



# THE FLORIDA SURVEYOR

June 2020

Volume XXVIII, Issue 6

## IN THIS ISSUE:

FSMS Pioneers: Bill Keith

The 200th...and Final: Did You Ever Wonder Why?

Shout Out: Mike Whitling

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Cover Photo (Little Blue Heron at Wakulla Springs State Park) by: Doug Beach

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# 2020 FSMS

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### **Immediate Past President**

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# PRESIDENT'S message

This month, I would like to begin by thanking one of our perennial conference sponsors for their exemplary generosity. Our friends at Trimble, Inc. demonstrated their ongoing commitment to the future of the profession by making a substantial contribution to our scholarship fund, despite the absence of this year's conference. The ongoing success of our profession is dependent on the efforts of all of us, and we are grateful to have the partnership of Trimble, Inc.

I would also like to thank our friend Knud Hermansen for his presentation of a well-attended live online seminar last month. We were looking forward to seeing him in person at this year's conference, and we really appreciate his gracious willingness to adapt to evolving circumstances. We have heard from some of our other scheduled conference speakers who are also willing to present online and we will be announcing more details about those seminars soon.

Speaking of continuing education, our Immediate Past President Dianne Collins has been playing strongly against the stereotype of the Past Presidency being a year of resting on one's well deserved laurels. She has been working hard to coordinate the revision of some of our most popular correspondence courses and we hope to start rolling some of the newly revised courses in a month or so. Thanks, Dianne!

Although the public health situation has precluded our in-person chapter meetings, I had the pleasure of attending online meetings for several chapters during May. I would certainly prefer to be in the room with everyone for these meetings, but the remote meetings do allow the chance to attend meetings that physical distance would otherwise preclude. If your chapter is going to do an online meeting this month, please let me know and I will do my best to attend! If your chapter needs assistance in setting up an online meeting, contact the FSMS office and they will be happy to help.

The arrival of June also ushers in the annual return of a challenge we are all too experienced with. The Atlantic hurricane season has been preceded this year with two named storms and all indications are that this will be an active storm season. Please take advantage of the relative calm we have now to prepare for the predictable possibility of tropical impacts before the panic buying begins. With the added challenge of ongoing pandemic, some jurisdictions have been suggesting that it is advisable to be able to sustain your household without assistance for one week rather than the typical 3 days. In the words of the Scout motto, Be Prepared!

Until next month, stay safe!



**President**

Don Elder

(850) 354-9665

[donelderpsm@gmail.com](mailto:donelderpsm@gmail.com)



May 20, 2020

The Honorable Jim Inhofe, Chairman  
U.S. Senate Committee on Armed Services  
228 Russell Office Building  
Washington, DC 20510

The Honorable Jack Reed, Ranking Member  
U.S. Senate Committee on Armed Services  
228 Russell Office Building  
Washington, DC 20510

The Honorable Adam Smith, Chairman  
U.S. House Committee on Armed Services  
2216 Rayburn House Office Building  
Washington, DC 20515

The Honorable Mac Thornberry, Ranking Member  
U.S. House Committee on Armed Services  
2216 Rayburn House Office Building  
Washington, DC 20515

Dear Chairmen Inhofe and Smith, and Ranking Members Reed and Thornberry,

The Coalition of Geospatial Organizations ([COGO](#)) is a coalition of 13 national professional societies, trade associations, and membership organizations in the geospatial field, representing more than 170,000 individual producers and users of geospatial data and technology. COGO only communicates on policy matters when there is complete unanimity among all organizations. We are writing to you to express our collective concerns about the Ligado Networks' proposal and the interference it would cause to GPS and GNSS data acquisition, processing and use. Unbiased testing has repeatedly confirmed that implementation of their proposal would surely undermine many of the uses of that data which have come to be anticipated, even essential, among the public and within the geospatial profession that provides services to it.

COGO member organizations take very seriously the role of their respective members in protecting the public's interests from harm, and have strongly [urged](#) the FCC to reject the Ligado Networks' proposal which will undoubtedly cause such harm. Despite the recent FCC approval of the Ligado Networks' application, we want to thank each of you for your ongoing [opposition](#) to and [oversight](#) of the Ligado Networks' proposal. COGO stands ready to work with your committees to address our shared concerns in the 2021 National Defense Authorization Act (NDAA).

Sincerely,

Jon Warren, P.L.S., Chair  
Coalition of Geospatial Organizations

Cc: Federal Communications Commission (FCC) Chairman Ajit Pai  
Honorable Representative Frank Pallone, Chairman, House Energy and Commerce Committee  
Honorable Representative Greg Walden, Ranking Member, House Energy and Commerce Committee  
Honorable Representative Peter DeFazio, Chairman, House Committee on Transportation and Infrastructure  
Honorable Representative Sam Graves, Ranking Member, House Committee on Transportation and Infrastructure  
Honorable Senator Roger Wicker, Chairman, Senate Commerce, Science & Transportation Committee  
Honorable Senator Maria Cantwell, Ranking Member, Senate Commerce, Science & Transportation Committee



# FSMS SHOUT OUT

*THANKS  
TO  
MIKE  
WHITLING  
FOR  
YOUR  
200  
ARTICLES!!*



*“Did you ever wonder why?” has been a staple in The Florida Surveyor for 20 years! We are thankful to Mike for the knowledge he has shared with us, and will miss his humorous contributions!*



Photo by: Brandon Mowinkel

In preparation of my upcoming vacation I wanted to research about my destination and learn more about it as part of this month's article. My destination this year is Grand Teton's National Park, Yellowstone National Park and hopefully Glacier National Park. In reading up about it I uncovered the Hayden Geological Survey of 1871.

#### Hayden in 1870

Ferdinand V Hayden was considered one of the great surveyors in the American West. He and his survey party surveyed the Grand Tetons and Yellowstone and the surrounding areas. The task was undertaken for railroad exploration but also to follow up on amazing stories from other explorers. After his survey was completed and documented he lobbied for the creation of Yellowstone National Park, designated by President Ulysses S Grant in 1872. (XYHT, March 2019)



# SURVEYORS IN government

By: Richard Allen,  
PSM, CFM

In researching the Yellowstone region you can see where the naming from the members of the 38 member survey team. Hayden Valley, Mt Seveneson and Frank Island. The crew surveyed a great deal of the region and even provided soundings for Yellowstone Lake. Following in the steps of the surveyors before us can be found in more than just the jobs we do, for me it is also how I live my life and find things in our profession that brings me joy. I am really excited to see what they must have traveled through to find this amazing place and hopefully retrace some of their steps..

## References

<https://www.xyht.com/cartography-2/haydens-survey-in-3d/>

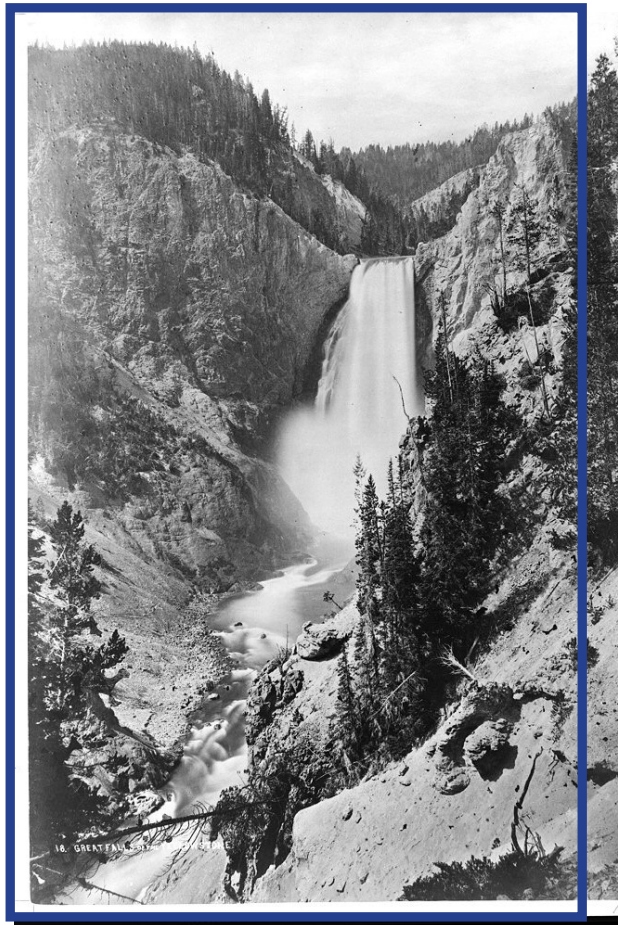
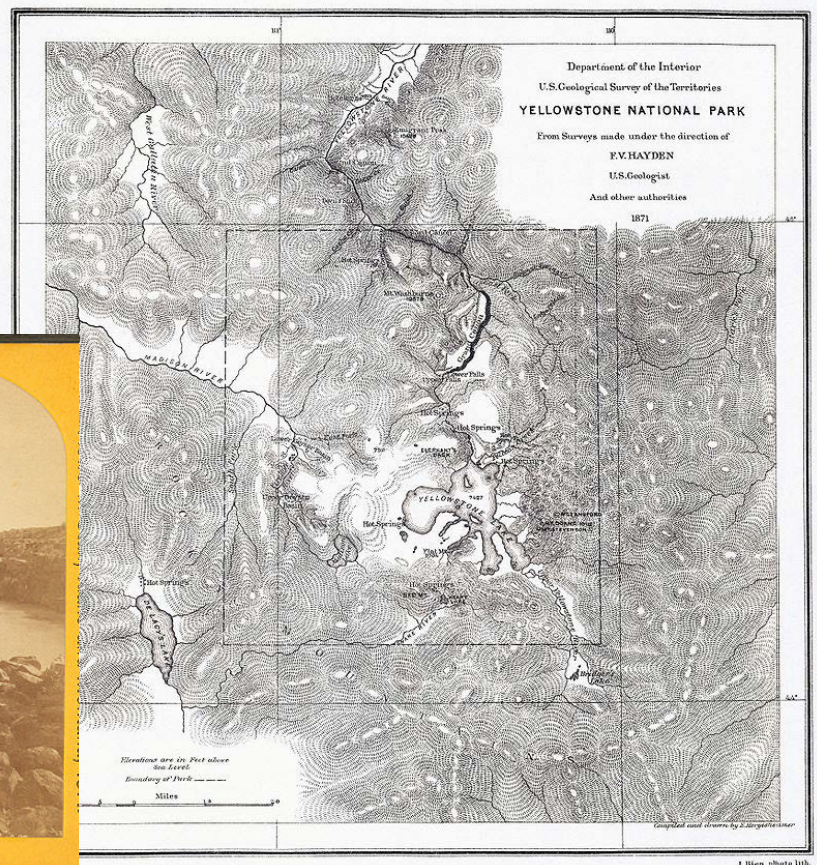


Photo of Lower Falls Jackson, 1871

Until next time my friends.

Sincerely,  
Richard Allen

You can reach me at [Richard.Allen@orlando.gov](mailto:Richard.Allen@orlando.gov) or 407.246.2788.



Yellowstone National Park



Snake River near Taylor's Bridge



# FROM THE

# ARCHIVES



# PRESIDENT'S MESSAGE

WILLIAM V. KEITH, President

Seemingly, in the far distant past . . . being exactly fifteen years ago, a courageous group of land surveyors, small in number, embarked upon a most ambitious program. The program envisioned was the formulation of an organization which would enable the professional land surveyor to better serve both his client and the public within the realm of his practice. The communal result of these forward thinking men was officially Chartered with the Secretary of the State of Florida as the Florida Society of Professional Land Surveyors. In keeping with the vision of our parent members, your annually elected Board of Directors have continually expended monumental amounts of time to converge upon the highest summit which could be contributed to the professional status of land surveying.

Certainly, I am not the first, nor hopefully the last to congratulate our predecessors for the slow but certain progress of our Society. And it is with this thought of continual growth and preservation of our precepts that I dedicate this forthcoming year as a period for the solidification of the dominant works of our varying committees.

However, a paradox is presented, for we must remain fluid in our thinking if we are to truly converge upon the crystalization of our efforts.

We are faced with the realization that the envisioned ideas of the past are today, here and now, knocking on our front door for their inclusion within the practicing elements of our profession. With God's help and a few more cups of coffee, I trust that we will continue to reap the benefits of our far-out thoughts of today and accept them with the reality of their time. Decisions cannot be based on present events alone, but we must also carefully consider the potential of things yet to come.

The progress we have experienced, the crystalization we anticipate, the envisioned ideas that are here and now, and the challenge to keep abreast of these days of rapid change thrust out as the point of the spear of our future. However, as the point needs the shank of the staff for its true support, so does your Board of Directors need the support of you, the rank and file, the bread and butter member of our society. I salute you for your participation and acceptance of this need for support.

## 1970 ANNUAL CONVENTION OUTSTANDING SUCCESS

With almost 300 people attending the recent Annual FSPLS Convention in Fort Lauderdale, the 14th Annual Meeting was a singular success. An excellent group of technical papers and exhibits was evident and activities for the ladies attending were better than ever. Along with the ever-increasing membership, the annual meeting has grown considerably in size, activities and cost. Through the efforts of the members of the Broward County Chapter which hosted the meeting, the convention offered more activities than in previous meetings and still remained in the black! Gene Stoner's efforts in obtaining donations accounted for much of the success as evidenced by the report made at the December Board Meeting in Orlando. At that meeting, Convention Chairman W. V. Keith reported expenditures of \$8,059.01 and income of \$9930.00 leaving a balance to go into the operating fund of \$1,870.00! A partial breakdown of the income indicates \$3475 received from sponsors, \$2480 from the exhibitors, and \$3975 from registration! A well deserved WELL DONE for the 70 Convention Committee!

Reprinted from  
*Backsights & Foresights*, Winter 1970

BACKSIGHTS & FORESIGHTS is the official publication of the Florida Society of Professional Land Surveyors. It is published four times a year and is mailed free to all members of the Society and to officers of similar organizations on a complimentary basis.

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Articles and columns appearing in the publication do not necessarily reflect the official viewpoints of the Society, but are published as a service to its members and the general public. No responsibility is assumed for errors, misquotes, deletions or inaccuracies of content.

# PRESIDENT'S MESSAGE

WILLIAM V. KEITH, President

We all realize the Land Surveying Profession has a far distant heritage; however, today a paradox is present. While heritage compels us to retrace the footsteps of our forefathers, the prerequisites of today's complex society dictate that we explore and chart the coasts of unknown horizons. Hence, the Profession is old and new in the same moment of time.

Realistically, the Profession is rapidly converging upon the air stream which lifts the feathered edge of progress. Therefore, the province of our chosen profession for future generations lies gently cradled in the hands of each practicing land surveyor.

The youth of the world demonstrate that change is inevitable and while youth sees clearly, they many times do not see far. Hence, we revolve always to a higher order of wisdom which is based on experience. It is again the harmonious blending of the old and new which manifests the true course of progress.

During the past year it was my fervent desire to stimulate the leadership within our Society to facilitate the collective expending of our energies in fostering the ideals of FSPLS. The results of our efforts should offset the Profession as the catalyst to propel this harmonious convergence upward.

One result of these collective efforts was the revision of the Florida Statute - Maps and Plats. We should all be proud of this demonstrative "step forward". We can now move on with the assurance that while next years legislative program may be more difficult, it will also at the same time be easier because of our past efforts.

We are still meandering in an indefinite direction in the field of Ethics. Fortunately, our membership has very definite ideas in this field which again are paradoxically extremely varying from area to area. However, as in our past "out of confusion comes order" and "those who never climb, rarely fall."

The growth of FSPLS has more than tripled since I first became an Officer. It is rewarding to realize that this year our Society received more Membership Applicants than our State Board licensed. Within this exciting growth often times we are confronted with the lack of nutrients for proper communication. However, the main stream is not that far behind and we shall not allow this growth to wither on the vine.

A significant work in progress is the shirt sleeves to elbow efforts of many members endeavoring to present at the Annual Meeting this year a preliminary draft of the Standards of Practice Manual. This certainly signifies a healthy Member-Board relationship; one that should be nurtured, for the true strength of any organization comes from the "rank and file".

While regressing over our accomplishments of this passing year my most pleasurable duties as your President naturally flash into mind. The opportunity to participate in various surveying meetings and social affairs across the country has offered to me not only the occasions wherein I was always able to learn something of value from my fellow surveyor, but also the opportunity to observe a new rapport which the land surveyor has now established with the allied professions. This within itself is an accomplishment which uniquely contributes to the posterity of our profession.

Progress is ever demanding and to look steadfastly to the past would be a detriment. We can not waste those small fragments of valuable time. Tomorrow very soon becomes yesterday, which is but another bygone in which we may or may not have contributed . . . I trust your professional contribution today will aid your fellow man tomorrow.

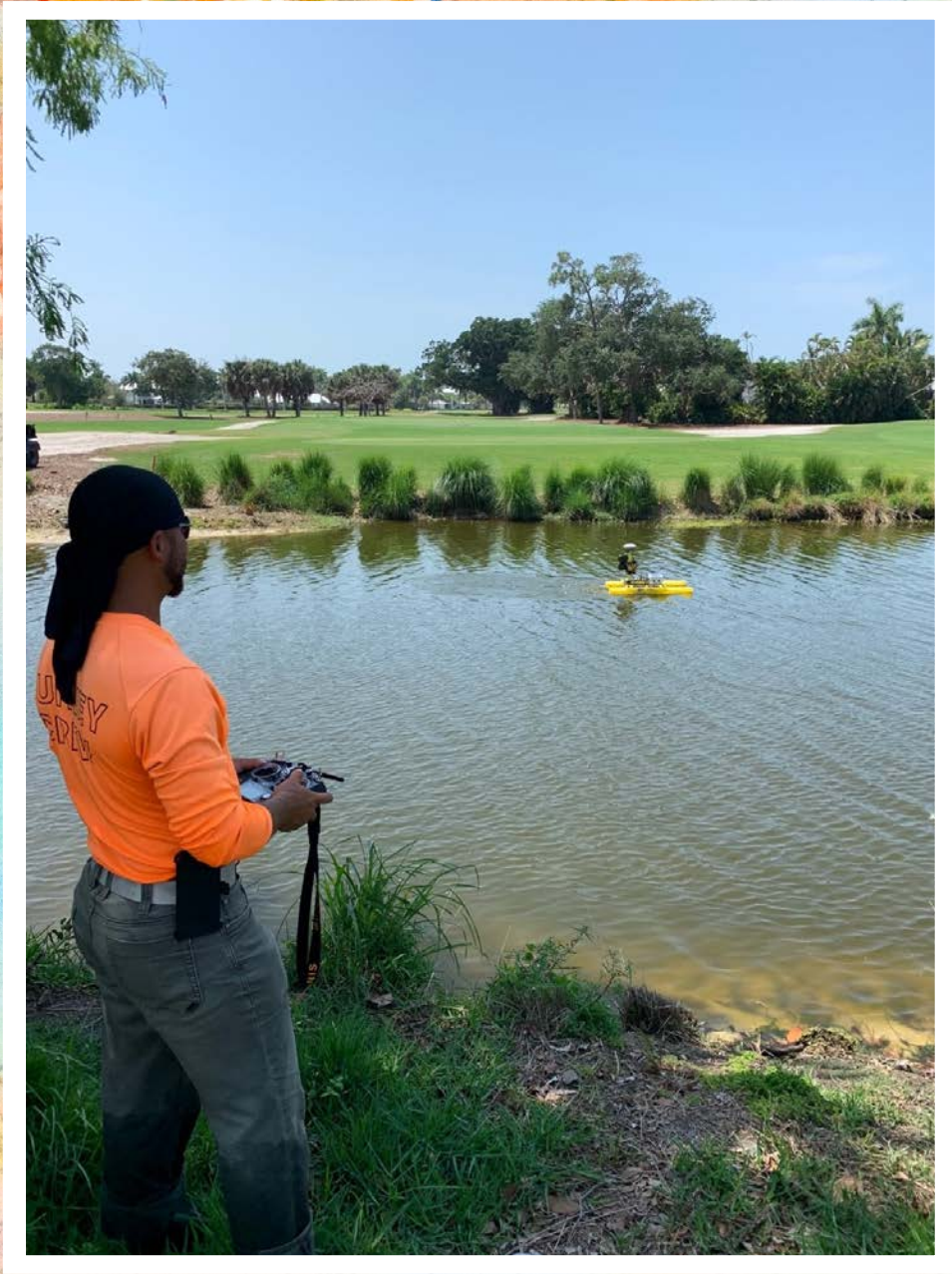
Reprinted from  
*Backsights & Foresights*, Fall 1971

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# Around the State







Here, Dagostino Geospatial, Inc. survey crew members Brandon (in the black durag) and Stephen (in the camo hat) use a Seafloor Systems HyDrone-RCV Remote Control Hydrographic Survey Boat with a SonarMite Echo Sounder to do a bathymetric survey of a golf course lake in Naples, FL.

The HyDrone® allows Dagostino Geospatial to quickly collect very dense data on a 10'-20' grid to accurately measure the quantities and volumes of existing lakes for their client's golf course redesign project. According to Dagostino Geospatial: Accurate data + quickly collected data = happy client. For more information, visit [DagGeo.com](http://DagGeo.com).

# NSPS FOUNDATION ANNOUNCES THE 2020 SCHOLARSHIP WINNERS

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Texas A & M University

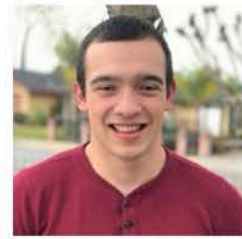


## WALTER ROBILLARD SCHOLARSHIP

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## AAGS DRACUP SCHOLARSHIP

Alberto Loera  
California State University -  
Fresno



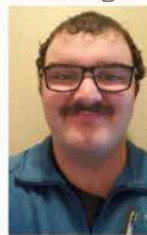
## WVSPS SCHOLARSHIP

Kaden Statler  
Fairmont State University



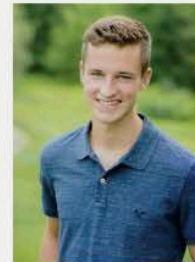
## BERNTSEN SCHOLARSHIP

Zachary Halbach  
Northeast WI Technical  
College



## NETTIE DRACUP SCHOLARSHIP

Ayden Yoder  
Penn State University



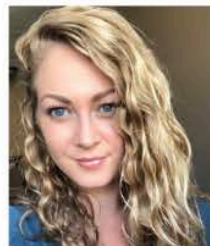
## SCHONSTEDT SCHOLARSHIP

Jessalyn McDermott  
University of Maine



## BERNTSEN INTERNATIONAL SCHOLARSHIP

Sarah Walker  
Great Basin College



NSPS FOUNDATION  
ANNOUNCES THE 2020

# SCHOLARSHIP WINNERS

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James Bronico  
NJ Institute of Technology



**NETTIE DRACUP  
SCHOLARSHIP AND GLIS  
SCHOLARSHIP**

Ashish Pandey  
Nicholls State



**NSPS SCHOLARSHIP**

Taylor Rife  
Oregon Institute  
of Technology



**SLOVAJ SCHOLARSHIP**

Jennifer Tuomala  
University of Maine



**NSPS BOARD OF  
DIRECTORS SCHOLARSHIP**

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Ferris State University



**LOVING SCHOLARSHIP**

Trenton Holyfield  
Ferris State University



**CONGRATULATIONS  
TO ALL OF THE  
SCHOLARSHIP  
WINNERS**

2021 Scholarship  
information will be posted  
on the NSPS website in the  
Fall 2020



**PLSSF 4-YEAR  
SCHOLARSHIP**

Kirk Reichling  
Idaho State University



# THE FLORIDA SURVEYOR



Bill Keith

November/December  
2006

There is a hidden beauty about human nature that gets revealed during a time of crisis. Our normal routines are interrupted, and we are shaken out of our daydreams to see the critical needs of others around us. Showing up for others to lift them in encouragement and ensure they are nourished is one of the most basic tenets of life.

After the initial sting of a crisis subsides, most of us go back to our routines. Yet there are those who persist during times of calm, understanding the lull does not mean that all is well and remaining keenly aware of the hardships others continue to endure.

Long before the coronavirus pandemic inspired current humanitarian efforts, and previous to social media campaigns being a vehicle to help philanthropic causes gain momentum, William “Bill” Keith was a beacon of hope for many people in his community, using what many of us underestimate as a valuable resource: time. He used his time to listen, to lead, and to serve others in every aspect of his life. Bill spent his life working towards the development and improvement of the south Florida community as a whole.

Born in Miami on December 18, 1936, to Frederick William Keith, a merchant Marine who worked in the shipyards, and Anne Gloria Keith, a cafeteria worker, Mr. Keith grew up knowing the value of honest, hard work.

The family moved to Fort Lauderdale when Bill was two years old. There he attended St. Anthony’s Catholic School for his elementary and middle school grades. He then attended Central Catholic High School, now known as St. Thomas Aquinas High School.

His first job was on a survey crew for Broward County Engineering. His interest in surveying was sparked further when Bill met Mr. McElfresh, an engineer, and Mr. B. Wiggins who was a local engineer and surveyor in Fort Lauderdale.

South Florida was largely undeveloped at that time, and Bill’s love of the outdoors and nature fit his career choice of Surveying and Mapping.

He married Elizabeth in 1957 they remained married until his death on October 4, 2006. Over the years, they were proud to welcome the births of four daughters, Jenny, Dodie, Celeste, and Heather. They also have ten grandchildren: Colleen, Matt, LeeAnn, Jamie, Nicholas, Alex, Toni, Elizabeth, Kristin, and Keith.

## Commitment to Surveying

Bill received his Professional Surveying License, LS# 1856 on February 2, 1963. He blossomed in his career at McElfresh Engineering, which later became known as McElfresh & Wiggins.

After Mr. McElfresh’s death in the ‘60s, a new firm was created, called Wiggins, Keith & Associates. Mr. Wiggins was the engineer and Mr. Keith was the surveyor at the firm. Over time, Mr. Keith decided he would like to work for himself and grow his own survey company. He left Mr. Wiggins and teamed up with Tom Schnars, PLS to open Keith & Schnars, PA in 1972. Mr. Schnars was also a surveyor, so they chose to be a 100% survey firm.

“He really enjoyed building his own company. It let him forge his own destiny. And he enjoyed choosing the projects that he wanted to engage in,” says his second daughter, Dodie Keith-Lazowick, PLS.

In the late ‘70s, Broward County was just starting to be developed. There was very little development west of Interstate 441, and Keith & Schnars landed the extraordinary opportunity to develop the Western Broward area. They did a lot of the Western Broward re-surveys in collaboration with longtime friend and fellow surveyor, Mr. Gene Stoner of Williams, Hatfield & Stoner.

The Western Broward re-surveys proved to be a major undertaking. It would require one of the first high level accuracy least square adjustment calculations for townships of lands of it kind.

James Stoner, who first met Mr. Keith in the early '70s when his father, Gene Stoner hosted several Florida Society of Professional Land Surveyors (FSPLS) meetings at their home, can attest to the challenges.

“During the late 1970(s) Williams, Hatfield & Stoner and Keith & Schnars teamed up to perform the Stoner/Keith Resurvey No. II of all of Township 50 South, Range 40 East. The goal of this project was to recover all of the Section Corners and Quarter Section Corners within the Township and establish State Plane Coordinates for each monument. This was before the widespread use of the GPS so all of the monuments would need to be tied together by an extensive traverse meeting NGS Second Order Class II Standards for accuracy. In order to achieve the desired results all of the primary traverse angles would be measured at night to avoid heat distortion.

I was assigned to this survey after the crew chief that started the project left for a new job. The daily field work was being run from Keith and Schnars office located in Fort Lauderdale about a mile from Williams, Hatfield & Stoners location. It was during this project that I had the opportunity to work with Bill in the field on a couple occasions,” said James Stoner.

“Before beginning night operations, a meeting was held with Bill presiding, to go over the various activities and to run down the various problems that may be encountered. Bill told us to check out equipment, batteries, flashlights and radios. He made sure that we all knew where we had to be and who would be with who. Night angulation was to be a carefully choreographed event maximized to get the most results.

During the meeting Bill said to expect stuff to happen and basically to adapt and overcome whatever it was so we wouldn't lose time. One of the last things that he emphasized was to not get the truck stuck. Getting the truck stuck would be a bad thing.

Night work began in earnest and did have the normal issues that are encountered when first starting out with new procedures. After a couple of nights things were moving along quite nicely. At that time Broward County still had some rural areas and one of these is where the Sawgrass Mills Mall is now located. The area was a large cow pasture with a shallow water filled marshy area located in the middle of it. Nearby was a traverse point that could only be accessed by entering a gate and driving carefully around the marshy area to avoid getting stuck.

About 10 p.m. I got a call on the radio and it was Bill Keith. He was coming into the pasture to check on us and wanted to know the route to us. I explained that he needed to come through the gate and bear to the left around the marsh area. Some time passed and no Bill. I did not really give it much thought and we broke down our setup and headed for the next setup. As we came around the edge of the marsh there was Bill dressed in a suit and tie, standing in the muddy water up to his ankles with his truck stuck. Apparently, he had decided on a spur of the moment visit and was not expecting to get stuck. After an hour or two we were able to get the truck out after some good-natured ribbing about the importance of not getting stuck he headed home. To his dying day he swore that I had tricked him into going the wrong way and caused him to get stuck,” says Mr. Stoner.

---

Another friend who benefited from Mr. Keith's gracious mentorship was John "Jack" Breed, P.L.S. of CivilSurv Design Group.

"I was in the UF Land Surveying Program from 1978 to 1982 with Bill's daughter, Dodie Keith. In 1984, Bill recruited me to re-open his firm's Lakeland Office. Ultimately, I became a partner in his firm, and I am forever indebted to him for giving me the opportunity and mentoring me every step of the way. Now, thirty-six years later, I'm sitting at the same desk, in the same office, as the successor firm to Keith and Schnars, P.A."

"Bill was a highly respected Surveyor. If it was his survey, rest assured, it was the Gold Standard. When the Everglades / Sugar Industry lawsuits were in high gear in the early 90's, we were contracted to field-measure a coast-to-coast cross section. This was a tough, nasty job, eating up men, equipment and airboats. Bill insisted on working a crew day on the airboat with me, in the August heat. We picked him up smoking a cigar on a dike off the Sawgrass Expressway. Late in the day, a violent thunderstorm caught us, and Bill directed us to flee to a friend's hunt camp, where we rode out the storm, absolutely soaked," says Mr. Breed.

Though his surveying skills were based on by-gone methods, he proved to be quickly adaptable to the evolving field. He and his partner Tom Schnars were very excited about a new machine.

"When they did the big Western Broward Re-Surveys, it's the first big survey that was done, maybe in the whole state of Florida where they used a Least Squares Adjustment. We had to buy a fancy computer that they would run and crank out the adjustments. It was a lot of night work with night measurements. They would come in and plug it into this big machine. It was a noisy thing. And it would clunk and clunk and clunk. They were very excited about this computer and to be one of the first Firms to have it," says Dodie.



L. Levine

## Commitment to Growth

When Mr. Keith was licensed as a surveyor in 1963, there were no electronics to aid him in the field. That generation of surveyors had to be scrappy and sharp, typically doing complex calculations in their heads or on bits of paper.

"They used regular old steel field chains and transits, a regular level, logbooks, and slide rule," says Dodie.

They liked to use the old vs. new methods and compare the results. There was a profusion of new technology, but they learned to adjust quickly to modern methods. "There was a lot of discussion in our offices about the accuracies and what the difference was. There was a lot of talk about being the first ones to do this or that," says Dodie. "I think we were the first ones in the state to get a T4 Theodolite which was one of the best first order precise micrometer theodolites made when they first came out by Wild Heerbrugg Instruments. So, they were very big on trying to stay ahead of technology."

Mr. Keith said it best in his President's Message Fall 1971, "We all realize the Land Surveying Profession has a far distant heritage; however, today a paradox is present. While heritage compels us to retrace the footsteps of our forefathers, the prerequisites of today's complex society dictate that we explore and chart the coasts of unknown horizons. Hence, the Profession is old and new in the same moment of time.

Progress is ever demanding and to look steadfastly to the past would be a detriment. We cannot waste those small fragments of valuable time. Tomorrow very soon becomes yesterday, which is but another bygone in which we may or may nowt have contributed...I trust your professional contribution today will aid your fellow man tomorrow."

His firm helped plan Fort Lauderdale-Hollywood International Airport and bought the land and developed the route for the Sawgrass Expressway. The firm was responsible for planning Parkland and the redevelopment of Deerfield Beach, Pompano Beach and Boca Raton. It surveyed 390 miles from Florida to Georgia and bought 4,000 parcels of land for a Florida Power & Light transmission line.

\*"In 1981 the State issued rules under the authority given by law in Chapter 472 of Florida Statutes the rules were called "Minimum Technical Standards." In more recent times the standards are referred to as "Standards of Practice." (David A. Melvin, PLS, CFM)

Finally, in 1998, after Mr. Keith had already founded two engineering/surveying firms in the past, then enjoyed a brief retirement, he launched the firm that still exists today, KEITH.

According to the KEITHteam.com site, "His idea was simple, be a "boutique" firm offering civil engineering and surveying services with a personal approach, getting to know each client individually. The idea, and the firm, took off.

Bill made a large impact to many in Broward County – to acknowledge his philanthropic efforts, officials at the City of Fort Lauderdale and City of Pompano Beach have dedicated a park and a preserve in his name. His legacy is our challenge to find the essential balance between growth and preservation."

## Commitment to FSMS

Bill was a long-time member of FSMS, serving in numerous leadership roles. Most notably, he was the FSMS President from 1970-1971.

He recognized the importance of having high standards for the profession. Dodie says, "He was part of the group that helped write and implement the Minimum Technical Standards (MTS)\* for surveying in the state of Florida.

Mr. Stoner says, "Bill was the kind of individual that you took an immediate liking to, he was a natural leader with a dynamic personality. Over the years I was able to get to know Bill better and he always encouraged me and made me feel a part of the surveying community. I am sure he had the same effect on others as well. He was an active advocate for surveying and was instrumental to helping to write and lobby for many of the laws that govern land surveying as we know it today."



His group was also instrumental in passing the four-year degree requirement.

Bill was so involved with FSMS, that it became a family affair. His wife, Elizabeth (Betty) worked for free as the FSMS Executive Director in the '80s. The Society didn't have much money, so they got creative envisioning ideas on how to make money.

For one conference, Betty drew three large ink-sketches drawings in the likeness of Bill, like a caricature of a surveyor. They took them to the conference and auctioned them off to raise money for the Society.

While the dollar amount raised from these sketches is unknown, their reputation has taken on a life of their own. For a while, the sketches whereabouts were in question.

One day, Mr. Keith's oldest daughter, Jenny who was working at D.P. DeBarry Associates in Stuart, Florida noticed an ink sketch behind her boss' desk. Upon inspection, it turned out to be one of the ink-sketches of Bill.

Seeing how pleased she was to have located one of the sketches of her father, her boss decided to gift it back to the Keith family upon his retirement. This original sketch now hangs in Dodie's condo on loan from her sister as long as it hangs.

After obtaining one of the original sketches, Dodie went on a mission to find the other two by reaching out to the surveying community.

It turns out that Paul Brewer in Coral Springs has one of the sketches hanging behind his desk! Since Paul has owned it for over twenty years, it has become a staple of his office decor and he is understandably not ready to part with it. He and Dodie have a friendly agreement. "Paul has a note on the back of it, should something happen to him, somebody needs to contact Dodie Keith because she's buying this painting," Dodie says.

"I never found the third one. If you're a surveyor, it's just something unique that you're not going to throw out. But somebody's got it somewhere."

If anyone knows who might own the last sketch, we'd love to get a copy of it for the Keith family.



**The Last P.I. sketch by Betty Keith**





All photos of Bill Keith courtesy of the Keith family

# Commitment to Community

Despite having a busy professional and family life, Mr. Keith was resolute on using his time and monetary resources to give back to his community.

His daughter Dodie believes his work ethic and tireless service to others was a result of his upbringing. "He always considered himself very fortunate; he was raised a very poor man. Those were the surveyors of old. They just had a certain class about them. I think they took very little for granted and they always assumed they had to earn something."

Mr. Keith's steadfast commitment to non-profits and charities spanned his entire adult life. Not only did he contribute his time and money to Broward Urban River Trails Association (BURT), Ducks Unlimited, Port Everglades Seafarers House, and the Boys and Girls Club, among countless others, but he was also the founding chair of the Broward Partnership for the Homeless.

As evidenced by the many heartfelt condolences left after his passing, his love of community influenced many people.

"He probably gave away more money than he saved. He was everywhere helping out," said Former Mayor John Rayson of Pompano Beach, a longtime friend.

"Since I worked with him at the homeless center, I have always regarded him as a mentor and friend. So many times, his inspiration and good humor turned challenges into opportunities. The world is certainly better because Bill walked on it," said Ezra Krieg of Delray Beach.

"The world has lost a great advocate who worked for those who needed a voice," said Phil and Kathy Gonot of Deerfield Beach.

"He instilled in me the importance of putting community interest above self-interest, this was a value he lived by example. He cared so deeply and passionately about his community, I can only hope that the community will pay him the tributes that he so deserves," said Walter Fluegel of Fort Myers.

Tom McDonald, who owns the engineering firm of Craven Thompson, said Mr. Keith was a tough competitor, but one he admired. "Of all my competitors, he was the one I looked up to," McDonald said. "He was always involved with charities, always giving back to the community."

Bill has received numerous accolades during his life, including Downtowner of the Year in 1998, Leadership Broward's Leader of the Year in 1999 and Ft. Lauderdale Citizen of the Year in 2000.

When Mr. Keith was not working or volunteering his time, he enjoyed traveling, sometimes tackling trips that much younger men would shy away from. In 1998, he climbed Mount Kilimanjaro in Africa with Norman Ostrau, a lawyer and former state representative. They got to 17,000 feet and walked across the plains of Africa on a 3-week expedition. In 2000, the two men steered a dog sled at the Arctic Circle and got temporarily lost in a whiteout caused by huge snowstorm. He loved fishing, hunting and anything outdoors.

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**"Progress is ever demanding and to look steadfastly to the past would be a detriment. We cannot waste those small fragments of valuable time. Tomorrow very soon becomes yesterday, which is yet another bygone in which we may or may not have contributed...I trust your professional contribution today will aid your fellow man tomorrow."**

**BILL KEITH**

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# Commitment to Action

When William Keith traveled around Broward County, he went through a world he helped create, past a city carved out of the Everglades, on an expressway he fashioned, past power lines, shopping centers and condominiums he planned.

While we live in uncertain and troubling times, our civilization has routinely been challenged with overcoming overwhelming obstacles.

Today, Mr. Keith's daughter Dodie leads the firm holding fast to the ideals her father put forward. KEITH is now transitioning Dodie's son Alex Lazowick, PE, to serve as the third generation professional at KEITH. "Committed to the values his grandfather and mother have instilled in the firm, Alex will lead KEITH in consistent hands from growth to evolution advancing and anticipating the needs for the next generation of development," according to the KEITHteam.com site.

The enduring legacy of Mr. Keith is one of action. We have the option to look away from others' hardships because we are enduring our own, or we can look that pain head-on and choose to invest our humanity in others.

Mr. Keith recognized how essential we are to one another and chose to be a beacon of hope and humor in his personal and professional endeavors. "There are dozens of the very best Surveyors in Florida that call their Point of Beginning the late great Billy Keith," says Jack Breed.

Let's choose to enrich our profession and surveying community with our knowledge. Let's choose to show up for our communities. Let's learn a great lesson from Mr. Keith and continue his legacy of acting on that duty to do what's right, even when the lull arrives, and the needs of others are shrouded behind our hurried days.

"We are faced with the realization that the envisioned ideas of the past are today, here and now, knocking on our front door for their inclusion within the practicing elements of our profession. With God's help and a few more cups of coffee, I trust that we will continue to reap the benefits of our far-out thoughts of today and accept them with the reality of their time. Decisions cannot be based on present events alone, but we must also carefully consider the potential of things yet to come. The progress we have experienced, the crystallization we anticipate, the envisioned ideas that are here and now, and the challenge to keep abreast of the days of rapid change thrust out as the point of the spear of our future.

However, as the point needs the shank of the staff for its true support, so does your Board of Directors need the support of you, the rank and file, the bread and butter member of our society. I salute you for your participation and

acceptance of this need for support." Bill Keith, President's Message, Winter 1970.



**All photos of Bill Keith courtesy of the Keith family**

DID  
YOU  
EVER  
WONDER  
WHY  
??

By: Michael Whitling, PSM

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WHY  
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*This is my 200th column and my last. I think it is time. I started this over 20 years ago. Hard to believe. I hope I was able to impart some wisdom and smiles along the way. I encourage you to write something for your Florida Surveyor magazine. It needs you!*

### ***Why are nautical miles measured in knots?***

Back in the 17th century, sailors measured the speed of their ship by using a contraption called a “chip log,” a coil of rope with equally spaced knots attached to a pie shaped piece of wood. As the vessel moved forward, the line of rope was allowed to roll out freely for a specific amount of time, which was typically tabulated with an hourglass. Afterward, the number of knots that had gone over the ship’s stern was counted and used in calculating the vessel’s speed. A knot came to mean one nautical mile per hour. Note: For a number of years, there was disagreement among various nations about the exact measurement of a nautical mile, which is based on the Earth’s circumference. In 1929, the international nautical mile was standardized at 6,076 feet; it was adopted by the United States in 1954. A nautical mile is different from a mile on land, which is based on walking distance. The Romans first defined a land mile as 1,000 paces or pairs of steps; it was set at its current measurement of 5,280 feet by Queen Elizabeth I in 1593.

### ***Why are there no “B” batteries?***

There actually are B batteries, but they aren’t something you’ll see stocked at most stores any longer. Since the invention of the battery, there have been a pretty amazingly diverse number of battery types used with different sizes/shapes/voltages/storage capacities/etc., and also named a variety of things. This gave rise to the need for an industry wide standard, particularly as the lack of an international or even national standard during WWI was problematic for the military.



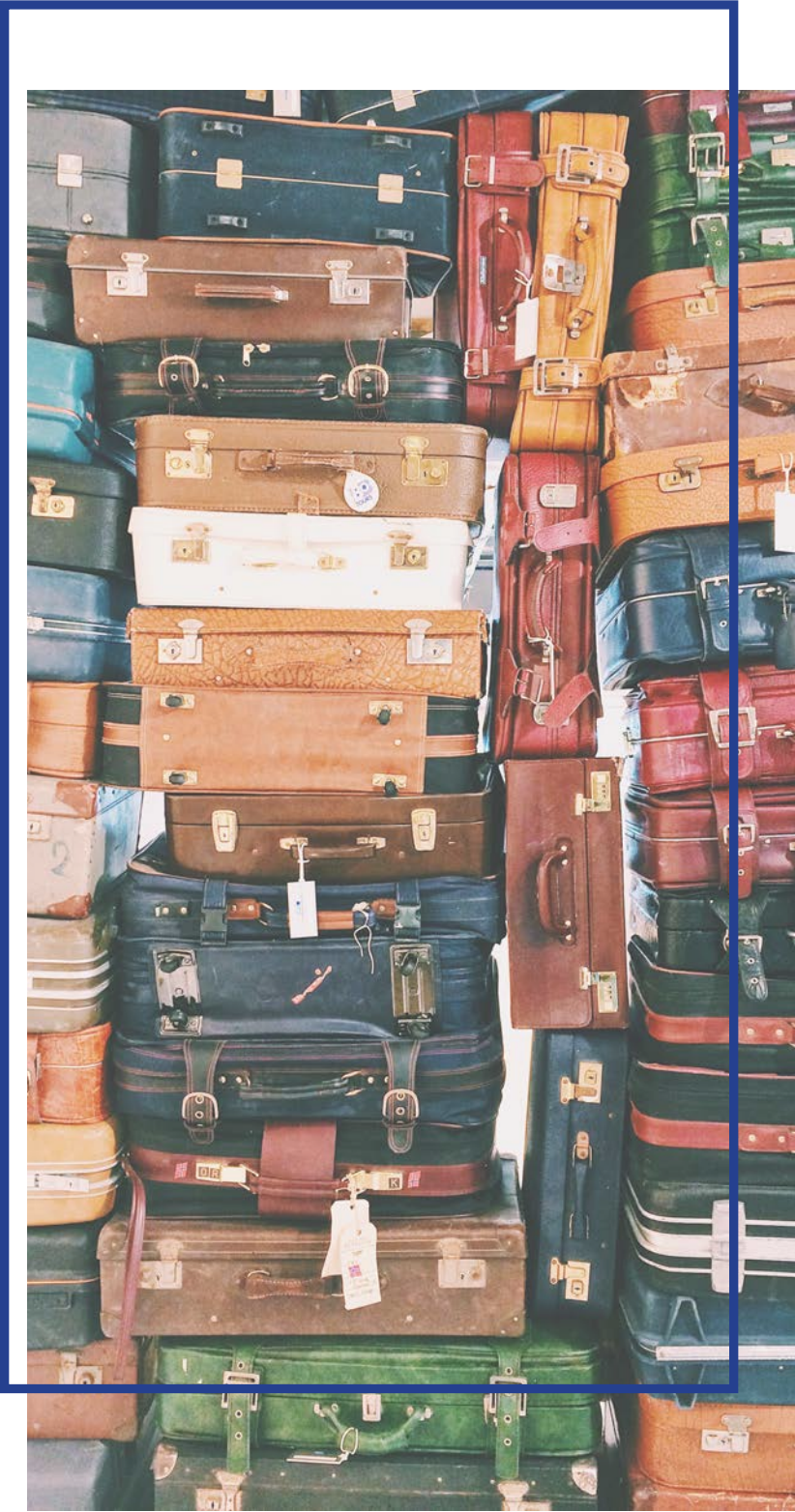


Photo by: Caroline Selfors

Lemons float in water and limes sink.

Owl's legs are by and large longer than their bodies.

Hugh Hefner is buried next to Marilyn Monroe.

Though one of the few absolute requirements of anyone running for president of the United States is that he or she be a natural born citizen, none of our first seven presidents would have qualified by this rule. It wasn't until Martin Van Buren, born into the newly created country of the United States in 1782 and elected president in 1837, that we had a natural-born president. Interestingly enough, he was also the first president for whom English was not his first language.

The State of Wyoming has only two escalators. They are both located in banks in the city of Casper. After an exhaustive investigation, The Atlantic found none in Jackson Hole, Sheridan, or even the capital city of Cheyenne.

We went to the moon before we thought to put wheels on luggage. The first piece of wheeled luggage was sold at Macy's in 1970.

No Ivy League school offers athletic scholarships, which is the key reason why those universities' sports teams typically cannot compete with those from colleges that do.

Legendary Johnny Ringo didn't die with his boots on - his killer made him take them off before shooting him.

Thus, it would take in the ballpark of 486,000 hamsters running on wheels connected to generators to produce enough electricity for an average American home for a year.

The notorious Black Bart (Charles E. Bolton) robbed 27 Wells Fargo stagecoaches in his day; on his release from San Quentin prison, he disappeared and was never heard from again.



Pirates are often depicted with an eye patch and you probably assumed it was because they'd lost an eye and vanity led them to cover it up with the patch. Not so, it turns out. Since pirates were having to move frequently from the bright conditions above deck to the extreme dark below, many "wore a patch over one eye to keep it dark-adapted outside."

Of the First Five Presidents, three died on July 4th. John Adams and Thomas Jefferson both died on July 4, 1826, the 50th anniversary of the birth of the United States. The country's fifth president, James Monroe, died five years later on July 4, 1831.

"Buttload" is an actual measurement of wine. Some wineries and distilleries still use the antiquated term "butts" to refer to a full cask. It derives from the Medieval French word for boot, and is equivalent to 108 Imperial gallons.

Send your thoughts to [drmjw@aol.com](mailto:drmjw@aol.com)

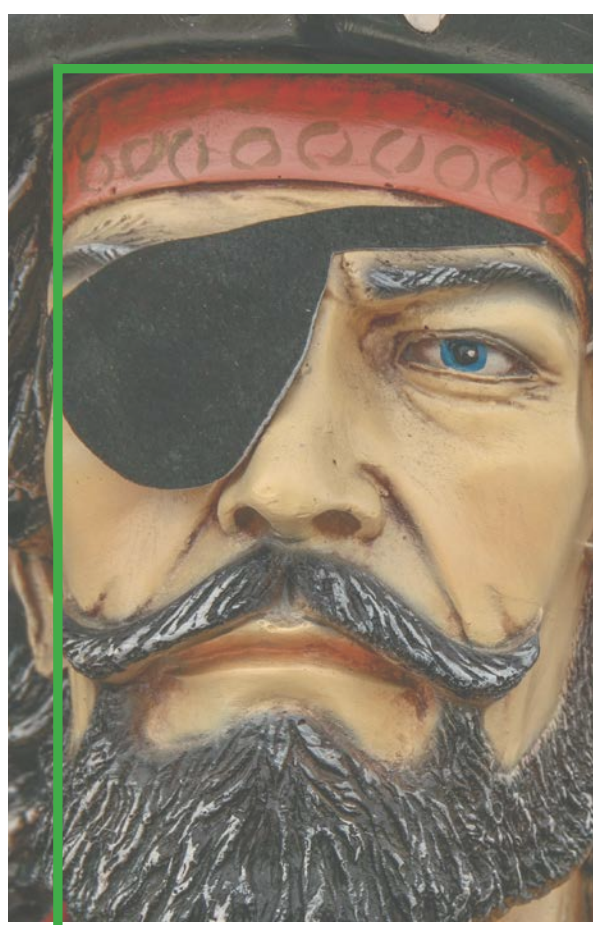


Photo by: Scott Umstadd



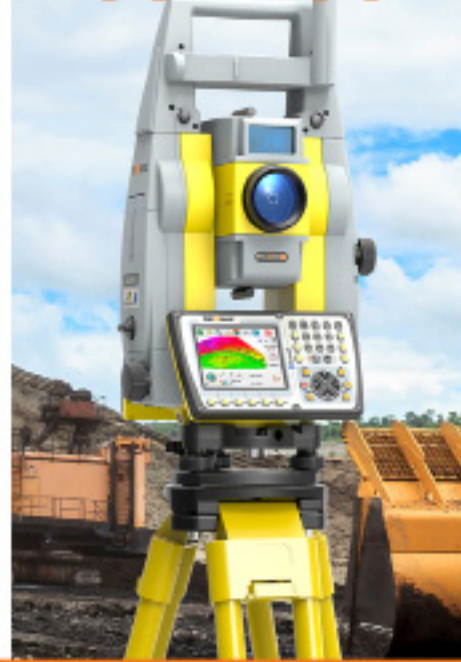
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<b>Academic Advisory UF</b>	Bon Dewitt
<b>FES</b>	Lou Campanile, Jr.

## Practice Sections

<b>Geospatial Users Group</b>	Matt LaLuzerne
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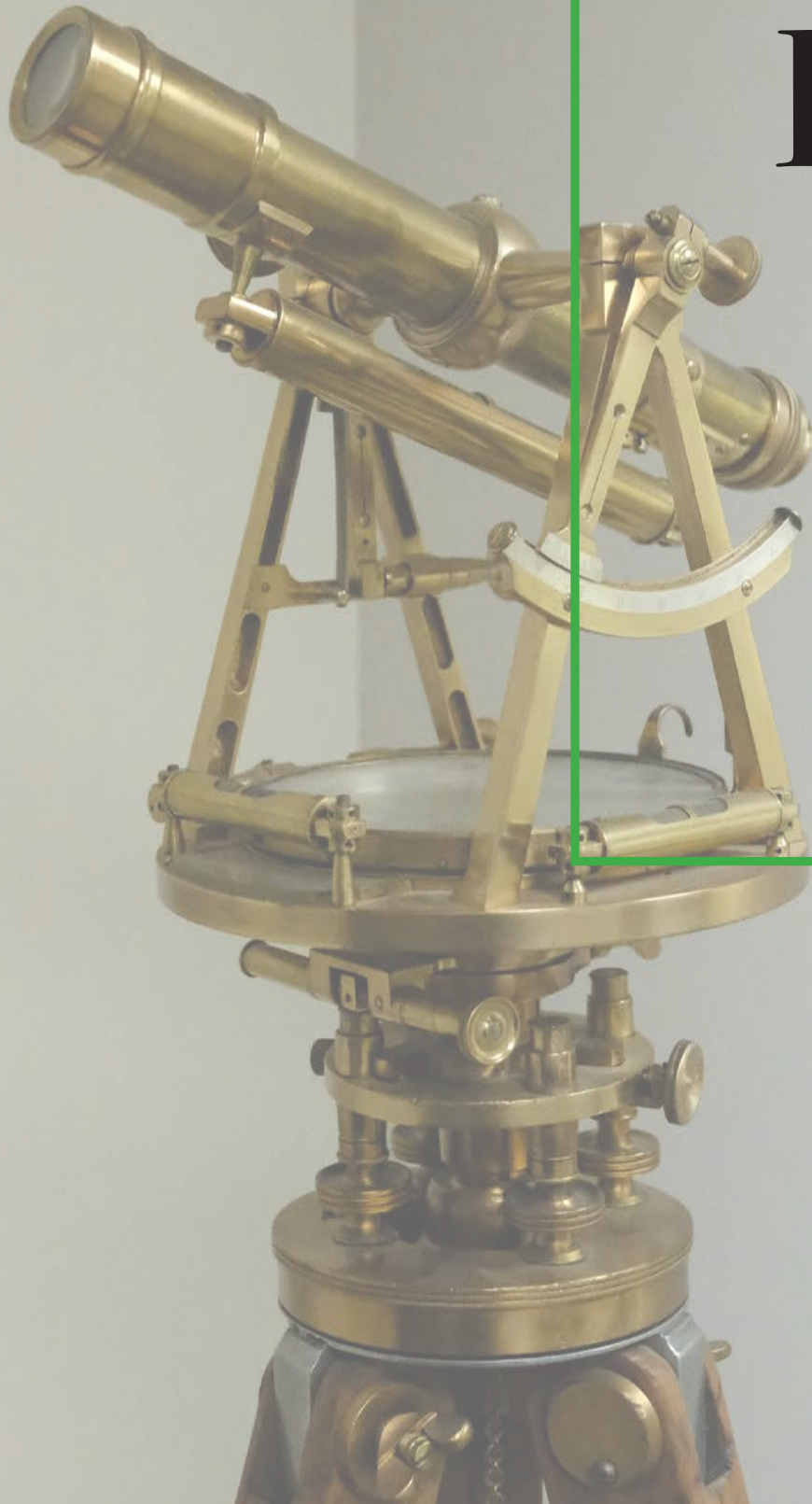
“Most people  
do not listen  
with the intent  
to understand;  
they listen  
with the intent  
to reply.”

—Stephen R. Covey

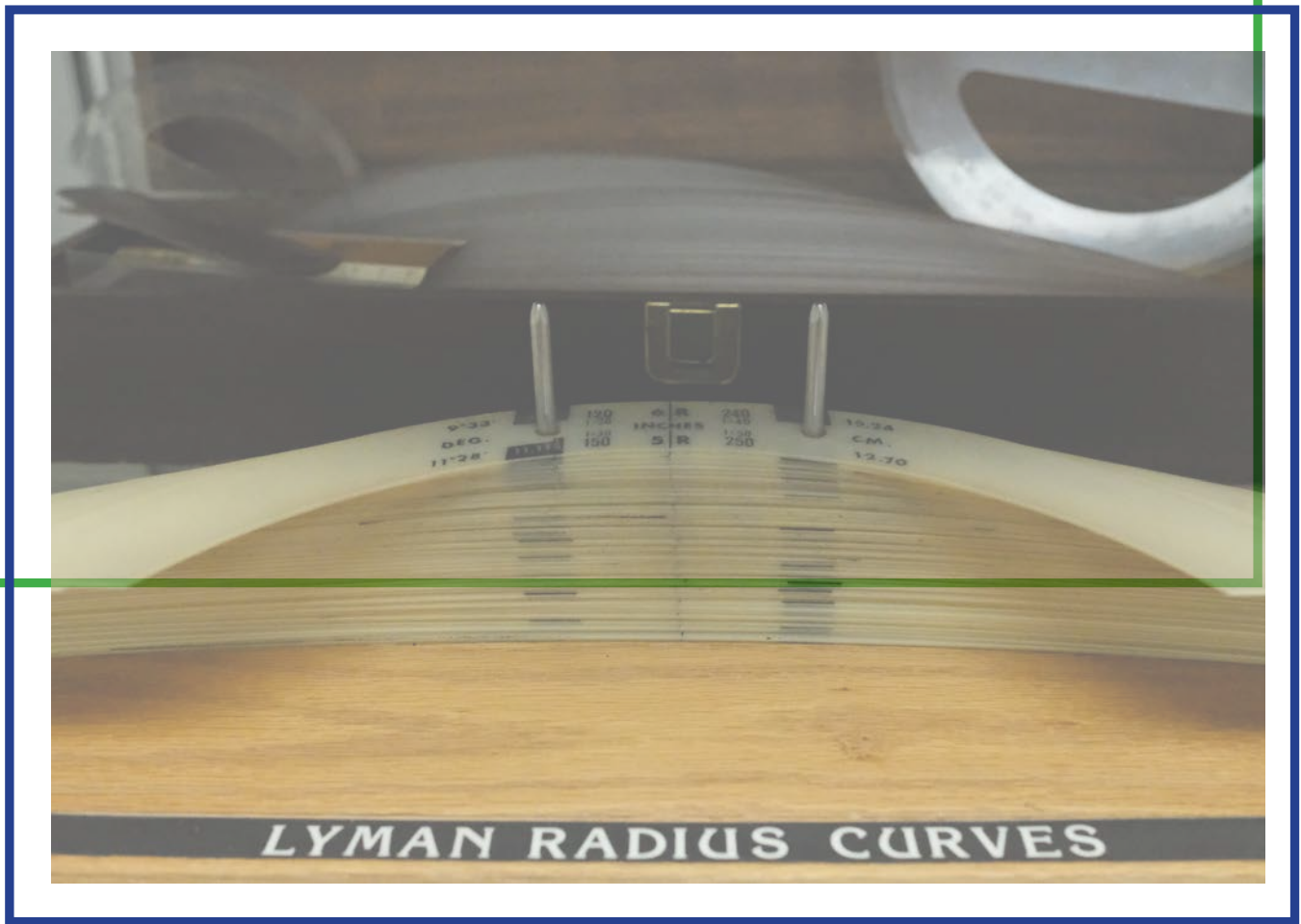
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# 2020 Firm



# Sustaining s Directory



A	
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Agnoli, Barber & Brundage, Inc.	239-597-3111
AIM Engineering & Surveying	239-332-4569
Allen & Company, Inc.	407-654-5355
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Associated Land Surveying & Mapping, Inc.	407-869-5002
Avirom & Associates, Inc.	561-392-2594
Axis Geospatial SE, LLC.	386-439-4848
B	
Banks Engineering	239-939-5490
Barnes, Ferland and Associates, Inc.	407-896-8608
Barraco & Associates, Inc.	239-461-3170
Bartram Trail Surveying, Inc.	904-284-2224
Bello & Bello Land Surveying Corporation	305-251-9606
Benchmark Surveying & Land Planning, Inc.	850-994-4882
Berntsen International	608-443-2773
Betsy Lindsay, Inc.	772-286-5753
Biscayne Engineering Company, Inc.	305-324-7671
Boatwright and Durden Land Surveyors, Inc.	904-241-8550
Bock & Clark Corporation	330-665-4821
Bowman Consulting Group, Ltd.	703-464-1000
Brown & Phillips, Inc.	561-615-3988
BSE Consultants, Inc.	321-725-3674
Buchanan & Harper, Inc.	850-763-7427
Bussen-Mayer Engineering Group, Inc.	321-453-0010

C	
C & M Road Builders, Inc.	941-758-1933
Calvin, Giordano, & Associates	954-921-7781
Cardno, Inc.	407-629-7144
Carter Associates, Inc.	772-562-4191
Caulfield & Wheeler, Inc.	561-392-1991
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Chastain-Skillman, Inc.	863-646-1402
CivilSurv Design Group, Inc.	863-646-4771
Clary & Associates, Inc.	904-260-2703
Clements Surveying, Inc.	941-729-6690
Collins Survey Consulting, LLC.	863-937-9052
Compass Engineering & Surveying, Inc.	727-822-4151
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Cross Surveying, LLC.	941-748-8340
Culpepper & Terpening Inc.	772-464-3537
Cumbey & Fair, Inc.	727-324-1070
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Dagostino Geospatial, Inc.	239-352-6085
DeGrove Surveyors, Inc.	904-722-0400
Dennis J. Leavy & Associates	561-753-0650
Dewberry	321-354-9729
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Donald W. McIntosh Associates, Inc.	407-644-4068
Donoghue Construction Layout, Inc.	850-763-7427



Douglass, Leavy & Associates, Inc.	954-344-7994
DRMP, Inc.	407-896-0594
DSW Surveying & Mapping, PLC.	352-735-3796
Duncan Parnell	407-601-5816
Durden Surveying & Mapping, Inc.	904-853-6822
<b>E</b>	
Echezabal & Associates, Inc.	813-933-2505
ECHO UES, Inc.	888-778-3246
Eda Engineers-Surveyors-Planners, Inc.	352-373-3541
E.F. Gaines Surveying Services, Inc.	239-418-0126
Eiland & Associates, Inc.	904-272-1000
Element Engineering Group, LLC.	813-386-2101
Engenuity Group, Inc.	561-655-1151
Engineering Design & Construction, Inc.	772-462-2455
England, Thims & Miller, Inc.	904-642-8990
ER Brownell & Associates, Inc.	305-860-3866
ESP Associates	813-295-9024
ETM Surveying & Mapping	904-642-8550
Exacta Land Surveyors, Inc.	305-668-6169
<b>F</b>	
First Choice Surveying, Inc.	407-951-3425
F.R. Aleman & Associates, Inc.	305-591-8777
F.R.S. & Associates, Inc.	561-478-7178
Florida Design Consultant, Inc.	727-849-7588
Florida Engineering & Surveying, LLC.	941-485-3100
FLT Geosystems	954-763-5300
Fortin, Leavy, Skiles, Inc.	305-653-4493

<b>G</b>	
Gary Allen Land Surveying	850-877-0541
Geodata Consultants, Inc.	407-732-6965
Geoline Surveying	386-418-0500
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Germaine Surveying, Inc.	863-385-6856
GPI Geospatial, Inc.	407-851-7880
Gustin, Cothorn & Tucker, Inc.	850-678-5141
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Hamilton Engineering & Surveying, Inc.	813-250-3535
H.L. Bennett & Associates, Inc.	863-675-8882
Hanson Professional Services, Inc.	217-788-2450
Hanson, Walter & Associates, Inc.	407-847-9433
Hole Montes, Inc.	239-254-2000
Hyatt Survey Services, Inc.	941-748-4693
<b>I</b>	
I.F. Rooks & Associates, LLC.	813-752-2113
<b>J</b>	
John Ibarra & Associates, Inc.	305-262-0400
John Mella & Associates, Inc.	813-232-9441
Johnston's Surveying, Inc.	407-847-2179
Jones, Wood, & Gentry, Inc.	407-898-7780

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

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

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

U	
Upham, Inc.	386-672-9515
W	
Wade Surveying, Inc.	352-753-6511
Wallace Surveying Corp.	561-640-4551
Wantman Group, Inc.	561-687-2220
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**\$ 120<sup>00</sup>**



Contracts for the Professional Course 48412 (3 General CE/C)

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Ethics for the Design Professional Course 48821 (3 General CE/C)

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Professional Ethics and Professional Courtesy FULL Video Course 48803 (3 General CE/C)

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Google Earth and Standards for Property Surveys Course 48554 (3 General CE/C)

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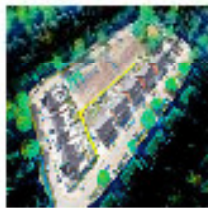
History of Surveying Course 47140 (3 General CE/C)

**\$ 120<sup>00</sup>**



Identification of Native and Non-Native Trees in Florida Course 48132 (3 General CE/C)

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Introduction to Photogrammetry Course 47968 (3 General CE/C)

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Land Use and Cadastral Systems Course 48200 (3 General CE/C)

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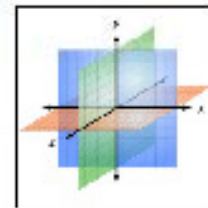
Map Projections and Plane Coordinates Systems Course 48201 (3 General CE/C)

**\$ 120<sup>00</sup>**



Mean High Water Observations & Computations Course 48202 (3 General CE/C)

**\$ 120<sup>00</sup>**



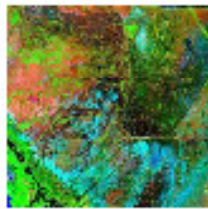
Practical Geometry for Surveyors Course 47141 (3 General CE/C)

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Public Land Survey System Course 47147 (3 General CE/C)

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Remote Sensing Applications to Surveying & Mapping Course 47148 (3 General CE/C)

**\$ 120<sup>00</sup>**



Writing Boundary Descriptions Course 48809 (3 General CE/C)

**\$ 70<sup>00</sup>**



# Correspondence Courses



## Step 1: Choose Course(s)

- 5J-17 Standards of Practice (SOP), #6962, 6 SOP/L&R CEC
- A History of the Prime Meridian Marker, #8403, 3 General CEC
- Basics of Real Property, #8359, 3 General CEC
- Boundaries in Florida, #7667, 6 SOP/L&R CEC
- Chapter 177, Platting (Plat Law), #6970, 6 SOP/L&R CEC
- Client Satisfaction Excellence for Surveying and Mapping Professionals, #7229, 6 General CEC (*Only available by mail*)
- Contracts for the Professional, #8411, 3 General CEC
- Critical Communication for Surveying & Mapping Professionals, #7228, 6 General CEC (*Only available by mail*)
- Digital Signatures for Surveyors, #8491, 3 General CEC
- Elevation Certificates and the Community Rating System, #8257, 3 General CEC
- Ethics for the Design Professional, #8620, 6 General CEC
- Florida Laws, #6966, 6 SOP/L&R CEC
- Georgia Technical Standards for Property Surveys, #8553, 6 General CEC
- Geographic Information Systems (GIS), #7107, 6 General CEC
- History of Surveying, #7108, 6 General CEC
- Identification of Native and Non-Native Trees in Florida, #7874, 6 General CEC
- Introduction to Photogrammetry, #7887, 3 General CEC
- Land Tenure and Cadastral Systems, #7829, 6 General CEC
- Map Projections and Plane Coordinate Systems, #7669, 6 General CEC
- Mean High Water Observations and Computations, #8220, 6 General CEC
- Practical Geometry for Surveyors, #7109, 6 General CEC
- Public Land Survey System, #6979, 6 General CEC
- Remote Sensing Applications to Surveying & Mapping, #6972, 6 General CEC
- Stress Management for Surveyors & Mappers: How to be Productive Under Pressure, #6902, 6 General CEC (*Only available by mail*)
- Time Management for Surveyors & Mappers: How to be Productive & Exercise Time Mastery in A Hectic World, #6901, 6 General CEC (*Only available by mail*)
- Writing Boundary Descriptions, #8361, 3 General CEC

## Step 2: Choose Member Type

**FSMS Member**

EMAILED	Fee	Quantity	Amount
6 CEC	\$115 Per Course	x _____ =	\$ _____
3 CEC	\$58 Per Course	x _____ =	\$ _____
<b>MAILED</b>			
6 CEC	\$125 Per Course	x _____ =	\$ _____
3 CEC	\$58 Per Course	x _____ =	\$ _____
<b>TOTAL</b>			\$ _____

**Non-Member**

EMAILED	Fee	Quantity	Amount
6 CEC	\$135 Per Course	x _____ =	\$ _____
3 CEC	\$78 Per Course	x _____ =	\$ _____
<b>MAILED</b>			
6 CEC	\$145 Per Course	x _____ =	\$ _____
3 CEC	\$88 Per Course	x _____ =	\$ _____
<b>TOTAL</b>			\$ _____

**Non-Licensed in ANY State**

EMAILED	Fee	Quantity	Amount
6 CEC	\$100 Per Course	x _____ =	\$ _____
3 CEC	\$60 Per Course	x _____ =	\$ _____
<b>MAILED</b>			
6 CEC	\$110 Per Course	x _____ =	\$ _____
3 CEC	\$70 Per Course	x _____ =	\$ _____
<b>TOTAL</b>			\$ _____

## Step 3: Payment Information

Name: \_\_\_\_\_ FSMS#: \_\_\_\_\_ State: \_\_\_\_\_ FSMS Member:  YES  NO

Firm: \_\_\_\_\_ Sustaining Firm:  YES  NO

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City/State: \_\_\_\_\_ Zip Code: \_\_\_\_\_

Email Address: \_\_\_\_\_ Work Phone: \_\_\_\_\_

Payment Information:  Check Enclosed (Payable to FSMS)  VISA/MasterCard/American Express

Card #: \_\_\_\_\_ Exp. Date: \_\_\_\_\_ CVV Code: \_\_\_\_\_

Billing Address of Credit Card: \_\_\_\_\_

Signature: \_\_\_\_\_

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## COVER COUGHS AND SNEEZES



Cover your mouth and nose with a tissue, or use the inside of your elbow.

## WASH HANDS OFTEN



Wash with soap and warm water for at least 20 seconds.

## AVOID CLOSE CONTACT



The CDC recommends you keep a minimum distance of 6 feet between yourself and others.

## AVOID TOUCHING YOUR FACE



Avoid touching your eyes, nose & mouth. If you do, wash your hands or use a hand sanitizer that contains at least 60% alcohol first.

## CLEAN AND DISINFECT



Clean and disinfect frequently touched surfaces daily. Use detergent or soap and water prior to disinfection.

## STAY HOME IF YOU ARE SICK!



STAY HOME. Do not leave, except to get medical care. Do not visit public areas.

# 2020 Chapter Presidents

---

## District 1

### **Panhandle**

Mike Blanton  
Michael.Blanton@nee.com

### **Gulf Coast**

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### **Chipola**

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### **FAU Geomatics**

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## District 7

### **Miami-Dade**

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# 2020 Districts & Directors

## District 1 -/Northwest

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Chad Thurner  
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## District 2 / Northeast

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Nick Digruzzolo  
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## District 3/East Central

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Howard Ehmke  
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## District 4/ West Central

Citrus, Hernando, Hillsborough, Pasco, Pinellas, Polk, Sumter

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gprather@pickettusa.com

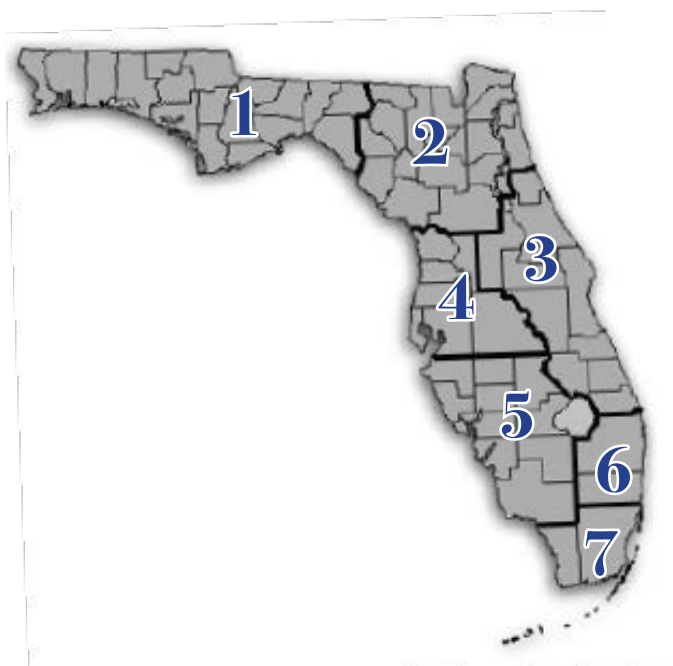
Alex Parnes  
(727) 847-2411  
alexwolfeparnes@gmail.com

## District 5/ Southwest

Collier, Charlotte, DeSoto, Glades, Hardee, Hendry, Highlands, Lee, Manatee, Sarasota

Shane Christy  
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shane@hyattsurvey.com

Jeffrey Cooner  
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jeff.cooner@cardno.com



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ken.buchanan@wginc.com

Dodie Keith-Lazowick  
(954) 788-3400  
dkeith@keithteam.com

## District 7/South

Miami-Dade, Monroe

Manny Vera, Jr.  
(305) 221-6210  
mverajr@mgvera.com

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

## NSPS Director

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

# Additional Information

## Past Presidents

### 1956

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

### 1960

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

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

### 1970

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

### 1980

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

### 1990

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

### 2000

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

### 2010

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