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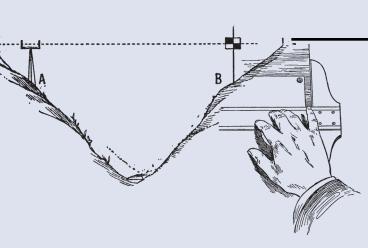
Products for Professionals



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SPECIAL THANKS to Hal & Beth Peters for Their Exceptional Conference Photography!



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.

PRESIDENT'S Report

August 7, 2023



We had a record number of attendees at this year's Conference. I would like to thank Mr. Allen Nobles and the conference committee for their efforts to make the presentations happen, the

instructors for their hours of research and effort in preparing their presentations, the staff for their persistence and determination to make this conference a success, and lastly, the membership for their participation. It was a team effort.

On a separate note, the Constitution is the founding document of the United States. We are constantly citing it for our rights and the laws that govern our country.

In a comparable manner we as surveyors are constantly citing the original location of corners by the Bureau of Land Management, the State of Florida, and other original documents such

as plats. We are always returning to the original corner location. Why, the corners established by the Public Land Survey System are the basis for all legal descriptions within the State of Florida.

In the "Instructions Manual for Florida Certified Corner Records" there is a paragraph that reads:

https://www.labins.org/xtra_data/download/CCRForm2014_InstructionManual.pdf

"Included in these requirements is the obligation on the part of the professional surveyor and mapper to obtain and review copies of the original government



President
Howard Ehmke
(561) 360-8883
Howard@GCYinc.com

The Florida Surveyor Page 1

PRESIDENT'S Report

plat and field notes. Since professional surveyors and mappers are required to 'follow in the footsteps' of the original surveyor, it is mandatory that they know how the original surveyors performed their surveys, what monuments were set and what accessories and other physical features were located. A painstaking search for evidence from those original surveys cannot be complete without this information."

The backbone of our system.

Respectfully submitted.

Howard J. Ehmke II

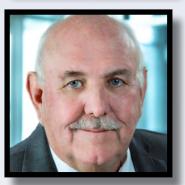


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(954) 739-6400
rdpryce@gmail.com



Vice President
Allen Nobles
(561) 687-2220
allen.nobles@sam.biz



Secretary
Sam Hall
(352) 408-6033
surveysam17@outlook.com



Treasurer
Bon Dewitt
(352) 392-6010
bon@ufl.edu



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Donald Stouten (239) 281-0410 dstouten@ ardurra.com

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Broward, Palm Beach

Mark Sowers (954) 868-7172 msowers@mgvera.com

Earl Soeder (407) 601-5816 earl.soeder@ duncan-parnell.com

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Miami-Dade, Monroe

Jose Sanfiel (305) 351-2942 psm5636@gmail.com mverajr@mgvera.com

Manny Vera, Jr. (305) 221-6210

NSPS Director

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

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Bill Butler wtb@butlersurveying.com

Gulf Coast

Jonathan Gibson jgibson0102@gmail.com

Chipola

Jesse Snelgrove <u>jsnelgrove@</u> <u>snelgrovesurveying.com</u>

Northwest FL

Jeremiah Slaymaker jslay@wginc.com

District 2

FL Crown

Brandon Robbins brndrbbns@netscape.net

North Central FL

Jeremy D. Hallick jdhallick@hotmail.com

UF Geomatics

Andrea Slaven aslaven@ufl.edu

District 3

Central FL

William (Bill) Rowe browe@southeasternsurvey-ing.com

Indian River

Brion Yancy brionyancy@gmail.com

Volusia

Jeff Cory (Interim) jeff@corysurveyor.com

District 4

Ridge

Kenneth Glass kglass@civilsurv.com

Tampa Bay

John Beland jbeland1979@gmail.com

District 5

Charlotte Harbor

Derek Miller millersurveying@comcast.net

Collier-Lee

Steve Shawles II sshawles@haleyward.com

Manasota

Shane Christy schristy@georgefyoung.com

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Palm Beach

Lee Powers

lpowers@zemangroup.com

FAU Geomatics

Brett Costanza
brettcostanza@hotmail.com

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Eddie Suarez marketing@longitudefl.com

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Professional Surveying Societies,

What are they there for?

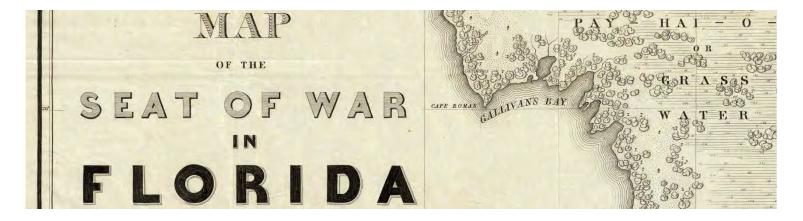
My journey and involvement with the Florida Surveying and Mapping Society (FSMS) has been something of a work-in-progress for over 40 years now. I've been planning to put my thoughts together on this issue for some time – I just haven't had the initiative to write it down. But as I get closer to retirement from the profession, it's been nagging at me: more and more, I see a lack of interest in being involved with our profession – a profession which has served to enlighten and enrich, not just my life, but so many others. It has enabled us to hold onto this... unique love of what we do. So, here is some of my background – and my thoughts – on Surveying in general, and what a Professional society is all about. And, of course, how I came to realize its importance.



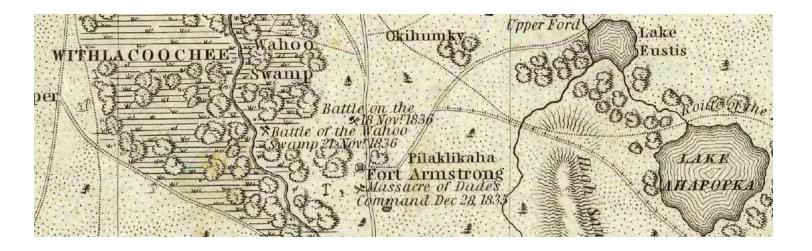
Background:

As someone who came into Surveying by complete accident over 50 years ago — and having been licensed for 40 of them — I have come to realize that we in the Surveying profession really do need each other. Overlooking our love of maps, history, applied mathematics, technology, and the outdoors, we're really a stubborn bunch — especially when it comes to asking for help when we start out. I suppose it's just the nature of wanting to figure it out on your own. Once we get over that hump (which usually happens when we're stumped on a particular boundary issue) and ask another surveyor, that's usually when the light comes on — and a whole new world opens up. There is a plethora of other surveyors just like yourself that — if asked — will bend over backwards to show off their work. Why? Well, I not-so-secretly believe that we're all proud of the work we do, the notes we keep, and the maps and surveys we produce. But I also believe we all hope they'll agree with us.

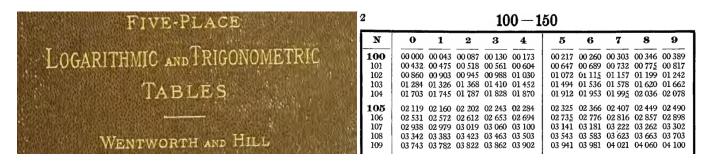
In my experience, to *really* prosper in Surveying, you must have that stubborn backbone, that burning desire to figure out puzzles, and that willingness to work long hours – scratching your head, beating it against a wall – deciphering what was found and how it fits together. More importantly: the ability to read and comprehend the writings, notes, and old maps from a variety of different sources of those adventurers that came before us, will lead you in the right direction and adventures of your own. Old maps are a particular favorite of mine – I'm fascinated by the artwork, as well as the historical details they often contain.



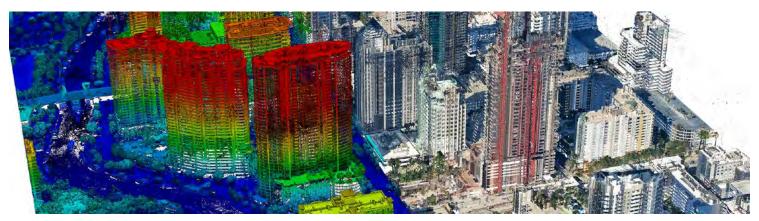
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The math involved with everyday boundary and topographic surveying doesn't have to be complex: a good working knowledge of geometry and trigonometry will get your through 90 percent of everything you come across – and if you need help, you have more resources than ever nowadays. Definitely more so than when I started out – carrying books on 5-place logarithmic and trigonometric tables, working with a slide rule. A university degree in Geomatics is one way to gain this knowledge, but that education is only the beginning. Your real knowledge comes *after* school, when you start working in the geospatial world. True knowledge and understanding only comes after the academic world, both through mentors and through your own research.



Even if I hadn't been advocating for the adoption of the new geospatial technologies myself, they are taking over both our everyday lives, and our profession. This means you should be constantly learning new skills and developing your capabilities. Professional training and classes are important, and you should pursue those – costly though they can be – but I find self-investigation and individual research to be the most important avenue. Getting out of your comfort zone and pushing the limits of your knowledge will give you the boost you need to remain interested and focused. The most important new geospatial technologies – the ones you should be most focused on – are Geographic Information Systems (GIS), remote sensing, and all forms of LiDAR (terrestrial, mobile and aerial). Aside from the new technologies, datums – both horizontal and vertical - will become a key factor in your future as a Surveyor. And above all: when you do learn something new, pass it forward. Become the teacher, not just the user.





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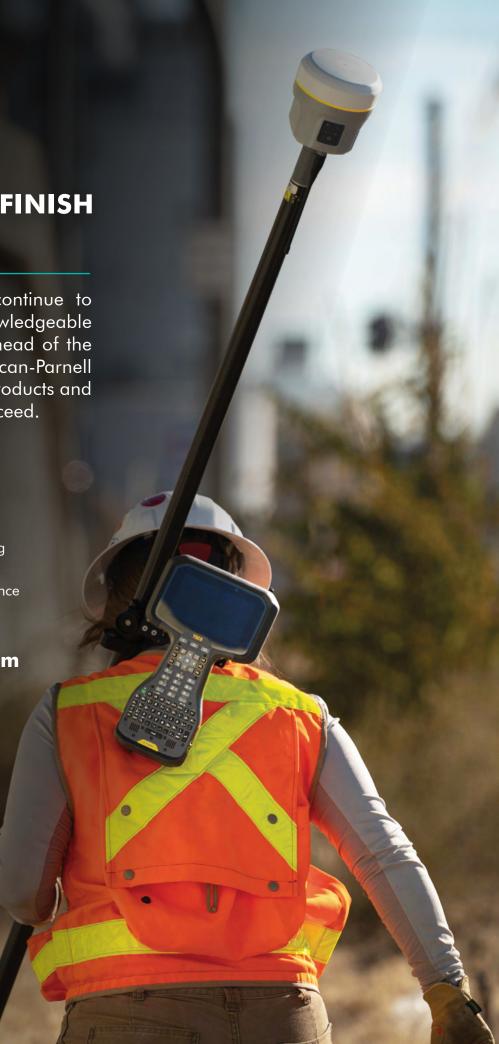
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Professional Surveying Societies:

While technology plays a very important role in what we do and how we perform adjustments, calibrate networks, and make final decisions on boundaries, it really is secondary; the more important skill is being able to read and decipher descriptions, and to interpret field data, in order to make a decision. Where to look, how to look for it, and when to stop looking: these issues cannot be taught even in a comprehensive college or university environment, and certainly can't be learned just from a book. So where does it come from?

An early mentor – who eventually became a lifelong friend - invited me to a local chapter meeting after I had been in Surveying for about 5 years, splitting my time between office drafting and field work. I really didn't think I had time to go to this when I had what I considered more important work to do the next day, but I relented and went. What I witnessed that night was indelibly imprinted in my memory. Well-known surveyors from around the area were concentrated in one place, and there was plenty of alcohol flowing on this night. I was introduced to several of them and was welcomed warmly. Once the meeting started, there were discussions about the different types of surveying and how it should be done, and a couple of items about state laws on surveying. However, the two most prominent surveyors got into a heated debate on surveying methods. They were very determined to get their point across and extremely forceful and loud and stood their ground and several in the audience also started getting into the heated discussion. I stood back and listened and watched waiting for the fists to come out, it was quite a spectacle. But in the end and to my amazement cool heads prevailed, and after it was all over, they shook hands, and we all had a beer to finish the evening. It was an amazing experience, and something I had never experienced before. I came to several more meetings after that, which weren't as entertaining, but that meeting - and all the meetings afterward - have helped guide me through my career. It got me to know these characters and what they stood for.

It still took me years to join the chapter as member, but in 1981 I finally made the leap. I was getting close to being able to take the test for my license and it became clear that these Surveyors could help me get there. I have never regretted that decision, and - looking back now - it was probably one of the most important things I did for myself.

I believe one of the main reasons for belonging and participating in your professional societies is to gain knowledge and insight from the collective experiences of your peers.

Another important reason is, after you've spent time in the trenches of surveying and gained knowledge and personal experiences, sharing that is one way to give back to the profession; the profession which has helped you grow and prosper into who you are today. For those new to the profession, the society acts as a support group from which you can gain new ideas and assistance from those who have already gone through the process. I've found that most of those who attend the meetings and participate will become lifelong friends and colleagues; people who are more than willing to help out any problem you run into.

The Society also serve as that ever-important watchdog to our profession, keeping an eye on both the Legislature, and on other professions, who want to chip away at what has always been considered under the realm of the Surveyor. They serve a very important role: keeping our Profession



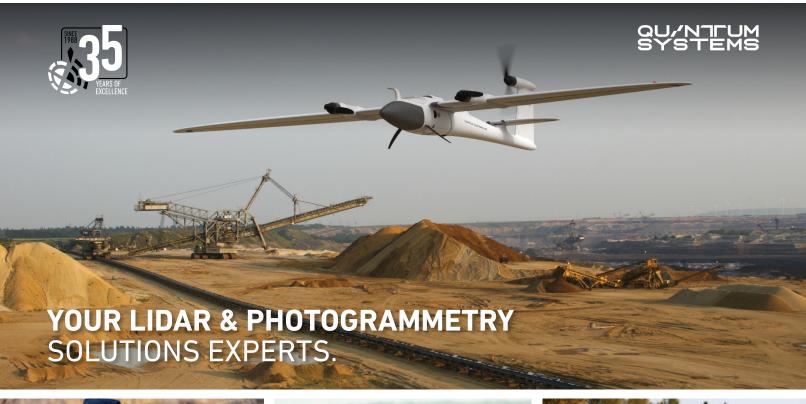
from being attacked or blindsided from things that we might not even know about until it was too late. Politics, like it or not, plays a significant role in governing what we can and can't do. The Society acts as a go-between for both Surveyors and Surveying firms and the legislators, with the help of our Political Action Committee (FSM PAC) and our lobbyist. We couldn't do this alone, which means membership in the Society and our contributions to the PAC are important.

There are probably good-ole-boy clichés out there in several local chapters within the State Societies, but I would say those who actually become the officers and directors have a desire to serve and give back to their profession and want to help elevate it. We need young men and women coming into the profession, and we should be actively pursuing them.



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Parrot

Let's face it, we of the older generation are set in our ways, and that hampers our ability to adopt the emerging technologies – which is a problem the younger generation doesn't have. That said, experience matters: those same young people need direction and mentors, just as the majority of us had early in our careers. It is the intermixing of experience and of new perspectives, rather than one or the other, that we need. We need the older generation participating in the Society to pass on the experience they've learned, to give back to the next generation of surveyors so they can take it to the next level.



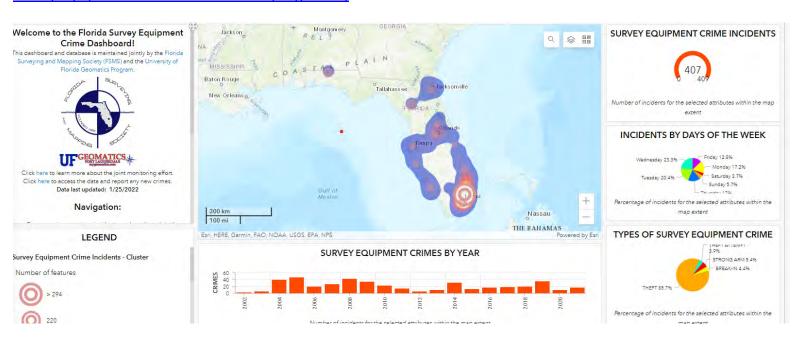
FLORIDA SURVEYING & MAPPING SOCIETY

"The Association for Geospatial Professionals"

The <u>Florida Society of Surveyors and Mappers (FSMS)</u> just like many other Survey societies, strives hard to help the membership stay informed on issues affecting the profession; especially laws and legislative issues affecting Surveyors. We also take great pride in providing low cost continuing education, and we have committees constantly looking for ways to add both new classes and new ways to deliver them to our members (i.e., online).

When the Profession started coming under attack from thieves stealing Survey equipment back in 2002, FSMS established a Theft Committee, and helped to set up a Crime database; with this we have tracked crimes against Surveyors across the State and has assisted Law enforcement as well. One of our most recent and largest thefts involved a company office that was broken into and over \$200k of equipment stolen. With a combination of new technology, GIS, and aggressive law enforcement efforts, we were able to recover over 75% of the equipment. Our Trimble rep was able to access the equipment through the cloud and track the equipment getting location pings every minute. I was able to take that data and create maps for law enforcement showing the complete route the thieves took which helped in the identity and ultimate arrest of the criminals involved.

Survey Equipment Crime Incidents in FL (arcgis.com)

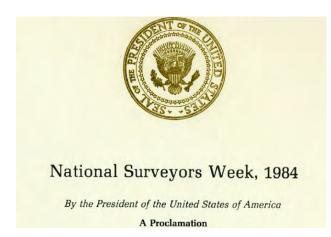


One of the more important things that Professional societies do is to stay in touch with other state societies and our National Organization (NSPS), so that we keep informed and involved on the national level. We would never have had National Surveyor's Week proclaimed by President Ronald Reagan and Congress in 1984 if it weren't for the dedication in our national organization. They did whatever was necessary to bring to the attention of Senators and Representatives the importance of what role the Surveyors had in the development of the



United States. Now that the remaining Member Organizations (NSPS, AAGS, & CaGIS) of the original ACSM have separated into individual societies, <u>NSPS</u> has become stronger for it, and much more focused on our profession and leading it into the future.

Our State Society celebrates <u>National Surveyors Week</u> every year by having the chapters going to their State, County and Municipal governments, and getting proclamations recognizing the importance of the Surveyors and National Surveyors Week. I don't see other Professions out there that have that National recognition, and we should be proud of it.



In recognition of the significant contribution made by surveyors to the United States, the Congress, by Senate Joint Resolution 44, has authorized and requested the President to designate the week beginning on March 11, 1984, as "National Surveyors Week."

NOW, THEREFORE, I, RONALD REAGAN, President of the United States of America, do hereby proclaim the week beginning March 11, 1984, as National Surveyors Week. I urge the people of the United States to observe this week with appropriate ceremonies and activities paying tribute to professional surveyors and their contribution to society. I invite all Americans to look back at the historic contributions of surveying and look ahead to the new technologies which are constantly modernizing this honored and learned profession.

IN WITNESS WHEREOF, I have hereunto set my hand this 13th day of Feb., in the year of our Lord nineteen hundred and eighty-four, and of the Independence of the United States of America the two hundred and eighth.

Round Reagon

We will always need leaders in our profession to keep us a profession. The State and National Societies fill that role and provide a platform from which we can continue to gain respect and fight when we need to; without them, we would surely become just another trade organization.

I challenge those out there who complain about their societies, and yet have never served or participated beyond coming to meetings: you need to become involved. To paraphrase Plato, if you aren't involved in the society, the profession will always be governed by your inferiors.

I know for a fact that most that have taken that step, and - having served - come away with a much better understanding and respect for what a professional society is, and its purpose. Yes, it's a lot of work, and the people who give up their time and energies to voluntarily serve and promote our profession probably feel like they are going crazy sometimes.

I certainly do.

However, just sit back and think about where we would be right now without them, would there even be a profession.

My regards to all my peers and future peers out there. It's a Great Profession but remember there is strength in numbers. Even though we are all independent while doing our work, we are also all connected by our past, with those that we still walk in the footsteps of.

Richard D. Pryce, RLS/PSM

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PLATINUM

Duncan-Parnell

Duncan-Parnell is an authorized Trimble dealer for land survey, mapping/GIS, and construction instruments and accessories, and has been the leading provider of survey & mapping solutions in Florida for over 20 years. Our product offerings include GNSS receivers for both survey & mapping applications, robotic and manual total stations, software for workflow integration,



digital and automatic levels, 3D laser scanners, utility locating equipment, construction lasers, as well as a full range of field supplies and accessories. Not only is Duncan-Parnell a full field-to-finish provider, but our Geospatial team has decades of industry experience, certified maintenance centers, and experienced trainers on staff. We're ready to be a trusted partner and assist with your sales, rental, or maintenance needs.

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SILVER

Navigation Electronics, Inc.

Navigation Electronics, Inc. (NEI) is a woman-owned small business, with Barbara Poche serving as President & CEO. We are a Trimble Geospatial solution provider in the S.E. and have been in business for 35 years. NEI represents Trimble as it's premier product line distributor and has been a Trimble distributor since 1990. We provide excellent customer service



with a long history of customer satisfaction. NEI has assembled a team of professionals, each having unsurpassed expertise in various areas of Surveying. We currently have three licensed land surveyors on staff, two GIS professionals, and three Part 107 pilots. Corporate headquarters is a state-of-the-art facility with a training center and over 100 years of service experience in Lafayette, LA. NEI has a sales office in Duluth, GA, and maintains satellite offices in Florida, Mississippi, Alabama, and Arkansas, and currently employs 28 people.

SmartDrone

Founded in 2020 and based in Tyler, Texas, SmartDrone is a leading innovator in the field of unmanned aerial technology. We design, engineer, and manufacture state-of-the-art aerial mapping lidar drones. Our products are designed to redefine industry standards and are equipped with advanced technology to deliver highly accurate data. SmartDrone is not just a drone



manufacturer; we are a complete solution provider. With our team of drone mapping specialists stationed across the U.S., we offer comprehensive aerial mapping services that cover every phase from data capture to delivery. Our team is dedicated to provide accurate, timely, and high-quality data to support the vital work of surveyors, civil engineers, and architects.

SILVER

TopoDOT

TopoDOT is a leading software development company located in Winter Garden, 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

Airworks

AirWorks is an Al-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 Al-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.

STANDARD

American Government Services Corporation

American Government Services (AGS) is a full-service title company that specializes in providing real estate services to government agencies. AGS has been providing title and closing services in the State of Florida since 1979. American Government Services is a 100% women-owned business, certified as a DBE/MBE firm with the State of Florida and registered as a real estate broker corporation with the Florida Department of Business and Professional Regulation. AGS hopes to meet and exceed all of your Title service needs.

ATWELL

Atwell, LLC is a national consulting, engineering, and constructionservices firm with offices throughout the country that deliver a broad range of strategic and creative solutions to clients in three core markets: real estate and land development, power and energy, and oil and gas. Atwell provides comprehensive turnkey services including land and right of way support, engineering, land surveying, environmental compliance and permitting, and project and program management.

AYRES

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.

STANDARD

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Carlson Preferred Solutions is the exclusive Carlson Software
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software to the Land Surveyor, CivilEngineer, and Construction professional.

Caulfield & Wheeler

Caulfield & Wheeler, Inc. (CWI) was incorporated in October of 1982 in Palm Beach County, Florida. Its principals and employees provide professional Civil Engineering, Planning, Land Surveying, Landscape Architecture, 3D Laser Scanning, and Unmanned Aerial Systems services. CWI has been contracted by many prestigious municipalities, developments, and governmental agencies throughout Florida. CWI's principals have over 200 years of combined experience serving as active project managers, ensuring every project meets our technical quality standards while remaining within the client's budget and schedule.

CTS Engineering

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, 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.



STANDARD

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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 postprocessing, 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.

STANDARD

Florida Atlantic University

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 has 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 studentssuccessfully pass the NCEES Fundamental of Surveying (FS) and Fundamental of Engineering(FE) examinations before graduating from the program.

FLT Geosystems

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.

FREAC

The Florida Resources and 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.

STANDARD

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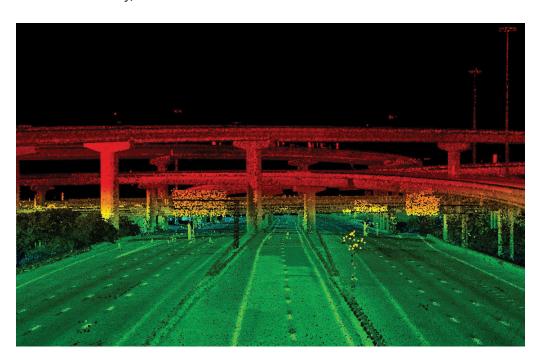
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STANDARD

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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. Its purpose 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.

GPI

GPI Geospatial, Inc. (GPI) has been a premier provider of geospatial solutions for over 49 years. We provide precision mapping, imagery, and lidar acquisition as well as surveying services for transportation, planning, design, construction, energy, and government clientele. GPI owns and operates multiple aircraft and vehicles equipped with advanced imagery and Lidar sensors, providing customized solutions for our clients whether it's from the air, ground, or mobile platforms. Our team can gather, assess, standardize, and optimize geospatial data for use across the enterprise using GIS technology.

STANDARD

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At Gsource Technologies, we believe that mind-blowing engineering isn't limited to the tech - it's also a product of the talented individuals crafting it. We merge our cutting-edge tech with deep-rooted engineering principles and decades of experience to engineer unparalleled results. From elaborate CAD models to thorough design assessments, our squad is here to fulfill your needs with speed and efficacy. We're at the forefront of cutting-edge technologies, like AI, machine learning, drone photogrammetry, LiDAR data processing, product design simulations, digital mockups, engineering designs, BIM, VDC, and digital twins, while catering to clients across industries like construction, fabrication, architectural, structural, electrical, general contractors, civil, geospatial, and manufacturing. Our exceptional solutions are the trailblazers that set off innovation and progress, bringing forth optimal results. Say goodbye to mediocrity - let's engineer a brighter tomorrow, together!

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HTS Advanced Solutions is the leading provider of 3D measurement and mapping technology solutions in the US. Timely, and well-maintained equipment drop-shipped to your door, 7 days a week, 24 hour emergency line for terrestrial, mobile and airborne 3D scanning/mapping and metrology equipment rentals. In addition to offering the most up-to-date gear worldwide, HTS Advanced Solutions provides global technical support 24/7. Trained operators are available to accompany the equipment and perform the field work if required. Offices in Florida, Texas, and California.

The Florida Surveyor

STANDARD

I.F. Rooks & Associates

Celebrating our 54th 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 basemapping of major power producing plants and University campuses throughout the Southeast as well as the use of LiDAR technology for supporting photogrammetric mapping information.

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JAVAD GNSS designs and manufactures a complete land surveysolution engineered for accuracy and ease of use in challenging GNSS conditions. It's all new TRIUMPH-1M Plus smart antenna and T3-NR network rover meet all the needs of high precision survey applications. All JAVAD GNSS products are proudly made in the USA at its factory in San Jose, California.

STANDARD

Kucera International

Kucera International Inc. is a leading provider of aerial remote sensing, lidar processing/classification, ground surveying, photogrammetric mapping and imaging, geospatial data conversion and analysis, and related services for government, industrial/ commercial, professional, and educational/research applications. Kucera's in-house staff of over 60 experienced geomatic professionals working at offices in Florida, Ohio, Pennsylvania, and South Carolina includes licensed/certified photogrammetrists, surveyors, engineers, GIS specialists, project managers, pilots, and aircraft mechanics. For data acquisition, Kucera operates a fleet of high-performance, multi-port manned aircraft outfitted with the latest generation in aerial lidar, digital aerial imaging, and multispectral sensing systems together with advanced GPS ground and airborne surveying technologies. For data processing, mapping, and analysis, Kucera uses a variety of robust, proven remote sensing, photogrammetric, imaging, and GIS and CAD technologies/software. Kucera regularly works throughout the State of Florida, Caribbean region, and other areas of the US. Kucera is a longstanding State of Florida professional surveying and mapping firm and a toprated FL DOR aerial services contractor.

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.

STANDARD

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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.

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McKim & Creed is an award-winning, employee-owned engineering, survey and planning firm with more than 800 employees operating in offices throughout Florida, Georgia, South Carolina, North Carolina, Virginia, Texas, Louisiana, and Pennsylvania. McKim & Creed specializes in airborne and mobile LiDAR/scanning; unmanned aerial systems; subsurface utility engineering; hydrographic and conventional surveying services; civil, environmental, mechanical, instrumentation, plumbing, and structural engineering; and industrial designbuild services for the energy, transportation, government, land development, healthcare, industrial, and water industries.

STANDARD

Multicopter Warehouse

MultiCopter Warehouse is a specialized distributor of Unmanned Solutions for commercial applications in the construction, earthworks, road building, surveying, mapping, inspection, public safety, accident reconstruction, mining, and aggregate industries. We sell drones, sensor payloads, and software solutions from major manufacturers; such as DJI, FLIR and Pix4D. Our solutions utilize GPS guided Unmanned Aerial vehicles, plus Lidar, Thermal and Photogrammetry based payload technology. Established in 2014 and based in Denver, CO – we are a premier distributor for DJI Enterprise across the US and Canada. Come see the latest aircraft models from DJI Enterprise along with its leading-edge payloads, the L1 Lidar sensor, and the P1 Camera.

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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 cell phone, 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).



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STANDARD

National Geodetic Survey (NGS)

The National Geodetic Survey (NGS) was created in 1807 by President Thomas Jefferson as our Nation's first civilian scientific agency, and was known as the Survey of the Coast. Today, the agency continues under the NOAA banner. Our mission is to define and maintain the National Spatial Reference System (NSRS). The NSRS provides a consistent coordinate system that defines latitude, longitude, height, scale, gravity, and orientation throughout the U.S. and its territories.

SAM

SAM is a leading provider of spatial data for decision support serving utilities, transportation, and infrastructure-focused clients. As the most technically advanced professional geospatial and inspection firm in North America, SAM uses industry-leading methods to capture and analyze assets, and environmental conditions with unrivaled speed and accuracy. Through SAM's complete digital enablement, our clients and partners are equipped with the business insights that ensure the safety, sustainability, and reliability of critical infrastructure. SAM currently has over 1,500 employees, located in 48 offices in the U.S. and Canada.

Local resources, include 8 Florida offices located in Orlando (2), Jacksonville (2), Tampa, Tallahassee, Clearwater and Niceville. Florida licensed staff includes 22 Professional Surveyors & Mappers and 8 Professional Engineers. The Company was founded in 1994 and is headquartered in Austin, TX.

The Florida Surveyor

NOAA

STANDARD

Stakemill

Since 1978, Stakemill has been supplying Land Surveyors with wood stakes and premium lath along with monuments, rebar, and survey markers. We carry a complete line of equipment like tripods, locators, optics and more from Subsurface, Topcon, Sokkia, Leica, Geomax, Trimble, Schonstedt, SECO and SitePro. From our Florida warehouses, we offer pick-up and delivery in select locations - visit www.stakemill.com.

Surveyors Instrument Services

Surveyors Instrument Services, LLC, is a land surveyor and construction equipment supplier based in Tampa, Florida. We offer repairs, service, rentals, supplies, new and used equipment options for all of your surveying needs.



Owner, Stan Denison, has 40+ years of service and expertise in the surveying and construction industry. We provide customers with superior service and a quick turnaround time. Our years of experience, knowledge, and service in the industry has allowed us to be a reputable company for our customers. The list of equipment we sell and service is extensive.







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- I.F. Rooks & Associates is a full-service Geospatial firm serving clients throughout Florida and the Southeastern United States for 54 years.
- We have extensive experience in providing topographic/ planimetric mapping, digital orthophotos, Aerial LiDAR, fixedwing and helicopter aerial photography for transportation, site development, coastal and environmental projects.
- 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.
- I.F. Rooks is Pre-Qualified by FDOT in Workgroup 8.3 Photogrammetry.

Office: 813.752.2113 ~ Web: www.ifrooks.com

STANDARD

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 Geomatics Student Association (GSA) is an active student chapter of the Florida Surveying & Mapping Society(FSMS) and is a regular Exhibitor at their Annual Conference, 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.

UF | IFAS

The UF/IFAS School of Forest, Fisheries, and Geomatics
Sciences 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.

STANDARD

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. VACMASTERS offers industry leading products, keeps things simple and skips middlemen/distributors to offer you great factory direct pricing.

Vernon

The Vernon Company is a leader in the promotional product industry. We can design, import, and distribute an unlimited selection of quality promotional products. That's right; whatever product you wish to put your brand on, we can provide it. We offer trendy products and name brands you have not seen anywhere else. Vernon strives to provide solutions — not just products — for corporate identity needs, company stores, new products and/or new services. Let us help improve your market share, increase your sales, build customer loyalty, improve safety and morale, and thank customers and employees.

Burke Buchanan * 3rd Generation representing The Vernon Company BurkeB@vernoncompany.com * phone/text: 850.510.0273 www.BurkeBuchanan.com

STANDARD

YellowScan

At YellowScan we design, develop, and produce UAV Mapping Designed to innovate solutions for professional applications. Fully integrated, ultra-light and easy to use, these highly automated data collection tools are used by customers around the world in fields such as surveying, forestry, environmental research, archeology, corridor mapping, civil engineering, and mining. With more than 13 years of field experience, YellowScan is committed to delivering the highest level of performance, reliability, and robustness for its solutions. Our platforms are field tested all over the world in multiple environments (tropical forests, bare soils, mountains, rivers, coast lines, open-pit mines, power lines). For more information please go to www.yellowscan.com.







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UF 50th Celebration Breakfast

ATWELL



UF 50th Celebration Breakfast

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Saturday Refreshment Breaks

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Name Badges

GPI



Registration Desk & Signs

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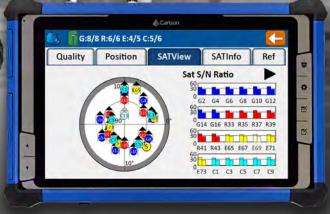


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GNSS REIMAGINED



Use the RTk5 as a versatile network rover, handheld GIS unit, or ruggedized data collector. The RTk5 is designed for surveying, stake-out, GIS mapping, and construction layout.



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- Exceptional performance under canopy
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Banquet Door Prizes

Broward Chapter

Broward Chapter



Banquet Door Prizes

Tampa Bay Chapter



DRMP

Cornhole Competition Exhibit Hall Beverages



Cornhole Competition

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Golf Tournament

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Central FL Chapter

CST Exams Young Surveyors Event Registration Packets





The Florida Surveyor

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Exhibit Hall Beverages

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Exhibit Hall Beverages

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Young Surveyors Event

WGI

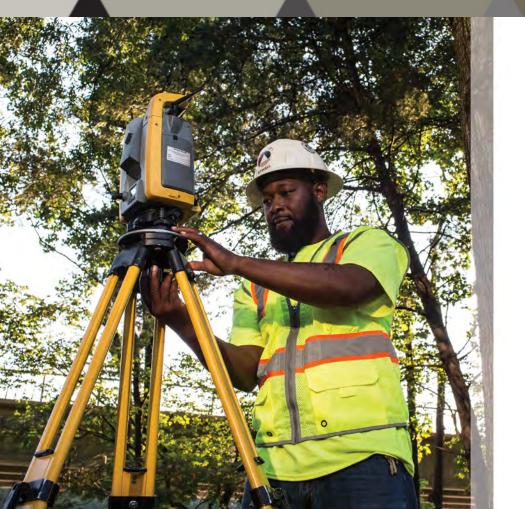


Registration Packets

Collier-Lee Chapter







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Solve three dimensional geodetic and astronomic position problems, determine geodetic and astronomic azimuths, and measure fluctuations and accelerations in the Earth's magnetic and gravity fields. They serve as NGA's primary ground-based data collectors and use and maintain a variety of geodetic and geophysical survey equipment to support data acquisition.

They compute, adjust, and evaluate geodetic survey data acquired by other organizations. They provide indepth technical expertise on geodetic and geophysical issues to customers and represent NGA in external community forums establishing DoD and Intelligence Community doctrine and policy.

Stop by our booth at the FSMS Conference to learn about current job openings and internship opportunities!

www.intelligencecareers.gov/NGA

recruitment@nga.mil

Approved for Public Release, 22-512

Applying to Jobs and Internships at NGA

Are You Eligible for Employment at NGA?

Applicants must meet the following criteria to qualify for employment with NGA:

- U.S. Citizen
- 18 years of age or older
- Able to obtain a Top Secret/SCI security clearance
- · Pass mandatory pre-employment drug screening
- COVID-19 vaccination, subject to exceptions required by law

Apply for a Job

- Click **Apply** on the job listing to start the process.
- Follow the instructions on each screen.
- Review your application. Ensure your package is complete and includes all required documentation.
- Click Submit Application to submit your complete application.
 You will receive an email confirming submission. If you do not receive an email, your application was not successfully submitted.

Beginning Your Job Search

Go to NGA's career website: www.intelligencecareers.gov/NGA

- To start your job search, click on Search NGA jobs, which will take you to a list of current opportunities at NGA.
- 18 years of age or older
- **Register:** You must register to apply for a job opening. To register, click **New Users** on the Job Search page.







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CORNHOLE



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TOURNAMENT



CORNHOLE



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TOURNAMENT



CORNHOLE



TOURNAMENT



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CLAY SHOOT



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CLAY SHOOT



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TAMPA BAY

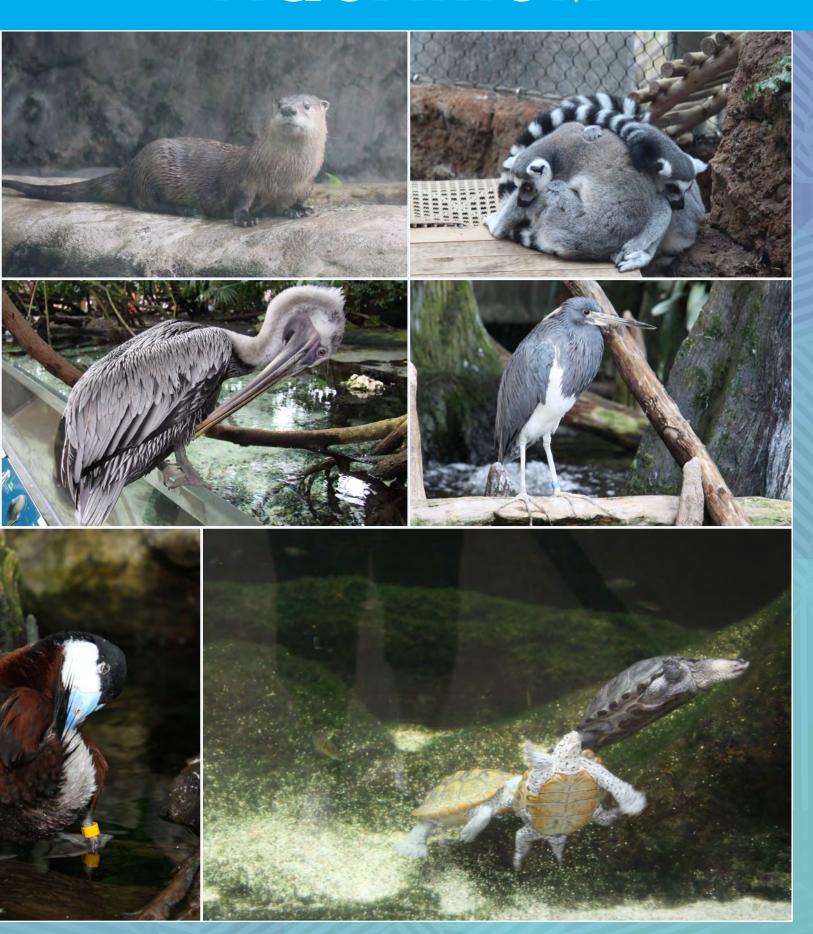
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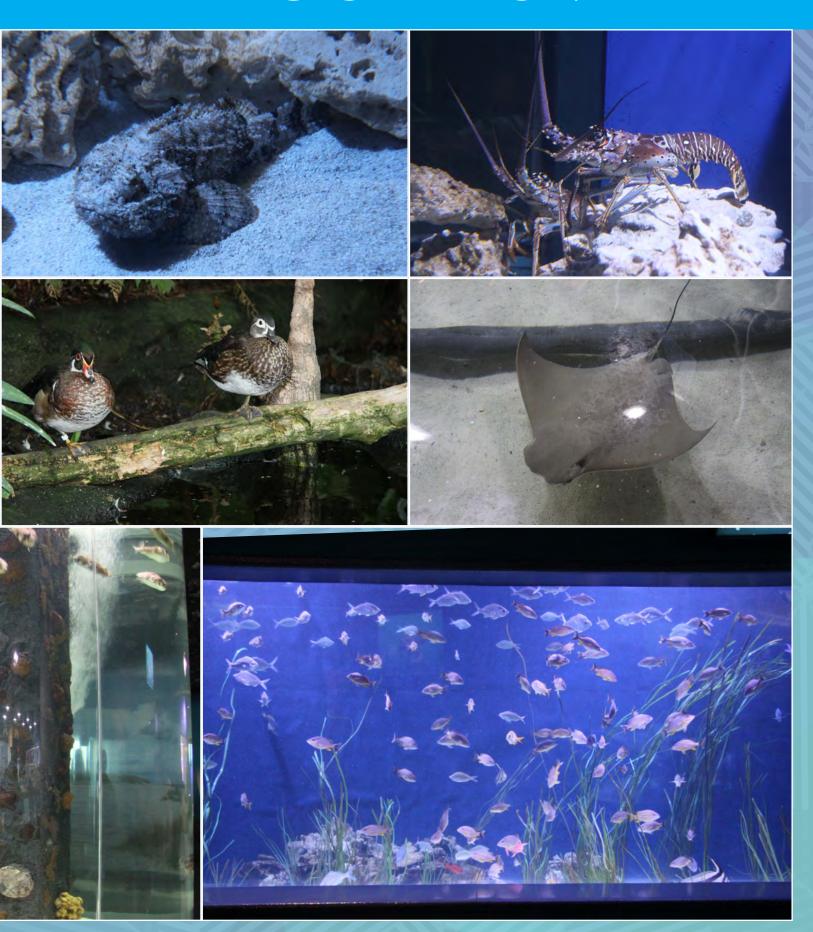
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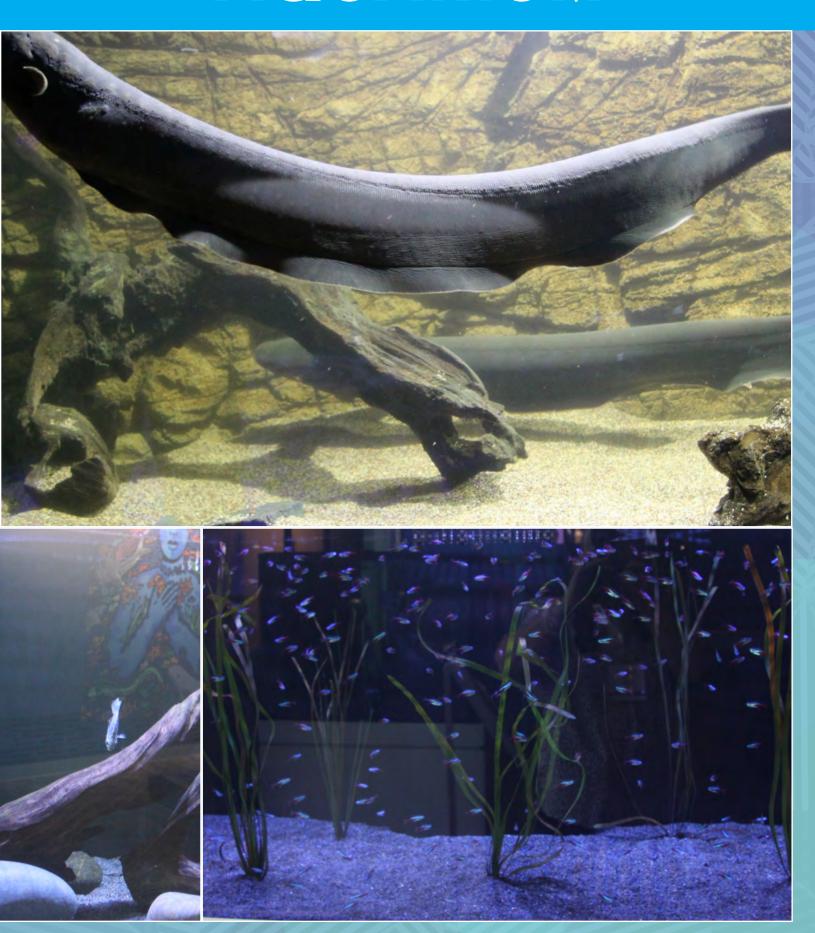
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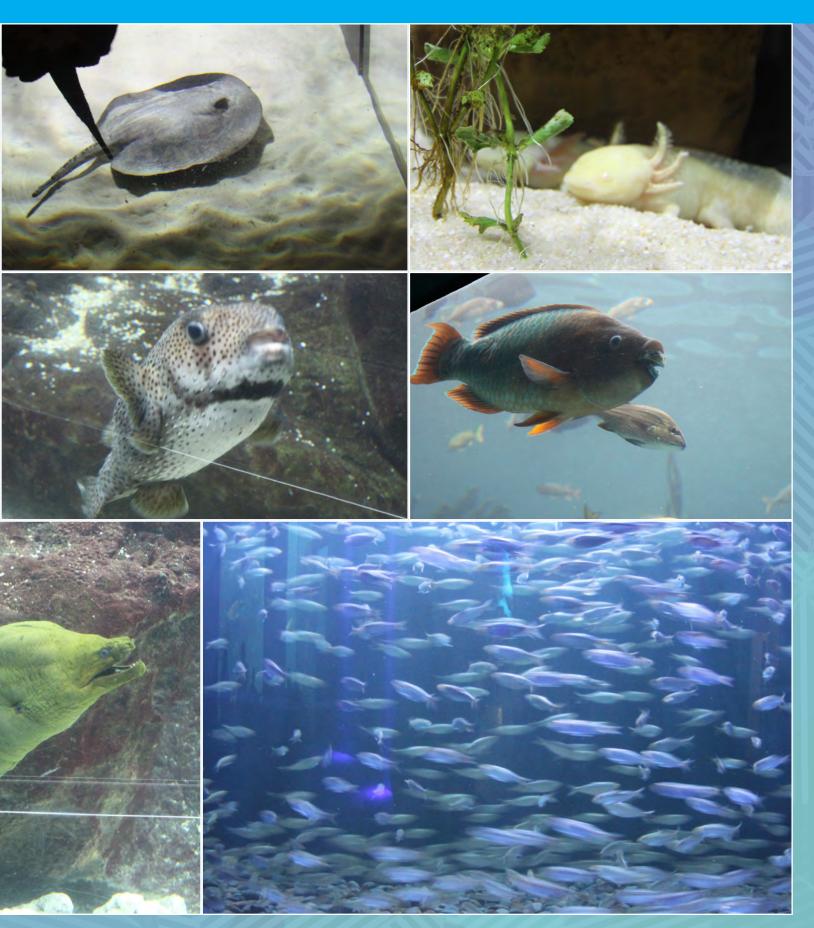
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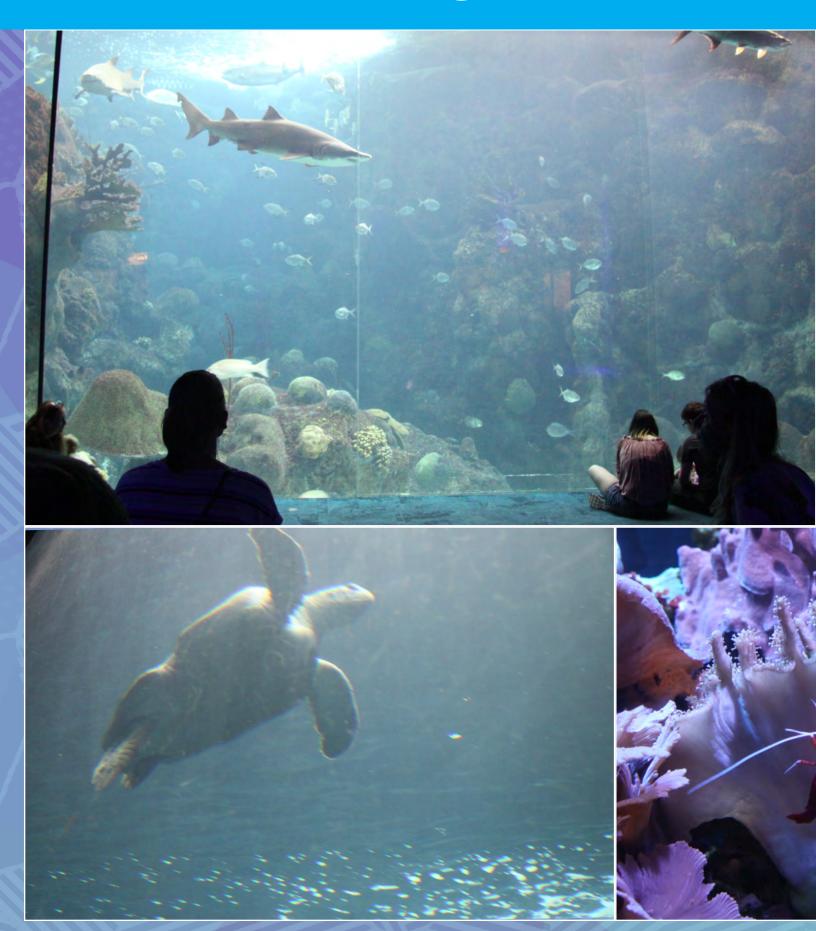
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GENERAL



General Business Session

July 28, 2023 9:00 a.m. - 12:00 p.m.

Saddlebrook Resort Wesley Chapel, FL









The Florida Surveyor

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SESSION



GENERAL

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EXHIBITOR







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FSMS Chapter Representatives presentatives Check for a Contribution







ting President Howard Ehmke with a n from their Chapters.











2023-24 FSMS Board of Directors and Officers















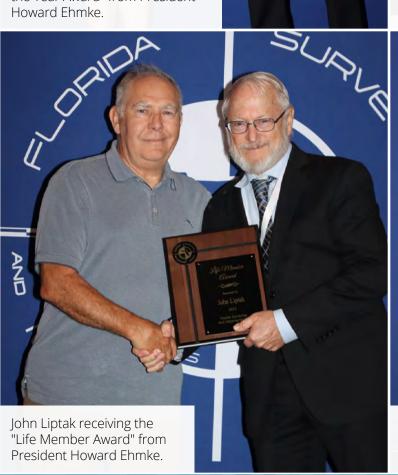




The Florida Surveyor





















William "Bill" Rowe receiving the "2023 President's

Award" from President Howard Ehmke.



























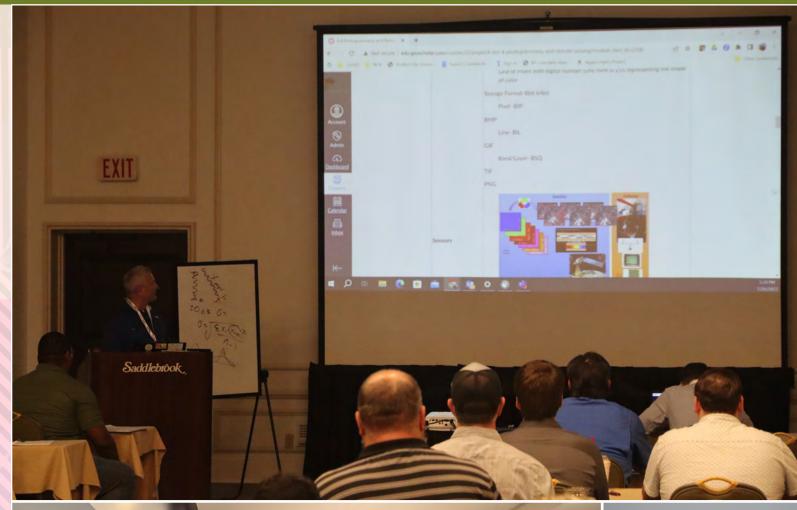
BANQUET

































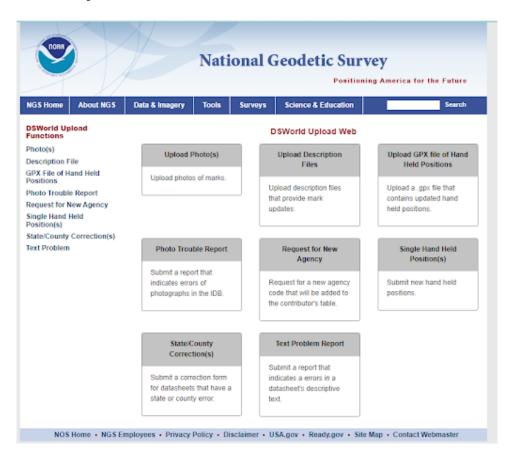


NGS News

DSWorld Online Tool Available

DSWorld software is a free application originally distributed by NGS in 2012 to display datasheet information in a "world view." The tool adds new functionality in that it allows users to report errors they have discovered in the database. The software was designed to provide geospatial professionals and the public with up-to-date geodetic control information at the click of a button. Since its inception, it has been enhanced to become a major interface with NGS and the NGS Integrated Database (IDB).

The new DSWorld Upload Web Form, currently on Beta, offers many of the same features of the application as an online form. It allows users to upload new photos, descriptive text, and updated hand-held GPS coordinates for survey marks with poor positions, as well as report errors and corrections found in the database with photos, estimated coordinates, or text. The website will also allow users to request a new agency code if they do not currently have one.





Issue 33 July 2023

NSRS Modernization News

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

Introducing the NSRS Modernization Alpha Site

To provide early access to upcoming, yet incomplete, products of the modernized NSRS, NGS has created the Alpha NSRS Modernization website. That site provides examples of the content, format, and structure of select data and products that NGS plans to release as a part of the Modernized NSRS. Products found on this page are for testing purposes only and do not contain any authoritative NGS data or tools. They are under active development and are subject to change without notice. But early access to alpha products should enable a smoother rollout of the Modernized NSRS. As products are released to this site, NGS will refer to them as being "released to Alpha."

SPCS2022 Released to Alpha

An alpha version of the State Plane Coordinate System of 2022 (SPCS2022) and its implementation in the NGS Coordinate Conversion and Transformation Tool (NCAT) has been released to the Alpha site. This includes:

- Alpha SPCS2022 website
- Alpha NCAT with SPCS2022 conversions enabled
- Online interactive maps of SPCS2022 zones
- Tables of zone definitions and example coordinates
- Maps of linear distortion with performance statistics
- Updated SPCS2022 Policy and Procedures

Alpha SPCS2022 content will be updated and augmented as it evolves toward completion.

Progress in Ongoing Projects

There are currently **32 ongoing projects** related to NSRS modernization around NGS. Here are some highlights.

GRAV-D (Project Manager: Jeffery Johnson)

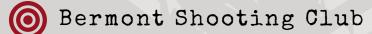
In June of 2023, NGS's Gravity for the Redefinition of the American Vertical Datum (GRAV-D) project completed the airborne data collection effort in the American Samoan and Hawaiian regions. NGS teamed up with NASA Langley Research Center's Research Services Directorate to use their Gulfstream IV jet (Tail # N522NA) for this project. These remote Pacific islands were the largest hurdles for the GRAV-D project to finish before December 2023 so that the geoid team can have a complete airborne gravity data set as they build the North American-Pacific Geopotential Model of 2022 next year.



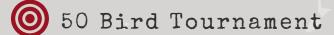
Schedule: 97.5%

COLLIER-LEE CHAPTER FLORIDA SURVEYING & MAPPING SOCIETY

3RD ANNUAL CLAY TOURNAMENT SATURDAY - NOVEMBER 11, 2023



40571 Bermont Rd Punta Gorda, FL 33982



8:00 AM Registration 9:00 AM Start

Must arrive by 8:30 AM for a mandatory safety lesson

Lunch and awards ceremony after the tournament

O Challenges /Raffles / Prizes

- Prizes for 1ST, 2ND, and 3RD place teams
- Prizes for 1ST, 2ND, and 3RD place individual
- Green Bird Challenge for shotgun entry
- 50/50 Raffle

ABOUT US

.....

The Florida Surveying & Mapping Society has served the State of Florida for over 60 years dedicating its efforts to making a difference within the community each local chapter resides in.

OUR MISSION

Our mission is to expand our community outreach to help provide school supplies for children in need and continue providing Christmas gifts and holiday dinners to families within Lee and Collier County.







PRICING

SPONSORSHIPS

ONE PLAYER

\$130

FOURSOME

\$520

Pricing includes golf cart for a foursome, ammo, entry fees, breakfast, and lunch.

Shotgun rental is available for \$20 (limited supply)

It is recommended 1 shotgun is shared by 2 people

There are only 28 golf carts available, act quickly!!

SPECIALTY STATIONS

PLEASE BRING CASH FOR ALL SPECTIALTY STATIONS

50/50 RAFFLE

1 TICKET FOR \$2 OR

3 TICKETS FOR \$5

GREEN BIRD CHALLENGE

1 TICKET FOR \$20

RULES FOR THE GREEN BIRD:

Players will get 1 shot at the Green Bird. If you hit it we will double your tickets into the raffle. If you miss it, the amount of tickets you purchased will go into the raffle.

FOOD SPONSOR

\$2,500

1 - Full Price Slot, or

2 - \$1,000 Slots & 1 - \$500 Slot

Includes table display signs on each table and on the food table.

GREEN BIRD SPONSOR \$1,200

PRICE IS SUBJECT TO CHANGE
1 - Slot Available

Tickets to display the company logo and table display to be displayed with rifle.

CART SPONSOR

\$800

1 - Slot Available

Includes 1 - 8.5"x20" color low tac sign to be displayed on the front of (28) golf carts.

DRINK SPONSOR

\$750

1 - Slot Available

Includes koozie with company logo per participant, and drink tickets to display the company logo.

STATION SPONSOR

\$250

14 - Slots Available

Includes 1 - 18"x24" color sign at a station.

VOLUNTEERS ARE NEEDED!

PLEASE LET US KNOW IF YOU OR ANYONE YOU KNOW WOULD LIKE TO VOLUNTEER FOR THIS EVENT.

FOOD AND DRINKS WILL BE PROVIDED TO ALL VOLUNTEERS

REGISTRATION FORM

TEAMS				
The deadline for participant registration is October 30th				
ONE PLAYER	\$130			
FOURSOME	\$520			

SPONSORSHIPS The deadline for sponsor registration is October 13th \$2,500 FOOD SPONSOR \$1,000 2 - \$1,000 Slots 1 - \$500 Slot \$500 **GREEN BIRD SPONSOR** \$1,200 CART SPONSOR \$800 DRINK SPONSOR \$750 STATION SPONSOR \$250

TOTAL AMOUNT ENCLOSED

PAYMENTS ARE ACCEPTED VIA CHECK OR CREDIT CARD THROUGH SQUARE

Please make checks payable to:

Florida Surveying &
Mapping Society
Collier-Lee Chapter
FSMS

Please mail checks to:

Jennifer Sheppard 10511 Six Mile Cypress Parkway Fort Myers, Florida 33966

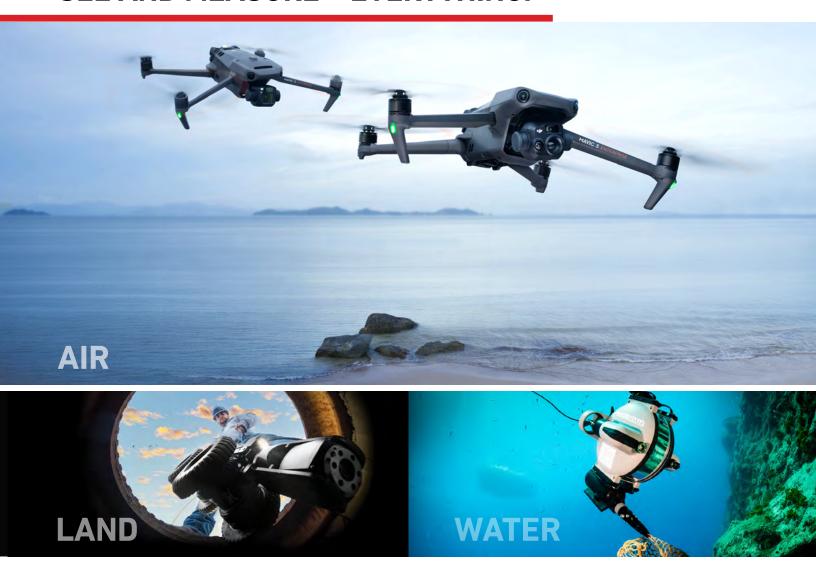
PARTICIPANT INFO

	NAME	MALE	FEMALE	UNDER 16
SHOOTER #1				
SHOOTER #2				
SHOOTER #3				
SHOOTER #4		***********		

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INCLUDED WAIVER MUST BE COMPLETED AND EMAILED TO JSHEPPARD@BANKSENG.COM WITH YOUR REGISTRATION FORM

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Executive Director
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director@fsms.org



Education Director
Samantha Hobbs
education@fsms.org



Communications
Coordinator
Justin Ortiz
communications@fsms.org



Regional Coordinator
Cathy Campanile
seminolecc84@gmail.com

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1960

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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.

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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

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John R. Gargis
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H. Bruce Durden
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Stephen G. Vrabel
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Dennis E. Blankenship
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2020

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Requirements: Contracts for one year (11 issues) receive 10% discount if paid in advance; 15% for Sustaining Firms. (Ads should be in jpeg, pdf, or png format)

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