training Center located in Starke, Florida. Though dutiful to his training, Buddy was ready to become a family man and knew instantly that he would spend the rest of his life with Sharon.

"They married in 1974 and are currently on 46 plus years and counting. Buddy adopted Sharon's children making them the "Brady Bunch", says Scott.

Their children are Deborah Mathewuse, Nancy Tew and husband Gary, Susan Massengill and husband Rance, Kathy McCrary, Laurie Massengill and husband Greg, Scott Bannerman and wife Mendy.

They have eight (8) grandchildren, Kristin Spradlin, Kelley Kindelspire, Kevin Tew, Chelsey McCrary, Brandon Massengill, Jaren Bannerman, Courtney Clemmons, Gage Bannerman and nine (9) great grandchildren, Brooke (12), Leah (9), Rhett (2), Avery (5), Ellaree (2), Kamdyn (8), Charlsie-Grace (3), Crixus (1) and Alivia (8 months).

Stalwart and Committed

Insistent on executing surveys by the book, the community knew they could rely on Buddy to deliver a correct and fair property survey. "He loved surveying because there was always a challenge. He has always believed in doing it right or leaving it alone," says Scott.

Buddy's business savvy included a knack for interpreting legal descriptions that in many cases did not fit on the ground. He was one of the best in sitting down with clients or adjoining property owners and explaining why or how boundary conflicts existed. "Some of his best advice to me was to never back away from any situation - eventually you will figure it out," Scott says.

Another memorable trait was his willingness to take on challenges no one else wanted to take. Anytime others backed away from resolving property discrepancies, Buddy stepped up to rectify the situation. He always did what was right and coined the phrase, 'No job is too big.' Not surprisingly, Buddy also served on the Jackson County Planning Commission for several years and helped in that role to solve many property problems.

Scott says, "Some of my fondest memories with my Dad are being able to survey in the swamps of the Econfina at the young age of nine. Even though I was probably just in the way and always under his feet, he never once said no, and I was always a part of what he did. The one thing he always instilled in me was referred to as The 7 P's: Proper Planning and Preparation Prevents Piss Poor Performance."

"In 1989 Bannerman Surveyors, Inc. was one of the first firms in Florida who possessed Global Positioning System (GPS). We established Latitude and Longitude on four radar sites in the country of Iceland for the US Department of Defense. I am probably one of only a handful of Land Surveyors in the state of Florida who can say they surveyed the four corners of the country of Iceland. This is one memory I will always hold close," says Scott.

Grit and Tenacity

As FSMS President from 1983-1984, Buddy was known to conduct the meetings with a booming voice while handily wielding an ax handle instead of a gavel. The rest of the board members knew when he cleared his throat, it was time for business. Though strict, he also had a reputation of being very honest, dedicated, and fair.

Buddy's military background played a large role in solving life's problems and adversities. "I never saw him panic or make hasty decisions. He always had a plan and like a good father, he never showed his children a fear of failure if there was any," says Scott.

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AN AFFILIATE OF THE AMERICAN CONGRESS ON SURVEYING & MAPPING

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TO: Members, Officers, Board of Directors,
Administrative Staff
FROM: Buddy Bannerman
RE: Year End Report
DATE: September 17, 1984

As my term as President comes to a close I want to thank each of you for the confidence and support you have shown me during my term as President. Sharon and I will always be indebted to you for the hospitality and kindness shown us when we have visited your areas.

Recently I sent to you a letter outlining many of the achievements that our society has been able to achieve this year, only thru the unified efforts of the officers, directors and the membership.

As you read thru the remainder of this booklet, which contains committee reports, staff activities and chapter reports you will be better able to see the many accomplishments that our profession has made in every area of the state.

I would only ask that you continue to give the support to future administrations to insure the continued growth and achievements of our profession.

A brief resume of some of my activities as President elect and President during the last year are as follows:

- September - Install officers - Collier Lee Chapter - Naples; Attend Annual Meeting - Tampa; Install Officers Northwest Fla. Chapter - Tallahassee.
- October - Meeting in Tallahassee regarding lawsuit.
- November - Committee chairman meeting - Tallahassee

HENRY T. VINSON, Executive Director
119 North Gadsden Street, Tallahassee, Florida 32301
(904) 222-9146/222-0218

- August - Installed Officers of Northwest Florida Chapter - Tallahassee - Misc. meetings FSPLS - Tallahassee - Meeting with North Carolina Society of Land Surveyors NSPS and SAPLS Meeting - Raleigh, N.C.
- September - Committee Chairman meeting - Tallahassee Installed Officers at North Central Florida Chapter - Gainesville Board of Directors Meeting-Jacksonville Attend Annual Meeting - Jacksonville

There have been many trips and meetings not listed with attorneys, State Board meetings, meeting with legislators to numerous to list.

This report could not be completed without a special thanks to Henry and Jeannie for the magnificent job they have done.

I thank each of you for the honor to serve as President of this society and the worlds' oldest and greatest profession.

Respectfully submitted,

Buddy
Robert A. "Buddy" Bannerman
President

President and Executive Director visit Central Florida Chapter. Meeting FSPLS office - Tallahassee.

- December - Board of Directors Meeting - Tallahassee; Christmas Banquet - Panhandle Chapter - Pensacola.
- January - Install officers Panhandle Chapter - Pensacola - Committee Chairman Meeting - Tallahassee - ACSM/NSPS and SAPLS Meeting - Atlanta.
- February - Visit Tampa Bay Chapter - Tampa Committee Chairman Meeting - Tallahassee Education Committee Meeting - Tallahassee
- March - Jr. & Sr. Party Chief Seminar - Panhandle Chapter - Pensacola. Board of Directors Meeting - Tallahassee.
- April - Short Course at University of Florida - Spoke at banquet - Gainesville - Installed Officers - Student Chapter - Gainesville - Installed Officers - Broward County Chapter - Ft. Lauderdale - Committee Chairman Meeting - Tallahassee
- May - Spoke at FLTA Seminar - Marianna Meeting at FSPLS Office - Tallahassee Numerous trips to Tallahassee to visit with legislature - Attend Banquet at Manasota Chapter - Bradenton.
- June - Joint Meeting FLTA & FSPLS - Jacksonville Board of Directors Meeting - Tallahassee.
- July - Committee Chairman Meeting - Tallahassee - Misc. meetings FSPLS - Tallahassee. Attend Chapter meeting Northwest Florida Chapter - Tallahassee.

During his tenure, Buddy and the FSMS Board Members were responsible for enacting the registration requirement for anyone conducting surveys in the state of Florida. "One of his favorite memories was when FSPLS, now FSMS, along with the help of many large donations, decided to purchase the FSMS building in Tallahassee.

In the early 1980's Buddy along with the help of Bunk Hood, former District 3 Surveyor for the FDOT, formed the Society chapter for the area surrounding Marianna now known as The Chipola Area Chapter.

Buddy also served FSMS as governor for The National Society of Professional Surveyors (NSPS) for several years where he attended meetings in many states and was involved in solving surveyor's questions all over the United States.

His positive attitude served him well at FSMS, earning him three prestigious awards: Director of the Year, 1982; H.O. Peters Surveyor of the Year, 1991; and Life Member, 1992.

Skilled Outdoorsman

A trait Buddy shares with many surveyors is his love of the outdoors. He is a true naturalist with a special interest in animals. He had a lasting friendship with the late Ross Allen, a world-famous herpetologist.

Ross Allen owned the Reptile Institute in Ocala, Florida from November 1929 until it's sale in July 1965, to what is now Silver Springs State Park. Buddy would aid Ross by spending countless hours rehabilitating countless animals, including snakes, alligators, and crocodiles.

To assist in his outdoor activities, he owned many pieces of unusual equipment, a surveyor's 'toys', such as the Marsh Master. Buddy was also an avid pilot. He made many trips with his Cessna 172 traveling all over and served on the Tri County Airport Board.

"Buddy is a true outdoorsman who loved hunting and fishing. My parents purchased a cabin in Gunnison, Colorado and spent every winter hunting elk and mule deer. There were also many summer vacations that included the grandchildren," says Scott.

Faith and Devotion

While health concerns in recent years have prevented him from continuing to practice the surveying occupation which he cherishes, the love of his life Sharon remains by his side while they navigate life after closing the doors of Bannerman Surveyors, Inc. in 2019.

They remain dedicated to their family and community, remaining active with the First Presbyterian Church in Marianna and The Marianna Lions Club. They enjoy keeping up with yardwork and spending time with their children, grandchildren and great grandchildren. There is never a day that goes by that you will not find Buddy tinkering or designing a new plan for his next project.

Additionally, Buddy received The Life Member award from the Lions Club in 2020 where he has continued to serve for over 60 years.

We proudly honor this great FSMS Pioneer, Buddy Bannerman, for his dedication in furthering the surveying profession and the high caliber of integrity in which he has conducted his life.



2020 UPDATED EDUCATION COURSES!

CHECK OUT PAGE
25 FOR DETAILS



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Issue 22 October 2020

NSRS Modernization News

For all issues of **NSRS Modernization News**, visit:
geodesy.noaa.gov/datums/newdatums/TrackOurProgress.shtml

New Technical Papers Released

Three new papers relating to the modernized NSRS were released recently. They are:

- [NOAA Technical Report NOS NGS 74 \(Rotation of the Mariana Plate\)](#)
- [NOAA Technical Memorandum NOS NGS 84 \(Biquadratic Interpolation\)](#)
- [NOAA Technical Memorandum NOS NGS 85 \(On the Propagation of Formal Error Estimates of Euler Pole Parameters into Modernized NSRS Coordinates\)](#)

Updates to Blueprint Documents

All three previously released “Blueprint for 2022” documents have been updated. Each revision has significant new information, corrections and updates from their previously released versions. They will all be released in Fall 2020 or Winter 2021.

Progress in Ongoing Projects

There are currently **20 ongoing projects** directly related to NSRS modernization around NGS. Here are highlights from a select few:

Multi-GNSS replacement of PAGES (Project Manager: Dr. Mark Schenewerk)

Progress continues on the new GNSS software. Comparisons of float, GPS-only results to PAGES are very good. A preliminary multi-GNSS float solution was recently completed and is promising. Release for beta testing in activities such as OPUS should begin in spring, 2021.

Standardized Data Formats (Project Manager: Dr. Dan Gillins)

This project will develop a single file format for each type of geodetic observable which NGS will support in the modernized OPUS (raw GNSS, GNSS-based vectors, leveling, relative gravity and total stations). Some of these formats are likely to be XML-based, sharing commonalities with the forthcoming [GNSS Vectors Exchange \(GVX\)](#) format.

GPS on BM (Project Manager: Galen Scott)

As of October 1, only 15 months remain to add data to the GPS on BM ~~2022 Transformation~~ Tool Campaign. We have recently passed 10,000 completed 10km hexagons around the country, but this data is concentrated in specific areas. Large data gaps remain in significant regions of the country. Without new data, NGS will be forced to interpolate over these gaps creating larger uncertainties when transforming between NAVD 88 and NAPGD2022.

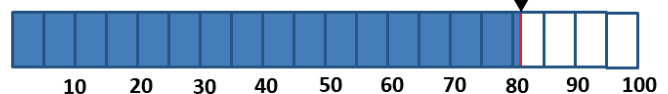
GRAV-D (Project Manager: Jeffery Johnson)

GRAV-D was able to resume field work in late August 2020 for 3 weeks. NOAA has established a robust COVID-19 mitigation strategy that has allowed us to get back to work.

GRAV-D progress last quarter: **up 0.3% to 81.9%**

Behind Schedule!

Recently: Grand Junction, CO



Schedule: **87.0%**

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- **Basics of Real Property, #8359, 3 CEC**
- **Digital Signatures for Surveyors, #8491, 3 CEC**
- **Elevation Certificates and the Community Rating System, #8257, 3 CEC** *2020 UPDATED COURSE
- **Introduction to Photogrammetry, #7887, 3 CEC**
- **Quality Assurance/Quality Control for the Design Professional and Technical Staff, #9293, 3 CEC**
- **Writing Boundary Descriptions, #8361, 3 CEC** *2020 UPDATED COURSE

6 Hour Courses Available

- **Boundaries in Florida, #7667, 6 CEC**
- **Chapter 177, Platting (Plat Law), #6970, 6 CEC**
- **Critical Communication for Surveying & Mapping Professionals, #7228, 6 CEC**
- **Easements and Rights of Ways, #9945, 6 CEC** *2020 UPDATED COURSE
- **Ethics for the Design Professional, #8620, 6 CEC**
- **Florida Laws, #6966, 6 CEC**
- **Florida Surveying Law and Rule Changes, #9574, 6 CEC**
- **Geographic Information Systems (GIS), #7107, 6 CEC**
- **History of Surveying, #7108, 6 CEC**
- **Identification of Native and Non-Native Trees in Florida, #7874, 6 CEC** *2020 UPDATED COURSE
- **Land Tenure and Cadastral Systems, #7829, 6 CEC**
- **Map Projections and Plane Coordinate Systems, #7669, 6 CEC**
- **Practical Geometry for Surveyors, #7109, 6 CEC**
- **Public Land Survey System, #6979, 6 CEC**
- **Remote Sensing Applications to Surveying & Mapping, #6972, 6 CEC**

FSMS Correspondence Courses

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3 CEC	\$78 Per Course	x _____ = \$ _____	
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TOTAL			\$ _____

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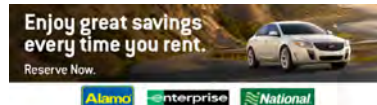
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- Georgia Technical Standards for Property Surveys- Course #8554
- History of Surveying - Course #7140
- Identification of Native & Non-Native Trees in Florida - Course #8132
- Ethics for the Design Professional - Course #8621
- Land Tenure & Cadastral Systems - Course # 8260
- Map Projections & Plane Coordinate Systems - Course #8261
- Mean High Water Observations & Computations - Course #8262
- Public Land Survey System - Course #7147
- Remote Sensing Applications to Surveying & Mapping - Course #7148
- Practical Geometry for Surveyors - Course #7141

3 General CEC - \$49/course (members) \$70/course (non-members)

- Basics of Real Property - Course #8360
- Contracts for the Professional- Course #8412
- Elevation Certificates & the Community Rating System - Course #8256
- Introduction to Photogrammetry - Course #7968
- Writing Boundary Descriptions - Course #8362

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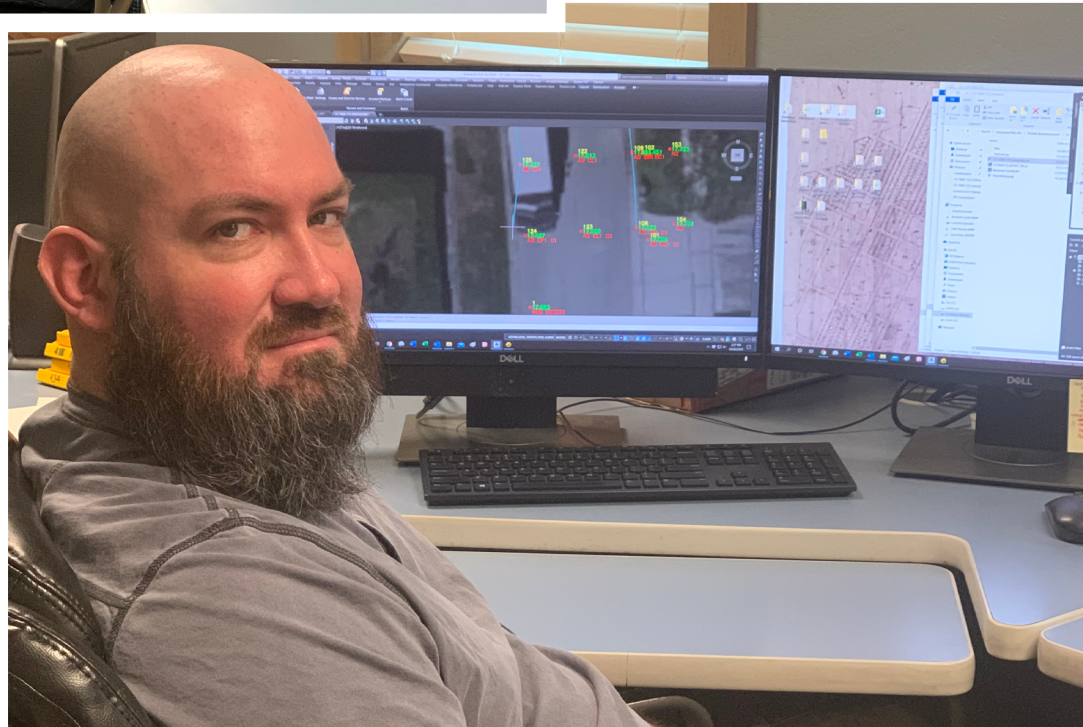
Around the State



A Hyatt Survey Services, Inc employee, Deric Rimes recently passed the CST level IV test!

There are only 7 in Florida and 37 in the US who have achieved this distinction. Plus, he did it while taking 5 college classes and working 40+ hours a week!

Congratulations Deric!



October 26, 2020

Mr. Tom Steckler
Florida Surveying & Mapping Society, Inc.
F.S.M.S. Scholarship
1689-A Mahan Center Blvd.
Tallahassee, Florida 32308

Dear Mr. Tom Steckler.,

I really appreciate you taking the time to look at my application and grant me the F.S.M.S. Scholarship for the Fall 2020 semester. I am beyond thankful for your generosity and choosing me as a recipient for your scholarship. I was ecstatic to hear that I was able to be awarded with this opportunity to focus more on my education this fall.

I was born and raised in West Palm Beach, Florida and am currently studying Geomatics at the University of Florida. I plan to use my degree to pursue a career in this field in South Florida. I am currently a Junior and plan to graduate in the Spring of 2022. After graduating with my bachelor's degree, I want to ultimately get my master's degree in Geographic Information Systems (GIS). I have been a gator for as long as I can remember, and I am extremely grateful that you were able to help me seek an opportunity to focus more on my education. I cannot wait to pursue my dream.

Your generosity of awarding me this scholarship has helped me focus on the most important aspect of my learning career. I aspire to one day help students achieve their educational goals as you have helped me, by easing their minds of some financial burdens. Thank you so much for your generous help!

Sincerely,



Taylor M. Whidden

Jake Harris

Jake.harris@ufl.edu

October 10, 2020

Florida Surveying and Mapping Society
1689-A Mahan Center Blvd.
Tallahassee, Florida 32308

Re: F.S.M.S Scholarship

Dear FSMS Board of Directors:

I am honored and grateful to have received the Florida Surveying and Mapping Scholarship 2020-2021.

The Florida Surveying and Mapping Scholarship has allowed me to take time off work, get better books, and complete my degree at a faster pace.

Again, thank you so much for supporting me through my academic career at the University of Florida and everything you do for the surveying profession.

Sincerely,



Jake Harris

Congratulations to our recent FSMS scholarship recipients!



FROM THE

ARCHIVES



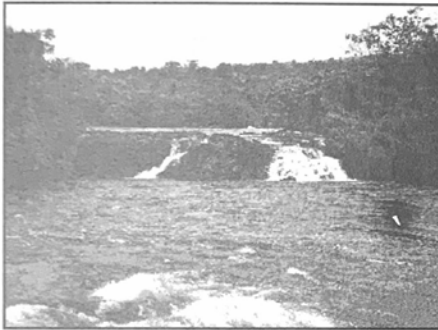
SURVEYING IN UGANDA, AFRICA

by Joseph S. Boggs, PSM

I was fortunate to be able to take another trip with Engineering Ministries International in September of this year. It is always a privilege to be able to go into a developing country and use your skills and training to help a project in some small way which will in turn be a direct help to the people in that country.

The area of Uganda where the project is located is near Jinja in the southeast portion of the country. Arise Africa is the group that is actually constructing the project and they own 5 square miles with frontage on Lake Victoria. The site is about 45 minutes outside of Jinja near a village called Bukalabe. Jinja is a city of about 200,000 and is noted as the place of the headwaters of the Nile.

The elevation of Jinja is about 3,800 feet so even though it is very close to the equator it was not as hot and humid as southwest Florida. We actually stayed in the city of Jinja at the Arise Africa facilities and traveled to and from the site each day.



This bit of travel is nothing of course to the plane rides that it takes to get to Africa. I left Miami on Saturday, flew to London, and then had a direct flight to Entebbe, Uganda. I arrived in Entebbe on Monday morning and it was only a short 2 hour car ride to get to Jinja.



Our task was to obtain information so that we could develop a master plan for the 5 square mile site and provide construction plans for the first phase of development. After the team spent a couple of days with the staff from Arise Africa they

had a very good idea of what they wanted to accomplish with the project. The first phase of construction was to be a hospital that would also be constructed in phases as funds become available.

The master plan was the result of that



process. They have a variety of uses, which they have the property for and that will help the surrounding villages. Of course it was not all fun at a drafting board, we actually had to traverse this entire site in order to get to the place where the map was produced.



I do know that the sun is more intense at the equator from first hand knowledge. I couldn't wear a hat and run the instrument, but I have been told that there is a new discovery for those who don't wear hats and that is called "sun screen". I will

remember to pack some if I am able to go on future trips. I looked like a snake shedding it's skin on the flight home and my eyes were swollen as a result of my close encounter with the sun. The above picture is a point that is on the hospital site where we were obtaining specific data for it's design.

This is the view from the hospital site, with Lake Victoria and the west property line in the distance. The elevation at the hospital site was about 4,100 feet. I say this because we had to walk and carry equipment from the existing medical clinic out to this site. When you



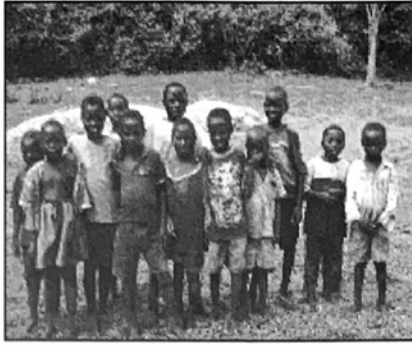
are used to 12 feet elevation you feel the effects of the extra 4,088 feet. Of course you get used to this just in time to come back home.



This is the existing medical clinic that is in operation only a few times a year. When it is open people from the surrounding villages will come and stay all day to see the doctors who come and volunteer. Aids is a big problem in Africa, but

malaria is what kills a large number of people in Uganda. It is usually the young or the old that will actually die from the effects of malaria. Safe drinking water is also a problem that is widespread here as it is in most developing countries. The people do not get

used to contaminated water that is just the water that they have to drink. They get ill from it and if they are strong enough recover. It is one of the reasons that their life expectancy is so much shorter than Americans.



frequent visits by a local doctor should help improve the conditions of the local villagers.

These are some of the children from the nearby village of Bukalabe. The hospital at the Arise Africa site will help some of these children.

These children in front of the existing medical clinic would at first glance seem full and healthy, but they have larger bellies from malnutrition. There is also a problem with parasites and they almost never wear shoes. The new hospital with more frequent visits by a local doctor should help improve the conditions of the local villagers.



The site did have a variety of plants and soils. Traversing the site meant going into what they call the bush and what I would call a jungle. They did have a survey done of the 5 square miles before we arrived and I did find a number of the monuments that they set.

It is a great experience to be able to travel and get a glimpse of other cultures and countries. It is always a very humbling experience when you are able to see how most of the world lives. I have upon returning from each trip a greater appreciation for our country and our way of life. It is by the grace of God that I was born an American and these trips help me to not take that for granted. We have some problems, but they pale in significance at those around the world.

If you are interested in volunteering your time and expertise, there is always a need. You can contact me or visit the EMI website at emiusa.org to obtain information about how you could help in another country.



If you are interested in volunteering your time and expertise, there is always a need. You can contact me or visit the EMI website at emiusa.org to obtain information about how you could help in another country.



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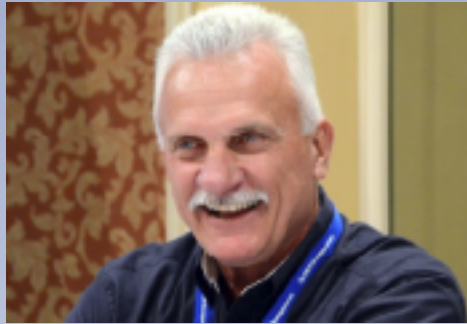
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director@fsms.org



Education Director

Rebecca Culverson
education@fsms.org



Communications Director

Laura Levine
communications@fsms.org



Regional Coordinator

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seminolecc84@gmail.com

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HAPPENS YOU HAVE THREE
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DEFINE YOU, LET IT DESTROY
YOU, OR YOU CAN LET IT
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DR. SEUSS

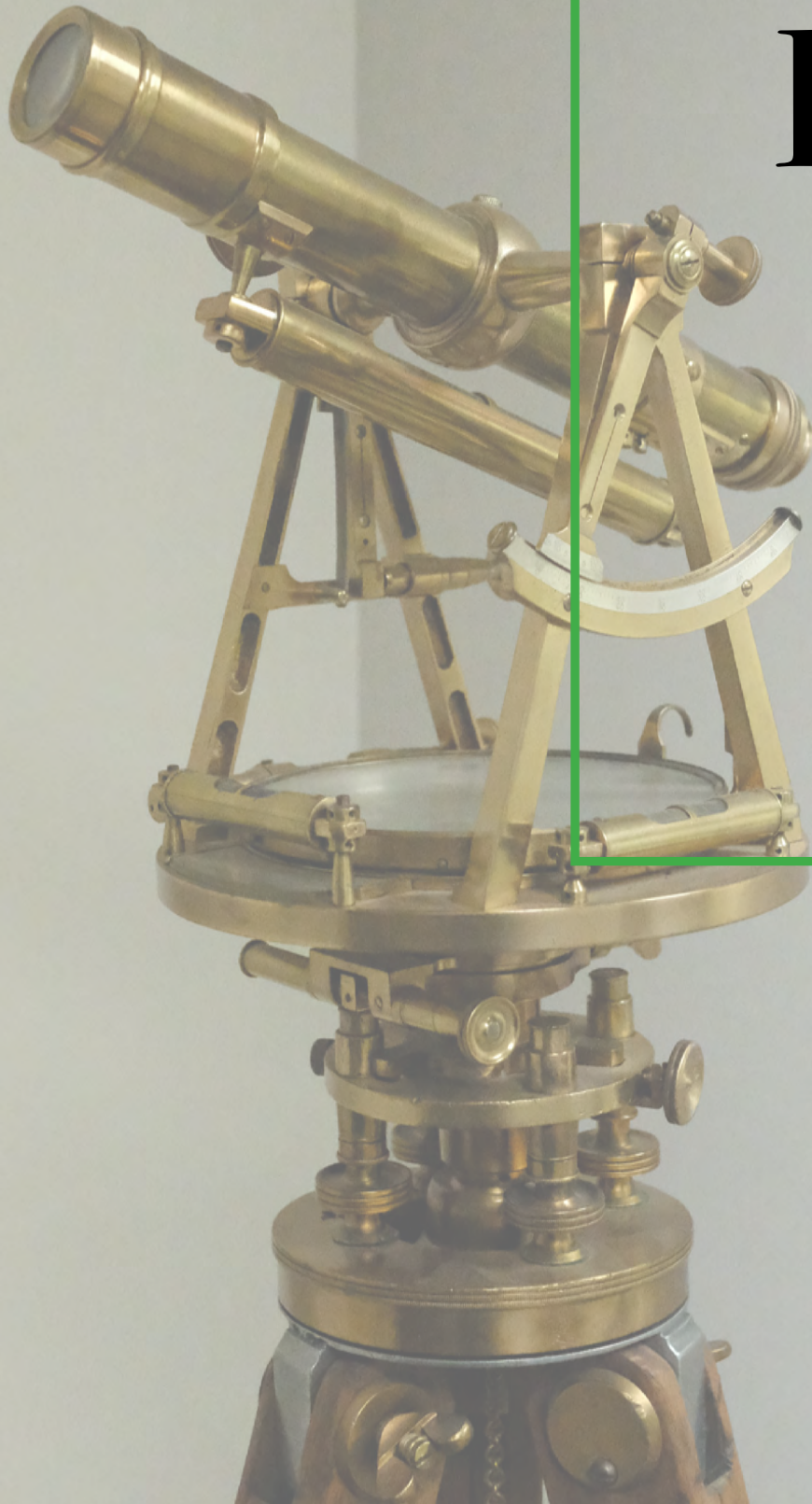


STRENGTH

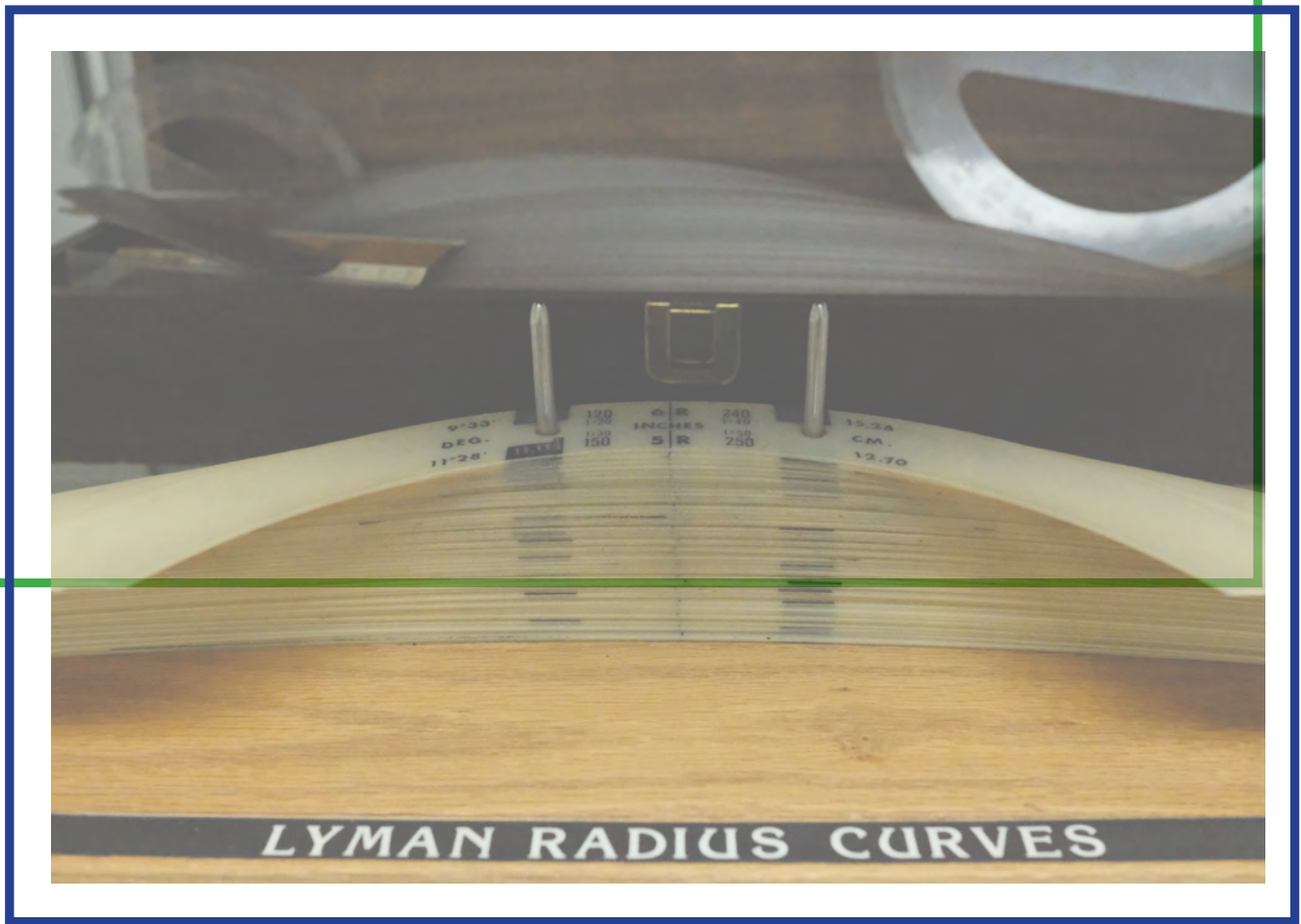
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Hamilton Engineering & Surveying, Inc.	813-250-3535
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Hanson Professional Services, Inc.	217-788-2450
Hanson, Walter & Associates, Inc.	407-847-9433
Hole Montes, Inc.	239-254-2000
Hyatt Survey Services, Inc.	941-748-4693
I	
I.F. Rooks & Associates, LLC.	813-752-2113
J	
John Ibarra & Associates, Inc.	305-262-0400
John Mella & Associates, Inc.	813-232-9441
Johnston's Surveying, Inc.	407-847-2179
Jones, Wood, & Gentry, Inc.	407-898-7780

K	
KCI Technologies, Inc.	954-776-1616
Keith and Associates, Inc.	954-788-3400
Kendrick Land Surveying	863-533-4874
King Engineering Associates, Inc.	813-880-8881
L	
L&S Diversified, LLC.	407-681-3836
Landmark Engineering & Surveying Corporation	813-621-7841
Land Precision Corporation	727-796-2737
Langan Engineering	973-560-4900
Leading Edge Land Services, Inc.	407-351-6730
Leiter Perez & Associates, Inc.	305-652-5133
Lengemann	352-669-2111
Leo Mills & Associates, Inc.	941-722-2460
LidarUSA	256-274-1616
Long Surveying, Inc.	407-330-9717
Ludovici & Orange Consulting Engineers	305-448-1600
M	
MacSurvey, Inc.	727-725-3269
Manuel G. Vera & Associates, Inc.	305-221-6210
Marco Surveying & Mapping, LLC.	239-389-0026
Maser Consulting, P.A.	813-207-1061
Massey-Richards Surveying & Mapping, LLC.	305-853-0066
Masteller, Moler & Taylor, Inc.	772-564-8050
McCain Mills, Inc.	813-752-6478
McKim & Creed, Inc.	919-233-8091
McLaughlin Engineering, Co.	954-763-7611
Metron Surveying and Mapping, LLC.	239-275-8575
Metzger + Willard, Inc.	813-977-6005
Mock Roos & Associates, Inc.	561-683-3113
Moore Bass Consulting, Inc.	850-222-5678
Morris-Depew Associates	239-337-3993
Murphy's Land Surveying	727-347-8740

N	
Navigation Electronics, Inc.	337-237-1413
Northstar Geomatics, Inc.	772-485-1415
Northwest Surveying, Inc.	813-889-9236
NV5, Inc.	407-896-3317
O	
Omni Communications, LLC.	813-852-1888
On The Mark Surveying, LLC.	321-626-6376
P	
PEC Surveying & Mapping, LLC.	407-542-4967
Pennoni Associates, Inc.	215-222-3000
Pickett & Associates, Inc.	863-533-9095
Platinum Surveying & Mapping, LLC.	863-904-4699
Point Break Surveying, LLC.	941-378-4797
Point to Point Land Surveyors, Inc.	678-565-4440
Polaris Associates, Inc.	727-461-6113
Porter Geographical Positioning & Surveying, Inc.	863-853-1496
Pulice Land Surveyors, Inc.	954-572-1777
Q	
Q Grady Minor & Associates, PA	239-947-1144
R	
Rhodes & Rhodes Land Surveying, Inc.	239-405-8166
Richard P. Clarson & Associates, Inc.	904-396-2623
R.M. Barrineau & Associates, Inc.	352-622-3133
R.J. Rhodes Engineering, Inc.	941-924-1600
Reece & White Land Surveying, Inc.	305-872-1348
Robayna and Associates, Inc.	305-823-9316
Rogers, Gunter, Vaughn Insurance, Inc. (HUB FL)	850-386-1111

S	
SAM Surveying & Mapping, LLC.	850-385-1179
Sergio Redondo & Associates, Inc.	305-378-4443
Settimio Consulting Services	850-341-0507
SGC Engineering, LLC.	207-347-8100
Shah Drotos & Associates, PA	954-943-9433
Shannon Surveying, Inc.	407-774-8372
Sherco, Inc.	863-453-4113
Sliger & Associates	386-761-5385
S&ME, Inc.	407-975-1273
Southeastern Surveying & Mapping Corp.	407-292-8580
Stephen H. Gibbs Land Surveyors, Inc.	954-923-7666
Stoner & Associates, Inc.	954-585-0997
Strayer Surveying & Mapping, Inc.	941-497-1290
Suarez Surveying & Mapping, Inc.	305-596-1799
Surv-Kap	520-622-6011
SurvTech Solutions, Inc.	813-621-4929
T	
T2UES, Inc.	855-222-8283
Thurman Roddenberry & Associates, Inc.	850-962-2538
Tuck Mapping Solutions, Inc.	276-523-4669

U	
Upham, Inc.	386-672-9515
W	
Wade Surveying, Inc.	352-753-6511
Wallace Surveying Corp.	561-640-4551
Wantman Group, Inc.	561-687-2220
WBQ Design & Engineering, Inc.	407-839-4300
Winningham & Fradley, Inc.	954-771-7440
Woolpert, Inc.	937-461-5660
Z	
ZNS Engineering, LLC.	941-748-8080

STOP THE SPREAD OF GERMS

Help prevent the spread of respiratory diseases like COVID-19.

Avoid touching your eyes, nose, and mouth.



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Help prevent the spread of respiratory diseases like COVID-19.

Wash your hands often with soap and water for at least 20 seconds.



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STOP THE SPREAD OF GERMS

Help prevent the spread of respiratory diseases like COVID-19.

Clean and disinfect frequently touched objects and surfaces.



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DETENGA LA PROPAGACIÓN DE LOS MICROBIOS

Ayude a prevenir la propagación de enfermedades respiratorias como el COVID-19.

**Evite tocarse los ojos,
la nariz y la boca.**



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DETENGA LA PROPAGACIÓN DE LOS MICROBIOS

Ayude a prevenir la propagación de enfermedades respiratorias como el COVID-19.

**Lávese frecuentemente
las manos con agua y jabón
por al menos 20 segundos.**



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DETENGA LA PROPAGACIÓN DE LOS MICROBIOS

Ayude a prevenir la propagación de enfermedades respiratorias como el COVID-19.

**Limpie y desinfecte los
objetos y las superficies que
se tocan frecuentemente.**



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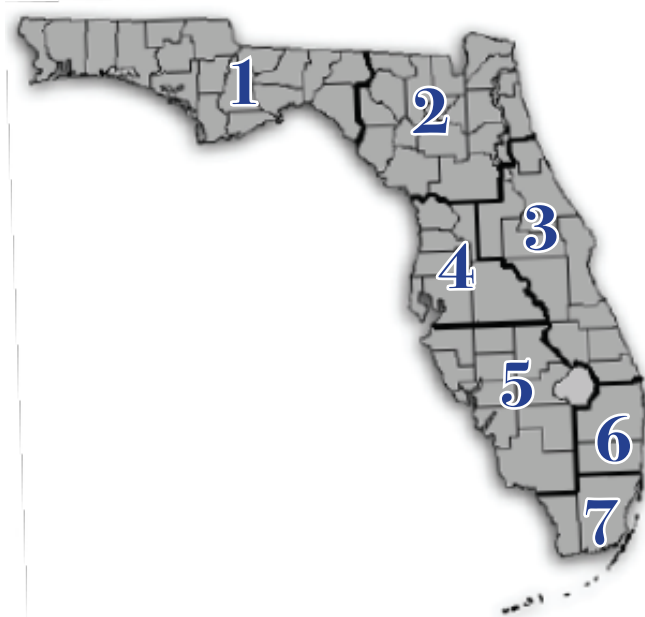
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NSPS Director

Russell Hyatt
(941) 748-4693
russell@hyattsurvey.com

Additional Information

Past Presidents

1956

H.O. Peters
Harry C. Schwebke
John P. Goggin
R.H. Jones

1960

Hugh A. Binyon
Russell H. DeGrove
Perry C. McGriff
Carl E. Johnson

James A. Thigpenn, III
Harold A. Schuler, Jr.
Shields E. Clark
Maurice E. Berry II
William C.. Hart
Frank R. Schilling, Jr.

1970

William V. Keith
James M. King
Broward P. Davis
E.R. (Ed) Brownell
E.W. (Gene) Stoner
Lewis H. Kent
Robert S. Harris
Paul T. O'Hargan
William G. Wallace, Jr.
Robert W. Wigglesworth

1980

Ben P. Blackburn
William B. Thompson, II
John R. Gargis
Robert A. Bannerman
H. Bruce Durden
Buell H. Harper
Jan L. Skipper
Steven M. Woods
Stephen G. Vrabel
W. Lamar Evers

1990

Joseph S. Boggs
Robert L. Graham
Nicholas D. Miller
Loren E. Mercer
Kent Green
Robert D. Cross
Thomas L. Conner
Gordon R. Niles, Jr.
Dennis E. Blankenship
W. Lanier Mathews, II
Jack Breed

2000

Arthur A. Mastronicola
Michael H. Maxwell
John M. Clyatt
David W. Schryver
Stephen M. Gordon
Richard G. Powell
Michael J. Whiting
Robert W. Jackson, Jr.
Pablo Ferrari
Steve Stinson

2010

Dan Ferrans
Jeremiah Slaymaker
Ken Glass
Russell Hyatt
Bill Rowe
Dale Bradshaw
Lou Campanile, Jr.
Bob Strayer, Jr.
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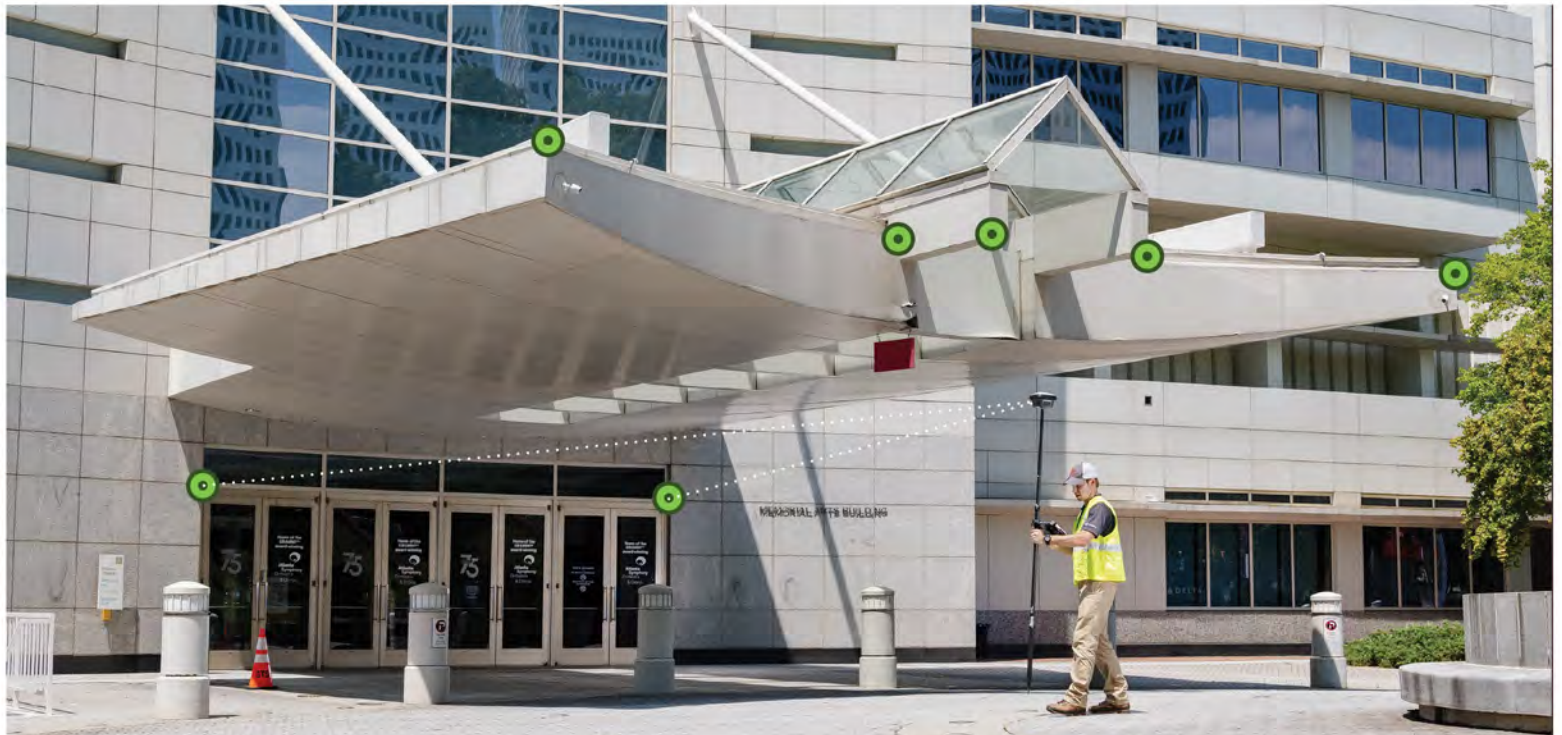


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