



# *The Florida Surveyor*

Volume XXVII, Issue 6

June 2019

**64th Annual Conference**  
**Orlando, FL**  
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The Florida Surveyor is an official publication of the Florida Surveying and Mapping Society, Inc. (FSMS) and is published for the purpose of communicating with the membership. The newsletter is financed primarily by the dues of the membership although advertisements are welcome from service and product industries relating to the needs and activities of the profession. Articles and advertising appearing in this publication are not necessarily the official policy of this Society unless specifically stated. FSMS assumes no responsibility for statements expressed in this publication. The Florida Surveyor welcomes contributions from members. Mail correspondence to Administrative Office. Copy all quoted material as it appears in the original. Give credit to the source from which you are quoting. Emailed ads are acceptable. Please send Adobe files, eps, pdf or tif files.

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# President's Message



Another month has gone by and it's time to write this message again. The time is absolutely flying this year. I hope everyone had a great Mother's Day and are looking forward to Father's Day coming up this month as well as summer vacations.

May was a busy month, as they all are at this point. We started the month with our FSMS Scholarship and FSMS Board of Director's meetings held at the Stern Learning Center located in the Austin Cary Forest just northeast of Gainesville. What a beautiful venue for this meeting. We really appreciate the University of Florida for having this facility and providing it to us.

Brief highlights of these meetings:

- We had only one scholarship applicant to review and approve this quarter. We still have funds available and I would like to encourage any of you with staff, family or friends that are working towards a career in Geomatics to complete the application for this assistance. We really want to help as many people as possible.
- "Unlicensed Practice Committee" has been renamed/rebranded as the "Professional Practice Committee". This committee will be addressing not only apparent unlicensed practice but will also be trying to address items in municipal and county codes that are of concern to the Professional Surveyors and Mappers of Florida.
- The Florida Legislative session ended with deletion of ALL of the requested funding for the Geomatics program and Tide Marker replacements funding for the Division of State Lands. This has been a continuing battle for several years and we will be looking for ways to address this, hopefully with more success, during next year's session.
- Our slate of officers for the 2020 year was approved – Elections should be happening as this issue is published. PLEASE VOTE even if there's only one candidate. We do have two candidates for NSPS Director and I encourage you to vote for whomever you believe will best represent FSMS at the national level. It only takes a minute to cast your vote and it is important.
- The financial status of FSMS is sound due in part to your support and participation as members but also to the fiscal responsibility exercised by our Executive Director, Tom Steckler. He does a great job for us!

We want to thank Dominic Levings for his contribution to our organization over the past couple of years. We wish him well in his new endeavors. At the same time, we want to welcome our new Communications Director, Laura Levine who started with us on May 20th. At this time, Dominic is working with and training her to take over his duties. Please give Laura your support and a little latitude while she acclimates herself to our organization. Stop by to say hello and introduce yourselves at the Conference.

Speaking of the Conference, remember Conference registration is NOW OPEN. It's going to be a great time in Orlando, July 24th-27th. Register for conference and get your room reserved now. Please consider sponsorship and let us know if there are Exhibitors you'd particularly like to see included in this year's Exhibit Hall. We have an additional surprise that will complement your conference experience. We will be utilizing a Conference App for your phones which will provide schedules, who's attending the events, potential changes to scheduled events, etc. Everything you need to know about conference will be at your fingertips. This year the app is being sponsored by KEITH so please thank Dodie Keith for giving us this opportunity to further enhance the conference experience.

For all who have fathers in their lives, be they fathers, grandfathers, husbands, sons or brothers, take this special day of Father's Day to show them how important they are and how much they mean to you.

"Change is the law of life and those who look only to the past or present are certain to miss the future."  
—John F. Kennedy

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FLA. SURVEYOR / FSPLS MEMBER

## EDWINA POLK TEACHES SURVEYING AT POLK JR. COLLEGE

Is there a solution to the steadily worsening shortage of engineers and surveyors? Mrs. Edwina Polk of Lakeland, Florida, suggests by example that one obvious answer might be more female participation in the profession.

Mrs. Polk is currently the Chief Designer of the Engineering Division of Polk County's Engineering Department. She is a registered surveyor, and a member of both the Florida and Polk County Societies.

Mrs. Polk herself is not about to take the podium in behalf of female rights in engineering, because she feels that the door has always been open if a young lady wanted to follow in that direction.

"I never felt there was anything particularly remarkable about my choice of career," she states. "I simply did what I enjoyed doing. And that is the only advice I would give a girl today. If she likes mathematics and related subjects, consider engineering as a possible field of study. It can be a very rewarding profession, and the obstacles today are far fewer than when I started twenty years ago."

Mrs. Polk having a special interest in math as early as the age of five. "I certainly didn't get it from my mother," she recalled recently. My father was the one in the family with a real interest in the subject."

With her father's encouragement, Mrs. Polk pursued her interest. Like many a young engineer, she recalls being given a K&E polyphase slide rule when she was 12, and having a great time learning how to use it.

She attended Florida Southern College, and received her Bachelor of Science from there, majoring in mathematics with a minor in chemistry. On her first job after graduation, at the Charleston, S. C., naval shipyard, she encountered one of those ancient superstitions which could get in the way of a modern lady engineer.

It's an old belief that no woman should be aboard a ship before it is commissioned. Still, Mrs. Polk had to analyze some tilt corrections while the ship was in drydock. She decided to wait until night, then go aboard with a fellow engineer and complete her assignment.

She recalls that she and her companion were down in a large gun mount when an old navy veteran, weaving a bit from a night on the town, spotted them. "He banged his head with the palm of his hand, as if he didn't believe his eyes," she said. "Then he said, 'Aw, I'm not that drunk' and turned around and left."

Mrs. Polk got her interest in surveying when her husband, Mr. V. I. Polk, of the State Road Department, was studying to become a registered surveyor. "I began to study along with my husband, and we helped each other prepare for the exams. He received his license first, and I followed about five years later."

Working for Lakeland Engineering Company, Mrs. Polk on several occasions took a transit and crew out into the field. She surveyed a good deal of the Sunshine Acres subdivision, did work on a hospital, several shopping centers and land development projects, and even got into the swamp.

"I suppose in one respect I was unique," she commented. "I was probably the only surveyor in the history of the state who marked the grade stakes on a sewer line with lipstick when there wasn't any keel handy."

Mrs. Polk has won the status of complete and admiring acceptance by her fellow engineers. For example, a few years ago Polk County Junior College was looking for an outstanding professional to conduct a surveying course at the college.

Mr. Norman Dando, head of the Engineering Department at the college, said of his search for an instructor. "We asked all over the area trying to find the best person for the job, and almost everybody I talked with mentioned Mrs. Polk. Fortunately, she was able to accept the assignment, and did an outstanding job. We think of her as one of the best engineering minds in this area. She immediately won the respect of the students, who responded to her as an authority . . . a person who knows her subject and knows how to teach it."

Mrs. Polk can recall the time when such recognition was touched with a certain irony. She remembers one of her early chiefs saying to her, "You're the best engineer in this office, but don't expect to go anywhere here."

Mrs. Polk says she took that advice and left for other assignments where what she knew and what she could do were the prime considerations.

Today, Mrs. Polk lives with her husband in Lakeland in a house built by her grandfather. She reads history as a hobby, and keeps busy expanding her knowledge of math, her fascination with the subject having continued unabated.



Staying informed on the latest developments in surveying technology is part of Mrs. Edwina Polk's role as practicing engineer and educator. Here she examines a new Zeiss Theodolite being demonstrated by Keuffel & Esser representative Dan B. Glisson. Theodolites are the instruments likely to become the most widely used in American surveying, Mrs. Polk believes.

Mrs. Polk's interest in surveying carries over to the classroom where she instructs a course in the subject at Polk County Junior College. Head of the college's engineering department, Norman Dando, says, "She is the best person we could have found for the job. A complete professional."



And, she also has the job of bringing up an active 15-year-old daughter. Is young Miss Polk likely to follow in her mother's footsteps?

"Not likely," she says. "She is crazy about horses, but horsepower doesn't hold much interest for her."

Still, it seems we were reading the other day about how girls have finally won acceptance as jockeys. For Edwina Polk, the answer has always been, follow your interests, and you'll find that your career takes care of itself. Or, as the kids today would phrase it. "Do your own thing."

# May Board Meeting

at the *UF Austin Cary Forest Campus*  
May 2nd-3rd, Gainesville, FL



The Stern Learning Center with Lake Mize in the foreground.



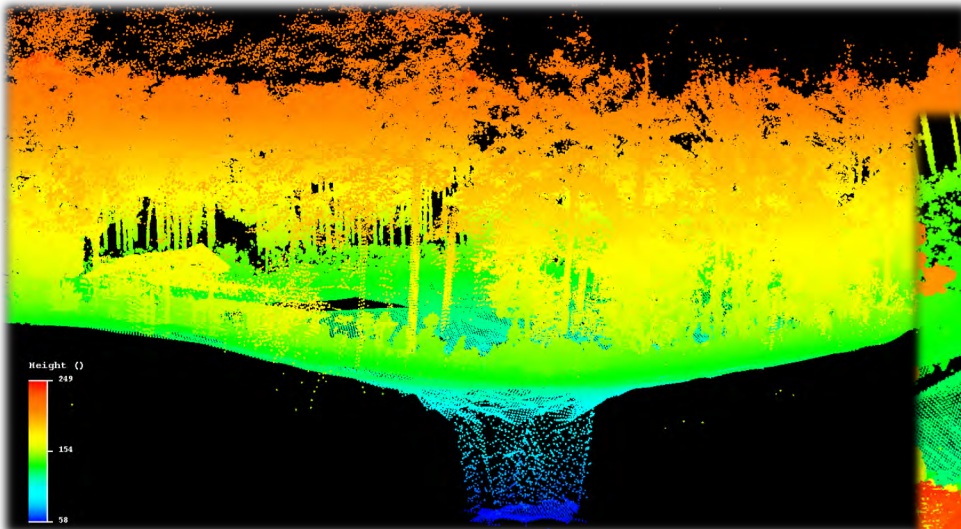
The 2019 FSMS Board of Directors



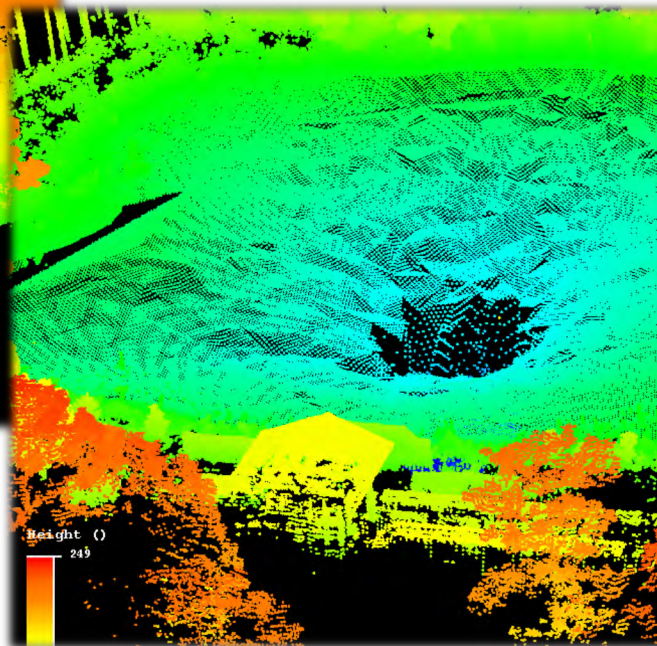
The Conference Room in the Stern Learning Center



An alligator swimming in Lake Mize.



3D point cloud images of Lake Mize and its surroundings. These oblique views illustrate the cylinder shape of the lake bottom. The map was created as part of the Marine Geomatics class at UF, with primary equipment and support from Measutronics, Inc.

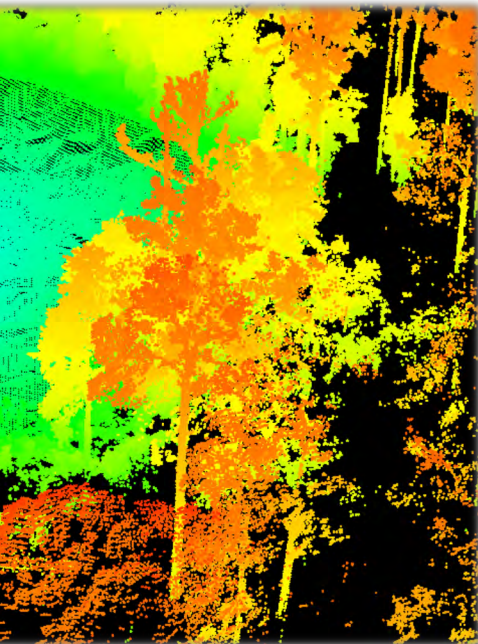




ators.



e Stern Learning Center.



# LAKE MIZE

## AT THE AUSTIN CARY FOREST

“WHEN THE WELL’S DRY, WE KNOW THE WORTH OF WATER.”

BENJAMIN FRANKLIN



*Ardea herodias*  
GREAT BLUE HERON

Water is critical to all life on earth. Here, in the heart of the Austin Cary Forest, we can see first-hand the important role that healthy forests play in sustaining and protecting this precious resource. As the rain falls, it begins a long and complex journey back to the sea through the plants and the animals, through the soils and the wetlands, and through the rock beneath our feet. All forests help protect the quality of our water and impact

how, where, when, and how much water flows. In Florida, the source of our water lies deep underground in the Floridan Aquifer, almost entirely hidden from view except where it bubbles out through our natural springs and other openings, such as Lake Mize, where the land and the aquifer are intimately connected.

Lake Mize is named after Mr. Ellis Mize, a long-time School of Forest Resources & Conservation supporter, who donated this lake and the surrounding 40 acres in 1938, is a sinkhole lake. At over 100 feet deep, it is among the deepest lakes in north Florida. It formed thousands of years ago as overlying soil layers collapsed—perhaps in response to heavy rains—into a void in the underlying limestone. That void, and others like it that have not yet collapsed, were formed as the limestone was slowly dissolved by slightly acidic water from the surface. It is known as a “morning glory sink” because of the shape it holds, narrowing from a wide flared opening (the visible lake) to a narrow base which connects to the Floridan Aquifer. When the lake levels are low, such as during a drought, the thick layers of clay at the depths of the lake become visible.



*Utricularia ulivacea*  
PIEDMONT BLADDERWORT

While the lake covers barely two acres when full, it holds over 15 million gallons of water! Standing out on the deck, or on the shores of the lake, it’s hard to imagine just how deep 100 feet really is, until you look up at the trees around you which stand between 50 to 80 feet tall.

In the warmer months, the depth of the lake allows for thermal stratification, or a layering of temperatures. Even when the surface is relatively warm, the deepest water is cold and almost entirely free of dissolved oxygen, meaning fish and other aquatic animals cannot live there.

Despite its size and low oxygen, Lake Mize is home to 19 species of fish, five species of turtles, four species of frogs, two species of salamanders and the American alligator. Generations of University of Florida students, faculty, and staff have studied and enjoyed the lake while visiting the Austin Cary Forest.



*Agkistrodon piscivorus*  
COTTONMOUTH

Because of its depth and direct connection to the Aquifer, Lake Mize is quite literally a window into our water in north Florida and serves as a important reminder that what we do on dry land has a close and immediate effect on our most valuable natural resource, flowing just underneath our feet.

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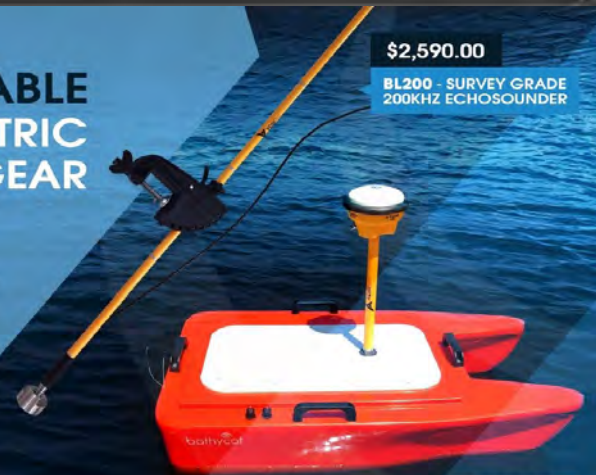
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# Did YOU Ever WONDER Why?

Michael Whitling, PSM

## Why are boxing rings called “rings”, despite being square-shaped?

The name boxing “ring” is a relic of ancient times when a physical fight between two opponents took place within a roughly drawn circle on the ground. Also, viewers gathered around the two fighters in a roughly circular manner, forming a “ring” of spectators. Although boxing matches are now conducted in square-shaped areas, such spaces are still called “rings.” Almost a hundred years after that set of standardized rules emerged for the sport of boxing, the Pugilistic Society introduced the first square ring in the year 1838, which was basically a 24 feet square. This is another reason why the ring where two boxers fight is also referred to as the ‘square circle’.



## Why are ice cream and fruit concoctions called “sundaes?”

The year was 1881 in the small town of Two Rivers, Wisconsin and it was a Sunday. A patron was on his way to a local drug store and ice cream parlor. When he arrived at the small ice cream parlor, he ordered an ice cream soda which was a very popular treat at that time. Unfortunately for him, the owner of the ice cream parlor, couldn’t serve him his ice cream soda because recent “Blue Laws” had labeled soda as “scandalous” and not appropriate to be sold or consumed on the Sabbath. Instead of sending George away empty handed, Edward served him a generous scoop of ice cream with chocolate syrup drizzled on top; an ingredient that was previously only used in ice cream sodas. Even though the treat was missing an important ingredient, soda, it grew in popularity and earned the name, “Treat for Sundays.” It wasn’t long before more and more customers began asking for the “Sunday” treat, further solidifying its name. To avoid offending those devoutly religious, the treat received an official title of “ice cream sundae.” The misspelling of Sunday was purposeful to assure religious leaders that the treat was not named after the Sabbath.



## Why is a drink given to you after a drinking binge called “the hair of the dog?”

The fuller version of this phrase, that is, “the hair of the dog that bit me”, gives a clue to the source of the name of this supposed hangover cure. There was a medieval belief that, when someone was bitten by a rabid dog, a cure could be made by applying the same dog’s hair to the infected wound. I wonder how many people managed to get bitten again when trying to approach the aforesaid dog to acquire the hair to achieve this completely useless remedy. While the “hair of the dog that bit us” is a useless rabies treatment, the taking of additional alcohol to cure a hangover has some scientific basis. The symptoms of hangover are partly induced by a withdrawal from alcohol poisoning. A small measure of alcohol may be some temporary relief, even if in the longer term it makes the hangover worse.

### Quick Facts:

⇒ If you look at a computer keyboard, any keyboard, you'll notice two little bumps on both the F and J keys. If you ever took a class in high school on how to type, you probably know why those bumps exist on those keys. For the rest of you, those bumps are there so users can find their way on the keyboard while keeping their eyes on the screen. If you are typing with two hands the proper way, your hands will be set up so that your left pointer finger is on F and your right pointer finger is on J. Without having to look at the keyboard, you just have to feel these bumps with your fingers to know that your hands are aligned properly and ready to get to work.

⇒ An estimated 80 percent of creatures on Earth have six legs.

⇒ In 1980, a Las Vegas hospital suspended workers for betting on when patients would die.

⇒ We've all used cable or power cords of some kind and notice a big cylinder-shaped lump toward the end. Most people don't know that those are actually called chokes or ferrite cores. They are simply magnetic iron oxide that helps to prevent any high-frequency electromagnetic interference. An example of this kind of interference is when your cell phone gets too close to a speaker and you get that weird noise interrupting your call. That's why we have those big cylinders on cable cords.



⇒ A normal raindrop falls at about seven miles per hour.

⇒ If you got into your car, turned on the ignition and drove up to the sky at 60 mph, it would take just one hour to get to outer space, according to astronomer Fred Hoyle. Of course, that's if you could drive on a vertical angle and all. But it sure is fun to think about!

⇒ An inch of snow falling evenly on 1 acre of ground is equivalent to about 2,715 gallons of water.



⇒ The American Public Power Association (APPA) says that squirrels are the most frequent cause of power outages in the U.S. The APPA has even developed a data tracker called "The Squirrel Index" that analyzes the patterns and timing of squirrel's impact on electrical power systems. Turns out, the peak times of the year for squirrel attacks are from May to June and October to November.



⇒ A standard grave measures 7'8" by 3'2" by 6'.

⇒ The distress signal before SOS was CQD, which meant "come quick danger."

⇒ Unlike Skittles and gummy bears, the color of each individual Froot Loop doesn't matter that much and that's because they all taste the same. Food Beast even conducted a taste test to check. "Each loop does in fact taste like mildly sweetened cardboard, with negligible or no differences between them," they wrote.

⇒ The first email was sent over the Internet in 1972.

⇒ Considered "the most important single traffic safety device," the painting of lines down the center of roads was devised by a man named Edward Hines in 1911 when he saw the dotted drippings from a leaking milk wagon and struck on the concept.

⇒ Barcode scanners read the white bars not the black bars.

⇒ Man releases more than a billion tons of pollutants into the earth's atmosphere every year.

⇒ The Godfather is all about the mafia, which is why it may surprise you to learn that the word "mafia" is never actually said in the film and there's a good reason for that. Back in the '70s, when the movie was being made, those who were involved in organized crime weren't keen on the idea of a film that could make them look bad. When Paramount Pictures announced the project, the Italian-American Civil Rights League (which was led by Joseph Colombo, boss of the Colombo crime family) launched an intimidation campaign to keep those working on the film in line. Gianni Russo, an actor who appeared in the film and had real-life mob connections, said "There were major threats, and they were serious." Fortunately, both the producers and the mob were able to make a deal: the show could go on as long as all mentions of "mafia" were deleted from the script.

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# Around the State



*Outgoing FSMS Communications Director Dominic Levings receives an embarrassing send-off orchestrated by Executive Director Tom Steckler at Texas Roadhouse in Gainesville.*



*Charles Arnett and his family at the Lowry Park Zoo in Tampa.*



*Good Friday lunch in the Strayer Surveying conference room. Left to right: Erick Bennett, Jo Stash, Haley Schaezter, and "Timber" Rieth.*

# 64th Annual FSMS Conference



July 24-27, 2019  
The Caribe Royale  
Orlando, FL



## 2018 Annual Conference Highlights:

- Over 340 Attendees
- 45 Unique Exhibitors
- 32 Unique Sponsors
- 14 Different Live Seminars Offered



*“Our Annual Conference this past year was one of the best I’ve ever seen...  
great things are happening for next summer!”*

**-FSMS President Dianne Collins**

# 64th Annual FSMS

## PEOPLE | PASSION | PURPOSE

### Monday, July 22<sup>nd</sup>

8:00am - 5:00pm Board of Professional Surveyors & Mappers Meeting *Boca I & II*

### Tuesday, July 23<sup>rd</sup>

8:00am - 12:00pm Board of Professional Surveyors & Mappers Meeting *Boca I & II*

### Wednesday, July 24<sup>th</sup>

7:30am - 5:00pm Conference Registration Desk Open *Caribbean Reg East*

8:00am - 12:00pm Board of Professional Surveyors & Mappers Meeting *Boca I & II*

8:00am - 8:30am Seminar Sign In *Caribbean VI & VII*

8:30am - 10:00am Seminar I - Session A *Caribbean VI*

Forensic Approaches to Evidence Discovery & Location

6 CEC Hours - Course #9663

Instructor: Don Wilson, PSM

Seminar II - Session A *Caribbean VII*

Minimum Std. Detail Requirements for ALTA/NSPS Land Survey Titles

6 CEC Hours - Course #9664

Instructor: Gary Kent, PSM

10:00am - 10:15am Seminar Break (Both Seminars) *Caribbean Foyer*

10:15am - 11:45am Seminar I - Session B *Caribbean VI*

Seminar II - Session B *Caribbean VII*

11:45am - 1:00pm Lunch on your own (Both Seminars)

1:00pm - 3:00pm Seminar I - Session C *Caribbean VI*

Seminar II - Session C *Caribbean VII*

3:15pm - 4:30pm Surveying & Mapping Council *Boca II*

4:30pm - 5:00pm Executive Committee Meeting **Governor's Boardroom**

6:00pm - 9:00pm Welcome Barbecue (Wednesday Arm Band Required) *Caribbean IV*

8:00pm - 10:00pm Cornhole Tournament (Sign up at Registration Desk) *Caribbean V*

### Thursday, July 25<sup>th</sup>

7:00am - 5:00pm Conference Registration Desk Open *Caribbean Reg East*

7:00am - 12:00pm Exhibit Hall Set Up *Caribbean V - VII*

7:30am - 8:00am Seminar Sign In *Boca III or V*

8:00am - 10:30am Seminar I *Boca III & IV*

Court Testimony and the Presentation of Forensic Evidence

3 CEC Hours - Course #9665

Instructor: Don Wilson, PSM

Seminar II *Boca V & VI*

Sea Level, Tidal Data, and Water Boundaries

3 CEC Hours - Course #9666

Instructor: George Cole, PSM

8:00am - 11:00am ASPRS Meeting *Boca I*

10:45am - 11:15am Depart for Topgolf (Green Arm Band Required) *Off-Site Venue*

12:00pm - 3:00pm Exhibitor/Vendor Set-Up *Caribbean V - VII*

3:00pm - 5:30pm Exhibit Hall Open *Caribbean V - VII*

3:30pm - 4:00pm Return from Topgolf

4:00pm - 5:30pm Exhibitor Reception (Conf. Name Badge Required) *Caribbean V - VII*

6:00 pm - 8:00 pm Legislative Reception (Flag Arm Band Required) *Boca I & II*

8:00pm-11:00pm Guitar players unite *Cayman*

9:00pm - 11:59am Game Night *Boca V*

### Friday, July 26<sup>th</sup>

7:30am - 5:00pm Conference Registration Desk Open *Caribbean Reg East*

7:00am - 8:00am Breakfast *Grand Sierra - A*

7:30am - 8:00am General Business Session (GBS) Sign-In *Caribbean IV*

7:30am - 5:00pm Exhibit Hall Open *Caribbean V - VII*

8:00am - 9:30am General Business Session (GBS) *Caribbean IV*

9:30am - 10:00am Exhibit Hall Grand Opening; (GBS) Break *Caribbean V - VII*

10:00am -12:00pm General Business Session (GBS) *Caribbean IV*

12:00pm - 1:00pm Exhibitor Luncheon (Admit One Arm Band Required) *Grand Sierra A - C*

1:00pm - 3:00pm FDOT - Town Hall Meeting (Open To All) *Boca I & II*

2:00pm - 5:00pm NSPS Meeting - Lisa Van Horn *Boca IV*

3:00pm - 4:00pm Geospatial Users Group Meeting *Boca III*

4:00pm - 5:00pm Surveyors in Government Meeting *Boca II*

4:00pm - 6:00pm Young Surveyors Network Strategic Planning Meeting *Boca I*



# Conference Schedule

## PEOPLE | PASSION | PURPOSE

5:00pm - 5:30pm	Surveyors in Government Meet & Greet	<i>Boca II</i>
6:30pm - 7:00pm	Cocktail Reception	<i>Caribbean Foyer</i>
7:00pm - 10:00pm	Recognition Banquet (VIP Arm Band Req./ Bus. Casual)	<i>Caribbean IV</i>
10:00pm - 11:00pm	<b>President's Reception</b>	<i>Boca Foyer/Patio</i>
<b>Saturday, July 27<sup>th</sup></b>		
7:00am - 12:00pm	Conference Registration Desk Open	<i>Caribbean Reg East</i>
7:30am - 11:00am	Exhibit Hall Open	<i>Caribbean V - VII</i>
8:00am - 5:00pm	Certified Survey Technician (CST) Exam	<i>Hibiscus</i>
8:00am - 8:30am	Seminar Sign-In	<i>Boca I - IV</i>
<b>Saturday Tech Sessions (Registration Required)</b>		
8:30am - 3:10pm	Track I All Day Session Current Topics in Florida Surveying Laws & Rules 6 CEC Hours - Course #9670 Instructor: Panel Discussion	<i>Boca I</i>
8:00am - 10:10am	Track II Tier IA - 1st Session The New FPRN: A Top to Bottom Tour 2 CEC Hours - Course #9668 Instructor: Ron Hanson, PSM	<i>Boca II</i>
	Tier IB - 1st Session Municipal & County Govt. Survey and Platting Review 2 CEC Hours - Course #9667 Instructor: Richard Allen	<i>Boca III</i>
	Tier IC - 1st Session The History of Surveying 2 CEC Hours - Course #9673 Instructor Name: Mike Garcia, PSM	<i>Boca IV</i>
10:10am - 10:30am	Morning Break (All Sessions)	<i>Caribbean Foyer</i>
10:30am - 12:10pm	Track II Tier IIA - 2nd Session Survey Pro Class 2 CEC Hours—Course #9669 Instructor: Earl Soeder, PSM	<i>Boca II</i>
	Tier IIB - 2nd Session Professionalism & Ethics 2 CEC Hours - Course #8358 Instructor: Jack Breed, PSM	<i>Boca III</i>
	Tier IIC - 2nd Session Field Safety 2 CEC Hours - Course #9391 Instructor: Greg Prather, PSM	<i>Boca IV</i>
11:00am - 12:00pm	Exhibit Hall Breakdown	<i>Caribbean V - VII</i>
12:10pm - 1:30pm	Lunch ( <i>On Your Own</i> )	
1:30pm - 2:55pm	Track II Tier IIIA - 3rd Session The Surveyor and LiDAR Systems Technology 2 CEC Hours - Course #9672 Instructor: Mike Cook, Lead Applications Engineer	<i>Boca II</i>
	Tier IIIB - 3rd Session Building a GIS Practice from Surveying & Mapping 2 CEC Hours - Course #9671 Instructor: Sam Hall, PSM	<i>Boca III</i>
	Tier IIIC - 3rd Session Field Notes 2 CEC Hours - Course #9389 Instructor: James Godfrey, PSM	<i>Boca IV</i>
3:15pm - 5:00pm	Board Meeting	<i>Boca V</i>

# 64th Annual Conference Speakers & Bios

## Seminars

Wednesday, July 24th  
8:30 am - 3:00 pm

Seminar I



**Forensic Approaches to Evidence Discovery & Location Course  
#9663 - 6 CECs  
Don Wilson, PSM**

Proper techniques for the discovery, processing and preservation of a boundary scene, whether an entire land parcel, one boundary, one corner, or a related feature.

*Donald A. Wilson*, president of Land & Boundary Consultants, has been in practice for over 50 years, consulting to groups throughout the United States and Canada. He is both a licensed land surveyor and professional forester, having conducted more than 500 programs on a variety of topics, including description interpretation, boundary evidence, law, title problems, and forensic procedures.

Seminar II



**Minimum Standard Detail Requirements for ALTA/NSPS  
Land Title Surveys  
Course #9664 - 6 CEC's  
Gary Kent, PSM**

Standard Detail Requirements for ALTA/NSPS Land Title Surveys became effective in 2016, and the program presenter continues to field questions on the ALTA/NSPS Standards from across the country multiple times a week. These questions range from certification issues to research issues to dealing with atypical surveys and more.

This program will emphasize the most significant additions and modifications found in the 2016 standards in addition to addressing certification issues, dealing with lenders, the optional items of Table A, and the Relative Positional Precision measurement standard.

*Gary Kent* is in his 36<sup>th</sup> year with Schneider Geomatics in Indianapolis. He is a past-president of ACSM and ISPLS. From 1999-2006 he taught boundary law, legal descriptions, property surveying, and land survey systems for Purdue University. Gary has served on the Indiana State Board of Registration for Professional Surveyors since 2004 and is frequently sought as an expert witness in cases involving boundaries, easements, and survey standards. He has chaired both the NSPS and ALTA committees on the ALTA/NSPS Standards since 1995, and has presented programs in all 50 states and three times in Europe.

# 64th Annual Conference Speakers & Bios

## Seminars

Thursday, July 25th  
8:00 am - 10:30 am

### Seminar I



#### **Court Testimony & the Presentation of Forensic Evidence** **Course #9665 - 3 CECs** **Don Wilson, PSM**

An overview of judicial procedure, rules of court and rules of evidence, and the role of the expert witness. Emphasis is placed on the surveyor-attorney relationship and working with forensic evidence, including trace evidence, and cold cases.

*Donald A. Wilson*, president of Land & Boundary Consultants, has been in practice for over 50 years, consulting to groups throughout the United States and Canada. He is both a licensed land surveyor and professional forester, having conducted more than 500 programs on a variety of topics, including description interpretation, boundary evidence, law, title problems, and forensic procedures.

### Seminar II



#### **Sea Level, Tidal Date & Water Boundaries** **Course #9666 - 3 CEC's** **George M. Cole, PLS, PE, PhD**

This presentation will be based on a publication in development which will be a much updated version of the venerable WATER BOUNDARIES book (John Wiley & Sons, 1996) and will cover some interesting new twists.

The major topics will include the following: Sea Level Change, Tidal Variation and Datum Planes, Tidal Coastal Boundaries, Riparian and Littoral Boundaries, and Boundaries for Riparian and Littoral Rights.

*George M. Cole*, is a professional surveyor, engineer, and geographer. His background includes directing hydrographic and geodetic surveys as a commissioned officer of the U.S. Coast & Geodetic Survey (now NOAA); service as the State Cadastral Surveyor for Florida; as a private consultant directing private surveying and mapping operations in both the United States and Latin America; as a visiting professor at the University of Puerto Rico; and currently continues as an adjunct professor at the Florida State University and at the University of Puerto Rico. In addition, he has served as technical advisor to several states on boundary issues; and has provided expert testimony to a number of local, state and federal courts. Dr. Cole has also made significant contributions to professional literature and is the author of several surveying textbooks (with notable examples being *Water Boundaries*, John Wiley & Sons, *Surveyor Reference Manual*, Professional Publications, and *Land Tenure, Boundary Surveying and Cadastral Systems* (with Don Wilson), CRC Press).

# 64th Annual Conference Speakers & Bios

## Seminars

*Saturday, July 27th*  
*8:30 am - 3:10 pm*  
**Track I - All Day Course**

### **Current Topics in Florida Surveying Laws and Rules** **Course #9670 - 6 CECs - Panel Discussion**

This seminar is a panel-led exploration and discussion of laws, rules, and issues of timely relevance to Florida Surveyors

*Saturday, July 27th*  
*8:30 am - 10:10 am*  
**Track II - Tier I A-C**



#### **A) The New FPRN: A Top to Bottom Tour** **Course #9668 - 2 CECs / Ron Hanson, PSM**

This course will review, discuss and explain how to use the New Florida Permanent Reference Network (FPRN) web pages and customer portal.

Ronald "Ron" Hanson, PSM, is a Florida Professional Surveyor and Mapper. He is employed by the Florida Department of Transportation, Office of Transportation Technology, Civil Integrated Management Branch, Surveying and Mapping Bureau as the Florida Permanent Reference Network (FPRN) Manager. Ron has a survey career that spans 33 years with 19 years as a PSM. Ron was one of the first users of the FPRN to receive Real Time corrections. He has been managing the FPRN since January 1, 2013.



#### **B) Municipal and County Govt. Survey and Platting Review** **Course #9667 - 2 CECs / Richard Allen, PSM**

Overview of the review process from a government surveyor from subdivision platting and as-built surveys to other survey review. What do we see, what do we expect?

Richard Allen is a licensed surveyor and has over twenty years of survey experience, more than ten of which have been with the City of Orlando. He is the Survey Project Coordinator for the City of Orlando. Richard has a Bachelor's Degree in Business Management with additional coursework in GIS and surveying.



#### **C) The History of Surveying** **Course #9673 - 2 CECs / Mike Garcia, PSM**

Some of the more remarkable architectural achievements of ancient civilized societies would have never been possible without knowledge of basic surveying principles. The Great Pyramids of Egypt and the Roman Aqueducts exist, in part, as a testament to the surveyor's skill. Less obvious, but equally significant are the various concepts, tools, and methods established in the ancient and recent past that shape modern land surveying.

Mike Garcia, PSM, is a licensed Florida Professional Surveyor and Mapper. A native of Florida with over thirty seven years of experience, his diverse background includes Boundary and Topographic Surveys, Right of Way Mapping, Control Networks, GIS data applications, and Asset Management. Mr. Garcia has been employed by Seminole County Government for twenty six years and is currently a Program Manager with the County's Engineering Division. He is an active member of the Florida Surveying and Mapping Society and a Past President of the Central Florida Chapter.

# 64th Annual Conference Speakers & Bios

## Seminars

*Saturday, July 27th  
10:30 am - 12:10 pm  
Track II - Tier II A & B*

### **A) Survey Pro Class - Course #9669 - 2 CECs / Earl Soeder, PSM & Joe Binder**

Learn about what's new in Survey Pro: Gain a better understanding of receiver settings, robot controls, and the overall logic of the Survey Pro workflow. Also learn about the new licensing process for Windows10 devices – what does that mean for you? This class will be able to answer lingering questions you may have so be sure to get involved in the discussion.



Earl Soeder is a licensed Professional Surveyor & Mapper and Registered in Florida and has been surveying for 33 years. Earl has been deeply involved in many aspects of surveying from GPS/Hydrographic to Control Surveys. His unique experience led him to teaching surveying at University of Miami, Florida Atlantic University as well as community colleges throughout Florida. A member of FSMS (Florida Surveying and Mapping Society), he has given back to his profession through education and volunteering in many trade associations. Earl is well versed in all Trimble & Spectra products from Surveying/Engineering Systems to Mapping grade products.



After learning a few things about Economics at the University of Colorado, Boulder, Joe moved to California and began his career in the surveying industry in 1989 with a local dealer supporting Wild, Topcon and Trimble products. Moving back to Colorado in 1994, Joe began working for a manufacturer directly, Topcon, covering the Central US. After following an early path into Laser Scanning in 2000, Joe joined Tripod Data Systems in 2003 and has been responsible for the West and now East region since that time, enjoying the rapid and tremendous growth of TDS becoming Spectra Precision Survey, and now Spectra Geospatial, a division of Trimble.

### **B) Professionalism & Ethics - Course #8358 - 2 CECs Jack Breed PSM**

This course will introduce attendees to all aspects of professionalism and ethics. Surveyors and mappers need to know, understand, and execute the highest levels of professionalism and ethics. Attendees will learn tips and answers to solving ethical problems.



Mr. Breed's experience has encompassed all phases of infrastructure planning and development, in Surveying and Mapping, Engineering, Environmental Sciences, Planning, Design and Agency Permitting and Construction Management. His career has focused on Public Infrastructure projects and Education within his professions. He has provided complete project services, from program management to planning and design through permitting and construction for a diverse array of projects. As a Professional Surveyor and Mapper, he has been responsible for route/right-of-way, sectional retracement, boundary, construction, topographic, hydrographic and geodetic control surveys for roadways, electric transmission lines, transportation projects, land acquisition / conservation projects, watershed modeling, and commercial and residential developments. Mr. Breed's credentials as an Educator combined with his expertise in resolution of complex boundary and title problems has established him as an Expert Witness throughout the State of Florida, particularly in eminent domain proceedings and professional practices issues.

# 64th Annual Conference Speakers & Bios

## Seminars

*Saturday, July 27th  
10:30 am - 12:10 pm  
Track II - Tier II C*

**C) Field Safety**  
**Course #9391 - 2 CEC's**  
**Greg Prather, PSM**

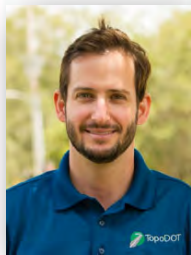


A dropped survey instrument can be replaced with next day shipping. Creating a trained survey industry worker takes months at minimum, and usually requires years. First aid courses teach you how to react once someone is already injured. In this course, we will discuss approaches to our daily work which reduce the possibility of injury proactively. We will review common apparent and hidden risks to surveyors, formal and informal job safety planning, and we will introduce the topic of safety enhancement through Human Performance tools and principles. The objective of this course is the improved defense of a surveying enterprise's most valuable asset – its people

Gregory A. Prather, PSM is the Vice President of Surveying and the Company Safety Officer for Pickett and Associates, Inc. Mr. Prather began his career with Pickett in 1983 and became a Florida Registered Surveyor in 1992. He became a company partner in 2003. Greg has extensive field and office experience with Trimble GPS software, receivers, and data collectors and is a hands-on leader. He has held several positions at the chapter level of FSMS and has served as a District 4 Director. He remains an active member of FSMS and sits on the Ethics and Professional Practice Committee.

*Saturday, July 27th  
1:30 pm - 3:10 pm  
Track II - Tier III A*

**A) The Surveyor and LiDAR System Technology**  
**Course #9672 - 2 CECs**  
**Mike Cook**



This course will explain lidar system technology with specific focus on the role of the traditional surveyor within the process. The course will provide a fundamental understanding of how to specify, assess, analyze and extract deliverable information from lidar system data.

Michael Cook has 10 years of experience in the LiDAR industry, long enough to be one of the originating team members for TopoDOT. Their primary product is TopoDOT®, a point cloud software solution to manage data and assess its quality and extract high quality topographies, assets, and 3D models from point clouds and images. Michael is also a part of the TopoLIFT™ family, a spin off from TopoDOT, which is an innovation in tripod platform technology to dramatically improve laser scanning productivity. Michael is a cross platform individual, a LiDAR Specialist by day and an Engineer by night. Michael holds a Bachelor of Science in Mechanical Engineering from the University of Central Florida.

# 64th Annual Conference Speakers & Bios

## Seminars

Saturday, July 27th  
1:30 pm - 3:10 pm  
Track II - Tier III B & C

### **B) Building a GIS Practice from a Foundation in Surveying and Mapping**

**Course #9671 - 2 CECs**

**Sam Hall, PSM**



With our specific skills centered on accurate and timely data collection, analysis, and map production, it's only natural for licensed survey professionals to bring the benefit of our expertise to clients in growing GIS markets. Implementing a plan to access these markets can be challenging, and leveraging that skill set to the benefit of new applications can be intimidating. The course will focus on the defining the role of the surveyor in the GIS marketplace; provide an examination of geospatial/GIS markets and those market's projected growth; hiring for success; and discuss how a firm foot print in traditional surveying, LiDAR, data collection, and analysis can be used to build a GIS practice at a traditional surveying firm.

Sam Hall, PSM, currently serves as Vice President at WGI, a Florida-based multidiscipline engineering and consulting firm. His 20 years of experience have included a wide variety of professional assignments supporting various public and private sector clients including various Departments of Transportation, the US Army Corps of Engineers, Florida's Water Management Districts, and the Department of the Interior's National Parks Service. He has served as an instructor for numerous seminars and workshops for FSMS, FES, and the GISCI.

### **C) Field Notes**

**Course #9389 - 2 CECs**

**James Godfrey, PSM**



This course will cover the basic fundamentals of collecting field notes on a survey project, why field notes are important, and what should be included in survey field notes. Also covered will be the different sources of errors that can occur in our field measurements and how to avoid these errors using checks we can make before we leave the field.

Mr. Godfrey's 40 year surveying career includes performing surveys for Federal, State, County, and private sector clients. He is licensed in 5 southern states, including Florida, with over 30 years as a licensed surveyor. For the past 14 years, Mr. Godfrey has served as adjunct professor in the college of engineering at University of South Florida where he instructs engineering students in surveying principles used in engineering. He currently serves as the branch manager for Cardno's Tampa office overseeing the SUE and survey groups and has been an active member in the Tampa Chapter of FSMS for over 25 years.



PRESENTS

# ANNUAL 64<sup>th</sup> FSMS CONFERENCE

PEOPLE • PASSION • PURPOSE



## WELCOME BBQ

WED | JUL 24  
6PM-10PM  
CARIBE ROYALE  
CARIBBEAN BALLROOMS

**ENTRANCE INCLUDED**  
WITH CONFERENCE PACKET 1,  
OR \$45/PERSON IN ADVANCE  
AND \$50/PERSON AT THE DOOR

### CORNHOLE TOURNAMENT

COST PER TEAM: \$40

**BE THE FIRST CORNHOLE TEAM**  
TO HAVE YOUR NAME ADDED TO  
THE NEW FSMS TOURNAMENT  
TROPHY BOARDS!

The Cornhole Tournament  
Sponsorship is still available for \$1000



### CALL FOR COOKS!


Meat will be provided at no cost  
to the cooks and there  
will be a judged competition.  
Cooks need to email [aquickel@drmp.com](mailto:aquickel@drmp.com)  
with their contact information by May 27





Thursday, July 25th  
Topgolf Orlando - 9295 Universal Blvd, Orlando, FL 32819

# FSMS Topgolf Tournament

Sponsored By 

**Cost** –\$125/person; \$700/team (6)

## Tournament Itinerary

11:00am – Bus Departs Caribe Royale

11:30am–12:30pm – Lunch in Signature Room  
–Includes boxed lunch  
–2 drink tickets

12:30pm–3:30pm – Golf Tournament  
–Up to 6 people per team

3:40pm – Bus Departs Topgolf

## Sponsorship Opportunities

**\$2,500** Topgolf Tournament Networking  
Event Sponsor  
*Include 1 team (6 person) registration*

**\$1,500** Topgolf Beverage Sponsor 

**\$750** Topgolf Lunch Sponsor

**\$750** Topgolf Transportation Sponsor

**\$250** Topgolf Bay Sponsors



# Recognition Banquet

## Reserve Table Request

Friday, July 26th

7:30 p.m.—10:00 p.m.



***Banquet Hall layout on second page. Call 850-942-1900 to see which tables are still available.***

Numbers of Table(s) Requested \_\_\_\_\_ @ \$100 per table = \$ \_\_\_\_\_  
(10 seats per table)

Organization \_\_\_\_\_ Name \_\_\_\_\_

Email \_\_\_\_\_ Phone \_\_\_\_\_

**Mail this form with a check to: FSMS, P.O. Box 850001-243, Orlando, FL 32885**

*Alternatively, you can pay online with a card at [www.fsms.org](http://www.fsms.org).*



64<sup>th</sup> Annual FSMS Conference

**Conference Registration**

July 24<sup>th</sup> – July 27<sup>th</sup>, 2019

Caribe Royale All-Suites Hotel & Convention Center

8101 World Center Dr., Orlando, FL 32821

Name \_\_\_\_\_ PSM # \_\_\_\_\_

**Packet 1 – Full Registration/Best Value**

Member	\$300
Member (After June 25 <sup>th</sup> )	\$400
Licensed Non-Member	\$420
Non-licensed	\$290
<b>(Includes one (1) Wednesday Barbecue ticket, one (1) Friday Exhibitors' Lunch ticket, one (1) Friday Recognition Banquet ticket, six (6) Saturday Seminar CECs/all course materials)</b>	

**Packet 2 – Partial Registration**

Member	\$270
Member (After June 25 <sup>th</sup> )	\$330
Licensed Non-Member	\$360
Non-Licensed	\$250
<b>(Includes one (1) Friday Exhibitors' Lunch ticket, one (1) Recognition Banquet Ticket, six (6) Saturday Seminar CECs/all course materials)</b>	

**Packet 3 – Saturday Only**

Member	\$150
Member (after June 25 <sup>th</sup> )	\$160
Licensed Non-Member	\$180
Non-licensed	\$100

**(Includes six (6) Saturday Seminar CECs and all course materials)**

**Saturday Seminars**

*Indicate below each seminar you will be attending – please circle only ONE course per tier. You do NOT have to pick a course in the same color.*

Track I 8:30 am – 3:10pm (ALL DAY COURSE)		
Course name: <b>Current Topics in Florida Surveying Laws and Rules – 2019</b> (6 CEC's - Course #9670)  Instructor: Panel		
Track II		
Tier I Courses (8:30 am–10:10 am)	Tier II Courses (10:30 am – 12:10 pm)	Tier III Courses (1:30 pm – 3:10 pm)
a Course name: <b>The New FPRN: A Top to Bottom Tour</b> (2 CEC - Course #9668)  Instructors: Ron Hanson, PSM	Course name: <b>Survey Pro Class</b> (2 CEC – Course #9669)  Instructor: Earl Soeder, PSM	Course name: <b>The Surveyor and LiDAR System Technology</b> (2 CEC - Course #9672)  Instructor: TBD
b Course name: <b>Municipal and County Government Survey and Platting Review</b> (2 CEC - Course #9667)  Instructor: Richard Allen, PSM	Course name: <b>Professionalism &amp; Ethics</b> (2 CEC - Course #8358)  Instructor: Jack Breed, PSM	Course name: <b>Building a GIS Practice from a Foundation in Surveying and Mapping</b> (2 CEC - Course #9671)  Instructor: Sam Hall, PSM
c Course name: <b>The History of Surveying</b> (2 CEC – Course #9673)  Instructor: Mike Garcia, PSM	Course name: <b>Field Safety</b> (2 CEC – Course #9391)  Instructor: Greg Prather, PSM	Course name: <b>Field Notes</b> (2 CEC - Course #9389)  Instructor: James Godfrey, PSM

**Cancellation Policy:**

30 days prior to conference: 50% refund  
 Less than 30 days to conference: No refund



64<sup>th</sup> Annual FSMS Conference

## ***Additional Seminar Offerings***

### **Wednesday Seminar (Separate Registration Required)**

**July 24, 2019**

**8:30 am – 3:00 pm**

**ONLY CHOOSE ONE**

#### **Seminar I:**

**Forensic Approaches to Evidence Discovery & Location**

(6 CEC's Course #9663)

Instructor:

**Don Wilson, PSM**

#### **Seminar II:**

**Minimum Standard Detail Requirements for ALTA/NSPS Land Title Surveys**

(6 CEC's Course #9664)

Instructor:

**Gary Kent, PSM**

### **Thursday Seminar (Separate Registration Required)**

**July 25, 2019**

**8:00 am – 10:30 am**

**ONLY CHOOSE ONE**

#### **Seminar I:**

**Court Testimony & the Presentation of Forensic Evidence**

(3 CEC's Course #9665)

Instructors:

**Don Wilson, PSM**

#### **Seminar II:**

**Sea Level, Tidal Data & Water Boundaries**

(3 CEC's Course #9666)

Instructor:

**George Cole, PSM**

***Complete payment information on the following page of the registration form.***

#### ***Cancellation Policy:***

*30 days prior to conference: 50% refund  
Less than 30 days to conference: No refund*



# 64<sup>th</sup> Annual FSMS Conference

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

Guest Name(s): \_\_\_\_\_

Emergency Contact (Print Name): \_\_\_\_\_ Emergency Phone: \_\_\_\_\_

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

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

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

## PACKET SELECTION\*

**ATTENTION:** Government employees receive a \$100 discount when registering for a Packet 1

*\*See first page for packet prices*

PACKET 1 \$ \_\_\_\_\_

PACKET 2 \$ \_\_\_\_\_

PACKET 3 \$ \_\_\_\_\_

## ADDITIONAL SEMINARS (ONLY SELECT ONE PER DAY)

Wednesday Seminar I \$195 \$ \_\_\_\_\_

Wednesday Seminar II \$195 \$ \_\_\_\_\_

Thursday Seminar I \$90 \$ \_\_\_\_\_

Thursday Seminar II \$90 \$ \_\_\_\_\_

## TOP GOLF

THURSDAY 11 am – 4 pm \$ \_\_\_\_\_

\$125 individual \$ \_\_\_\_\_

\$700 team (6 players, list players below) \$ \_\_\_\_\_

## ADDITIONAL TICKETS

*Individuals who bought a packet can purchase additional tickets at the lesser rate. Those who did not buy a packet must pay the "At Conference" rate.*

### A. WEDNESDAY BARBECUE

Individual Event:  
\$45 (x) \_\_\_\_\_ \$ \_\_\_\_\_  
\$50 (at conference) (x) \_\_\_\_\_

### B. THURSDAY Legislative Reception

*(no cancellations unless replacement found)*  
\$100 (x) \_\_\_\_\_ \$ \_\_\_\_\_

### C. FRIDAY EXHIBITORS' LUNCH

*Ticket required to receive food*  
Individual Event:  
\$40 (x) \_\_\_\_\_ \$ \_\_\_\_\_  
\$50 (at conference) (x) \_\_\_\_\_

### D. RECOGNITION BANQUET

Individual Event:  
\$80 (x) \_\_\_\_\_ \$ \_\_\_\_\_  
\$90 (at conference) (x) \_\_\_\_\_  
Number of vegetarian \_\_\_\_\_

### E. RECOGNITION BANQUET

**DINNER CHILD'S MEAL**  
(12 and under)  
\$20 (x) \_\_\_\_\_ \$ \_\_\_\_\_

1)	2)	3)
4)	5)	6)

**Payment must accompany registration form.**

**TOTAL ENCLOSED \$ \_\_\_\_\_**

*Please drink responsibly at all functions.*

**Payment Information:** \_\_\_\_\_ Check Enclosed (Make Payable to FSMS) \_\_\_\_\_ VISA/MasterCard/AE

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

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

**IF PAYING BY CHECK, MAIL FORM TO: FSMS, P.O. Box 850001-243, Orlando, Florida 32885**  
**IF PAYING BY CREDIT CARD, FAX OR EMAIL FORM TO: 850.877.4852 or education@fsms.org**  
**Questions? Call us at 850-942-1900**

### **Cancellation Policy:**

*30 days prior to conference: 50% refund*  
*Less than 30 days to conference: No refund*



# TopoDOT®

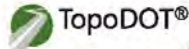
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# GeoNetworking

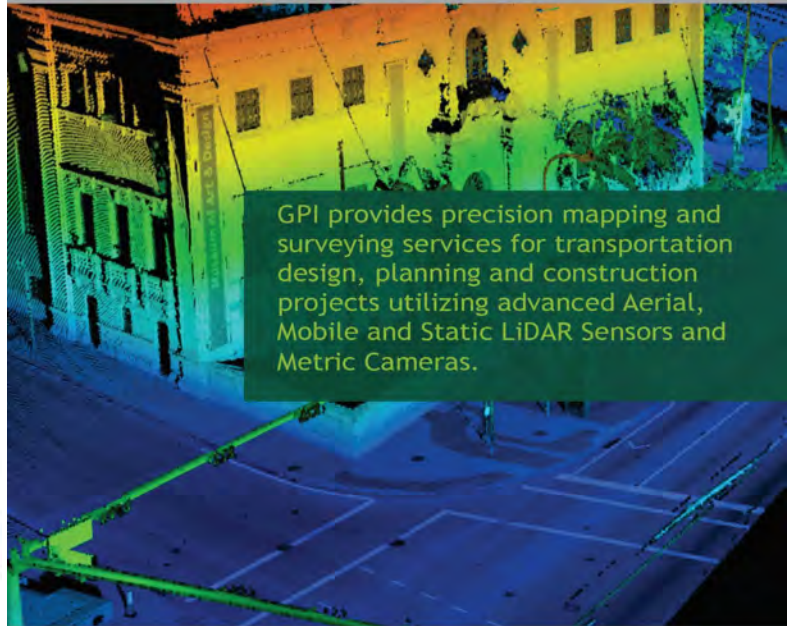
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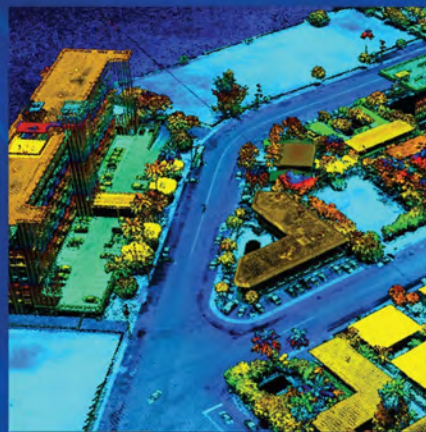
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# 2019 eLearning Courses



Basics of Real Property Course #8380 (3 General CEC)

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



Boundaries in Florida Course #8255 (6 SOP/L&R CEC)

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



Contracts for the Professional Course #8412 (3 General CEC)

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



Elevation Certificates and the Community Rating System Course #8256 (3 General CEC)

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



Ethics for the Design Professional Course #8621 (6 General CEC)

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



Florida Laws Course #7149 (6 SOP/L&R CEC)

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



Professional Ethics and Professional Courses FULL Video Course #8363 (6 General CEC)

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



Georgia Technical Standards for Property Surveys Course #8554 (6 General CEC)

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



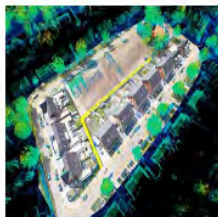
History of Surveying Course #7140 (6 General CEC)

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



Identification of Native and Non-Native Trees in Florida Course #8132 (6 General CEC)

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



Introduction to Photogrammetry Course #7968 (3 General CEC)

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



Land Tenure and Cadastral Systems Course #8260 (6 General CEC)

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



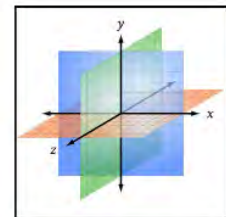
Map Projections and Plane Coordinate Systems Course #8261 (6 General CEC)

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



Mean High Water Observations & Computations Course #8262 (6 General CEC)

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



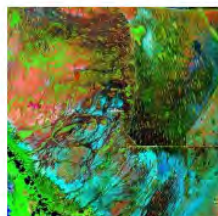
Practical Geometry for Surveyors Course #7141 (6 General CEC)

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Public Land Survey System Course #7147 (6 General CEC)

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Remote Sensing Applications to Surveying & Mapping Course #7148 (6 General CEC)

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Writing Boundary Descriptions Course #8362 (3 General CEC)

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# FSMS Correspondence Courses

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## Step 1: Choose Course(s)

### 3 Hour Courses Available

- A History of the Prime Meridian Marker, #8403, 3 CEC**
- Basics of Real Property, #8359, 3 CEC**
- Contracts for the Professional, #8411, 3 CEC**
- Digital Signatures for Surveyors, #8491, 3 CEC**
- Elevation Certificates and the Community Rating System, #8257, 3 CEC**
- Introduction to Photogrammetry, #7887, 3 CEC**
- Quality Assurance/Quality Control for the Design Professional and Technical Staff, #9293, 3 CEC**
- Writing Boundary Descriptions, #8361, 3 CEC**

### 6 Hour Courses Available

- Boundaries in Florida, #7667, 6 CEC**
- Chapter 177, Platting (Plat Law), #6970, 6 CEC**
- Client Satisfaction Excellence for Surveying and Mapping Professionals, #7229, 6 CEC**
- Critical Communication for Surveying & Mapping Professionals, #7228, 6 CEC**
- Ethics for the Design Professional, #8620, 6 CEC**
- Florida Laws, #6966, 6 CEC**
- Florida Surveying Law and Rule Changes, #9573, 6 CEC**
- Georgia Technical Standards for Property Surveys, #8553, 6 CEC**
- Geographic Information Systems (GIS), #7107, 6 CEC**
- History of Surveying, #7108, 6 CEC**
- Identification of Native and Non-Native Trees in Florida, #7874, 6 CEC**
- Land Tenure and Cadastral Systems, #7829, 6 CEC**
- Map Projections and Plane Coordinate Systems, #7669, 6 CEC**
- Mean High Water Observations and Computations, #8220, 6 CEC**
- Practical Geometry for Surveyors, #7109, 6 CEC**
- Public Land Survey System, #6979, 6 CEC**
- Remote Sensing Applications to Surveying & Mapping, #6972, 6 CEC**
- Stress Management for Surveyors & Mappers: How to be Productive Under Pressure, #6902, 6 CEC, ONLY AVAILABLE BY MAIL**
- Time Management for Surveyors & Mappers: How to be Productive & Exercise Time Mastery in a Hectic World, #6901, 6 CEC, ONLY AVAILABLE BY MAIL**

## Step 2: Choose Member Type

**FSMS Member**

<i>EMAILED</i>	Fee	Quantity	Amount
6 CEC	\$115 Per Course	x _____ =	\$ _____
3 CEC	\$58 Per Course	x _____ =	\$ _____
<i>MAILED</i>			
6 CEC	\$125 Per Course	x _____ =	\$ _____
3 CEC	\$68 Per Course	x _____ =	\$ _____
<b>TOTAL</b>			\$ _____

**Non-Member**

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

**Non-Licensed in ANY State**

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

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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

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

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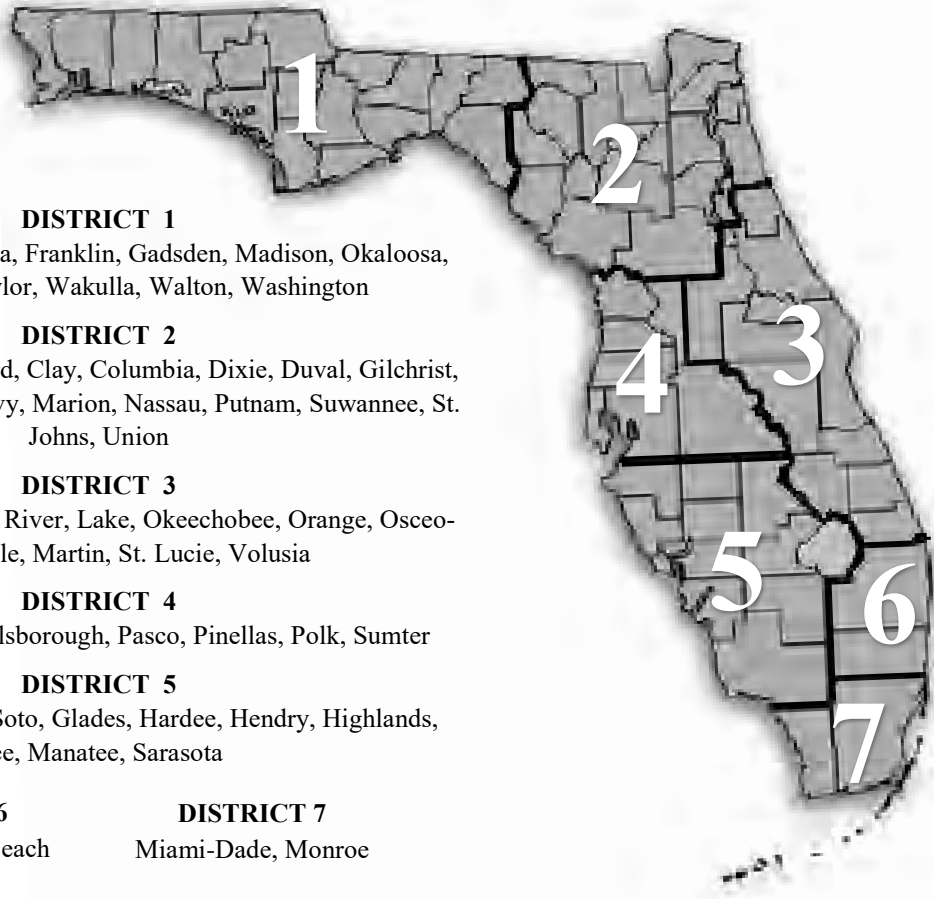
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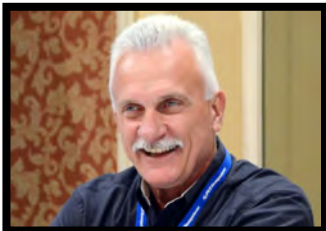
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Surveyors in Government	Richard Allen
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Young Surveyor's Network	Britney Powell

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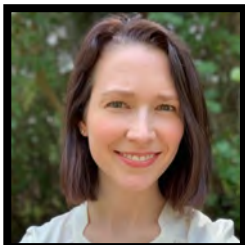
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Education Director  
education@fsms.org

**Laura Levine**



Communications Director  
communications@fsms.org

**Cathy Campanile**



Regional Coordinator  
seminolecc84@gmail.org

## Tom's Tip of the Month

### *The 12 Laws of Karma*

*Click on the picture below to view the video!*



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.

## 2019 Sustaining Firms

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Agnoli, Barber & Brundage, Inc.	239-597-3111	Craven-Thompson & Associates, Inc.	954-739-6400
AIM Engineering & Surveying, Inc.	239-332-4569	Cross Surveying, LLC	941-748-8340
Allen & Company, Inc.	407-654-5355	Culpepper & Terpening Inc.	772-464-3537
Allen Engineering, Inc.	321-783-7443	Cumbey & Fair, Inc.	727-324-1070
AM Engineering, Inc.	941-377-9178	Dagostino & Wood, Inc.	239-352-6085
American Consulting Professionals, LLC	813-435-2600	Dennis J. Leavy & Associates	561-753-0650
American Surveying, Inc.	813-234-0103	DMK Associates, Inc.	941-475-6596
Amerritt, Inc.	813-221-5200	Donald W. McIntosh Associates, Inc.	407-644-4068
Arc Surveying & Mapping, Inc.	904-384-8377	Donoghue Construction Layout, LLC	321-248-7979
Associated Land Surveying & Mapping, Inc.	407-869-5002	Douglass, Leavy & Associates, Inc.	954-344-7994
Avirom & Associates, Inc.	561-392-2594	DRMP, Inc.	407-896-0594
Axis Geospatial SE, LLC	386-439-4848	DSW Surveying & Mapping, PLC	352-735-3796
Banks Engineering	239-939-5490	Durden Surveying and Mapping, Inc.	904-853-6822
Barnes, Ferland and Associates, Inc	407 896-8608	E.F. Gaines Surveying Services, Inc.	239-418-0126
Barraco & Associates, Inc.	239-461-3170	Echezabal & Associates, Inc.	813-933-2505
Bartram Trail Surveying, Inc.	904-284-2224	ECHO UES, Inc.	888-778-3246
BBLS Surveyors, Inc.	239-597-1315	Eda Engineers-Surveyors-Planners, Inc.	352-373-3541
Bello & Bello Land Surveying Corporation	305 251-9606	Eiland & Associates, Inc.	904-272-1000
Benchmark Surveying & Land Planning, Inc.	850-994-4882	Element Engineering Group, LLC	813-386-2101
Berntsen International	608-443-2773	Engenuity Group, Inc.	561-655-1151
Beta Company Surveying, Inc.	941-751-6016	Engineering Design & Construction, Inc.	772-462-2455
Betsy Lindsay, Inc.	772-286-5753	England, Thims & Miller, Inc.	904-642-8990
Biscayne Engineering Company, Inc.	305-324-7671	ER Brownell & Associates, Inc.	305-860-3866
Boatwright and Durden Land Surveyors, Inc.	904-241-8550	ESP Associates FL, Inc	813-295-9024
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Brown & Phillips, Inc.	561-615-3988	First Choice Surveying, Inc.	407-951-3425
BSE Consultants, Inc.	321-725-3674	Florida Design Consultant, Inc.	727-849-7588
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Hole Montes, Inc.	239-254-2000	Platinum Surveying & Mapping, LLC	863-904-4699
Honeycutt & Associates, Inc.	321-267-6233	Point Break Surveying, LLC	941-378-4797
Hutchinson, Moore & Rauch, LLC	251-626-2626	Point to Point Land Surveyors, Inc.	678-565-4440
Hyatt Survey Services, Inc.	941-748-4693	Polaris Associates, Inc.	727-461-6113
I.F. Rooks & Associates, LLC	813-752-2113	Porter Geographical Positioning & Surveying, Inc.	863-853-1496
Inframap Corporation	804-550-2937	Pulice Land Surveyors, Inc.	954-572-1777
John Ibarra & Associates, Inc.	305-262-0400	Q Grady Minor & Associates, PA	239-947-1144
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Kendrick Land Surveying	863-533-4874	Rhodes & Rhodes Land Surveying, Inc.	239-405-8166
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Leading Edge Land Services, Inc.	407-351-6730	Rogers, Gunter, Vaughn Insurance, Inc. (HUB Florida)	850-386-1111
Leiter Perez & Associates, Inc.	305-652-5133	S&ME, INC.	407-975-1273
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Ludovici & Orange Consulting Engineers, Inc.	305-448-1600	Settimio Consulting Services	850-341-0507
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Marco Surveying & Mapping, LLC	239-389-0026	Sherco, Inc.	863-453-4113
Maser Consulting, P.A.	813-207-1061	Sliger & Associates, Inc.	386-761-5385
Massey-Richards Surveying & Mapping, LLC	305-853-0066	Southeastern Surveying & Mapping Corporation	407-292-8580
Masteller, Moler & Taylor, Inc.	772-564-8050	Stephen H. Gibbs Land Surveyors, Inc.	954-923-7666
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McLaughlin Engineering, Co.	954-763-7611	Strayer Surveying & Mapping, Inc.	941-497-1290
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Pennoni Associates, Inc.	215-222-3000		

# Additional Information

## Upcoming Events

**June 8, 2019**  
Collier-Lee Annual Golf Tournament  
*Estero*

**June 20, 2019**  
Group Rate for Conference Hotel ends  
*The Caribe Royale*

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