



# THE FLORIDA SURVEYOR

April 2020  
Volume XXVIII, Issue 4

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Acceptance

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Cover Photo by: Maverick Ocean



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# 2020 FSMS officers



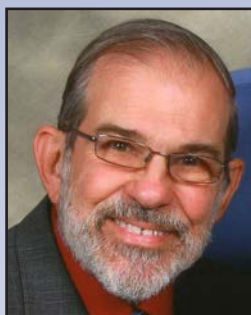
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# PRESIDENT'S message

What a difference a month makes! I don't think any of us were expecting a global event the likes of which hasn't been seen in a century, but here we are. As tough a circumstance as this is, the geospatial community is durable and resilient. Together we will outlast this. As a group of science professionals driven by data, we know what to do – follow the health and safety precautions from the CDC and be prepared for a rough month ahead.

To address a question I have heard come up frequently in the last month, we are proceeding with our Annual Conference planning for the end of July as anticipated. This event is still some months out, and we remain optimistic that things will be more normal by then. We will of course act in the interest of safety as needed, but at this point the conference is still a go.

One meeting which has experienced a postponement is the next meeting of the Board of Professional Surveyors and Mappers which had been scheduled for May 4-6 in Melbourne. Once we know more about when their next meeting will be held, we will share that information.

NSPS has been working with state societies to clearly delineate surveying as an industry essential to critical infrastructure functions consistent with the declaration from the Department of Homeland Security. Simply put, for the core functions of the country to keep working, the geospatial industry must keep working. Thus far I have heard of little resistance to this understanding, but if you experience something different, please contact FSMS and we will do what we can to clarify the critical importance of our profession.

Those who have been using the newest USGS LiDAR for Florida may have noticed that it was released using an Albers projection. Our friend Rick Pryce spotted this and following some contacts with and collaboration between Kirk Waters at NOAA and Jason Stoker at USGS, the newest Florida 3DEP LiDAR data is now available in Florida State Plane Coordinate Systems here: <https://coast.noaa.gov/dataviewer/#/>.

With all the uncertainty surrounding our rapidly changing public health situation, the most important thing that we can do (other than following the health and safety guidelines) is to stay in communication with friends and family and to keep each other's morale up. Morale is the great intangible which allows us to accomplish results which did not appear to be possible. Collectively, we will prevail. Until next month, be safe out there!



**President**

Don Elder

(850) 354-9665

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Photo by: Brandon Mowinkel

As I am writing this I am sure many of you are working differently than you ever have before! I would say that to most of the more urban areas of the state as it appears rural areas are still pretty good as we speak. Of course I am talking about the Covid-19 pandemic we are hearing all about lately. I figured I would use this month's article to let you know how we are operating and how we are conducting survey services for the City of Orlando. An area that actually has an on-going quarantine. Today I am in the office, my schedule for the last two weeks has been work from home on Monday, Wednesday and Friday. On Tuesday and Thursday I come in to sign anything that is needed and to review mylars for subdivision plats. Our field crews are working in the field daily, but doing so in meeting the social distancing requirements in what we call Driving Miss Daisy style. One person driving and the other in the back passenger side seat to get as close to the six foot separation as possible.

Survey Services as most municipal services have been deemed essential services that need to keep everything moving, including municipal construction and dealing with citizen complaints. So our field crews are still chugging along. As for my office staff they are all working from home on City assigned laptops. I have two drafters who are working on drafting projects and one plat reviewer all working from home every day of the week. To keep tabs and to collaborate we are using Microsoft Teams to ask questions and to follow up on daily requirements.

This is definitely a new way of doing business. I have been a part of many different virtual meetings and conferences, yesterday was the first time I had seen a virtual council meeting. Were there glitches? Oh yeah there were glitches. The council members were speaking over each other and the video was freezing and then skipping to catch up. It was different that is for sure.



# SURVEYORS IN government

By: Richard Allen, PSM, CFM



Photo by: Katie Moum

Every department I interface with is dealing with these issues. Every in person meeting has now transitioned into virtual conferences. From construction meetings and planning meetings we are continuing to meet and keep things moving.

The meetings are getting better as we are getting used to the technology. I am comfortable with technology and with online media, but it has been a transition for myself. I cannot imagine what it is like for those who do not like technology and change, this must be really difficult. Maybe not, we all have to adapt as Darwin said to survive. The virtual meetings have gone off pretty good, except for the hardware. Microphones vary by quality to say the least. That has been a big issue.

In speaking with my counterpart at Orange County, Bill Muscatello, County Surveyor, they are still reporting to work daily and our offices are only ten minutes apart. The County and City mandated the quarantine and I guess the City is doing its best to follow the quarantine. I am not sure if it is the right thing to do, I just do as I am told. I would be interested in how you are all operating? Are we operating similarly as other agencies across the state, or are we the only ones operating in this manner? I am curious to find out. Hopefully this will give some insight into how we are conducting ourselves and help in finding solutions if you must do the same.

Sincerely,  
Richard Allen

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



# FROM THE





# ARCHIVES





# THE PROFESSIONAL SEAL

by Knud E. Hermansen,  
P.L.S., P.E., Ph.D., Esq.

## ABSTRACT

Almost all states require a surveyor, upon licensing, to obtain a professional seal of a design and size prescribed by the licensing board. Unfortunately, many licensing boards fail to explain why, when, and where the seal is used. This article explains why, when, and where along with some guidelines for the proper use of the professional seal.

## INTRODUCTION

Most surveyors when they are initially licensed in a jurisdiction are required to obtain a professional seal. Normally, the same letter congratulating the surveyor on passing the exam also directs the surveyor to obtain a professional seal of a design and size specified by the licensing board. Unfortunately, the letter and subsequent documents from the licensing board fail to tell the surveyor why the seal is necessary, when it is to be used, and where it should be used. The surveyor is forced to learn why, when, and where from reading the licensing statute, observing those previously licensed, relying on his or her own intuition, or, in some cases, hoping the document or form will direct when and where to use the seal. This article has been written to address why, when, and where a professional seal should be used.

## WHY

Why the professional seal is required is frequently explained in one or more sections found in the licensing act. Most of the time the explanation is vague, confusing, or incomplete. A review of some case law on the subject reveals there are generally five common reasons for requiring the surveyor to obtain and use a seal.

First, the seal signifies that the person whose name appears on the seal is qualified to practice surveying within the jurisdiction shown on the seal. Documents prepared by the surveyor pass from his or her hands and are used by the public, lending institutions, title companies, or successive landowners. The imprint of the seal on the document acts as an attestation or, in part, an affidavit of the surveyor's competence and authorization to practice the profession of surveying. To the layperson who sees the seal on a document, the emboss or stamp raises the inference of official authority (perhaps incorrectly) and, at the very least, the person is authorized and competent to practice surveying. The seal's design and size; the prominent display of the jurisdiction, profession, and name of the licensee; and the professional's unique license number all combine to connote a vesting of State trust and responsibility on the licensee.

Second, the seal attests to the genuineness of the surveyor's signature and in many cases stands in the same stead as the surveyor's signature. The seal is personal and considered to be in the possession or under the control of the surveyor at all times. As such, the appearance of the seal on a document is *prima facie*

evidence that the signature on the document is the genuine signature of the surveyor. While a signature may be forged, it is extremely difficult to forge the embossed relief or produce an undetectable and realistic facsimile of the surveyor's seal short of ordering a duplicate seal or taking possession of the original seal.

Third, the seal signifies that the person has prepared, supervised, or reviewed the document that the seal has been affixed on. The seal, as a symbol of achievement, competency, trust, and responsibility, carries with it a duty for the surveyor to use the seal in a competent, trustworthy, responsible, and professional manner.

Signing and embossing the seal onto a document is meant to impress on the surveyor a sense of solemnity, respect, and responsibility for his or her actions.

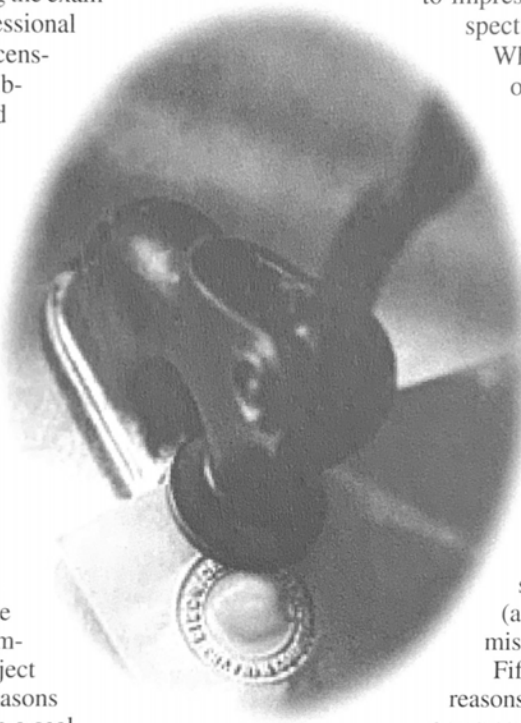
While a signature may be scrawled in a few seconds, the act of locating and legibly embossing or imprinting a seal's facsimile on the document cannot be done in haste. This is one reason many jurisdictions did or continue to outlaw the use of rubber stamps and require the embossing seal.

In conjunction with the third reason, the fourth reason for the seal is to attest to the surveyor's willingness to assume responsibility for the information or work the document represents. While many people may work on the project and several may be responsible for portions of the project, the person that takes ultimate responsibility is the individual or corporation whose seal is affixed to the document. With the responsibility to review and supervise the project (as the seal signifies) comes the liability for mistakes, errors, and omissions.

Fifth, and finally, as a result of the previous reasons, the seal may be required before an agency or person approves, reviews, accepts, pays for, or records a document. By requiring a professional seal, an agency or person makes known its desire and is reasonably assured that the work was performed, supervised, or reviewed by someone that has achieved the minimum standard of competency necessary to enter the profession and who is also willing and can be held liable for the information found in the document or represented by the document.

## WHEN

Knowing why the professional seal is used or required helps determine when and where the seal should be used in the course of professional service. As a general statement, surveyors should use their seal when they have performed, supervised, or reviewed the work and they are willing to assume responsibility (and ultimately liability) for the work. In this regard, the possession of a seal is different from the use of the seal. As a general rule, a surveyor is said to be "competent" when they are allowed to obtain a seal, while the surveyor is said to be a "professional" if they know when to properly use the seal.





## WHERE

Where to use the professional seal is generally intertwined with the question on when to use the seal. As a general rule, a seal can be used on any document prepared, supervised, or reviewed by the surveyor. Therefore, the seal should be used on all plans, plats, reports, designs, opinions, and official letters that relate to the surveyor's professional practice, so long as the document has been prepared, supervised, or reviewed by the surveyor.

The professional seal should be placed or located on the document so that the seal is noticeable, the extent of the surveyor's responsibility is obvious, and it is near or on the surveyor's signature, certificate, or other important or critical information. The first criterion is important when a seal is required before the document can be accepted or recorded. By placing the seal where it will be easily noticed, it gives the document an aura of professionalism and fitness. Surveyors, other professionals, recorder of deeds, and others have become so accustomed to seeing a seal on some documents that the absence of a seal immediately raises questions and draws a more critical examination of the work. A professional seal noticeably displayed on a document also helps give the document an authoritative and official flavor.

The second criterion, that is, placing the seal on certain documents or a particular position on the document, helps infer the extent of the surveyor's responsibility. For example, the seal on the cover sheet of a binder containing five drawings denotes complete responsibility for all the drawings rather than one of the drawings which would occur if the seal were only found on one of the drawings within the binder. Similarly, placing the seal at the end or on the cover of a report or field book is more suggestive of complete responsibility for the contents than would be inferred by placing the seal on an intermediate chapter or field book page that may only contain one day's work.

Finally, addressing the last criterion, the seal should be placed near or on the surveyor's signature and other important information. Not only does this help prevent fraudulent additions or changes but it helps draw the reader's attention to the importance of the information and reinforces the authenticity of the signature.

## GUIDELINES

In light of the discussion on why, when, and where seals should be used, the following are some guidelines that should be followed after obtaining but before using a professional seal. First, make sure those persons that assume responsibility for the survey are the ones that seal the document(s). If the jurisdiction permits it, and most do, obtain and use a corporate surveying seal rather than a personal seal on work that has been supervised and reviewed by a surveyor employed by a corporation. The general saying that "where go the profits (money) should go the responsibility" is appropriate here. In partnerships and sole proprietorship, two or more seals appearing on one document may be appropriate depending on the situation. In other words, if more than one licensed surveyor performed, supervised, or reviewed the work and should or can be held responsible for the work (e.g. other partners) then more than one surveyor should affix their seal to the document. While this may not necessarily reduce the liability for any one surveyor, it should and usually does impress on other surveyors the seriousness and responsibility (also liability) that is expected from them in performing their work or managing the business. In certain cases, where a surveyor may only have limited responsibility, say for example supervision of the fieldwork, the surveyor (i.e. party chief) should affix their seal to the field book.

The second suggestion is to avoid using a rubber/ink stamp. If

at all possible emboss the seal on the document. One way to make an embossment anywhere on the drawing is to emboss on gold, metal, mylar, or paper "leaf" and firmly affix the leaf to the document so it cannot be removed without destroying the leaf or the document. In the past, a process similar to this was accomplished by dropping hot wax on the document, then immediately pressing a seal into the wax while the wax was still warm and pliable.

Embossing, rather than stamping, addresses three important concerns. First, it clearly identifies the original or master copies. In these days of fast, easy, crisp, and clear copies, copies are difficult to tell from an original that contains an ink stamp facsimile of the surveyor's seal. Hence, unauthorized changes can easily be made and remain undetected. (In fact, it is not inconceivable that an entirely fraudulent drawing could be produced and contain a "seal" copied from an ink stamped seal taken from another plat.) On the other hand, a copy of a document with an embossed seal will usually show enough detail of the seal to authenticate the document but will not contain the raised relief found on the original. Second, since embossing tends to be slower and take more effort in order to provide legible relief, it forces the surveyor to take more time and reflect on the seriousness and responsibility of their action. Third, embossing paper makes it extremely difficult to write over the embossed area without destroying the relief. Similarly, embossing an area that contains writing or graphics allows the writing or graphics to remain legible while preventing unauthorized copying or alterations since these actions would normally destroy the raised relief. This characteristic may be used by the surveyor to prevent alteration or removal of a copyright, caveat, name, signature, or so on that was placed on the document and must remain unaltered on the document.

Third, the seal should go at the end or bottom of the document. As a general rule of construction, any information following a signature that is surplus, repugnant, or in contrast to the information above or preceding the signature, can be ignored or rejected. This is not a hard and fast rule and may be applied or ignored according to the circumstances. However, if the surveyor has reason to believe that a document may be altered or additional information inserted without the surveyor's review, the surveyor would be wise to affix the seal as near as possible to the end of the information.

In conclusion, the professional seal and use of the professional seal should not be dismissed or thought of lightly. The surveyor should review the licensing act and regulations to see why, when, and where the seal should be used. It may also prove beneficial to sit down at some point near the beginning of a surveyor's career and explain why, when, and where the professional seal is used.

## REFERENCES

1. *Duncan v. Missouri Bd. for Architects*, Mo.App., 744 S. W.2d 524, 535 (1988)
2. *Hamilton Ent., Ltd. v. South Park Land & Livestock Co., Inc.*, Colo.App., 527 P.2d 886, 889 (1974)
3. *South Park Land & Livestock Co., Inc. v. Hamilton Ent., Ltd.*, Colo., 538 P.2d 444 (1974)

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# Around the State



Lake County proclamation acceptance.



At the Board of County Commissioners meeting on March 10, 2020, Commissioner Valeche (right) presented a proclamation to MG's SUE Director and Vice President, Mark Sowers, declaring March 15-21, 2020 as National Surveyors Week in Palm Beach County.





Strayer Surveying's Erick Bennett (left) & Greg Rieth (middle) was proud to accept a proclamation from City of Venice Mayor Ron Feinsod, naming the week of March 15-21, 2020, as National Surveyor's Week.



L. Levine

Liz Compton, Executive Director, Florida Board of Professional Surveyors and Mappers (left), and Regenia Lee, Government Analyst (right) presented FSMS Executive Director, Tom Steckler with a proclamation.





Above: City of Orlando proclamation acceptance.

Right: Bret Brunow was proud to accept a proclamation from the City of Sanford.

Below: Sarasota County proclamation acceptance.





# **STATEMENT FROM NSPS REGARDING LIMITING SURVEYING ACTIVITIES DUE TO COVID-19 MANDATES**

**STATE AND LOCAL GOVERNMENTS ARE HAVING TO TURN TO "SHELTER-IN-PLACE" AND LOCKDOWN MANDATES TO HELP CONTROL THE SPREAD OF THE COVID-19 VIRUS. THESE MANDATES GENERALLY STATE THAT ALL NON-ESSENTIAL OCCUPATIONS AND PROFESSIONS SHOULD WORK FROM HOME WHERE POSSIBLE. BEING THAT A LARGE PORTION OF THE SURVEYING PROFESSION TAKES PLACE OUTDOORS AND IN PUBLIC PLACES, RESTRICTIONS OF PERFORMING SURVEYING TASKS CAN BE DEVASTATING TO EMPLOYEES AND EMPLOYERS, NOT TO MENTION THE CLIENTS THEY SERVE. SURVEYORS PLAY A CRITICAL ROLE OF MANY PROJECTS, BOTH PUBLIC AND PRIVATE, AND MANY OTHERS RELY HEAVILY ON THEIR PARTICIPATION. WE FULFILL A VITAL ROLE IN INFRASTRUCTURE DEVELOPMENT, REAL ESTATE TRANSACTIONS, AND OTHER PROPERTY-BASED ACTIVITIES SO DISABLING OUR ABILITY TO PROVIDE THESE SERVICES DOES NOT FALL IN LINE WITH OUR DUTY TO PROTECT THE PUBLIC.**

**NSPS IS ACTIVELY PETITIONING FEDERAL, STATE AND LOCAL GOVERNMENTS TO RECOGNIZE SURVEYING AS AN EXEMPT ACTIVITY AS DEFINED IN THE "MEMORANDUM ON IDENTIFICATION OF ESSENTIAL CRITICAL INFRASTRUCTURE WORKERS DURING COVID-19 RESPONSE" DATED MARCH 19, 2020 FROM THE DEPARTMENT OF HOMELAND SECURITY. WE WILL KEEP YOU POSTED ON OUR PROGRESS OF THIS EFFORT.**

**CURT SUMNER, EXECUTIVE DIRECTOR  
LISA VAN HORN, PRESIDENT**







Office of the  
Orange County Mayor

# Proclamation

**WHEREAS**, surveyors and mappers are counted among the founding leaders of our country and were instrumental in the formation of property boundaries in the United States, allowing for the orderly identification of land parcels and the enjoyment of ownership; and

**WHEREAS**, George Washington, Thomas Jefferson, and other former presidents of the United States served their fellow colonists as surveyors; and

**WHEREAS**, the citizens of Orange County recognize the valuable contributions of the surveying and mapping profession to history, development, and quality of life in Florida and the United States of America and continue to make important decisions based on the knowledge and expertise of licensed surveyors and mappers; and

**WHEREAS**, the surveying and mapping profession requires special education and training, including the knowledge of mathematics, related physical and applied sciences, and requirements of law; and

**WHEREAS**, surveyors and mappers are uniquely qualified and licensed to determine and describe land and water boundaries for the management of natural resources and protection of private and public property rights; and

**WHEREAS**, continued advancements in instrumentation have required surveyors and mappers to understand, as well as implement, the methods of the past and to learn and employ modern technology to meet future challenges.

**NOW, THEREFORE**, I, Jerry L. Demings, by virtue of the authority vested in me as Orange County Mayor, do hereby proclaim the week of March 15 through March 21, 2020, as

## FLORIDA SURVEYORS AND MAPPERS WEEK

in Orange County, Florida, in recognition of the many contributions and ongoing dedication of surveyors and mappers to the citizens of Florida and the United States.

**DONE AND ORDERED** this 4<sup>th</sup> day of March, 2020.

JERRY L. DEMINGS, ORANGE COUNTY MAYOR



**PROCLAMATION  
2020 - 21**

**WHEREAS**, surveyors and mappers are counted among the founding leaders of our country and were instrumental in the formation of the layout of property boundaries in the United States which have provided our citizens the enjoyment of property ownership; and

**WHEREAS**, George Washington, Thomas Jefferson and other former Presidents of the United States, served their fellow colonists as surveyors; and

**WHEREAS**, the citizens of Florida recognize the valuable contributions of the surveying and mapping profession to history, development, and quality of life in Florida and the United States of America and make important decisions based on the knowledge and expertise of licensed surveyors and mappers; and

**WHEREAS**, the surveying and mapping profession requires special education, training, the knowledge of mathematics, the related physical and applied sciences, and requirements of law for evidence; and

**WHEREAS**, surveyors and mappers are uniquely qualified and licensed to determine and describe land and water boundaries for the management of natural resources and protection of private and public property rights; and

**WHEREAS**, the continual advancements in instrumentation have required the surveyor and mapper not only to be able to understand and implement the methods of the past, but also to learn and employ modern technology in finding solutions to meet the challenges of the future.

**NOW, THEREFORE**, in conjunction with National Surveyors Week, the Board of County Commissioners of Lake County, Florida, proclaims that:

1. The week of March 15 - 21, 2020 shall be proclaimed as "FLORIDA SURVEYORS AND MAPPERS WEEK."
2. The Board of County Commissioners recognizes the many contributions and the ongoing dedication of surveyors and mappers to the citizens of Florida and the United States.
3. A copy of this Proclamation shall be spread upon the minutes of this meeting.
4. This Proclamation shall become effective upon adoption.

**DONE AND PROCLAIMED** this 10th day of March 2020 in regular session of the Board of County Commissioners of Lake County, Florida.



**BOARD OF COUNTY COMMISSIONERS  
LAKE COUNTY, FLORIDA**

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LESLIE CAMPIONE, CHAIRMAN

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WENDY R. BREEDEN, VICE CHAIRMAN

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Gary J. Cooney  
GARY J. COONEY, CLERK TO THE BOARD  
OF COUNTY COMMISSIONERS  
LAKE COUNTY, FLORIDA

APPROVED AS TO FORM AND LEGAL  
SUFFICIENCY:

Melanie Marsh  
MELANIE MARSH  
COUNTY ATTORNEY





CITY OF  
**SANFORD**  
FLORIDA

## PROCLAMATION

**WHEREAS**, surveyors and mappers are counted among the founding leaders of our country and were instrumental in the formation of the layout of property boundaries in the United States which have provided our citizens the enjoyment of property ownership; and

**WHEREAS**, George Washington, Thomas Jefferson and other former Presidents of the United States, served their fellow colonists as surveyors; and

**WHEREAS**, the citizens of Florida recognize the valuable contributions of the surveying and mapping profession to history, development and quality of life in Florida and the United States of America and make important decisions based on knowledge and expertise of licensed surveyors and mappers; and

**WHEREAS**, the surveying and mapping profession requires special education, training, the knowledge of mathematics, the related physical and applied sciences, and requirements of law for evidence; and

**WHEREAS**, surveyors and mappers are uniquely qualified and licensed to determine and describe land and water boundaries for the management of natural resources and protection of private and public property rights; and

**WHEREAS**, the continual advancements in instrumentation have required the surveyor and mapper not only be able to understand and implement the methods of the past, but also to learn and employ modern technology in finding solutions to meet the challenges of the future.

**NOW, THEREFORE, I, JEFF TRIPLETT**, by virtue of the authority vested in me as Mayor of the City of Sanford, Florida, do hereby officially proclaim, the week of March 15-21, 2020, as

### **"FLORIDA SURVEYORS AND MAPPERS WEEK"**

and recognize the many contributions and the ongoing dedication of surveyors and mappers to the citizens of Florida and the United States



IN WITNESS WHEREOF, I have hereunto set my hand and caused the Seal of the City of Sanford, Florida to be affixed this 9<sup>th</sup> of March in the year of our Lord two thousand and twenty.

\_\_\_\_\_  
JEFF TRIPLETT, MAYOR



# Office of the Mayor



## Proclamation

**WHEREAS**, surveying has been an essential element in the development of the human environment since the dawn of recorded history and is instrumental in the definition of legal boundaries for land ownership as well as the planning and execution of nearly every form of construction with its most familiar uses in the field of transportation, land development, communications, energy delivery and mapping; and

**WHEREAS**, surveyors and mappers are counted among the founding leaders of our country including George Washington, Thomas Jefferson, Abraham Lincoln, among many others and were instrumental in the formation of the layout of property boundaries in the United States which have provided our citizens the enjoyment of property ownership; and

**WHEREAS**, the surveying and mapping profession requires special education and training including the knowledge of mathematics, trigonometry and geometry as well as the related physical and applied sciences tempered by the requirements of law for evidence and possession; and

**WHEREAS**, surveyors and mappers are uniquely qualified and licensed to determine and describe land and water boundaries for the management of natural resources and protection of private and public property rights.

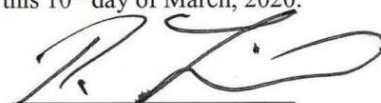
**Now, Therefore**, I, Ron Feinsod, Mayor of the City of Venice, Florida, on behalf of the Venice City Council do hereby proclaim the week of March 15-21, 2020 as

### *National Surveyors Week*

in the City of Venice and invite all Citizens of this City to join surveyors and mappers in using their own talents for the good of the community as well as recognizing and appreciating the talent of others.



*In Witness Whereof*, I have hereunto set my hand and caused the Seal of the City of Venice to be affixed this 10<sup>th</sup> day of March, 2020.

  
Ron Feinsod, Mayor



# Proclamation

## CITY OF ORLANDO - OFFICE OF THE MAYOR

- WHEREAS,** surveyors and mappers are counted among the founding leaders of our country and were instrumental in the formation of the layout of property boundaries in the United States, which have provided our citizens the enjoyment of property ownership; and
- WHEREAS,** George Washington, Thomas Jefferson, and other former Presidents of the United States served their fellow colonists as surveyors; and
- WHEREAS,** the citizens of Florida recognize the valuable contributions of the surveying and mapping profession to the history, development, and quality of life in Florida and the United States and make important decisions based on the knowledge and expertise of licensed surveyors and mappers; and
- WHEREAS,** the surveying and mapping profession requires special education, training, the knowledge of mathematics, the related physical and applied sciences, and requirements of law for evidence; and
- WHEREAS,** surveyors and mappers are uniquely qualified and licensed to determine and describe land and water boundaries for the management of natural resources and protection of private and public property rights; and
- WHEREAS,** the continual advancements in instrumentation have required the surveyor and mapper not only to be able to understand and implement the methods of the past, but also to learn and employ modern technology in finding solutions to meet the challenges of the future;

**NOW, THEREFORE, I, Buddy Dyer, Mayor of the City of Orlando,** hereby do proclaim March 15-21, 2020, as

**“National Surveyors Week”**

in the City of Orlando.



*IN WITNESS WHEREOF, I hereunto have set my hand and caused the Seal of the City of Orlando to be affixed this 15<sup>th</sup> day of March 2020.*

*Buddy Dyer*  
MAYOR



# Proclamation

- WHEREAS,** *surveyors and mappers are counted among the founding leaders of our country and were instrumental in the formation of property boundaries, which support the enjoyment of property ownership; and*
- WHEREAS,** *we recognize the valuable contributions of the surveying and mapping profession to history, development, and quality of life, in Florida and nationwide, and make important decisions based on the knowledge and expertise of licensed surveyors and mappers; and*
- WHEREAS,** *surveyors and mappers are uniquely qualified and licensed to determine and describe land and water boundaries for the management of natural resources and protection of private and public property rights.*

**NOW, THEREFORE, WE THE BOARD OF COUNTY COMMISSIONERS OF SARASOTA COUNTY, FLORIDA,**  
do hereby proclaim March 15 through March 21, 2020 to be:

## **NATIONAL SURVEYORS WEEK**

**PRESENTED** *this 11th day of March 2020.*



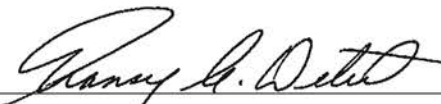
Michael A. Moran Chair  
Sarasota County District 1 Commissioner



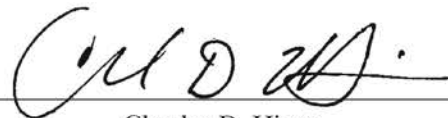
Alan Maio Vice Chair  
Sarasota County District 4 Commissioner



Christian Ziegler  
Sarasota County District 2 Commissioner



Nancy C. Detert  
Sarasota County District 3 Commissioner



Charles D. Hines  
Sarasota County District 5 Commissioner



Karen E. Rushing  
Clerk of the Circuit Court and County Comptroller



# PROCLAMATION

OF THE BOARD OF COUNTY COMMISSIONERS  
OF PALM BEACH COUNTY, FLORIDA



## DECLARING MARCH 15-21, 2020 AS NATIONAL SURVEYORS WEEK

**WHEREAS**, surveyors and mappers are counted among the founding leaders of our country and were instrumental in the formation of the layout of property boundaries in the United States providing citizens the enjoyment of property ownership, and;

**WHEREAS**, George Washington, Thomas Jefferson and other former presidents of the United States served their fellow colonists as surveyors, and;

**WHEREAS**, the surveying and mapping profession requires special education, training in mathematics, related physical and applied sciences, and requirements of law for evidence, and;

**WHEREAS**, surveyors and mappers are uniquely qualified and licensed to determine and describe land and water boundaries for the management of natural resources and protection of private and public property rights, and;

**WHEREAS**, continual advancements in instrumentation have required surveyors and mappers not only to be able to understand and implement the methods of the past, but also learn and employ modern technology in finding solutions to meet the challenges of the future.

**NOW, THEREFORE, BE IT PROCLAIMED BY THE BOARD OF COUNTY COMMISSIONERS OF PALM BEACH COUNTY, FLORIDA**, assembled in regular session this 10th day of March 2020, that March 15-21, 2020, in Palm Beach County, is hereby proclaimed

### *National Surveyors Week*

**BE IT FURTHER PROCLAIMED BY THE BOARD OF COUNTY COMMISSIONERS OF PALM BEACH COUNTY, FLORIDA**, that this proclamation is duly sealed, ribboned and executed by the members of this Board. The foregoing proclamation was sponsored by Commissioner Hal R. Valeche, and upon unanimous consent of the Board, the Mayor declared the proclamation duly enacted.

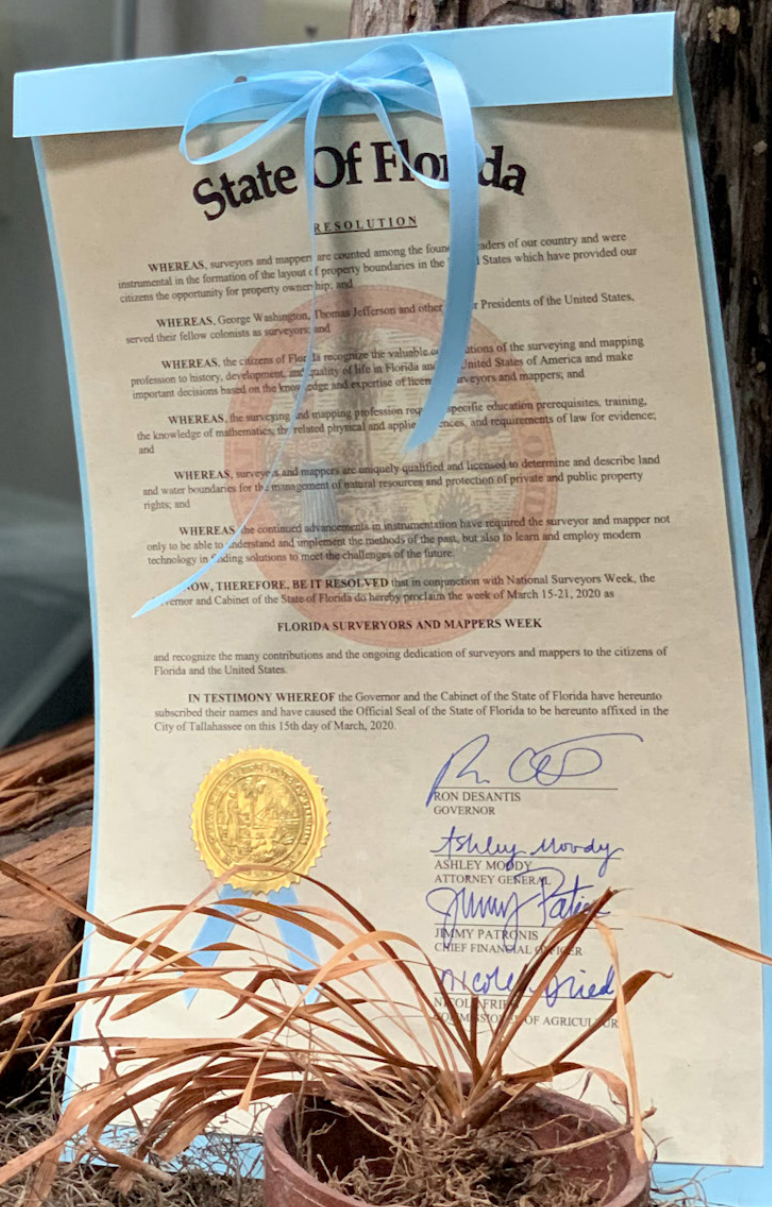
**ATTEST:**

Sharon R. Bock,  
Clerk & Comptroller

  
Mayor Dave Kerner  
Vice Mayor Robert S. Weinroth  
Commissioner Gregg K. Weiss  
Commissioner Melissa McKinlay  
Commissioner Hal R. Valeche  
Commissioner Mary Lou Berger  
Commissioner Mack Bernard

As and Constituting the Board of County Commissioners of Palm Beach County, Florida







DID  
YOU  
EVER  
WONDER  
WHY  
??

By: Michael Whitling, PSM

;;

WONDER  
EVER  
DON  
DID

## ***Why are the months of the year named as they are?***

The earliest Latin calendar was a 10-month one, beginning with March; thus, September was the seventh month, October, the eighth, etc. July was originally called Quintilis, meaning fifth; August was originally called Sextilis, meaning sixth. In 153 BC, the beginning of the year was moved to January and in 45 BC Julius Ceaser did away with all the confusion and gave us the modern version of the calendar-the Julian calendar as follows:

January: named after Janus, the Roman god of doors and gates

February: named after Februalia, Roman Festival of Purification, a time period when sacrifices were made to atone for sins

March: named after Mars, the Roman god of war

April: from aperire, Latin for "opening" (of leaves and buds)

May: named after Maia, Greco-Roman Goddess of Spring and Fertility

June: from Juno, the queen of the gods and patroness of marriage and weddings.

July: named after Julius Caesar in 44 B.C.

August: named after Augustus Caesar in 8 B.C.

September: from septem, Latin for "seven"

October: from octo, Latin for "eight"

November: from novem, Latin for "nine"

December: from decem, Latin for "ten"

Note: The word "month" comes from the Old English word monath, related to the moon.

## ***Why is an elephant's nose called a "trunk?"***

It's not clear who first tagged the elephant's snout with the name "trunk," but it seems to have happened sometime in the late 16th century.



The most reasonable theory is that it derives from the fact that just a few decades before “trunk” started getting applied to an elephant’s snout, it was also a word used to describe a pipe or hollow tube, such as a speaking tube or ear-trumpet. The hollow tube refers also to blow guns used by natives and particularly fits with the elephant’s proboscis filling with water and shooting out.

So while we are on the “trunk” subject, maybe you have wondered how the “trunk” of a car got this name. For this, we need to go back to the Latin truncus, “main stem or stock of a tree or human body.” This, in turn, gave rise to the Old French “tronc” (“alms box in a church, trunk of a tree, trunk of the human body, wooden block”) around the 12th century and then the English “trunk” around the 15th century. It is the “main stem of a tree” definition that is important in this one. By the mid-14th century, this gave rise to wood chests or cases being referred to as “trunks,” presumed because they were made from wood from tree trunks. Fast-forward a little under a half century later and we find an advertisement in the November of 1929 Hearst International Magazine where an automobile is listed as coming standard with “Six wire wheels and a trunk rack”. The rear trunk rack eventually gave way to a built-in storage compartment of a car that was referred to as a “trunk” in North America.

Lastly we have the “trunks” as an article of clothing, such as swimming trunks or “shorts.” This general definition for the word seems to have popped up in the 19th century. As for specifically “swimming trunks,” we have the first instance appearing in a July of 1883 edition of the Pall Mall Gazette where it states, “Captain Webb attempted his perilous feat of swimming the Niagara Rapids... He wore a pair of silk trunks...” In this case, it’s generally thought the definition either stems from the “hollow tube” idea, with the trunks having two hollow tubes to stick your legs through (hence “trunks” instead of “trunk”), or is referring to the fact that the shorts contain part of the base of the trunk of the body.

## Quick Facts:

The space between the thumb and forefingers is called a purlicue, and that vertical groove between your nose and upper lip is called the philtrum and seems to have no apparent function aside from giving you a perfect pout.

Research suggests that “huh?” is the closest thing humans have to a universal word. The questioning expression is understood in almost every language.

Elephants have a keener sense of smell than even a bloodhound with millions of receptor cells in their nasal cavities; they can even smell water from miles away.

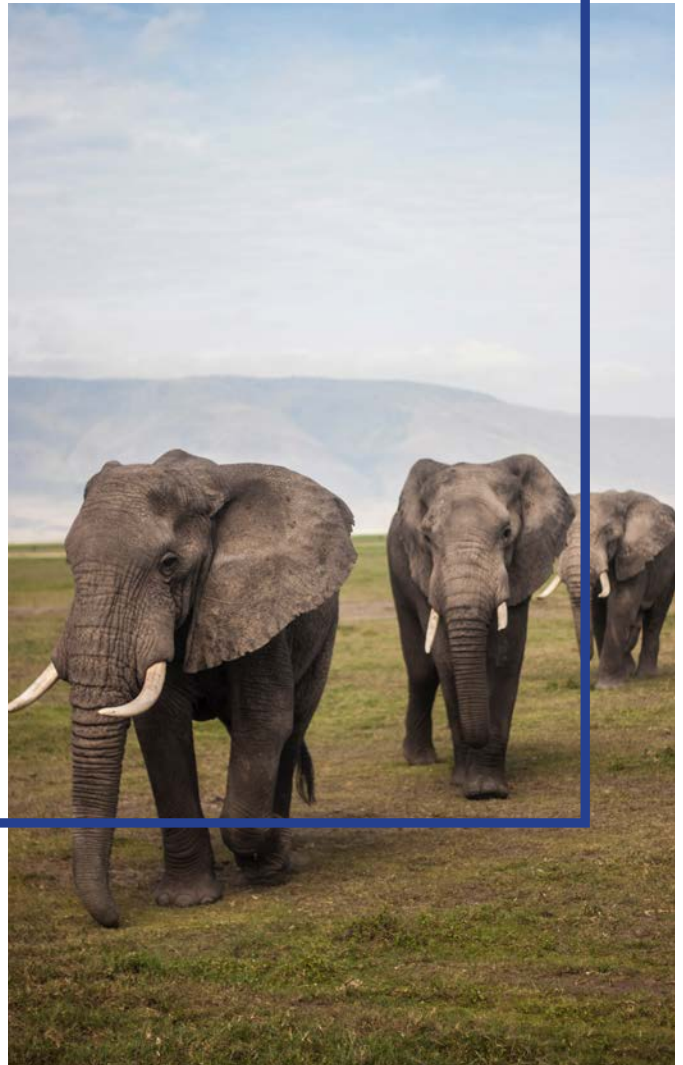
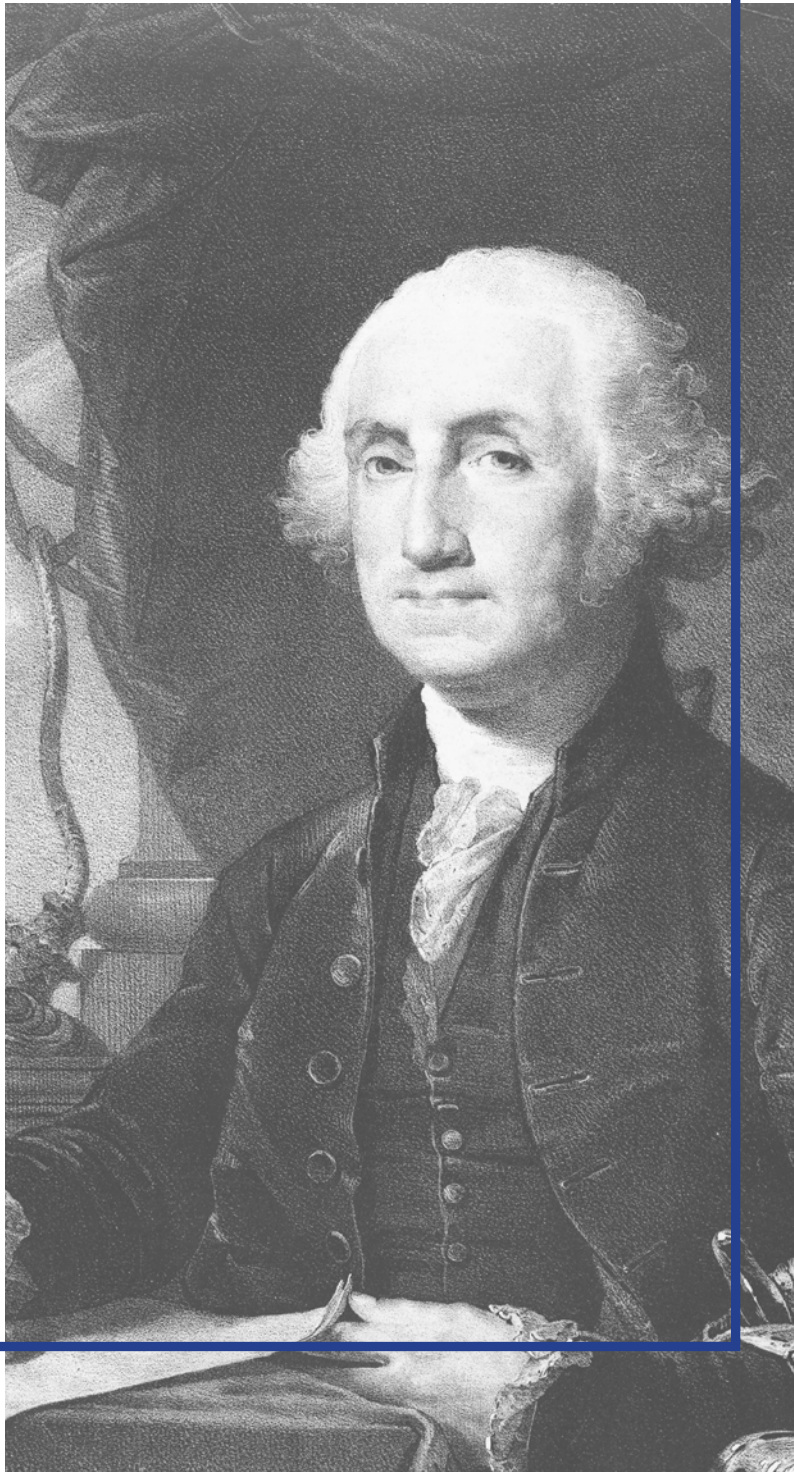


Photo by: Matthew Spiteri





Courtesy: Library of Congress

Off the coast of mainland Norway, about halfway to the North Pole, lies the Svalbard archipelago. It's so far north that it's completely dark for four months out of the year, and it's so cold that anything buried in the ground doesn't decompose. For example, in 1998, scientists extracted a live sample of the 1918 flu virus from buried bodies. Because of this, the 2,000-person town of Longyearbyen has made it illegal to die or be buried there. Instead, people nearing the ends of their lives must fly to the Norwegian mainland.

George Washington had incredibly bad teeth and by his inauguration in 1789, he had only one natural tooth remaining so in his inaugural portrait he is pretty tight lipped. Despite what you may have heard, he did not have wooden dentures, they were made of ivory and human teeth.

While most of us would interpret the word "unfriend" as a verb meant to indicate that someone has severed an internet relationship, the word itself was first used in the 1200s to describe someone who was no longer a friend. By the 17th century, however, "unfriend" had become a verb that meant essentially the same thing it does today, minus the internet. In 1659, Thomas Fuller wrote: "I hope, sir, that we are not mutually unfriended by this difference which hath happened betwixt us."

There are no bones in an elephant's trunk, which is a fusion of its nose and upper lip. The trunk can grow to about 6 feet long and can weigh 300 pounds. Using at least 40,000 different muscles, an elephant can lift over 700 pounds with its trunk.

The word "clock" comes from the Medieval Latin "clocca," meaning "bell," referencing the ringing of the bells on early town clocks, which would let everyone in a community know what time it was.

If you've ever wondered what a.m. and p.m. stand for, wonder no more: a.m. stands for "ante meridiem," which is Latin for "before midday"; p.m. stands for "post meridiem," which is Latin for "after midday."



A University of Pennsylvania study found that 33 percent of teachers leave within the first three years of beginning their careers and 46 percent leave within the first five. The numbers have been increasing since the late 1980s. The most common reason a person leaves teaching is the low salary.

The International Space Station orbits about 220 miles above the Earth and travels at approximately 17,000 mph, so it takes about 92 minutes to circle the Earth once. For this reason, every 45 minutes the astronauts on-board see a sunrise or a sunset, with a total of 15 – 16 of each every 24 hours.

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



Photo by: Van Tay Media



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# 2020 Committees

Standing Committees	
Nominating Committee	Hal Peters
Membership Committee	Dodie Keith-Lazowick
Finance Committee	Bon Dewitt
Executive Committee	Don Elder
Education Committee	Dianne Collins
Annual Meeting Committee	Jim Sullivan
Legal Committee	Jack Breed
Strategic Planning Committee	Hal Peters
Ethics Committee	Joe Perez
Legislative Committee	John Clyatt
Surveying & Mapping Council	Randy Tompkins
Constitution & Resolution Advisory Committee	Eric Stuart

Special Committees	
Equipment Theft	Manny Vera
Awards Committee	Dianne Collins
UF Alumni Recruiting Committee	Russell Hyatt
Professional Practice Committee	Lou Campanile, Jr.



## Liaisons

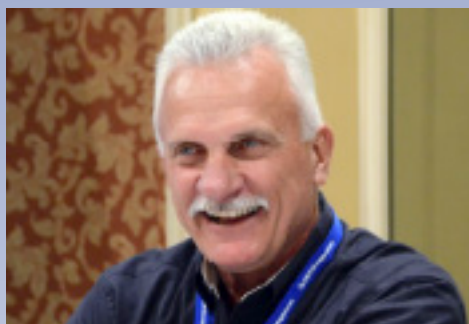
<b>CST Program</b>	Alex Jenkins
<b>FDACS BPSM</b>	Howard Ehmke
<b>Surveyors in Government</b>	Richard Allen
<b>Academic Advisory UF</b>	Bon Dewitt
<b>FES</b>	Lou Campanile, Jr.

## Practice Sections

<b>Geospatial Users Group</b>	Matt LaLuzerne
-------------------------------	----------------



# ADMINISTRATIVE staff



## **Executive Director**

Tom Steckler  
director@fsms.org



## **Education Director**

Rebecca Culverson  
education@fsms.org



## **Communications Director**

Laura Levine  
communications@fsms.org



## **Regional Coordinator**

Cathy Campanile  
seminolecc84@gmail.com





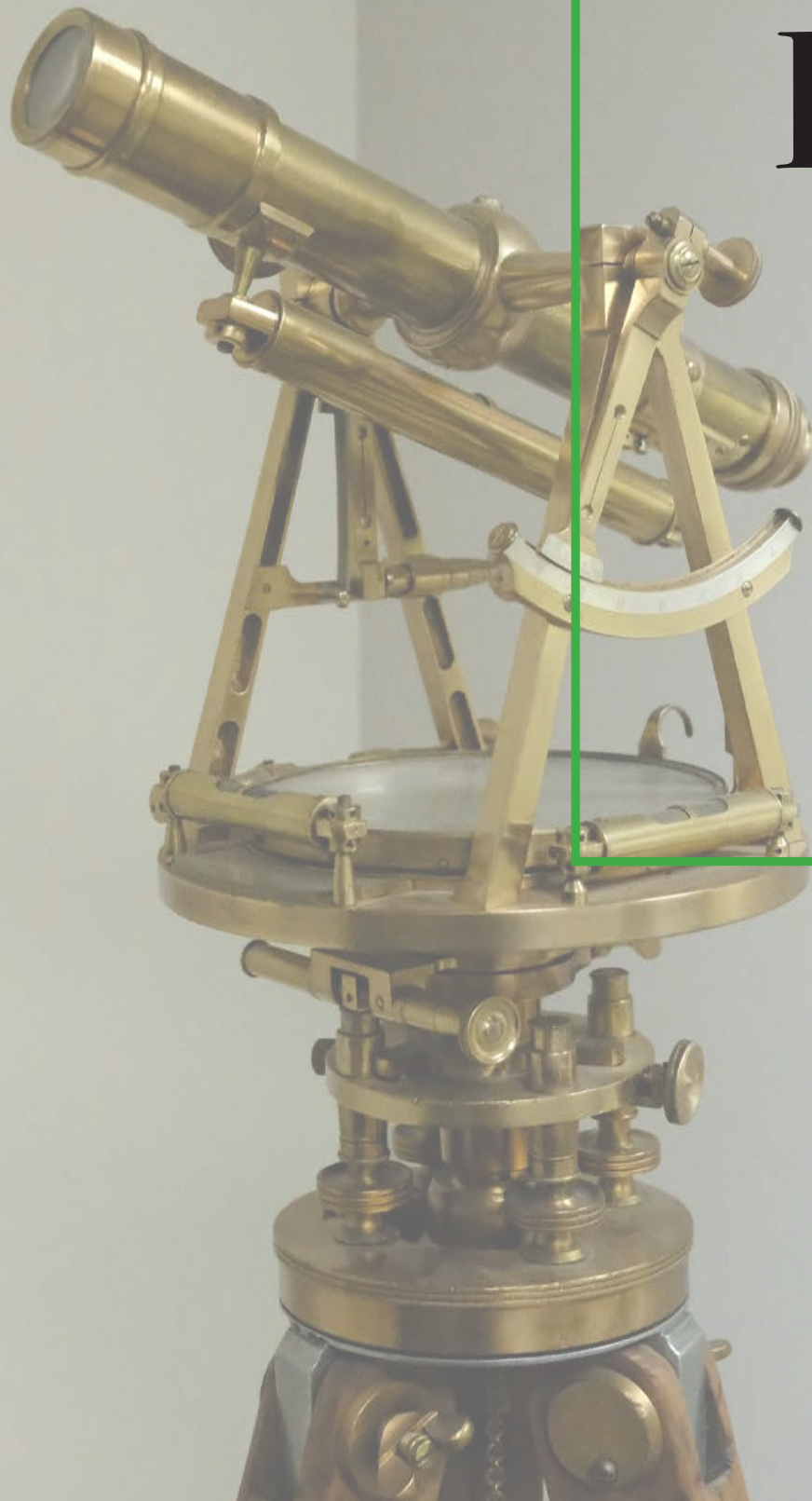
Followers want to be taken care of.  
Leaders want to take care of others.  
Be the leader you wish you had.

- Simon Sinek

The Florida Surveyor is the official publication of the Florida Surveying and Mapping Society, Inc. (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 of the year of national, state, and district events and accomplishments as well as articles relevant to the surveying profession. The latest educational offerings are also included.

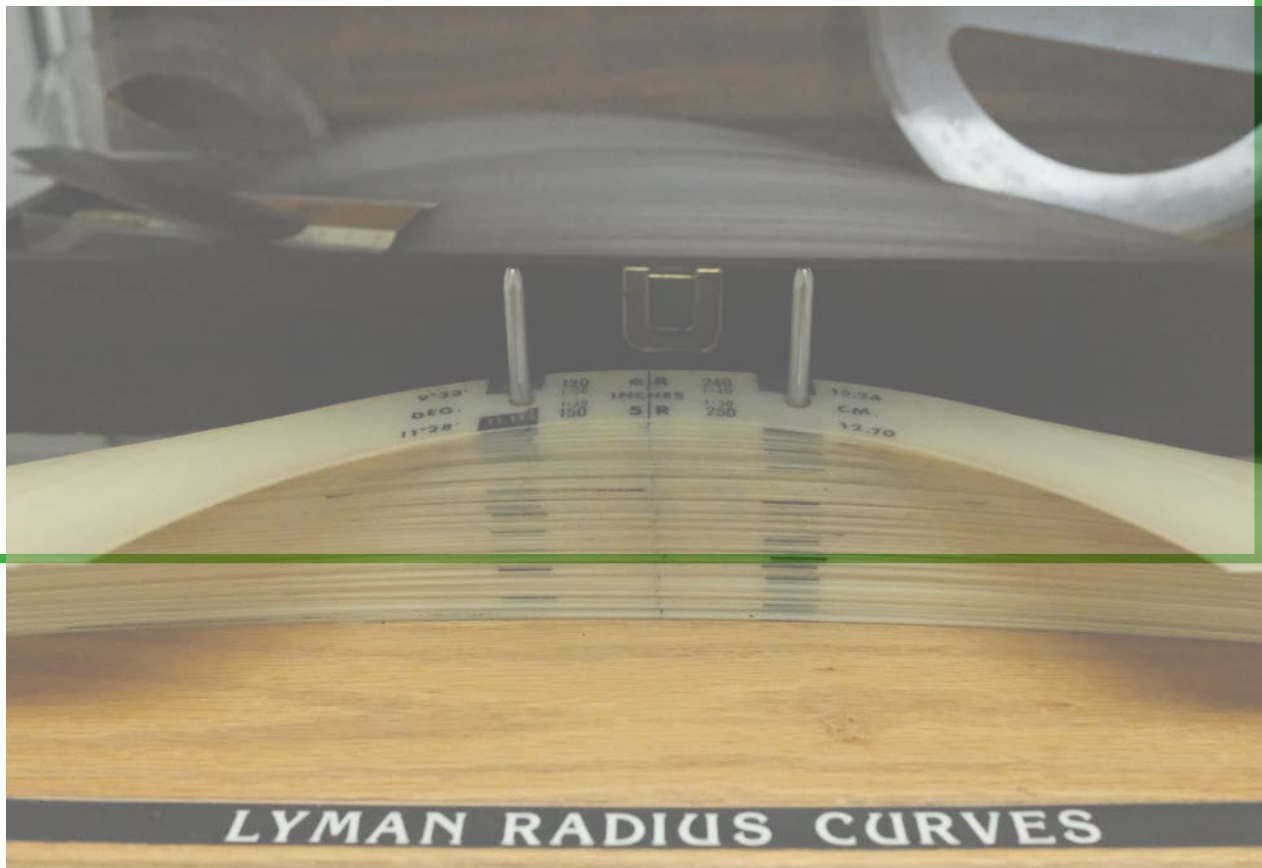


# 2020 Firm





# Sustaining s Directory



A	
Accuright Surveys of Orlando, Inc.	407-894-6314
Agnoli, Barber & Brundage, Inc.	239-597-3111
AIM Engineering & Surveying	239-332-4569
Allen & Company, Inc.	407-654-5355
Allen Engineering, Inc.	321-783-7443
AM Engineering, Inc.	941-377-9178
American Consulting Professionals, LLC.	813-435-2600
American Surveying, Inc.	813-234-0103
Ameritt, Inc.	813-221-5200
Arc Surveying & Mapping, Inc.	904-384-8377
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
Causseaux, Hewett & Walpole, Inc.	352-331-1976
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
Control Point Assocites FL, LLC.	908-668-0099
Cousins Surveyors & Associates, Inc.	954-689-7766
CPH, Inc.	407-322-6841
Craven-Thompson & Associates, Inc.	954-739-6400
Cross Surveying, LLC.	941-748-8340
Culpepper & Terpening Inc.	772-464-3537
Cumbey & Fair, Inc.	727-324-1070
D	
Dagostino & Wood, Inc.	239-352-6085
DeGrove Surveyors, Inc.	904-722-0400
Dennis J. Leavy & Associates	561-753-0650
Dewberry	321-354-9729
DMK Associates, Inc.	941-475-6596
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



E	
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
F	
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

G	
Geodata Consultants, Inc.	407-732-6965
Geoline Surveying	386-418-0500
Geomatics Corporation	904-824-3086
Geo Networking, Inc.	407-549-5075
GeoPoint Surveying, Inc.	813-248-8888
George F. Young, Inc.	727-822-4317
GeoSurv, LLC.	877-407-3734
Germaine Surveying, Inc.	863-385-6856
GPI Geospatial, Inc.	407-851-7880
Gustin, Cothorn & Tucker, Inc.	850-678-5141
H	
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
I	
I.F. Rooks & Associates, LLC.	813-752-2113
J	
John Ibarra & Associates, Inc.	305-262-0400
John Mella & Associates, Inc.	813-232-9441
Johnston's Surveying, Inc.	407-847-2179
Jones, Wood, & Gentry, Inc.	407-898-7780

<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 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
Rogers, Gunter, Vaughn Insurance, Inc. (HUB FL)	850-386-1111



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

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

\$ 120<sup>00</sup>



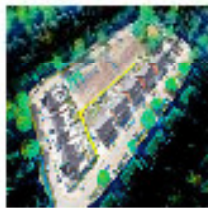
History of Surveying  
Course 47140 (3 General  
CEC)

\$ 120<sup>00</sup>



Identification of Native  
and Non-Native Trees in  
Florida Course 48132 (3  
General CEC)

\$ 120<sup>00</sup>



Introduction to  
Photogrammetry Course  
47908 (3 General CEC)

\$ 70<sup>00</sup>



Land Tenure and  
Cadastral Systems  
Course 48203 (3 General  
CEC)

\$ 120<sup>00</sup>



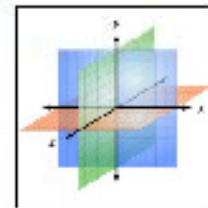
Map Projections and  
Plane Coordinate  
Systems Course 48201 (3  
General CEC)

\$ 120<sup>00</sup>



Mean High Water  
Observations &  
Computations Course  
48202 (3 General CEC)

\$ 120<sup>00</sup>



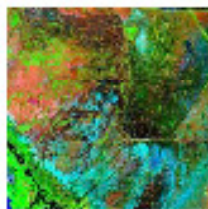
Practical Geometry for  
Surveyors Course 47141  
(3 General CEC)

\$ 120<sup>00</sup>



Public Land Survey  
System Course 47147 (3  
General CEC)

\$ 120<sup>00</sup>



Remote Sensing  
Applications to Surveying  
& Mapping Course 47148  
(3 General CEC)

\$ 120<sup>00</sup>



Writing Boundary  
Descriptions Course  
48809 (3 General CEC)

\$ 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	\$50 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

Address: \_\_\_\_\_

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: \_\_\_\_\_

**IF PAYING BY CHECK, MAIL FORM TO: FSMS, P.O. Box 550091-249, Orlando, Florida 32855-0249**

**IF PAYING BY CREDIT CARD, FAX OR EMAIL FORM TO: 850.877.4952 [education@fms.org](mailto:education@fms.org)**

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# PREVENT COVID-19

## 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**

Frederic Rankin  
erankin@dewberry.com

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### **Palm Beach**

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### **FAU Geomatics**

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## **District 7**

### **Miami-Dade**

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# 2020 Districts & Directors

## District 1 -/Northwest

Bay, Calhoun, Escambia, Franklin, Gadsden, Madison, Okaloosa, Santa Rosa, Taylor, Wakulla, Walton, Washington

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## District 2 / Northeast

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## District 3/East Central

Brevard, Flagler, Indian River, Lake, Okeechobee, Orange, Osceola, Seminole, Martin, St. Lucie, Volusia

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Howard Ehmke  
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## District 4/ West Central

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

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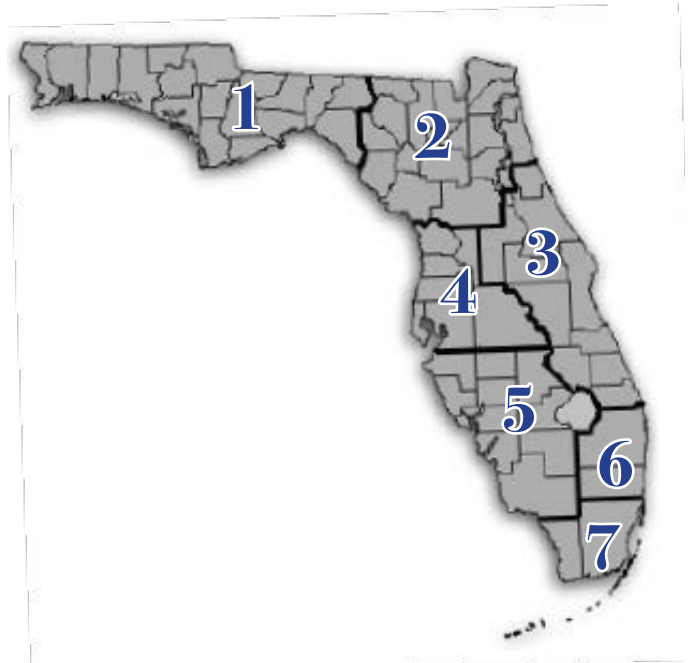
Alex Parnes  
(727) 847-2411  
alexwolfeparnes@gmail.com

## District 5/ Southwest

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Dodie Keith-Lazowick  
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Miami-Dade, Monroe

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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.*  
*Bob Strayer, Jr.*  
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