



GEORGIA LAND SURVEYOR

WINTER 2021

2022 TECHNICAL SEMINAR INFORMATION ENCLOSED!

General Info, Agenda & Registration Form | 19



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IN THIS ISSUE

NEWSLETTER

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Address all correspondence regarding advertising, letters to the editor, and exchange of newsletters to:
Editor, the Georgia Land Surveyor,
P.O. Box 1113,
LaGrange, GA 30241
and email ginger_samsog@att.net

Editor: Ginger Jones
Assistant Editors:
Sarah Wang, swang@egps.net
Josh Stice, joshua.stice@dawood.net

SOCIETY OFFICERS

President: Grant Shepherd, Jr., PLS
Vice President: Teeple Hill, PLS
Secretary-Treasurer: Dean Olson, PLS
Immediate Past President:
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Robert Armstrong, PLS
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DIRECTORS FOR 2021-2023

Steve Coleman, PLS
David May, PLS
Phillip Roberts, PLS
Wesley Weitman, PLS
Chris Young, PLS

SOCIETY OFFICE

Address correspondence to:
Surveying and Mapping Society of
Georgia, Mrs. Ginger Walker Jones,
Executive Director,
P.O. Box 1113,
LaGrange, GA 30241
Telephone: 770-947-1767
Email: ginger_samsog@att.net
Website: samsog.org

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TECHNICAL SEMINAR
REGISTRATION IS OPEN ONLINE!
AVAILABLE UNTIL 1/7/2022.

CHAPTER REPRESENTATIVES

Allatoona
Clark Tompkins, PLS
ctompkins@croymengineering.com

Appalachian
Jonathan Rolader, PLS
asc@phobia.net

Atlanta
Josh Lewis, III, PLS
josh.lewis.iii@glssurvey.com

Augusta
John Attaway, PLS
jattaway@cranstonengineering.com

Central
VACANT

Coastal/Savannah
Craig Brewer, PLS
craig@brewersurvey.com

Etowah
VACANT

Foothills
Ron Wickle, PLS
ron@wikleandsurveying.com
Georgia Southern University
Connor Cantrell
cc14619@georgiasouthern.edu

Golden Isles
Peter Durand
peterdurand@bellsouth.net

Gwinnett
Patrick Carey, PLS
patrick@keystonelandssurveying.com

Muscogee
Chad Carpenter, PLS
cwcpls2979@gmail.com

Northwest
David Glass, PLS
dglass1@bellsouth.net

Piedmont
Pat Harris, PLS
1270pat@gmail.com

South Central
VACANT

Southern Crescent
Kevin Brown, PLS
kbrown@fdc-llc.com

KSU Chapter Sponsor
Dan Branham, PLS
dbranha2@kennesaw.edu



2021 SCHOLARSHIP RECIPIENTS

REGIONAL \$3,000 WINNERS



Francis Burton Blackmar II

*Geospatial with Surveying Certificate -
Kennesaw State University*

"I am most grateful to SAMSEF for supporting students in land surveying. The scholarship is an immense encouragement to pursue a career in the field."

I am delighted for the Surveying and Mapping Society Education Foundation to have chosen me as a recipient for the regional scholarship. It means more to me than you could imagine. I am currently enrolled in two surveying classes, and as they are relevant to the surveying certificate, I am excited to continue taking them. I am looking forward to becoming a registered land surveyor and being able to join as more than a student. Thank you again for your generosity; it will be properly used toward college."

Hunter Robert Hale

Land Surveying - Great Basin College

"I am honored and thankful to receive such a blessing as this scholarship. Thank you for helping me pursue and achieve a career in land surveying."





Yianni Anastasios Costarides

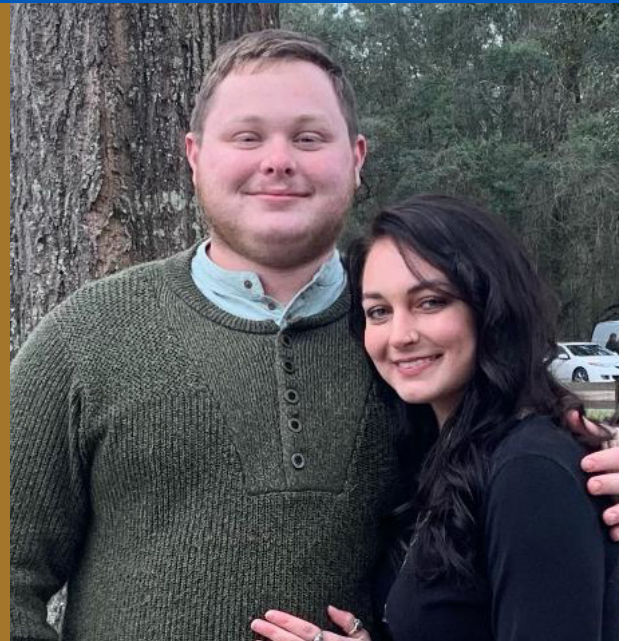
Civil Engineering - Kennesaw State University

"I enjoy surveying because it helps clear my mind while being productive."

Joseph "Joey" Bradley Doran Jr.

Civil Engineering - Kennesaw State University

"This scholarship has greatly helped me in my personal and student life. By freeing up funds I had previously dedicated to paying my tuition, I have been able to ease back on the amount of overtime I was working and turn my focus to ensuring my grades are as high as I can achieve."



Logan C. Brown

Geospatial Science with Concentration in Surveying - Kennesaw State University

\$3,000 Regional Scholarship winner Joshua Pawel Teague, University of North Georgia is pursuing a Geospatial Bachelor's degree. Photo and quote not submitted.

TECHNICAL SCHOLARSHIP WINNERS

\$500 PER SEMESTER

Gabriel Pierce

Surveying Certificate - University of North Georgia

"I am deeply honored to be one of this year's SAMSOG Education Foundation scholarship recipients. Through the generosity of society members and the trust of the selection committee, both of which I am eternally grateful for, I have been afforded the opportunity to obtain a formal land surveying education at a much less burdensome cost. I hope to one day be able to help prospective land surveyors achieve their goals, just as the SAMSOG Education Foundation is helping me achieve mine. Thank you!"



Shane Lee Rousey

Surveying Certificate - Georgia Southern University

"I am very grateful to be a recipient of the SAMSEF Technical Scholarship. Many other scholarships are specifically dedicated to students that are pursuing a college degree. This scholarship will benefit many non-traditional students such as myself who are interested in getting the required curriculum as determined by the State Board to get registered."

Dillon Mitchell Hamilton

Surveying Certificate - University of Maine

"The scholarship helped me pay for the current semester at University of Maine. School is going great and love learning new things. Can't wait to see what the future of surveying holds!"



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Mural Restoration Honoring Andrew Ellicott and Benjamin Banneker Dedicated to Chas Langelan

This mural shows Andrew Ellicott and Benjamin Banneker Surveying the Boundaries of Washington, DC. The Banneker-Douglass Museum in Annapolis, Maryland, is currently in the process of preparing this mural for display in the foyer of the museum. The unveiling of the mural is scheduled to take place on Feb. 5, 2022. You are invited to be part of this historic event. Over the next few months, a campaign to fund this project is being conducted by the museum to conserve, mount, frame and display this historic mural at the Banneker-Douglass Museum. Your immediate contribution to the success of this project is critically important.

49th Anniversary of the Enactment of the ‘Brooks Act’ Celebrated

It was on October 27, 1972, that President Richard Nixon signed the “Brooks Act” into law, Public Law 92-582. This law provides for qualification-based selection (QBS) for Federal contracts for architectural, engineering, and related services, such as surveying and mapping. More than 45 states have since enacted “mini-Brooks Acts” for state, and in some cases, local government contracts. The Federal law has also been extended to several programs providing grants, loans, and other assistance, including programs for highways, transit, airports, dams, water/wastewater, and others. The Brooks Act QBS process is also in the American Bar Association Model Procurement Code for State and Local Government. NSPS is a member of the Council on Federal Procurement of Architectural and Engineering Services (COFPAES), a watchdog and advocacy coalition that works to preserve, protect, defend, and promote the Brooks Act and QBS for A&E services.

President Biden Nominates 5TH FCC Commissioner; Ligado Order at Stake

President Biden last week announced that he will appoint Acting Chairwoman Jessica Rosenworcel a full-term Chair of the Federal Communications Commission (FCC) and nominate Gigi Sohn as a commissioner. Sohn is a longtime telecom lawyer and consumer advocate with decades of experience in Washington. Sohn’s nomination and Rosenworcel’s appointment fill out the FCC, which currently has two Republican commissioners and two Democrats, rendering it politically hamstrung in many instances. Among the issues that may come before the FCC is a review of its conditional approval of Ligado’s application to deploy a low-power terrestrial nationwide network in the L-band to support 5G and Internet of Things services (IoT) that various stakeholders, including the U.S. Department of Defense (DoD), the GPS Innovation Alliance (GPSIA) of which NSPS is a member, and others who fear such a network could negatively interfere with Global Positioning System (GPS) receivers.

2021 NSPS Map Competition Winners

NSPS is pleased to announce the winners of the 2021 Map/Plat Design Competition and expresses its appreciation for all who participated.

There were a total of 67 entries.

Topographic Maps (13 Entries)

1st Place

Ralph Clements
Gay and Neel
Virginia

2nd Place

Kayce D. W. Keane
Boulder Land Consultants
Colorado

3rd Place

Chris Patton
Patton Land Surveying
Georgia



Mural Restoration Honoring Andrew Ellicott and Benjamin Banneker Dedicated to Chas Langelan

This mural shows Andrew Ellicott & Benjamin Banneker Surveying the Boundaries of Washington, DC.



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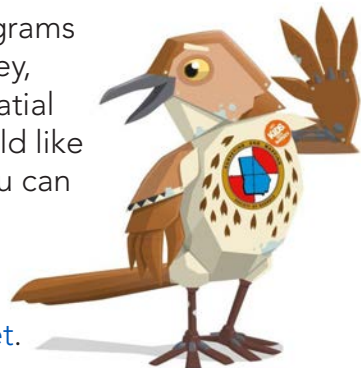
To learn about the project, its mission, the history of the mural, Benjamin Banneker, Andrew Ellicott, Chas Langelan and the Banneker-Douglass Museum (BDM) in Annapolis, Maryland, please read the accompanying Banneker-Douglass Museum Mural Project Description.

Also in the Banneker-Douglass Museum Mural Project Description you can learn how to contribute to this project either by giving a donation through the museum's website or by sending a check to the museum. Either way, please indicate your gift is for the "Ellicott-Banneker Mural." We want to be sure the name of everyone who contributes to this project is shown on our donor display. To help with that, please send a quick email to lornament@comcast.net at the time of your contribution. No need to include the amount.

Thank you so much for being a part of this extraordinary project to honor these individuals and the profession of surveying while supporting a vital museum.



SAMSOG Executive Director, Ginger Jones attended the Georgia School Counselors Association meeting November 3-5, 2021. More than 700 Counselors attended the 3-day meeting where SAMSOG rented a booth to distribute information about the Land Survey Profession. The mission of the Georgia School Counselor Association is to represent, promote and enhance professional school counseling in Georgia to create improved outcomes for all students. SAMSOG is investing time and money to attract students to the Land Survey profession as a way of assisting Counselors to create improved outcomes. Networking and exhibiting are just two ways SAMSOG is working towards accomplishing this goal. School Counselors will be invited to attend a special session presented by Georgia Southern University and the University of North Georgia at the 2022 Technical Seminar to hear about the opportunities and programs they offer in Land Survey, Geomatics and Geospatial Technology. If you would like information on how you can help, call or email Ginger Jones at 770-947-1767 or ginger_samsog@att.net.



SAMSOG SWAG!

Show your Land Surveyor and SAMSOG pride with logo merchandise from our online store at www.samsog.org just in time for Christmas!



Land Surveyor's Heartbeat T-Shirt \$20 each

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Front Mount License Plate \$15 each

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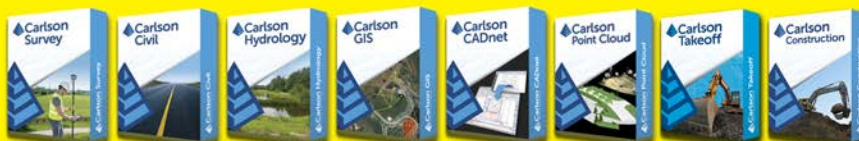
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Women in surveying: How empowering women will empower the profession

Prepared by Trent J. Keenan, PLS, Anna Rios, RPLS & Kristina Poulter



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www.NvLandSurveyors.org/nevada_traverse.html

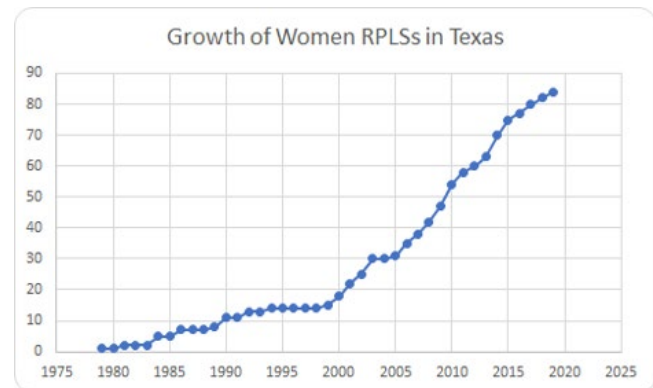
An abstract of The Geoholics Podcast Episode #83 and Mentoring Mondays Week #36

In any given state across the USA, women surveyors account for approximately 3% of the surveying workforce.

Given that small percentage, it's hard to believe that the number of women surveyors has skyrocketed in most states since 2000.

Anna Rios, RPLS, is the Owner of Aerios Geo LLC. She's also the founder and president of the Women Surveyors Summit.

Today, she's on a mission to provide female surveyors with the support system, network, and mentorship opportunities that she wished she'd had when she started surveying two decades ago.



A woman's path to surveying

Anna began surveying 20 years ago by accident when a temp agency placed her in a secretary role at a surveying company. By chance, the company was owned by a unique individual: the first registered female surveyor in the state of Texas.

Anna quickly fell in love with the profession and pursued a degree at Austin Community College. Unfortunately, it was a rocky road, with her degree program almost canceled due to low enrollment.

What inspired her to stay the course was connecting with other women.

"There weren't very many women in the profession at that time, and there still aren't enough," Anna said. "Oftentimes, you're the only woman in a room full of men that are surveyors - or in the field, or in an office."

Her good fortune led her to work under another woman surveyor after obtaining her degree. That company paid for her to become a member of the Texas Society of Professional Surveyors.

Soon after joining, she was nominated as secretary-treasurer for her local chapter, followed by the role of president, followed by an additional role as the Texas representative for the NSPS Young Surveyors Network. She eagerly embraced each new opportunity.

All this time, apart from the two women surveyors she had worked under, Anna was surrounded by male surveyor's day in and day out. Then, in 2016, Anna had attended the Young Surveyors Conference and met several women surveyors from Minnesota.

"I finally felt connected and accepted as a surveyor, not just this one woman in the room. And I had been in the profession for 15 years at that point," Anna said. "Being in the profession for that long and never really feeling you knew where you fit in - it can be frustrating. You can be unsure of what you're doing. You can think about changing your mind over and over again, questioning if you're even in the right place."

The experience of connecting with fellow female surveyors was an inspiring one.

"That's when I realized that I wanted to have a women's summit. At some point, I wanted to gather the women that are in the profession, get them together, and let them know they're not the only one in the room," Anna said.



The first Women Surveyors Summit

Flash forward to 2019, and Anna finally found herself in the position to make that dream a reality.

The president-elect of the Texas Society of Professional Surveyors approached Anna and said that she had a willing sponsor for a women's summit. She was hoping Anna would take the lead and make it happen.

Within just six months, the event was organized. With the support of TSPS and the TSPS staff's assistance, Anna planned to start small the first year, setting aside space for 30 women to gather in Austin, Texas. The event sold out in just three days, even after doubling the number of attendees allowed.

The final attendee count was 65 women from 10 states, thanks to some creative workarounds in partnership with the local tourist office.

The inaugural Summit events included educational courses, a guided tour of the Texas general land office, and a panel discussion on workforce development and diversity. After a full day, there were social excursions to local breweries to enjoy.

"It was not just about the connection. It was also about creating visibility of women in the profession," Anna said.

"I think it's been a long time coming. Right now, there are more and more women that are in leadership positions and really passionate about sharing the profession with others."



Heather Sides, RPLS and Vice President at LJA Surveying, couldn't agree more. She appreciated the value of the summit's keynote speakers and formal activities. But what really impacted her was the time outside of the classroom.

"There were conversations that we had that don't typically happen when you're hanging around a bunch of guys surveying," she said.

In Heather's mind, sharing mistakes is the Foundation of healthy mentoring.

"I like getting gritty. I like talking about those hard conversations," she said. "Mentors that they can kind of look at and go, you know, we're here. We've screwed up. Let's learn from what I've done and kind of get a little gritty on stuff. That's kinda what I'm looking for."

Many attendees found just that. They quickly continued the professional bonding experience on a Facebook group that was formed after the event.

The Future Surveyors Foundation

It was clear that there was a demand for an annual Women Surveyors Summit. The next question became, how to fund it?

The answer came in the form of the birth of The Future Surveyors Foundation, a 501c3 non-profit organization focused on creating opportunity, inspiration, and support for the surveying profession.

Spearheaded by Anna, the Foundation's goals go far beyond funding a gathering of female surveyors once per year. Instead, the bigger goal is to promote the diversity and health of the surveying profession as a whole.

"The foundation is really in place to help promote surveying, and bring that visibility for the profession," Anna said.



To get the Foundation off the ground, Anna reached out to Heather Sides to join as a board member as Vice President, along with Virginia Winberg, PLS, as the Secretary/Treasurer.

"Being able to contribute to an organization like the Foundation, which promotes diversity in the profession, is really important to a lot of companies. And I think this is a great way for them to be able to do that," Virginia said.

The Foundation offers four sponsorship levels for individuals or groups that want to support the Women Surveyors Summit. In addition, each level provides sponsor advertisement opportunities.

"One of the things that we are offering is to all participants of the Summit is an event t-shirt with the summit logo on the front and all of the sponsors' logos and names displayed on the back," said Virginia.

Those branded t-shirts will soon be the new wardrobe staple of female surveyors nationwide if all goes well.

Meeting the need for mentoring

Both the Summit and the Foundation serve to underpin a more global need: the importance of mentors in the surveying profession.

"I really struggled to find a true mentor. I think mentors in surveying are sometimes hard to find, whether they're too busy to really help you or too busy to guide you," Anna said.

"A lot of surveyors, especially the older generation, they got into surveying, so they didn't have to deal with very many people. So sometimes they just aren't very good at communicating or working with others. And sometimes they just don't know how to support the younger generation."

Even more than her status as a woman, Anna felt the void of not having a mentor to help guide her along the way. When she questioned where she fit into the profession, a mentor could have helped ease those fears.

The goal of both the Summit and the Foundation is to begin formalizing the process of filling those mentorship gaps.

"Anybody that's interested in the profession, we need to support those people because we need them. Retaining staff and workforce has been a big issue because there are so many people that just kind of get thrown into the fire, and it's a sink or swim type of situation, and they're not really supported," Anna said.

Virginia couldn't agree more.

"One of the things that I'm passionate about is being involved in STEM events and attending high school career fairs, promoting the profession that way. So, I'm hoping that the Foundation is able to help support either financially or provide information, content, material to other surveyors out there, giving them an opportunity to volunteer in that way as well," Virginia said.

Virginia's personal goal as a board member of the Foundation is to help create that network. She hopes this will make it easier to find speakers to tap for various events and educational opportunities.

"I think we can all agree how important mentoring is in this profession because you really need to have that continuity across generations of surveyors. You have to know that history and that background," Anna said.

In Anna's mind, it's all about cementing that bridge between young and senior surveyors, old and new methodologies, and historical and high-tech skills.

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The 2021 Summit

The 2021 Women Surveyors Summit just wrapped up on July 22-23. The summit had over 100 attendees registered, from over 30 states and 4 countries, making it an international event!

It was set up as an interactive virtual event, which means the number of participants possible was much higher than the inaugural 2019 event (the 2020 event was canceled due to COVID).

Anna kicked off the welcoming session, followed by a corporate trainer, Edie Harrison, who ran a workshop on difficult conversations.



"I think we all struggle with that, men and women both. But specifically for women, sometimes it's hard for us to ask those questions, or to negotiate properly, or to come back and say, 'Hey, you know, I need more money' for their salary," Anna said.

There was also a diversity panel discussion and update from Get Kids Into Survey, breakout groups, and more.

"People don't want to sit in front of their computers all day long. So, we kind of broke it up into a couple of days and did some specific fun things during the days, but still tried to give us some time that we can do that networking," Heather explained.

A two-hour happy hour provided ample time for fun and networking.

Through it all, the spotlight was on surveying, and the powerful women across the country who are helping it happen.

"It was really, really powerful to hear a lot of people's stories and the things that they are passionate about," said Heather. "

"We've got a whole lot of generations that are going to have to follow in our footsteps. We need to make sure that they know where we're going, and where we're walking, and where we've been," Anna said.

Goals of the Women Surveyors Summit

- Provide support to women in the profession – We want the attendees to leave summit feeling supported and accepted as both a surveyor and a woman in a historically male profession.
- Create visibility and acceptance of women in the profession.

It's a poignant mix: the Summit is about surveying, it's about women, and most importantly, it's about a passion for giving back.

- Follow the [Future Surveyors Foundation](#) on [Facebook](#), [LinkedIn](#), and [Instagram](#)
- To support the Summit, email info@futuresurveyors.org

Anna Rios, RPLS, is the Owner of Aerios Geo LLC. She is a member of both the National and Texas Society of Professional Surveyors, former Texas Young Surveyor State Representative, and recently served as an Adjunct Professor for Austin Community College. She remains active on many committees to promote the Land Surveying and Geospatial profession. Anna has been in the surveying profession since 2001 and her background includes experience in a wide variety of surveying services encompassing commercial, residential, and municipal projects. She is licensed in Texas and received the Texas Young Surveyor of the Year award in 2019. Anna earned her Certificate of Land Surveying/Geomatics from Austin Community College in 2005 and her bachelor's degree of Science in Business Administration from LeTourneau University in 2015.

CONSTITUTION & BYLAWS PROPOSED CHANGES

At the September 25th, 2021, Board and General Membership meeting, Constitution & Bylaws Chairman Dan Collins, presented changes listed below. Most notably, changing Officer terms back to 1 year (a total of 3) from 2 years (a total of 6). Phillip Brown made a motion to accept the Committees recommendations. Pursuit the Survey and Mapping Society of Georgia's Constitution, ARTICLE VIII. Amendments; Section 2. "All proposed amendments shall first be submitted to the Constitution and By-Laws Committee who shall study the proposed amendment and submit its report to the Board within sixty (60) days. The proposed amendment(s) shall be printed in the Society's official publication and publicly displayed on the official SAMSOG website" AND Section 3. "After the members have been notified of the proposed amendment(s) as outlined in Section 2 above, the Board shall order the Secretary to have letter ballots printed and mailed to all voting members. Only ballots returned within thirty (30) days shall be counted". Ballots will be mailed on or before December 1st. Please note, only Corporate Members can vote. If you have any questions, please contact Ginger Jones.

Recommended changes to the CONSTITUTION

ARTICLE V. Officers: Section 1. The corporate membership of the Society shall elect the following officers: A. ~~Bi-Annually (Odd-numbered years)~~: (1) President (2) Vice President

ARTICLE VI. Chapters Section 3. Chapters shall work in harmony with the Society and The Board of Directors to adhere to the goals listed in the Constitution Article II Objectives.

Recommended changes to the BY-LAWS

3. Elections

1. The President and Vice President shall be elected ~~bi-annually. on odd-numbered years.~~
2. The Secretary, Treasurer, and National Representative shall be elected bi-annually on even-numbered years.
3. *PROPOSED NEW AMENDMENT: The directors shall be elected from a statewide slate for a term of two years. One-half of the directors shall be elected annually and shall hold office until their respective successors assume their duties.
4. The President shall appoint a Nominating Committee prior to April 1.
5. The Nominating Committee shall consist of the Past President and the Council of Past Presidents.
6. The Nominating Committee shall submit its slate of one or more nominees of each elective office to the Second Calendar Quarter Membership meeting, at which time additional nominations may be made. The Nominating Committee's slate may contain any member of the in good standing with the Society and is not prohibited from holding elective office by any other By-Law of this Society.
7. The Secretary shall present ballots with the approved nominees listed alphabetically for each elective office, and he or she shall disseminate the ballot to Corporate Members by June 1. The return ballot shall be in a format approved by the Board.
8. Only official ballots received by the Secretary by June 25 will be counted. The President shall appoint a Teller's Committee prior to June 25. The Teller's Committee shall present to the President the election results, and the President shall announce the names of the new officers to the corporate membership two weeks before the next regular Board meeting.
9. If no member contests the election before the next regular Board Meeting, the results of the balloting shall be accepted, and the ballots destroyed.
10. Holding elective office shall be restricted to members as defined in Article III, Section 2, paragraphs A1 and A2 of the Constitution.
11. Voting privileges, in any and all matters, shall be limited to the grade of the Corporate Members.
12. *PROPOSED NEW AMENDMENT: In the event of a tie in any election conducted under this section, the Teller Committee shall resolve the situation by designating a winner and a first alternate. It is at the discretion of the Teller Committee as to how to best handle the situation. In the event of a resignation or vacancy from an elected position conducted under this section, the Executive Committee and Council of Past

Presidents shall convene and make a decision regarding filling the vacancy that best suits the needs of the society.

NOTE: THERE ARE NO PROPOSED CHANGES TO AMENDMENTS 4 – 11 HOWEVER BECAUSE OF THE ADDITION OF 3 AND 12, THEY ARE RENUMBERED.

6. Committees

a. The Standing Committees shall be as follows:

(11) The **Video Library Committee** shall: Evaluate the credentials, capabilities, experience, and pricing of prospective videographers and make recommendations to the board; familiarize itself with best practices of video production and provide guidance thereof to the board and chapters contemplating video production; assist chapters in preparation of video proposals; review the content and budget proposals for each video and make recommendations to the board; determine a yearly budget amount for video production. Expenditures to research, produce and publish videos will require full board approval.

8. ~~The creation of an~~ Executive Committee will be comprised of the officers of the Society as elected by the General Membership and will include the President, Vice President, Secretary, Treasurer, National Representative, and the Immediate Past President. This committee shall act in the absence of the Board of Directors in the best interests of the Society, in line with policy and direction already given by the Board of Directors, when given, where time will not permit Board action. Actions taken by this committee shall be reported to the Board of Directors at the next Board Meeting.

The complete Constitution and Bylaws with proposed changes and this list are posted at www.samsog.org. Please mark and mail your ballot!

TRIG STAR SURVEYOR SPONSORS NEEDED IMMEDIATELY!



TRIG-STAR

Trig Star is a National program designed to engage students in the surveying profession by sponsoring a high school trigonometry skill awards program at local high schools. Students compete against one another to complete a survey related timed trigonometry test. Each school's winning test score is used for state competition. **(State winner will receive \$1,000 and the sponsoring teacher will receive \$500).** In addition to any awards at the local and state level, the state Trig Star winner is eligible to compete for \$2,000, \$1,000, and \$500 scholarship prizes at the national level.

What does the Surveyor Sponsor have to do? Trig Star Committee Chairman, Jim Anderson, will mail the exam. After the exam is given and graded, the sponsor will schedule a class session and explain how Surveyor's use Trig each day. Jim Anderson has a selection of 5-to-15-minute videos that show what Land Surveyors do that typically generates questions. There is no set protocol, but Jim typically draws pictures on the board showing how Surveyors use angles and distances to calculate coordinates to do boundary work, and construction layout. He also takes equipment, drones, plats, and GPS to share. At the end of the presentation, the sponsor announces the winner and takes a photo with the student winner and teacher. The school will typically put the photo and announcement in the local paper which is great PR!

If you are willing to invest 2 hours of your time, contact Jim Anderson at jima@andersonlandsurveyors.com and thank you!

IMMEDIATE NEEDS: Brookwood High School, Jenkins High School, and Innovation Academy, in Alpharetta.



The Annual Technical Seminar for the Surveying and Mapping Society of Georgia will be **Thursday, January 13, 2022** and **Friday, January 14, 2022** with a special Certified Survey Technician exam held Saturday morning January 15, 2022. The seminar will be held at:

The Sonesta at Gwinnett Place Atlanta
1775 Pleasant Hill Road, Duluth, Georgia 30096
(at I-85 and Pleasant Hill Road)

To make reservations at the Sonesta at Gwinnett Place Atlanta, call 1-800-766-3782 and use our group code "**SAMSOG1122022**". There are a limited number of rooms blocked at \$114 + tax per night. **Hotel reservation deadline is Thursday, December 30, 2021.**

Technical Seminar Registration
is open online! Available until 1/7/2022.

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Surveying and Mapping Society of Georgia 2022 Annual Technical Seminar January 13 – 14, 2022

SEMINAR REGISTRATION FORM

Name of Person Attending Seminar _____ Badge Name _____

Company Name _____

Address _____

City _____ State _____ Zip _____

Email _____ Phone _____

Complete this form and return to us with payment or **REGISTER ONLINE** at www.samsog.org

MEMBERS

- ☐ OPTION 1 – 2 Day Registration (Thursday, 1/13/2022 & Friday, 1/14/2022). Includes continental breakfast Thursday & Friday; Awards Lunch and Dinner Thursday; and Varsity Lunch Friday.
LESS THAN \$25 PER PDH.
IF SELECTING 1 OR 2 DAYS, PLEASE MARK EACH DAY BELOW
- ☐ OPTION 2 – Thursday Only; includes Awards Lunch \$ 205
- ☐ OPTION 3 – Friday Only; includes Varsity Lunch \$ 205
- ☐ OPTION 4 – Awards Luncheon TICKET FOR GUEST \$ 50
Thursday, 1/13/2022 at 12:30pm

**Employees of SAMSOG Members receive the member rates*

NON MEMBERS

- ☐ OPTION 1 – 3 Day Registration (Thursday, 1/16/20 thru Saturday, 1/18/20). Includes continental breakfast Thursday & Friday; Awards Lunch and Dinner Thursday, and Varsity Lunch Friday.
- ☐ OPTION 2 – Thursday Only; includes Awards Lunch \$ 305
- ☐ OPTION 3 – Friday Only; includes Varsity Lunch \$ 305
- ☐ OPTION 4 – Awards Luncheon Ticket for Guest \$ 50

STUDENTS

- ☐ OPTION 1 – 2 Day Registration (Thursday, 1/13/2022 & Friday, 1/14/2022) includes continental breakfast Thursday & Friday; Dinner Thursday; and Varsity Lunch Friday. **DOES NOT** include Awards Luncheon Friday, 1/13/2022 FREE
- ☐ OPTION 2 – Daily Rate **WITHOUT LUNCH**
Please specify: ___ Thursday ___ Friday FREE
___ Saturday
- ☐ OPTION 3 Awards Luncheon Ticket \$ 50
Thursday, 1/13/2022 at 12:30pm

SAMPAC Raffle Ticket \$ 10

_____ Tickets @ \$10 = \$

SAMSEF Raffle Ticket \$ 50

_____ Tickets @ \$50 =

NOTE: Raffle Drawing will be held July 22, 2022, at the Summer Meeting.

TOTAL DUE: \$ _____

Pre-registration closes Monday, January 3, 2022, and cost is increased by \$50

RETURN THIS FORM & PAYMENT BY CHECK: SAMSOG, P.O. Box 1113, LaGrange, GA 30241

CREDIT CARD PAYMENTS: For your protection, credit card payments are NOT accepted by mail or email. You may pay by credit card online at the SAMSOG website (www.samsog.org) or by phoning Ginger Jones at 770-947-1767.

CANCELLATION / REFUND POLICY: Cancellations received by 5 pm on Monday, January 3, 2022, will receive a full refund. Cancellations received after 5 pm on Monday, January 3, 2022, will be assessed a \$50 cancellation fee. If for any reason the seminar program is cancelled, enrollees will be notified, and a full refund will be made. There will be no refund for cancellation after Friday, January 7, 2022.

LODGING: Sonesta Gwinnett Place Atlanta - 1775 Pleasant Hill Road, Duluth, GA – 1.770.923.1775 - www.sonesta.com

To make reservations by phone, call 1-800-766-3782 and use group code SAMSOG1122022 to receive our group rate of \$114.00 + tax per night. Online instructions and link available at www.samsog.org. Hotel reservation deadline is Thursday, December 30, 2021.

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2022 SAMSOG ANNUAL TECHNICAL SEMINAR AGENDA

Thursday, January 13, 2022

REGULAR SESSIONS
Sonesta Gwinnett Place Independence Ballroom

RESOURCE TRAINING SESSIONS
Sonesta Gwinnett Place Keats

7:00 - 8:00 am	Check-in, Continental Breakfast and Sponsor Exhibits – Georgia Pre-function and Georgia Ballroom	
7:45 - 8:00 am	Welcome / Opening Remarks / Introduction of Booth Sponsors – Independence Ballroom Grant Shepherd, President	
8:00 - 10:00 am	Unlikely Easements & Servitudes PART I Created, Modified, & Extinguished - 2.0 PDH Kristopher M. Kline, PLS - N.C.	8:00 – 9:00 am (1 PDH) Land Survey Education Options in Georgia
10:00 – 10:30 am	Break and Sponsor Exhibits – Georgia Ballroom	
10:30 – 12:30pm	Unlikely Easements & Servitudes PART II Created, Modified, & Extinguished - 2.0 PDH Kristopher M. Kline, PLS - N.C.	9:00 – 10:00 am (1 PDH) To be determined Presented by GPI Geospatial
12:30 – 1:30 pm	Awards Luncheon – Plat & Mapping Contest Awards, SAMSEF Raffle, SAMPAC Raffle and Sponsor Exhibits Independence Ballroom	11:30 am – 12:30 pm (1 PDH) To be determined
1:30 – 3:30 pm	Unlikely Easements & Servitudes, PART III Created, Modified, & Extinguished - 2.0 PDH Kristopher M. Kline, PLS - N.C.	1:00 – 2:00 pm (1 PDH) To be determined
3:30 - 4:00 pm	Break and Sponsor Exhibits– Georgia Ballroom	2:30 – 3:30 pm (1 PDH) The Future of Field to Finish Data Collection Part Presented by eGPS
4:00 – 6:00 pm	Unlikely Easements & Servitudes, PART IV Created, Modified, & Extinguished - 2.0 PDH Kristopher M. Kline, PLS - N.C.	4:00 – 5:00 pm (1 PDH) The Future of Field to Finish Data Collection Part II Presented by eGPS
6:00 – 8:00 pm	Dinner sponsored by Allen Precision/Leica Solutions Center Bahama Breeze (directly across the Street from the Sonesta 3590 Breckenridge Blvd, Duluth, GA 30096	
8:00 – 10:00 pm	SAMSOG Board and General Membership – Independence Ballroom Immediately following Allen Precision Equipment/Leica Geosystems Dinner at Bahama Breeze Officers, Directors, and Chapter Representatives are voting positions – Members and Guests Welcome 2.0 PDH	

ATTENTION YOUNG SURVEYORS

Please join David Anderson, PLS Thursday, January 13th from 10:00 am to noon in Boardroom 1 for the Young Surveyors meeting. Young Surveyors are defined as 35 years or younger. 2 Professional Development Hours will be given to attendees.



2022 SAMSOG ANNUAL TECHNICAL SEMINAR AGENDA

Friday, January 14, 2022

REGULAR SESSIONS

Sonesta Gwinnett Place Independence Ballroom

RESOURCE TRAINING SESSIONS

Sonesta Gwinnett Keats

7:00 - 8:00 am	Check-in, Continental Breakfast and Sponsor Exhibitors – Georgia Pre-function and Georgia Ballroom	
8:00 - 8:15 am	Welcome / Opening Remarks / Introduction of Booth Sponsors – Grant Shepherd, President	
8:15 – 9:45 am	Georgia Conservancy Session A: Georgia Now & Forever Charles McMillian, Luben Raytchev & Nick Johnson Georgia Conservancy 1.5 PDH	8:30 - 9:30 am (1 PDH) To be determined Presented by Carlson Software & Equipment
9:45 – 10:15 am	Break and Sponsor Exhibits – Georgia Ballroom	
10:15 – 11:45 am	Georgia Conservancy Session B: Conservation Easements Charles McMillian, Luben Raytchev & Nick Johnson Georgia Conservancy 1.5 PDH	10:30 - 11:30 am (1 PDH) To be determined
11:45 - 1:00 pm	Annual Varsity Lunch sponsored by eGPS Solutions Independence Ballroom	1:00 – 2:00 am (1 PDH) To be determined
1:00 – 2:00 pm	Establishing Requirements, Extracting Metrics, and Evaluating Quality of LiDAR Data - 1 PDH Jennifer Triana, TopoDOT	
2:00 - 2:30 pm	Break and Sponsor Exhibits – Georgia Ballroom	2:30 - 3:30 am (1 PDH) To be determined
2:30 – 4:30 pm	Geomatics Bowl Hosted by Robert Armstrong, PLS 2.0 PDH	

Saturday, January 15, 2022

Certified Survey Technician Exam 9am – 2pm – Independence Ballroom

\$180 (\$60 discount to student, veterans, and military personnel) payable to NSPS

The Survey Technician Certification Program is an NSPS/ACSM Sponsored program and is recognized by the US Dept of Labor as part of the National Apprenticeship Program. The program has four levels of certification (1 through 4) and two main tracks (field and Office). Certification is by examination and experience. **APPLICATIONS MUST BE SUBMITTED BY 12/9/2021.**

Why is a Survey Technician Certification of Value to you?

Certification as a survey technician is official recognition by NSPS-ACSM that a person has demonstrated that he or she is minimally competent to perform surveying tasks at a specified technical level. Certification provides the individual with a sense of achievement since it reflects advancement in the field of surveying. Certification also provides employers with a method of determining job assignments and advancement since certification is an indication of one's ability to perform specific job tasks.

For more information, visit www.cstnsps.com, Certified Technician page to read more about the exam, get example exams, applications, and other information. Additional information can also be found under the Education section of the SAMSOG Website www.samsog.org

Got questions? Please contact Joshua O. Stice at joshua.stice@dawood.net Mail payment and application to: Joshua Stice - 1196 Hardin Bridge Rd. - Euahlee, GA 30145



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Surveying and Mapping Society Education Foundation Annual Raffle Fundraiser

Carlson Software Package donated by Carlson Equipment & Software

Laptop donated by Platinum Geospatial

TOTAL VALUE \$5,000

Tickets \$50 each

Tickets can be purchased at www.samsog.org under "Store".

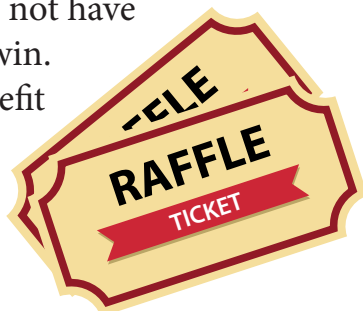
Drawing will be held Friday, July 22, 2022 at the SAMSOG Annual Meeting and Summer Convention at the Hyatt Regency Hotel, Savannah, Georgia. Need not be present to win.

All proceeds benefit the foundation's endowment of the Ben Fortson, Jr. Scholarship, SAMSEF Technical Scholarship, and operating expenses.

Surveying and Mapping Political Action Committee (SAMPAC)

A 20 Gauge Tri Star Viper G2 Silver Simi-Auto Shot Gun Walnut stock & forearm, raised vent rib, chrome lined steel shot proof 28 in barrel, 3 choke tubes, gas piston system and 3 in mag chamber will be awarded to the winner Thursday, January 13, 2022 in conjunction with the SAMSOG Awards Luncheon. Tickets are \$10 each. You do not have to be present to win.

All proceeds benefit the Surveying and Mapping Political Action Committee.



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Georgia Southern University (GS) has a rich tradition in providing introductory courses in Surveying to its Civil Engineering and Construction Management students.

For many years, Georgia Southern's Civil Engineering Technology graduates worked with the Georgia Department of Transportation (GDOT) or other Georgia-based Consultants or Contractors where these graduates used the skills obtained at GS. Then, in 2012, a new Civil Engineering Program replaced the Civil Engineering Technology Program. This change facilitated a quicker path to professional engineering licensure for Georgia Southern Students and provided an opportunity for more elective courses including Surveying-Geomatics courses. Then, in Fall of 2015, Dr. Roger Purcell was hired as an Assistant Professor to cover additional Surveying-Geomatics courses and Transportation courses. Dr. Michael Jackson, Chair of the Civil Engineering and Construction Department, gave Dr. Purcell the opportunity to start investigating the creation of a surveying program at GS to support PLS licensure.



Many options including a program under GS's Continuing Education Department, were evaluated. (Prior to Dr. Purcell's arrival, Dr. Gustavo Maldonado and Dr. Marcel Maghiar had done extensive exploration and research into the use of LiDAR and Close-Range Photogrammetry at GS.) Then, in Spring 2017, Trent Turk, President of GeoSurvey Limited, on behalf of SAMSOG's Education Foundation, SAMSEF, contacted Dr. Purcell and got the ball rolling on how SAMSEF and others could support establishing a Surveying-Geomatics Program at GS. A kickoff meeting was held that same spring at GS where the SAMSEF & SAMSOG Leadership, represented by Mr. Trent Turk and Mr. Jim Anderson, Dr. Mohammed Davoud, Dean of the Allen E. Paulson College of Engineering and Computing at GS and Dr. Purcell, were in attendance. In the meeting, a scope of initial work for the GS Surveying-Geomatics program was presented, including a request for financial support in the amount of \$25,000 per year for the next three years. It was agreed that a formal request should be made to SAMSOG and SAMSEF at the next SAMSOG Membership/Directors meeting. Thus, after the presentation and an electronic vote by the directors, the request for financial support was approved and funding for the first \$25,000 was established to come from SAMSEF, SAMSOG and Mr. Josh Lewis III.



For the first check presentation on 11/01/2016 as shown above, the following persons were in attendance: First Row: Left, Dr. Roger C. Purcell, P.E., P.L.S., Interim Chair & Assist. Professor, Civil Engineering & Construction Management Department at Georgia Southern University, Right, Dr. Mohammad S. Davoud, P.E., Founding Dean, College of Engineering and Information Technology at Georgia Southern University and Professor of Mechanical Engineering, Second Row: From left, Mr. Greg Johnson, L.S., P.E., Chairman of the Board of Trustees of SAMSEF, Mr. Josh Lewis III, R.L.S., Past President of SAMSOG, Mr. Dan Collins, P.L.S., Current President of SAMSOG, Third Row: Left, Mr. James M. Anderson, R.L.S., Secretary of SAMSEF, Mr. Dean Olson, P.L.S., Secretary-Treasurer of SAMSOG, and Mr. Mark Russell, Vice Chairman of SAMSEF. The second and third monetary awards were presented to GS in the Fall 2018 and Fall 2019 respectively.

The Surveying-Geomatics Faculty at GS is very grateful for the awards given by SAMSOG, SAMSEF and Mr. Josh Lewis III, PLS as these awards have helped fund the following activities at GS:

- GS had its first student, Mr. Adam Jones, a construction engineering student & SAMSEF Scholarship winner, to complete the Surveying-Geomatics Certificate at GS.



Adam Jones

- GS was able to provide funding for Graduate Students who in turn helped with the GS S-G program development. These students included: Daniel Laitano Trundle, Mariah Peart, Usman Ibrahim and Imran Kays. Mariah Peart studied under Dr. Gustavo Maldonado and was named as one of the Ten New Faces of Civil Engineering for 2019 by the American Society of Civil Engineers. Usman Ibrahim presented to SAMSOG at the 2020 and 2021 Summer Meetings. Usman Ibrahim and Imran Kays assisted Dr. Purcell with Georgia Department of Transportation (GDOT) research. Also contributing were graduate students Brad Clement and Jyoti Das.



Mariah Peart

- GS has been able to develop and offer the following Surveying-Geomatics courses identified as Technical Electives:
 - CENG 5137/G Engineering Hydrology and Hydraulics (3 credit hours)
 - CENG 5431/G Advanced Surveying (3 credit hours)
 - CENG 5432/G Intro to GIS in Surveying-Geomatics/Transportation (3 credit hours)
 - CENG 5433/G Drainage and Erosion Control (3 credit hours)
 - CENG 5434/G Surveying History and Law (3 credit hours)
 - CENG 5435/G Intro to Terrestrial Lidar (3 credit hours)
 - CENG 5436/G Intro to Close Range Photogrammetry (3 credit hours)
 - CENG 5438/G Surveying-Geomatics Professional Practice (3 credit hours)

The total number of course credit hours represented above plus CENG 2231 (3 credit hours)/TCM 2233 (3 credit hours) = 27 credit hours (or 21 credit hours if Hydrology related courses are excluded). All the 5000/G level courses are taught simultaneously as undergraduate and graduate courses. The 5000G graduate courses require the completion of an additional research component beyond the regular undergraduate course requirements.

- As a way to support place-bound students, the Professional Land Surveyor (PLS) Option has been developed and implemented for courses requiring labs. The PLS option allows a PLS to serve as an individual proctor for the labs (CENG 2231/TCM 2233 Plane

Surveying, 5431/G Advanced Surveying, CENG 5435/G Intro to Terrestrial LiDAR and CENG 5436/G Close Range Photogrammetry). Thus, students wanting to take all the required courses from home can do so with the help of a PLS Lab Proctor.

- As an additional aid to students, we have developed Program Maps for the non-traditional (working student), for the BS Civil Engineering Degree Program, for the New BS Construction Engineering Program with a Surveying-Geomatics Specialization, for the BS Construction Degree Program with a Surveying-Geomatics add-on, and for Master of Science in Civil Engineering (MSCE) (including the Accelerated Bachelors to Masters (ABM-MSCE) degree pathway) with a specialization in Surveying-Geomatics.
- GS is supporting the continuing development of the SAMSOG Student Club. The current President is Connor Cantrell, who is planning new activities for the club such as participation in the 2022 Surveying-Geomatics Bowl and the 2022 SAMSOG NSPS Plat Judging Contest. The club has had joint meetings with the Coastal Chapter in the past.



SAMSOG Plat Contest Judging

- In order to support the National Geodetic Survey's "GPS on Benchmarks" program, some of our Senior Students completed their Senior Project by performing the necessary work to validate some of the Benchmarks in Bulloch County as identified by this NGS Program. This was a great project, and the students were proud to know that they contributed to improving the National Spatial Reference System (NSRS).

BART CRATTIE, LS, CFS, CFM



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Mark
Condition: G
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RECOVERY NOTE: (2021) GEORGIA SOUTHERN UNIVERSITY CIVIL ENGINEERING/CONSTRUCTION DEPARTMENT.
Observed: 2021-04-08T18:57:00Z [more obs 2007-06-25](#)
Source: OPUS - page5 2008.25



Close-up View

REF_FRAME:	EPOCH:	SOURCE:	UNITS:	SET	DETAILS
NAD_83(2011)	2010.0000	NAVD88 (Computed using GEOID18)	m	PROFILE	
LAT: 32° 15' 49.31294" ± 0.008 m		UTM 17 SPC 1001(GA E)			
LON: -81° 48' 55.62990" ± 0.008 m		NORTHING: 3569957.009m 251009.319m			
ELL HT: 14.747 ± 0.012 m		EASTING: 423196.265m 233088.753m			
X: 768543.762 ± 0.006 m		CONVERGENCE: -0.43532500° 0.18748611°			
Y: -5343532.449 ± 0.010 m		POINT SCALE: 0.99967274 0.99991350			
Z: 3385201.541 ± 0.013 m		COMBINED FACTOR: 0.99967043 0.99991118			
ORTHO HT: 44.678 ± 0.062 m					

GPS on Benchmarks

• The Civil Engineering and Construction Department at Georgia Southern supports research opportunities in advancing Surveying-Geomatics technologies including but not limited to: GIS support applications, GPS, Photogrammetric Mapping (including close-range photogrammetry), Precise Positioning, Flood Mapping, Drone Navigation/Data Collection, Terrestrial LiDAR, and traditional terrestrial based S-G applications. Dr. Maldonado and Dr. Maghiar have on-going projects in the

applications of LiDAR and Photogrammetry.

• In addition, Dr. Purcell, et.al., have just completed a 2.5-year research project that establishes ways to serve the surveying-geomatics (S-G) education needs of place-bound students, such as Georgia Department of Transportation (GDOT) personnel and others. The project addresses the need for personnel with a 21st century education (knowledge and skills) in surveying-geomatics. Many factors, including lack of traditional student interest, lack



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of student preparedness, retirement-replacement issues, ever expanding technology and education materials, and post-recession demand, have forced the Georgia S-G community to recognize the need for an alternative approach to surveying-geomatics education. Thus, this study proposes a viable solution to the lack of S-G education availability and focuses on ways to foster Professional Land Surveyor (PLS) licensure, as well as improvements in salary and benefits for educated/licensed surveyors. The study also included the administration of a detailed survey based on matrix analysis of S-G knowledge/skill expectations, S-G position characterization, and S-G education subject area coverage. The results of the survey were analyzed to support the understanding of the breadth and depth of the 21st century S-G education among the Georgia S-G community. You can find the report, "Meeting the 21st Century Surveying-Geomatics Education Needs of GDOT and Georgia" at:

https://g92018.eos-intl.net/eLibSQL14_G92018_Documents/RP18-10.pdf

- During the Fall of 2020 and the Spring of 2021, extensive webpages for the Surveying-Geomatics program were finalized and are now active. These pages reside on the Civil Engineering and Construction Dept. website and highlight the pathways for students to obtain the required S-G coursework at GSU for licensure as an LSIT and ultimately as a PLS.

Please go to: <https://cec.georgiasouthern.edu/cengc/surveying-geomatics/>

or scan:



- Recently, we have developed a new Collegiate Student Competition for Surveying-Geomatics, "The SAMSOG Collegiate Surveying-Geomatics Bowl". We have developed this competition in order to engage more S-G students and to bring students and professionals together. The game was "Beta" tested at our 2020 Summer Meeting and we will try it again at the 2022 Technical Seminar. Ultimately, we hope to encourage students to become more active members in the SAMSOG Society, to enhance the student's knowledge of the Surveying-Geomatics profession and of the society itself, to strengthen the programs of the SAMSOG student chapters, and to foster a collegial spirit among the students and professionals.

- Our future plans for Surveying-Geomatics at GS include the following items:

- Increase student recruiting and map out a path to obtain a cohort of 20 students+ on an annual basis to achieve program sustainability.

INTRODUCTION of Game

SAMSOG Collegiate Surveying-Geomatics Bowl Competition



(We have found in our research that we need to add 20 new students each year for program to be sustainable.)

- Support research opportunities in advancing Surveying-Geomatics technologies.
- Continue developing flexible course materials which will provide education covering the technology changes proposed by the National Geodetic Survey (NGS) for the year 2022.
- Support the SAMSOG Student Club at GS.
- Reach out to the SAMSOG Coastal & Golden Isles Chapters to continue collaboration. Of course, other chapters are welcome to collaborate as well.
- Provide research support for finding solutions to problems being experienced by SAMSOG and the surveying profession in Georgia.
- Pursue methods and sources of funding to make the GSU Surveying-Geomatics Program sustainable.
- To keep our program going, please encourage future students to consider Georgia Southern for their Surveying-Geomatics education. If we could get two new students from each chapter, we could meet our initial goal.



Article by: Dr. Roger C. Purcell, Ph.D., P.E., P.L.S.,
Georgia Southern University, 11/2021

NEWEST MEMBERS

Grace Shirley (Johnsen)
Kennesaw State University Student

Stephen Wilson
Georgia Southern University Student

Matthew Ricks, Statesboro, GA
Georgia Southern University Student

William Bauknight
University of North Georgia Student

Andrew Hughes
University of North Georgia Student

Paul Lynch, SC PLS 35519 -
ControlPoint Associates, Inc.,
Warren, New Jersey
Full Member

Marcus Patterson
University of North Georgia Student

Zachery Wolfe, GA PLS 3018 -
Infra Map Corporation
Full Member

Burton Blackmar
Kennesaw State University Student

David Lukac, Jr., GA PLS 3420 -
Weston & Sampson Engineers,
Inc.,
North Charleston, SC
Full Member

Brian Mitchell, GA PLS 3472 -
W&A Engineering, Roswell, GA
Full Member

Gary Hoffacker, GA PLS 3388 -
TRC Companies, Greenville, SC
Full Member

Dwayne Wilson, GA PLS 2836 -
Shupe Surveying Company, P.C.,
Pooler, GA
Full Member

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