

July/Aug 2022
Volume XXX, Issue 7

THE FLORIDA SURVEYOR



67th Annual Conference Recap





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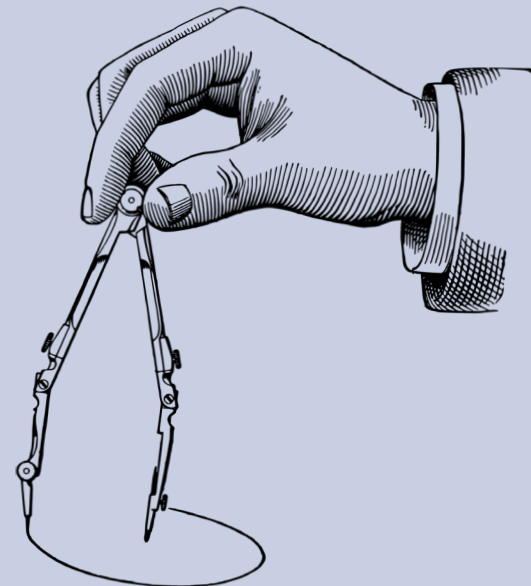
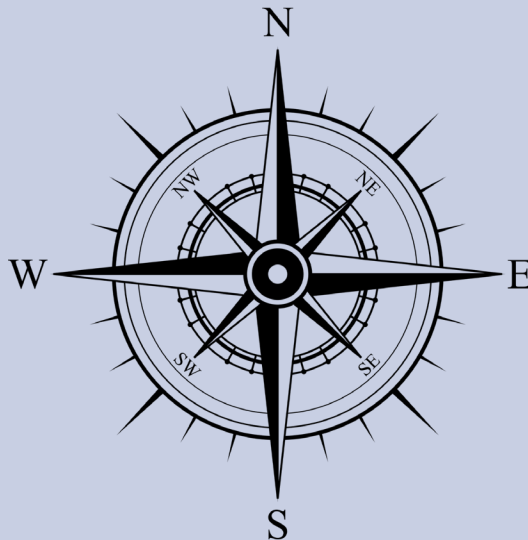
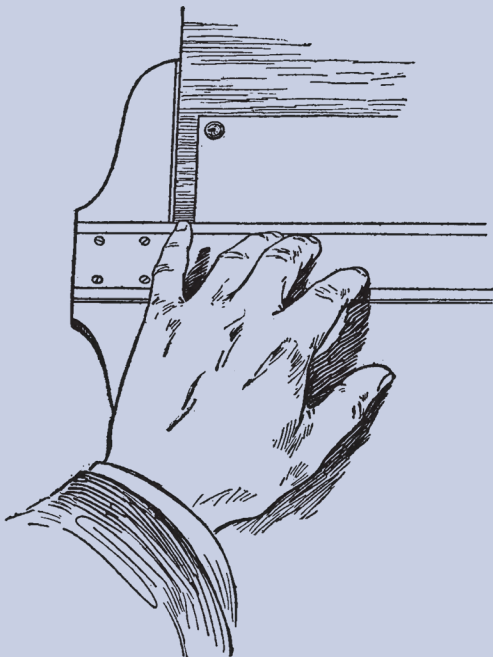
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A VERY SPECIAL THANK YOU TO
Hal Peters
for being Conference Photographer



PRESIDENT'S Message

I am sure that many of you attended our Annual Convention at the PGS National Resort in Palm Beach Gardens. In my humble opinion, this was our best conference in a long, long while (this millennium). Not that other conferences were slouches. Quite the contrary, but this conference was special. Our Hotel block of rooms reserved and utilized was well more than what we anticipated. All of our events were extremely well attended. This was our first year having a sporting clays event at our conference. I participated in this, and I have to admit that it was a lot of fun and extremely well run. Ditto for our golf tournament. If you missed either, you definitely missed out.

All of our seminars at the conference were at or near capacity, and our annual banquet was a joyous event. In fact, those that were there no doubt heard me remark how everyone that attended was happy to be there and thoroughly enjoyed themselves. I know that I did.

Kudos to Tom Steckler, Rebecca Culverson, Justin Ortiz, Cathy Campanile, and Taylor Singletary. And FSMS VP Jim Sullivan and committee chairs did a superb job. It seems like every time I turned around, Jim was there, including the "offsite" events (golf and sporting clays).

Speaking of Tom Steckler, July 31 was his last day with FSMS, and he is officially retired. The Society definitely moved things forward (only forward...) in so many ways with Tom as our ED. It was definitely sad to see him go, and we most definitely wish him all the best.

Rebecca has assumed the Executive Director position, and her first official duty is to find a replacement Education Director. Interviews have begun.

I also want to thank NSPS Executive Director Tim Burch for joining us. Tim is a



President
Lou Campanile, Jr.
(954) 980-8888
lou@campanile.net

PRESIDENT'S Message

great guy and has a lot of passion for the profession. We are looking forward to working with NSPS and FIG at FIG's Working Week in Orlando, May 28 to June 1, 2023 (<https://fig.net/fig2023/>).

I also enjoyed sitting and talking with Red Baker, PhD, Director of the UF IFAS School of Forest, Fisheries and **Geomatic Sciences** (note the highlight, yes Geomatics is now a name component of the IFAS program), and, of course, our seemingly perennial Treasurer, Dr. Bon Dewitt. In case we did not adequately announce it, but FSMS helped lead the realization of additional legislative funding that was secured for the Geomatics Program this year which has virtually doubled the program's funding. Special kudos on that to David Daniel and Jack Breed, the Legislative Committee and all of those who have pitched in with the FSM PAC.

Now, it is time to move on to continuing the business of bettering the profession. Look for ideas along those lines to spawn from the Workforce Development Committee and the Professional Practice Committee.

The Florida Surveying and Mapping Society is strong.

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howard@gcyinc.com



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Jim.Sullivan@wginc.com



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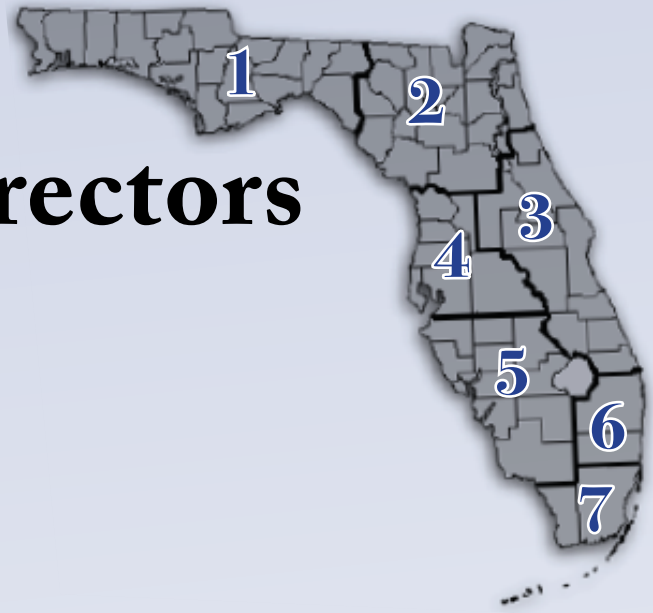
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bon@ufl.edu



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hpeters@gpinet.com

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eric.stuart@sam.biz

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(850) 200-2441

chad.thurner@sam.biz

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gprather@pickettusa.com

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alexwolfeparnes@gmail.com

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schristy@georgefyoung.com

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(239) 707-6679

jeff@coonerconsulting.com

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(954) 868-7172

msowers@mgvera.com

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(407) 601-5816

earl.soeder@duncan-parnell.com

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Jose Sanfiel

(305) 351-2942

psm5636@gmail.com

Manny Vera, Jr.

(305) 221-6210

mverajr@mgvera.com

NSPS Director

Russell Hyatt

(941) 748-4693

russell@hyattsurvey.com

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davidpga@bellsouth.net

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jsnelgrove@snelgrovesurveying.com

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lsharp@collinssurvey.com

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bmurphy@3002inc.com

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millersurveying@comcast.net

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sshawles@haleyward.com

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aaron@msbsurveying.com

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surveysam17@outlook.com

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brionyancy@gmail.com

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eastcoastland@bellsouth.net

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benjamin.hoyle@kci.com

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lpowers@zemangroup.com

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brettcostanza@hotmail.com

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fparuas@gpinet.com

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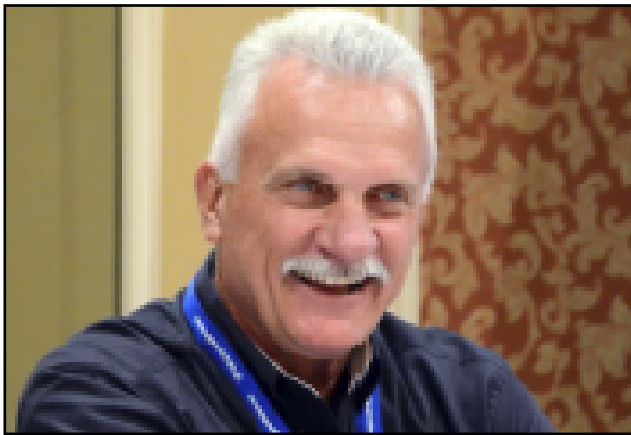
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------------------------	-------------



Dear FSMS Members,

Just wanted to say a few parting words as I leave FSMS and ride into the sunset. I have learned a great deal in the last 5 and a half years as your Executive Director. Each year has been a little different as Presidents have had their own style. My thanks to Lou Campanile, Bob Strayer, Dianne Collins, Don Elder, and Hal Peters for their patience and understanding.

This is truly an amazing community of individuals. The support that you provide to each other as well as the state, your communities, and local charities is great and unmatched by any other Profession!

Becoming an Honorary Member of the Society was unexpected however, greatly appreciated. A large part of my success goes to the hard work of the people that I have worked with over the last five years.

Like I said at the conference banquet, one of the things I learned growing up in Montana was to always leave a place Better than you found it. I believe that I can say that I have done that with the FSMS Society! You are in good hands and your future looks bright.

Happy Trails To You and Vaya Con Dios!

Tom A. Steckler
Past Executive Director



Tom's Tip of the Month

Twenty years from now
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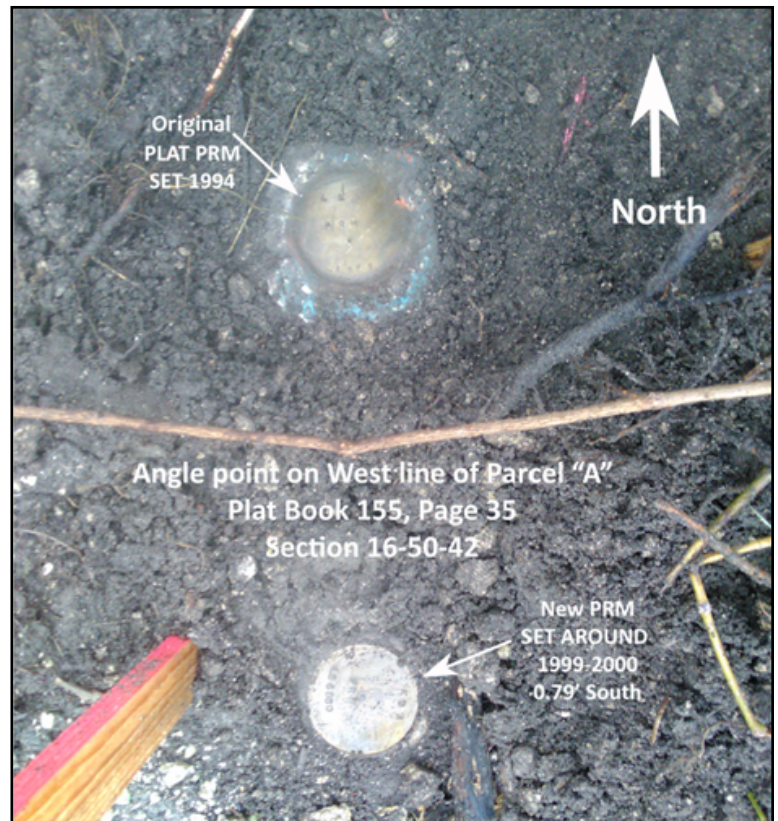
THE FLORIDA SURVEYOR is the official publication of the Florida Surveying and Mapping Society, also known as FSMS. It is published monthly for the purpose of communicating with the professional surveying community and related professions who are members of FSMS. Our award winning publication informs members eleven months out of the year about national, state, and district events and accomplishments, as well as articles relevant to the surveying profession. In addition, continuing educational courses are also available.

A Collection of Survey Problem Corners and Thoughts

by Richard D. Pryce, PLS/PSM

As with all surveyors, we come across problem corners that will make you scratch your head. And once you see these types of disagreements, I would hopefully think that you would do a more intensive search, sometimes in multiple directions, to try to understand the disagreement before you either set a new corner or accept one that's already there, especially if that found corner is brand new, in a very old position.

Surveyors should be getting back to being teachers/mentors to their crews (something we've lost over the last 20 years) and get them to dig more, and not just rely on a schonstedt or another metal detector to determine if something is at the calculated position. Branch out several feet if necessary, use a shovel, or machete to dig, and use your other senses even common sense may help to just look around at your situation, the environment, surrounding buildings, utility poles, fences, and even hedges can give you a clue. Don't just set a corner at a calculated position if nothing is immediately found, especially if that position has been there for decades or longer. Question yourself, why am I not finding a corner that may have been surveyed several times over the last 20-30-50 years?



If you find a corner that may be different than where you calculated and expected to find it, a light bulb should light up in your brain and question whether you've made the right decision in the first place, check your own decisions/calculations first before you just call a corner wrong. Ask yourself, could there be something I am missing?

Every one of us makes mistakes, I know I have on several occasions, had to rethink some of my past corner decisions, that at the time I was absolutely sure of, but some other evidence showed up that was there, but

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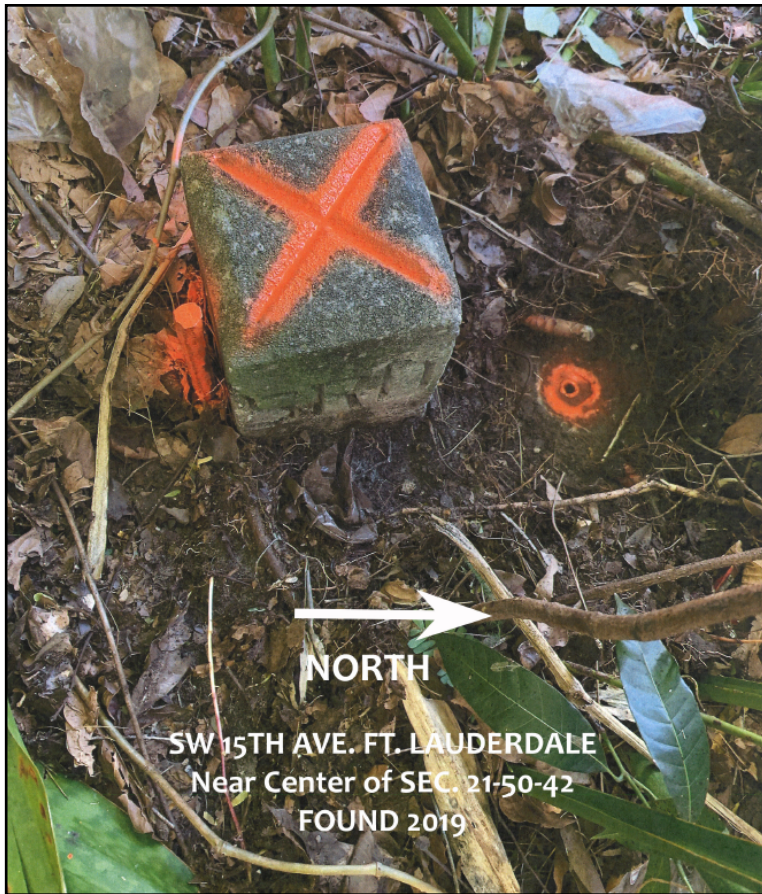


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all, before you signed that survey, didn't you do your own due diligence to prove what you did.

Here are a couple of examples I've found, these were real head scratchers for me over the past few years, and there are many more that I'm sure all of us have either pictures or memories of.

There are some good stories out there, and each survey problem creates a new opportunity that presents itself to create a new memory or a new nightmare depending on the situation.

Keeps a Surveyor's life interesting...

I didn't look hard enough to find at the time. Experience comes from bad/poor decisions, the best thing you can do is admit it when you are wrong and learn from your mistakes. Be open to looking at new evidence and also don't be afraid to ask other surveyors for their opinion, or their work they may have in the area you are surveying. If you find a corner with a business or surveyor number on it and you don't agree with it, make a call to them, maybe they found something that you didn't that made them decide where that corner was set. Talk to them, most of the surveyors I have met in this fashion have been more than happy to share their work. And why not? The best way to get another surveyor to accept your work is to let them review your decisions on surveys you've done. After

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Surveyors in Government



by: Richard Allen, PSM, CFM
Richard.Allen@orlando.gov
(407) 246-2788

August 2022

I hope that as you are reading this month's edition of the Florida Surveyor, you are cozying up at your desk and going over your agenda for the day with a renewed enthusiasm you recently acquired from attending the annual conference, I know I have. I love being immersed to what other government agencies and private sector employers are doing in our industry. Seeing how technology is being used, having discussions with others on rules and laws and the approaches to each. That is the benefit to bringing members and other professionals together to share knowledge and personal experiences, the overall gaining of knowledge and experience by those who participate. One thing that is always interesting to me when I attend classes with those who are unlicensed, they rarely will sign in or provide the forms for attendance credit. I have always submitted these forms and kept the top copy. The reason is because this is knowledge I have gained and is for my professional use. Just because I was not licensed at the time does not mean it does not benefit me today.

I have attended many classes that I look back on from the time that I was not licensed that were extremely beneficial and still so today. My class Milton Denny and Lamar Evers on retracement camp, I was not licensed then. I gained knowledge on what a real retracement was. Proving a corner became a whole new meaning to me, as it should for all when they try to recover accessories to a section corner. Then there are my classes with Walt Robillard, during one of them that is when I found out that I passed all of the exams to become licensed, the date was December 12, 2012. That is a date I will always remember, especially since it is so easy to remember.

I had taken dozens of classes prior to this time and even today I can pull those forms that stated the class title and date, and that I was there for those specified hours. Knowledge does not begin when you became licensed, you have earned it your entire life. That is what it took to make you the professional you are today, knowledge and experience. That time from

a rodman getting yelled at by your party chief. My first day I was asked to grab a PK to set a POL. This was within the first 30 minutes on a job site. I had several expletives thrown at me immediately because I had no idea what the hell he was asking me to do, this goes to communication as well, but that can be discussed another day. The instrument man stood up for me and told the party chief, it was my first day and that he was being ridiculous.

I will tell you one thing, I never will forget what a PK or POL is in my life and it will be related to that experience that day in November in 1997. There is platting experience I gained as a junior party chief working on a subdivision, where I had only been surveying a little over two years and was asked by the owner of the company to go over a plat with the County Surveyor to make sure we addressed the needed corrections. I will never forget Lake County Surveyor Don Roof, he was so kind to me. He took time to explain to a kid who knew very little about surveying, and nothing about platting what the issues were with the plat submitted by the company I worked for. Many individuals today I don't think would do that. I have tried to be similar in nature, if you come to see me, I will invest the time with you, that you have invested in yourself and your deliverables. If you invest little effort, I will not invest substantial time holding your hand to get your project completed, that I say is not mutual respect.

I have had many experiences that are documented and undocumented that made me what I am today. Keeping evidence of that knowledge where possible is important just to reference, not that you need to produce that evidence, but you could. This is what we base our opinions on, these experiences we have gained over the course of a career. So to those starting out or working their 50th year in this profession, licensed or not, sign your class forms and keep a copy of them, it is time you invested in yourself to better understand or learn about an aspect of our profession.

For those who attend the conference I would be intrigued what you enjoyed most about the conference, me there were several moments from attending Corky's class on Wednesday regarding the public land survey system and proper ways to re-establish section corners to attending the panel class discussing Standards of Practice on Saturday that have made me want to refocus on certain areas of my own operations. I want to make sure things are clear to my field and office staff as they are not able to attend due to

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the expense of going to conferences. I need to make sure I share these experiences and share my knowledge with them to help perpetuate the knowledge gained. Sometimes that is difficult because it seems as though we never have enough time.

On a final note, I did receive a great suggestion from John Krause with FDOT about asking other government surveyors to share their stories or experiences as part of the Surveyors in Government articles and I think that is an awesome idea. If anyone would like to share, please reach out to me and we can share your stories in the upcoming issues of *The Florida Surveyor*.

Sincerely,

Richard Allen,
City Surveyor for the City of Orlando
FSMS Surveyors in Government Liaison
407.246.2788 (O)
Richard.Allen@orlando.gov



Photo: CSA's Surveyor M1.8 ASV

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- Our steady growth in technology and personnel has allowed the development of long-term relationships with several Florida municipalities and government agencies, power companies, mining companies as well as engineering firms.
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LiDARUSA, also known as Fagerman Technologies, is a family-owned business just outside of Huntsville, AL. Since 1999, We have specialized in laser scanning, photogrammetry, instrumentation and all things geomatics. We offer mobile LiDAR systems for the ground vehicle (car, truck, boat, backpack, etc.) as well as low-altitude aerial platforms such as UAV's and helicopters. We have sold or serviced over 63 counties with our LiDAR systems.



Pickett

Pickett provides land and hydrographic surveying, aerial mapping, LiDAR and engineering services to clients throughout the US and Caribbean. Pickett specializes in offering the simultaneous collection of high resolution 4-Band Aerial Imagery combined with engineering-grade airborne LiDAR, allowing us to turn around baseline imagery and LiDAR-derived data quickly and efficiently. We deliver CADD and GIS-ready products to meet unique client specifications. With over 60 years of experience, we have established ourselves as leaders and innovators in the surveying and geospatial industry.



Woolpert

Woolpert is the premier architecture, engineering, geospatial (AEG) and strategic consulting firm, with a vision to become one of the best companies in the world. With more than 1,600 employees and 60 offices on four continents, we innovate within and across markets to serve public, private and government clients worldwide.



SILVER

CSA Ocean Sciences, Inc

CSA has been a fixture in Florida since 1970 for applied marine science & consulting, hydrographic, geophysical, geotechnical & benthic environmental surveys. CSA supports data analytics, data processing and handling, physical sampling, operations, and logistics. We've conducted thousands of surveys and studies for over 600 clients in 79 countries, nearly 60 in the Tropics. Our experience in marine studies includes sampling, monitoring, mapping, permitting, baseline surveys, impact assessment, and mitigation. CSA is headquartered in Stuart, FL with branch offices in Tampa, Houston, and Houma; and international offices in Brazil, Trinidad, Surinam, Qatar, Western Australia, and the Eastern Mediterranean. We own a large inventory of hydrographic equipment ranging from single to multibeam echo sounders, inertial navigation sensors, side-scan sonars, sub-bottom profilers, magnetometers, sound velocity sensors, surface and subsea positioning systems, data collection/acquisition, and post-processing software programs and are supported by a team of surveyors and operations specialists.



Leica Geosystems

Leica Geosystems – when it has to be right. Revolutionizing the world of measurement and survey for nearly 200 years, Leica Geosystems is the industry leader in measurement and information technologies. We create complete solutions for professionals across the planet. Known for innovative product and solution development, professionals in a diverse mix of industries, such as surveying and engineering, building and heavy construction, safety and security, and power and plant trust Leica Geosystems for all their geospatial needs. With precise and accurate instruments, sophisticated software, and trusted services, Leica Geosystems delivers value every day to those shaping the future of our world.



Leica Geosystems is part of Hexagon (Nasdaq Stockholm: HEXA B; hexagon.com), a leading global provider of information technology solutions that drive productivity and quality across geospatial and industrial landscapes.

TopoDOT

TopoDOT is a leading software development company located in Orlando, FL specializing in LiDAR and point cloud processing solutions. TopoDOT develops, sells and supports TopoDOT, a high performance MicroStation application for importing and extracting topography and models from point clouds, calibrated images and related data.



STANDARD

Aerotas

Aerotas provides drone data processing services for land surveyors and civil engineers throughout the United States. Aerotas is a technology-enabled services company that delivers survey-grade CAD files created from drone-collected data in days, not weeks. Data is handled by our expert team of Photogrammetrists, Lidar Techs, and CAD Techs who correct errors and perform quality assurance checks at each step in the data processing workflow. Drone photogrammetry, Lidar, and CAD drafting services are enabled by a combination of advanced technology, high-performance computing architecture, and human expertise — providing fast and predictable turnaround times, lower drone survey costs, and the most accurate deliverables anywhere to 900+ leading survey and civil engineering firms across the United States.



Airworks

AirWorks is an AI-powered autonomous drafting software for firms in the built world. We developed a platform that allows firms to quickly get CAD drawings from their aerial images, shortening the current traditional process by weeks, if not months. With our AI-powered algorithms, the data files that you upload are autonomously identified and categorized such that our software can then churn out a pixel-accurate engineering plan. Our software is available around the world to whoever needs it and remains 100% web-based, meaning that it is accessible to almost anyone, at the office or on-the-go.



Axis GeoSpatial LLC

Founded in 2001, AXIS GeoSpatial, LLC, a national geocapture firm, employs innovative remote-sensing and measurement technologies to capture geospatial data for integration into civil engineering, land surveying and GIS applications. AXIS is headquartered in Easton, Maryland. During the past 21 years, AXIS has applied extensive, proven experience in producing high density LiDAR, aerial imagery, CADD, GIS and other related geospatial datasets for civil engineering and government clients throughout the U.S. and abroad.



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With 300+ innovative problem-solvers nationwide, we stand with integrity behind thousands of projects engaging in multiple service lines and specializing in survey and mapping services. With clients as varied as the topography we've surveyed; our expertise is suited for a range of project possibilities. Our team of surveying and mapping professionals applies a blend of cutting-edge technology and proven principles, working with our peers in the engineering disciplines to provide land surveying, HD laser scanning services, high-accuracy aerial lidar and imagery, photogrammetric and stereo compilation, and unmanned aerial system (UAS) lidar and imagery.



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CTS Engineering, Inc

CTS Engineering, Inc is a well-known and respected leader in providing Professional Engineering services throughout the State of Florida for over 12 years. We offer a wide array of services to our clients including transportation planning, traffic engineering, public transit support, roadway design, policy planning, data collection, statistical analysis, PD&E studies, multimodal improvements and surveying and mapping services. Our team of Professional Surveyors & SUE experts have provided high quality deliverables for Surveying & Mapping assignments to our clients including utility coordination to many FDOT Districts, Counties and Cities. CTS is a certified DBE firm with offices throughout the state to support all your Surveying, SUE & Utility Coordination needs. CTS will provide a turnkey package of all these services.



Cyanic Job Book

Cyanic Job Book is a digital job book to run your survey company. It's a one-stop application to store all your customers and job locations in an easy-to-use intuitive system built specifically for surveyors. With the ability to manage your project, geospatially search previous jobs, input work hours, and keep track of billing, you can improve your company's profitability and help staff stay accountable.



Digital E Consulting

Digital E Consulting, LLC, headquartered in Miami, FL, provides aerial drone services for Land Surveyors and geospatial solutions for various industries. We offer our drone expertise to help our clients take advantage of the newest drone and 3D modeling technologies. Our unique data processing technique and QA/QC procedures allow us to process large drone-collected datasets accurately. Our workflow and systems significantly reduce the amount of manual work needed and open the possibility of getting previously impossible insights. Additionally, we provide drones for purchase and offer training for use in land survey applications.



eGPS Solutions

Launched in 2004, eGPS Solutions has steadily grown from a private RTN (Real Time Network) into a full-service survey equipment dealer for GeoMax, CHC, SitePro, SECO, DJI, LiDARUSA and more. Our services include RTK network plans, M2M data plans, survey equipment rentals, certified repairs, technical support, and UAV-LiDAR training. As we continue to grow and upgrade our technology and services, we stay steadfast in our pursuit of excellence, innovation and outstanding customer support. Look no further than us for all your surveying needs because at eGPS Solutions, **we will not let you fail.**



Emlid

Emlid makes RTK receivers Reach for surveying and mapping. The company also develops software for land surveyors: ReachView3 for data collection, Emlid Studio for data post-processing, and NTRIP caster for transmitting RTCM corrections. Emlid enhances RTK GNSS and engineers modern geomatics tools relying on surveyors' experience. Emlid distributes its products via the online store and through the worldwide network of dealers.



Featherstone Supply

Featherstone Supply Inc has been dedicated to providing quality technical services and state of the art products to the Surveying, Engineering and Construction community since 2004. We are committed to customer service and satisfaction, and provide comprehensive field to finish training on Global Positioning Systems and other three dimensional data capture systems.



Although we may not be a mail-order giant, Featherstone Supply will always strive for competitive pricing on most field supplies, combined with the personal touch that only a small company can provide. If your business needs high tech survey grade Total Stations, Digital Levels, GPS, GIS, Robotics, field supplies, training, repairs and more, Featherstone Supply is the answer.

Florida Level & Transit (FLT)

FLT Geosystems (Florida Level & Transit) is a full-line dealer for Leica Geosystems (optical, GPS, HDS scanning, & lasers), Topcon Positioning (optical & lasers), Spectra Precision (optical, data collectors, & lasers), Carlson Software, Septentrio, and many more. Our home office is in Ft. Lauderdale, with a full-service office in Tampa.



Geo Networking

Geo Networking is a Topcon/Sokkia distributor located in central Florida. The company focuses on end-to-end sales through a consultive sales strategy. In this process, Geo Networking is able to match the right product to meet your team's goals for your deliverables. Geo Networking is proud to offer the senseFly line of drones that include the eBee X and the powerful line of sensors. These products matched with the very well known products from Topcon/Sokkia make any job doable.



GPI

GPI Geospatial, Inc. has been a premier provider of geospatial solutions for over 49 years. Our mission is to map the foundation for infrastructure improvements that enhance the connectivity between people and communities. It's our vision to be the most trusted provider of precision mapping, imagery, LiDAR, and surveying services within the transportation, planning, design, construction, and government communities. We provide innovative surveying and mapping solutions to state, local and federal governments, as well as private-sector clients. Our team understands the value and precision of geospatial data and is committed to providing a customized approach using state-of-the-art sensors, software, and methods to deliver accurate and complete information for design and planning purposes. GPI owns and operates multiple aircraft and vehicles equipped with imagery and LiDAR sensors, to provide customized solutions for our clients, whether it's from the air or ground. Our dedicated professional team consistently meets the highest standards, which ensure quality and customer satisfaction.



Hyatt Survey

Hyatt Survey Services, Inc. is a full-service surveying and mapping company. Our professional staff combines over sixty years of extensive experience in a variety of project areas. From boundary, topographic, and right-of-way surveying to intricate geodetic, construction, and hydrographic/bathymetric surveying, we can fulfill all your surveying requirements. Our current list of clients includes the US Army Corps of Engineers, the Florida Department of Transportation, South Florida Water Management District in addition to Hillsborough, Manatee, Sarasota, and Charlotte Counties. Hyatt Survey Services is a certified WBE with the State of Florida Office of Supplier Diversity as well as a certified DBE with the Florida Department of Transportation. With our Florida headquarters located in Manatee County, Hyatt Survey Services, Inc. has convenient access to a broad geographic area. We have provided professional surveying services throughout the state of Florida for twenty years for federal, municipal, commercial, and private sector clientele.



I.F. Rooks & Associates

Celebrating our 53rd Anniversary, I.F. Rooks & Associates is a full-service geospatial firm, serving clients throughout the Southeastern United States. We provide a full suite of geospatial services including Aerial LiDAR, Fixed-wing and Low Altitude Photogrammetry. We are Pre-Qualified by FDOT in the 8.3 Workgroup - Photogrammetry.

Our work experience in photogrammetry ranges from digital orthophotos and Low Altitude (Helicopter) mapping for DOT roadway projects to detailed GIS base mapping of major power producing plants and University campuses throughout the Southeast as well as the use of LiDAR technology for supporting photogrammetric mapping information.



Javad, GNSS

JAVAD GNSS, Inc. Javad GNSS, Inc. designs and develops GNSS receivers for high precision survey applications with its range of Triumph products. Founded in 2005 by Dr. Javad Ashjaee and headquartered in San Jose, California, JAVAD has built a reputation amongst the surveyor community for products that deliver accuracy, reliability, and quality. This enables surveyors to be more productive, save time, as well as protect and grow their reputation.



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Established in 1962, Lengemann Corporation is celebrating 60 years of meeting customer needs. Lengemann Corporation is one of the leading Topcon and Sokkia full line surveying instrument dealers in the United States. We sell/rent/finance GPS, Robotics, Total Stations, Drones, Machine Control, and supplies. Lengemann Corporation is the only authorized Topcon and Sokkia master repair facility in the state of Florida. We also operate one of the largest, privately owned GPS networks in the U.S. called L-Net. Our new onsite training facility is equipped for all your survey and machine control needs.



LiDARit, Inc.

LiDARit Provides unlimited infrastructure, and develops vision-based LiDAR and machine perception technologies, primarily for surveying. It is an end-to-end, multiplatform, open sky, and indoor solution in a straightforward subscription that includes trajectories processing, cloud classification, deliverables, unique analytics with AI, and an online and secure viewer, for companies and professionals to digitize with survey accuracy.



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Multicopter Warehouse® was founded in 2014 and is a Tier 1 Authorized Dealer and Distributor for major UAS manufacturers of multicopters, parts, and accessories. We specialize in UAS technologies utilized for many applications such as Search & Rescue, Crime Scene Investigation, Agriculture, GIS Mapping, Utility Inspection, and Professional Cinema Aerial Photography. Additionally, We perform all repairs in-house based on our client's needs. We are located in the heart of DTC at 7045 S Fulton St #250 in Centennial, CO, 80112. Please feel free to contact us by calling (303) 552-2300 Monday to Friday, 8 am to 5 pm MDT.



National Geospatial - Intelligence Agency (NGA)

The National Geospatial-Intelligence Agency (NGA) delivers world-class geospatial intelligence that provides a decisive advantage to policymakers, military service members, intelligence professionals and first responders. Anyone who sails a U.S. ship, flies a U.S. aircraft, makes national policy decisions, fights wars, locates targets, responds to natural disasters, or even navigates with a cellphone relies on NGA. NGA enables all of these critical actions and shapes decisions that impact our world through the indispensable discipline of geospatial intelligence (GEOINT).



NSPS

NSPS strives to establish and further common interests, objectives, and political effort that would help bind the surveying profession into a unified body in the United States. Governance: The National Society of Professional Surveyors, Inc. is governed by a Board of Directors. The NSPS Board of Directors meets twice per year. NSPS has working agreements with state surveying organizations which are represented on the NSPS Board of Directors, and with the NSPS Foundation, Inc.



SAM Biz

As one of the largest full-service surveying and mapping companies in the United States, SAM has the capacity to field more than 175 crews. With 24 offices nationwide and one in Orlando, our more than 800 professional and support staff consists of licensed surveyors, professional engineers, and technicians, and is supported by millions of dollars of equipment, hardware, and software. When combined with more than 23 years of experience, the result is a uniquely positioned service provider that is continuously prepared to mobilize quickly, perform tasks reliably, and consistently provide quality deliverables.



SmartDrone

SmartDrone is a leader in drone surveying innovation and technology for accurate land surveying, utilizing U.S. manufactured drone hardware to collect feasible aerial LiDAR data, combined with streamlined processing software for that data.



Vacmasters

VACMASTERS has been the industry leader in Air-Vacuum Excavation systems for over a quarter of a century. Our air-vacuum excavation equipment is offered factory direct and is used for locating underground utilities for civil engineering, environmental, and construction companies. Air excavation often offers many advantages compared to hydro excavation including smaller non-CDL truck mounted units. We also manufacture a complete line of hydro excavation trailer vacuum units with our Spoilvac product line, which are often custom built for directional boring and construction contractors' specific needs. We manufacture with a focus of keeping our products simple. Simple means no computers, no digital display screens, and no electronic chips and this often equates to easy fix, more reliable, and less down time. In summary, VACMASTERS offers industry leading products, keeps things simple and skips middlemen/distributors to offer you great factory direct pricing.



FAU Geomatics Engineering

The NCEES award winner Florida Atlantic University Bachelor of Science degree in Geomatics Engineering is one of the state-of-the-art ABET accredited engineering programs in the nation. The award winning faculty have outstanding teaching and research experience and diverse professional backgrounds. Students can collaborate with other engineering and science disciplines such as geosciences, computer science, urban planning, and other fields. While this program prepares students for the Professional Land Surveyor (PLS) license, some students successfully pass the NCEES Fundamental of Surveying (FS) and Fundamental of Engineering (FE) examinations before graduating from the program.



FREAC / Florida State University

The FL Resources & Environmental Analysis Center (FREAC), established in 1969, is the original center within the Institute of Science and Public Affairs (ISPA) at Florida State University (FSU). FREAC professionals conduct research in the general areas of resource management and environmental analysis, as well as provide advice and technical assistance to state and local agencies. Public lands research and analysis, geographic information system development and graphic representation of digital databases are current and long-range FREAC research interests. FREAC also trains university students in these areas through direct involvement in projects, providing real-world experiences.



Geospatial Users Group (GUG)

The Geospatial Users Group is a practice section of FSMS that facilitates Communication and Outreach between practitioners, experts, suppliers, and users of GNSS and their applicable systems. The purpose of which is to act as a central voice to protect the accessibility and provide education of such systems. The Group promotes education, outreach, and information to act as a liaison between users and the various industries interacting with GNSS and advanced geomatic positioning based systems. This includes reviewing, meeting and providing comments when rules, procedures, and policies are being developed that may affect Users' methods of practice.



UF IFAS

The UF/IFAS School of Forest Resources & Conservation has undergraduate and graduate programs in Forestry, Natural Resource Conservation, Fisheries, Geomatics, & Marine Sciences. Our Geomatics major has 2 specializations – Surveying & Mapping for those interested in traditional surveying and licensure, and Geospatial Analysis for those focusing on analyzing geospatial data.



UF Geomatics

The UF Geomatics program was established in 1973 and is the preeminent Geomatics program in Florida. Consisting of six full-time faculty members, 70 Bachelor's degree students, 35 graduate students, and boasting two remote educational facilities in Ft. Lauderdale and Plant City, it has become the premier and leading resource for students seeking a degree in Geomatics from one of the country's most prestigious institutions.



The UF Geomatic Student Association (GSA) is an active student chapter of the Florida Surveying & Mapping Society (FSMS) and has been a regular Exhibitor at their Annual Conference for many years, providing GSA members the opportunity to interact with FSMS members, gain inspiration and professional Awareness, as well as increase visibility of the GSA and UF Geomatics program to prospective students.



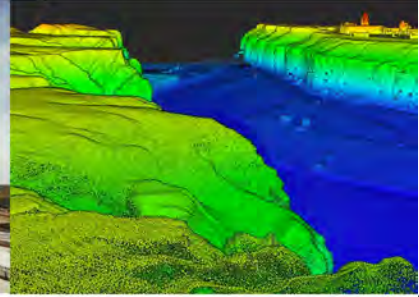
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- Building Survey-grade topos
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- Stockpile measurement
- Much more



The **Matrice 300 RTK** and **Phantom 4 RTK** have a **built-in centimeter-level** navigation and positioning system and a **high-performance** imaging system that supports both **RTK** and **PPK** solutions. Companies that have adapted this technology are seeing dramatic increases in accuracy and saving **75%** in setup time over land based surveys.



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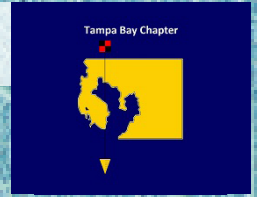
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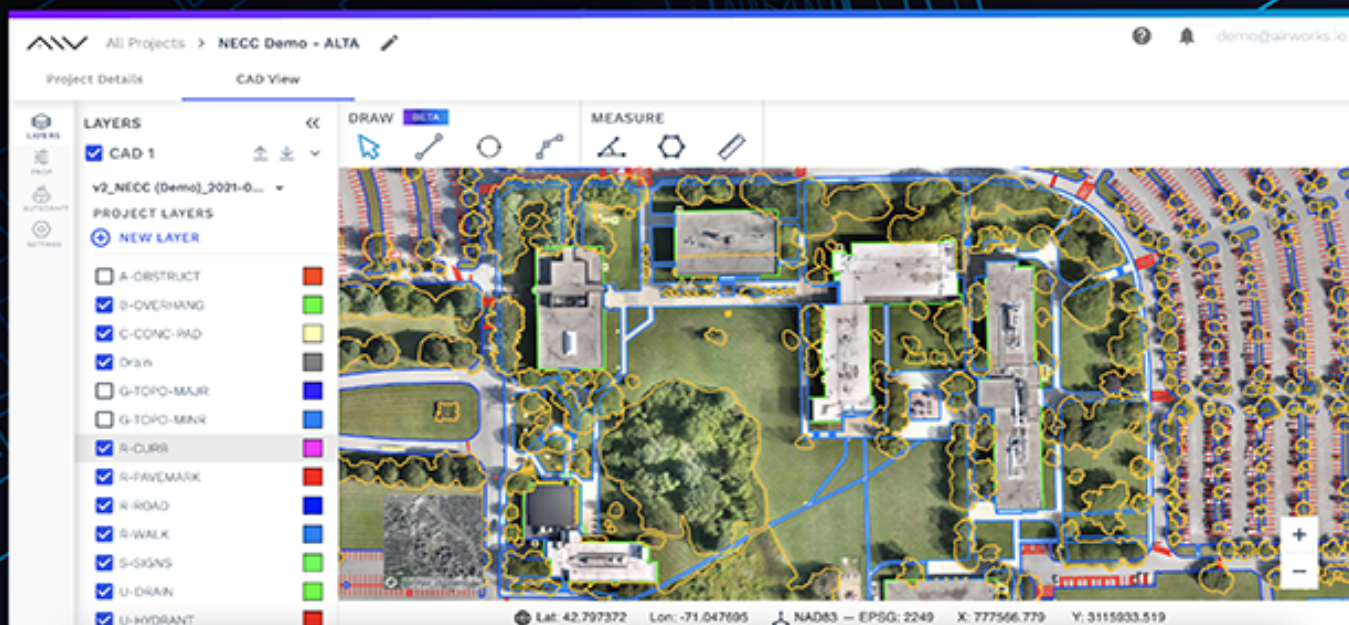
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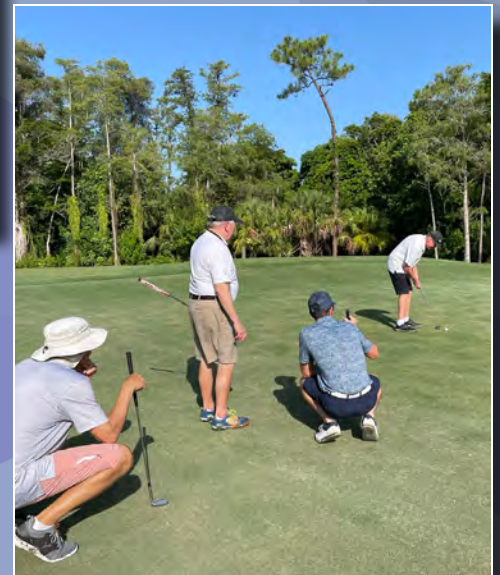


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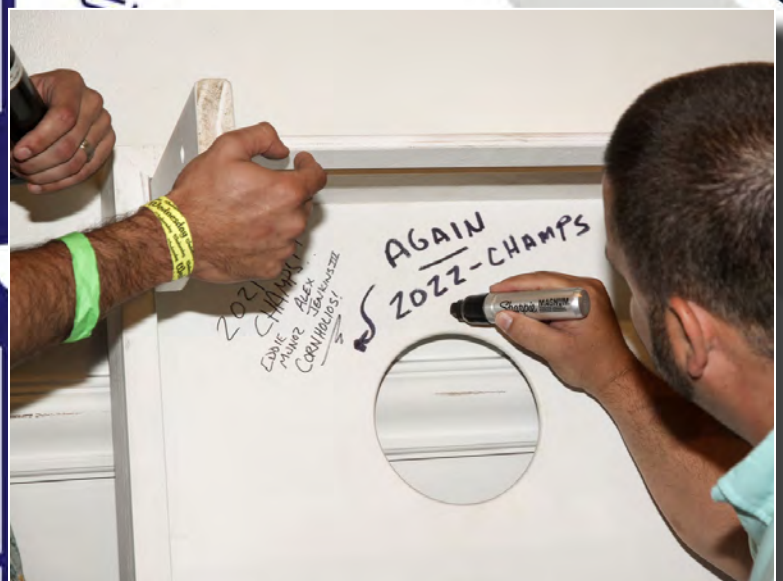




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HOLE AMMENT





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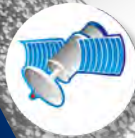
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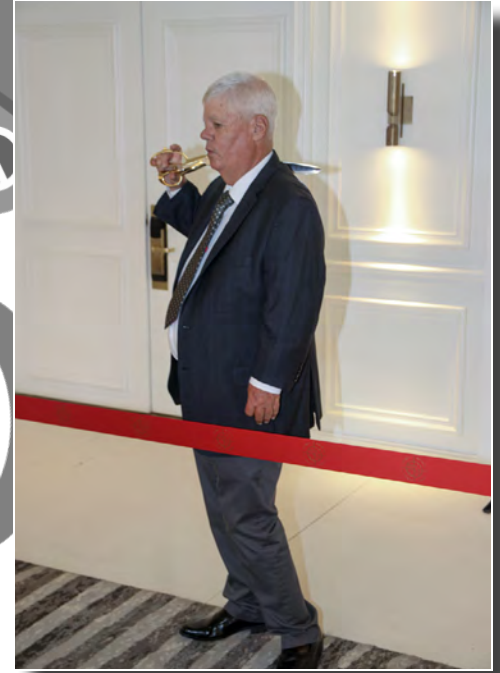
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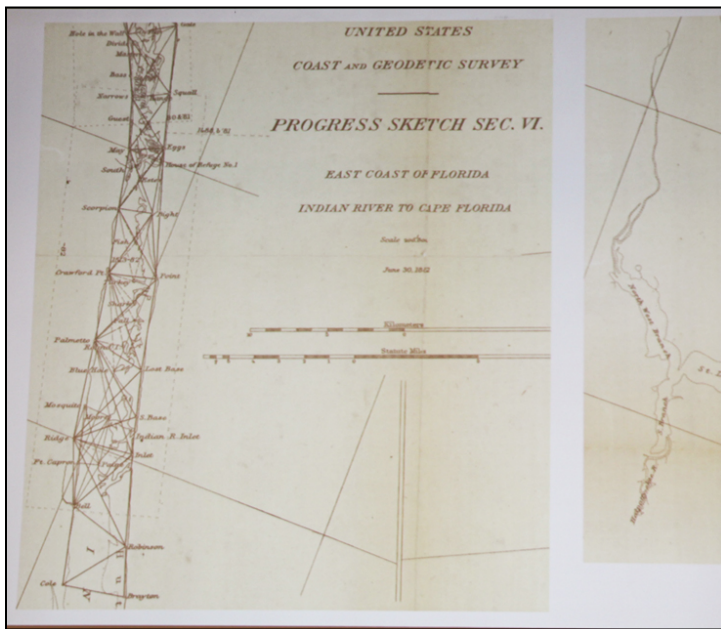


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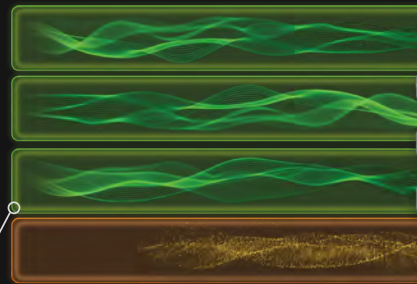
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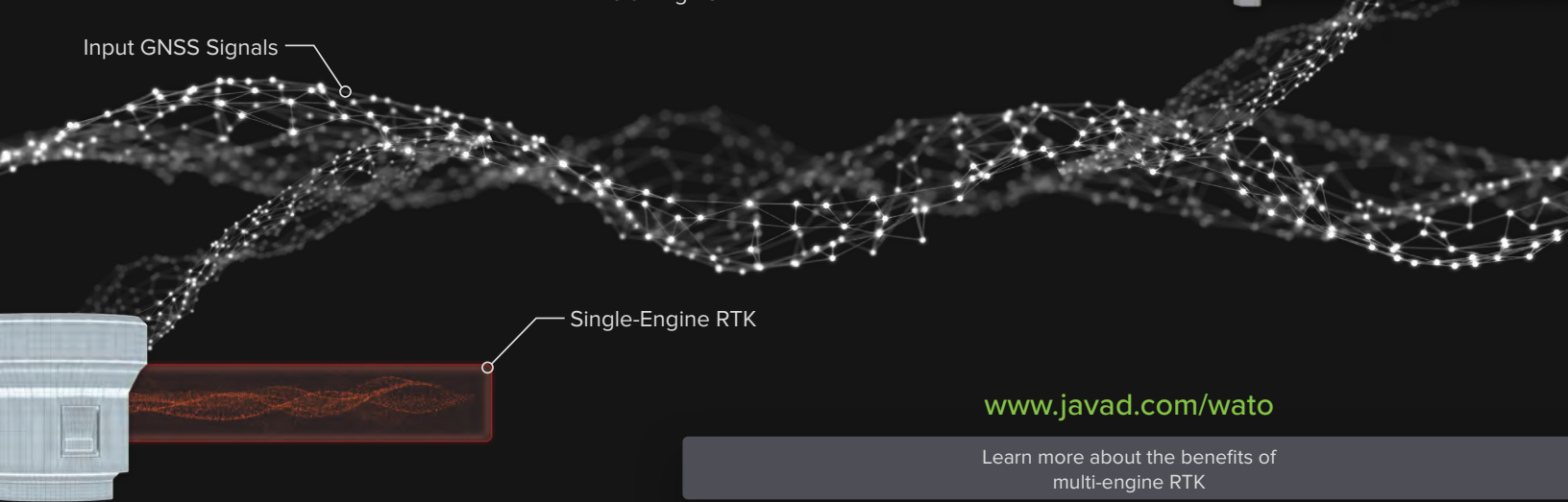
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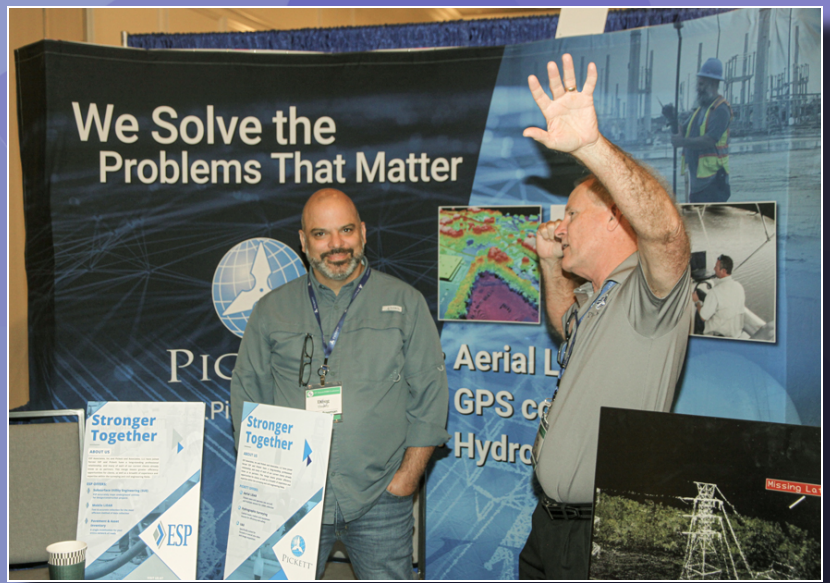


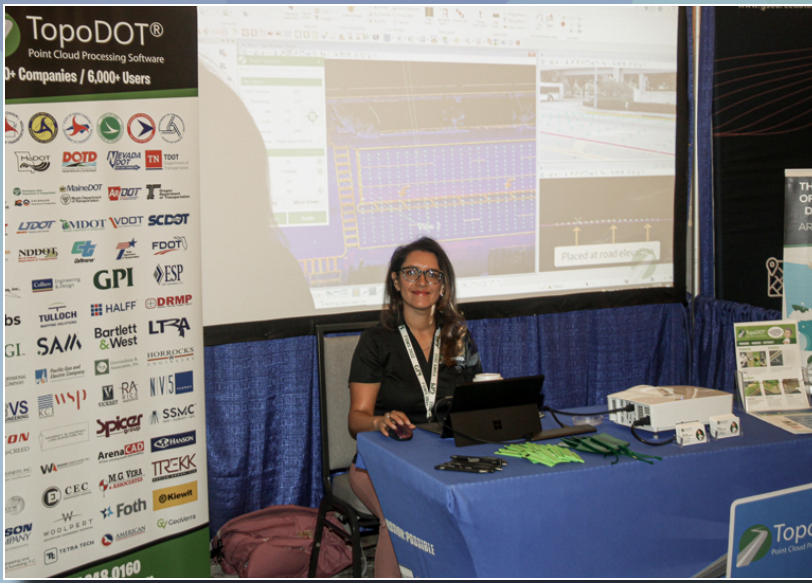
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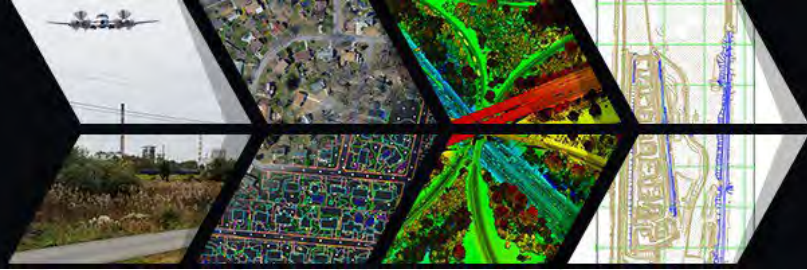


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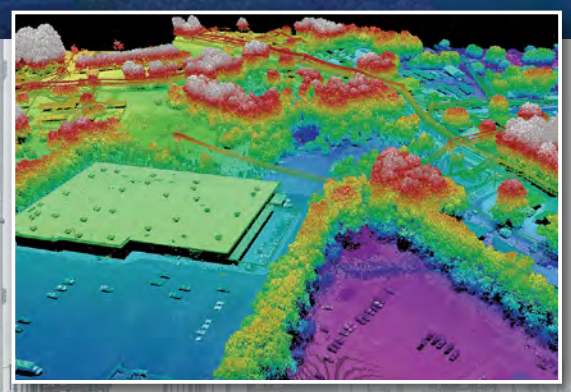
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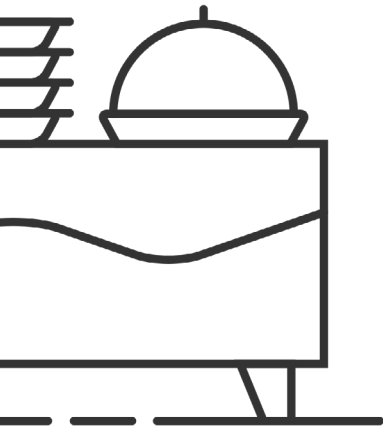
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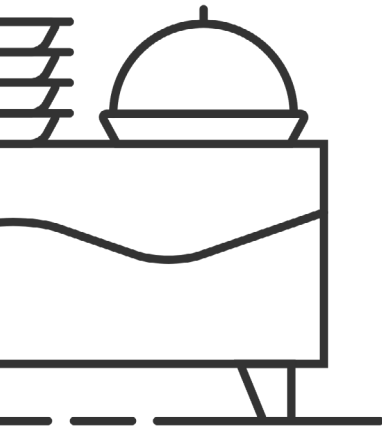
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Kyle Ryan



Recognition



Chapter President Benjamin Hoyle accepts the award for Large Chapter of the Year, Broward County.



Brion Yancy accepts award for Chapter President of the Year.



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Rick Pryce accepts the Steve Woods
Exceptional Service Award.



Chapter President Brion Yancy accepts the award for Small Chapter of the Year, Indian River.



Dr. Bon Dewitt accepts award in place of Dr. Amr Abd-Elrahman for Professional Excellence.



District 5 Director Shane Christy accepts award for Young Surveyor of the Year.

Recognition



Vice-President Jim Sullivan accepts the Committee Chair of the Year Award.



Past-President Bob Strayer accepts his Life Member Award.



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District 4 Director Greg Prather accepts the Fellow Member Award.



Executive Director Tom Steckler accepts his award for Honorary Member of the Society.



Secretary Sam Hall receives the Board Member of the Year Award.



President Lou Campanile, Jr. proudly accepts the H.O. Peters Surveyor & Mapper of the Year Award.

Recognition

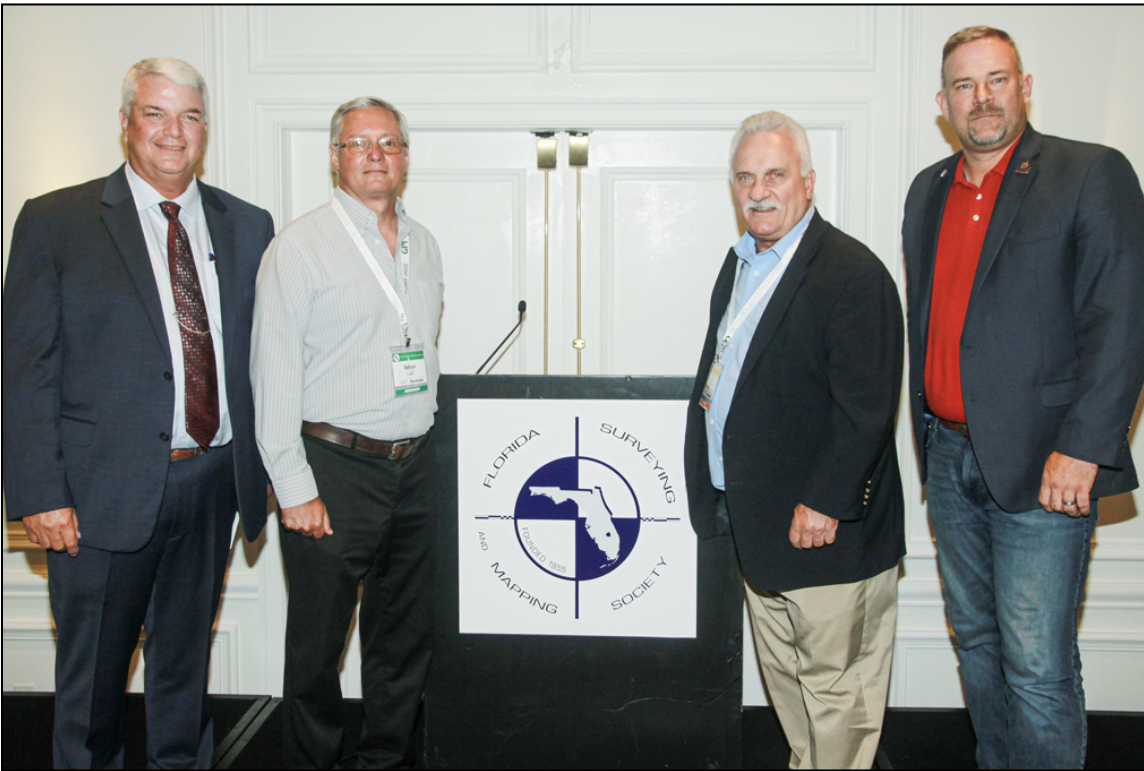


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Recognition

2022 FSMS Board of Directors



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from L to R: NSPS Director Russell Hyatt with outgoing Executive Director Tom Steckler & Past President Bob Strayer



FSMS Administrative Staff, from L to R: Taylor Singletary, Catherine Campanile, Tom Steckler, Rebecca Culverson, & Justin Ortiz.





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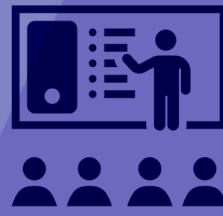


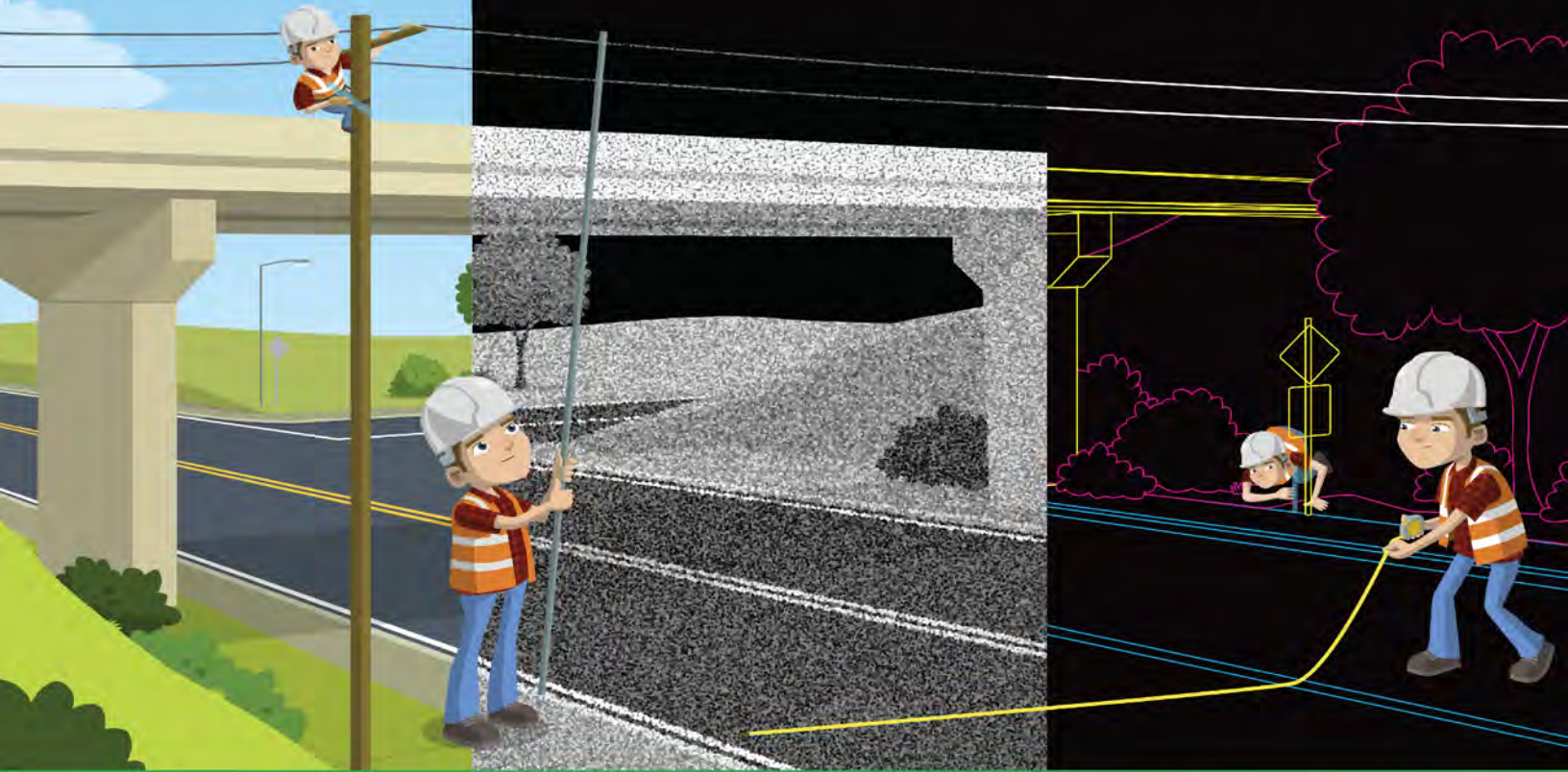


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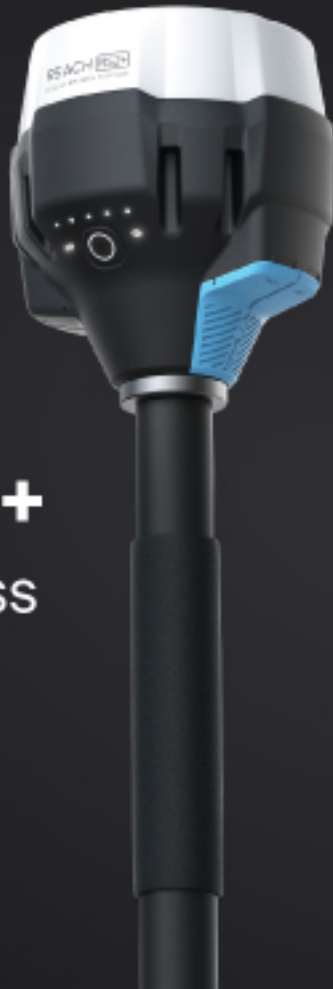
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Perry C. McGriff
Carl E. Johnson
James A. Thigpenn, III
Harold A. Schuler, Jr.
Shields E. Clark
Maurice E. Berry II
William C. Hart
Frank R. Schilling, Jr.

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. Whitling
Robert W. Jackson, Jr.
Pablo Ferrari
Steve Stinson

2010

Dan Ferrans
Jeremiah Slaymaker
Ken Glass
Russell Hyatt
Bill Rowe
Dale Bradshaw
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Bob Strayer, Jr.
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2020

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director@fsms.org



Education Director

Vacant
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**Communications
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