

# SEASON'S GREETINGS



# L'ARPELTEUR LOUISIANE

NOVEMBER 2020

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*Special Thanks to our Contributing Writers.*

Articles submitted will be considered for publication and should be emailed to: [lsps@lsps.net](mailto:lsps@lsps.net). Please contact the office with any questions.

*The officers and board of LSPS and editors of this publication do not necessarily endorse opinions expressed by individual writers included herein.*



The *L'Arpeleur Louisiane* is published quarterly as a service to the members of the Louisiana Society of Professional Surveyors. As stated in the LSPS Articles of Incorporation, the LSPS is "organized for the following purposes and to carry out the same:

Enhancing the status of the Land Surveying Profession by:

- 1) Maintaining high technical and cultural standards for entrance to the Society.
- 2) Cooperating with educational institutions in the maintenance of high standards of education in Land Surveying.
- 3) Requiring a high standard of ethical practice by members of the Society.
- 4) Aiding in the adoption of high standard of attainment for the granting of the legal right to practice Professional Land Surveying.
- 5) Fostering among students of Land Surveying the study of philosophy and history, tradition and achievement, duties and social functions of the Land Surveying Profession.
- 6) Encouraging the personal and professional development of young Land Surveyors.
- 7) Supporting activities looking to the increased employment of Land Surveyors and seeking new opportunities for service in Land Surveying."

## LSPS ADVERTISING RATES:

SIZE	COST PER ISSUE	PER YEAR
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FULL PAGE BACK COVER	\$800.00	\$2800.00
½ PAGE	\$400.00	\$1400.00
¼ PAGE	\$200.00	\$600.00

All ads are prepaid. Ad and payment should be sent to LSPS by the 15th of the month prior to publishing. Issues are published in August, November, February and May. Please mail to address listed above.

*Prices apply to camera-ready copy.  
A charge will be added for creation of an ad or art work.*



## ***PRESIDENTIAL PRIVILEGE***



**Brad Holleman**  
*LSPS President*

Dear LSPS Members,

We have endured new challenges this year as a membership and executive board. While in-person meetings have been limited, we have been active in representing our profession at the state legislature, providing online opportunities for continuing education, and ensuring continued representation on the LAPELS Board.

Many may recall the poll sent to our membership in 2019 regarding the proposed changes to Louisiana Revised Statute Title 37 §693.B.3.a and §693.B.4.a (see poll results in the November 2019 edition of this publication found at [LSPS.net/news](http://LSPS.net/news)). The term “oral” examination was under threat of being removed from this law. LSPS provided input on this law change at multiple levels and was able to successfully keep the term “oral examination” in the law at the last special session! Thank you to all that worked on this effort and a special thank you to Mr. Charlie Coyle, Mr. Derek Wheat, and Mrs. Elizabeth Harper.

The 2020 LSPS Convention was changed to an online format. Those that had previously registered received an email with the link to view the online content. Registration is now open to all that had not previously registered. Please go to [LSPS.net](http://LSPS.net) to register today. We have received many positive comments about the online courses and discussions are leaning towards making the 2021 convention a hybrid convention, with both in-person and online options. Please be aware that the LAPELS Board has issued an emergency policy concerning continuing professional development. The policy can be found at [https://lapels.com/docs/CPD/Interim\\_Emergency\\_CPD\\_Policy\\_072020.pdf](https://lapels.com/docs/CPD/Interim_Emergency_CPD_Policy_072020.pdf). The new policy allows for an extension, but note that the licensee should immediately notify LAPELS Board staff in writing in the event they foresee a need to utilize this emergency policy. The deadline for this request is December 15, 2020. In short, let the LAPELS Board know by December 15 if you are not able to obtain all required hours for 2020 during the year 2020.

We would like to thank Mr. Charles G. Coyle, III, PLS for his service on the Louisiana Engineering and Land Surveying Board. Mr. Coyle’s term will expire on March 31, 2021, and it is the responsibility of LSPS to provide a list of five qualified nominees to the Governor. The qualifications are as follows:

- Shall be a citizen of the United States
- Shall have been engaged in the practice or teaching of land surveying for at least twelve years
- Shall have been in responsible charge of important land surveying work for at least five years

If you meet these qualifications and would like to be considered for nomination, please contact me at [BHolleman@SJBGroup.com](mailto:BHolleman@SJBGroup.com).

I hope that everyone has a Happy Thanksgiving, Merry Christmas, and Happy New Year! Please feel free to contact me, or any of our board members, if you have any questions or comments.

Respectfully,

Brad Holleman





# LSPS DISTRICT INFORMATION

DISTRICT	CONTACT INFO
District 1	John Teegarden jteegarden@ascellc.com
District 2	Andrew Szush andrew.szush@tbsmith.com
District 3	Shawn MacMenamin smacmenamin22@gmail.com
District 4	Jonathan Westerman redchuteland@gmail.com.com
District 5	Jon Braswell jbraswell@sehuey.com
District 6	Patrick Staiano pstaiano@ntbainc.com
District 8	W. Aaron Wood aaron.wood@woodsurveying.com
District 9	Jules Toups jules.toups@tbsmith.com

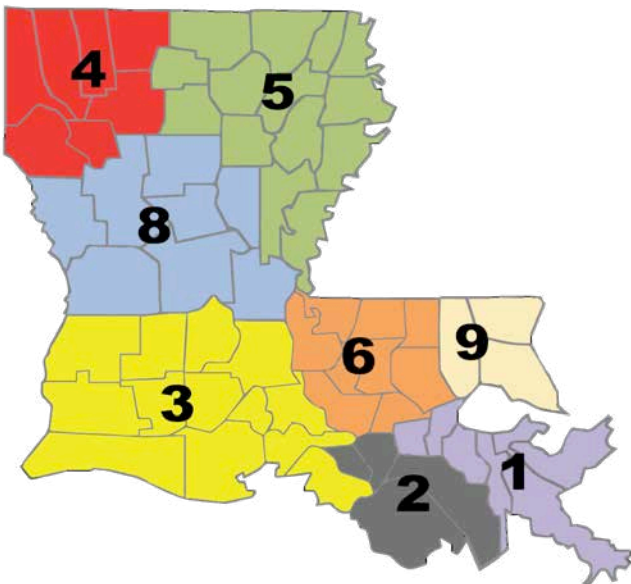
## WHY ATTEND A DISTRICT MEETING?

**Networking** – Who knows more about opportunities in surveying, than those active in it?

**Educational Benefits** - Want to stay of top of our profession? Most meetings offer opportunity for upgrading your experience through top speakers in our field.

**Leadership Opportunities** – It is not enough to just join a district. Take advantage of opportunities to get involved in committee work, serve some time as an officer, and help coordinate events. The more active you are, the more visible you become to other members. Leadership roles reflect well on you, and on the company that employs you. It proves they hired a winner!

If you are not an LSPS member, we would like to invite you to attend a District meeting in your area. Contact the LSPS office at [lsps@lsps.net](mailto:lsps@lsps.net) , or the chairman in your area for details about upcoming meetings.



## LSPS Districts

*We would like to invite you to attend a District meeting in your area. Contact the LSPS office at [lsps@lsps.net](mailto:lsps@lsps.net) or the chairman in your area for details about upcoming meetings.*



# CONVENTION 2020 ONLINE COURSE UPDATE

## ONLINE COURSE REGISTRATION OPEN

12 PDH available

Go to LSPS home page for all the info

**WWW.LSPS.NET**

### **COURSES AVAILABLE:**

1 PDH - Ethics

1 PDH - Louisiana Standards

1 PDH - Mississippi Standards

1 PDH - Louisiana Datum Update

2 PDH - UAS

### **BUSINESS COURSES:**

1 PDH - Billing & Collection of Fees

2 PDH - Marketing & Client Maintenance

3 PDH - Successful Business Strategies

## **SAVE THE DATE!!!**

**WHAT: LSPS 60th Annual Convention**

**WHEN: April 14 - 16, 2021**

**WHERE: Margaritaville Resort Casino  
777 Margaritaville Way  
Bossier City, LA 71171**

**VIRTUAL OPTIONS: Available 2-3 weeks after Convention**

Check the LSPS website **www.lsp.net** for updates.

*Hope to see you there!*



# LSU C4G AND GPS ON BENCHMARKS

By J. Anthony Cavell, PLS, CFedS

In the *New Yorker* article “Sinking into Oblivion” March 25, 2019, Elizabeth Kolbert wrote, “Since the days of Huey Long, Louisiana has shrunk by more than two thousand square miles. If Delaware or Rhode Island had lost that much territory, the U.S. would have only forty-nine states”. “Louisiana is sinking into the sea — a geological process called ‘subsiding’ — at a rate of nine millimeters (just over a third of an inch) per year,” wrote Emily Weyrauch for *TIME*.

Casey Leins, of U.S. News, interviewed Clifford Mugnier and wrote,

*With the help of Louisiana State University’s Center for Geoinformatics, NGS found that... Since the last survey in 1989, New Orleans has dropped nearly 6 inches... Alexandria subsided 49 millimeters, Old River 34 mm, Lake Charles 16 mm, Boothville 13 mm and Ruston 9 mm. One inch is equal to 25.4 mm.*

*While some cities are sinking, others have remained unchanged, or have even risen. Baton Rouge, Lafayette, Oakdale, Hammond and Shreveport have stayed the same, while Thibodaux, Sicily, Rayville and Natchitoches have higher elevations than they did 30 years ago, according to the news release.*

*Mugniersaid the school’s Centerfor Geoinformatics now has a three-person team dedicated to measuring Louisiana’s elevation levels.*

Fairy Tales have ogres (subsidence), and victims (Louisiana), and two different types of endings. In one the victim is lost with a cautionary moral, In the other, a hero using wit (science) and skill, saves the day. What is critical to scientists in our case, is the accuracy with which (A) surveyors can determine and map elevations and their locations that (B) geologists and engineers may use to develop remedies so the (C) public may live more informed lives.

I hope to address how the Louisiana State University’s (LSU) Center for Geoinformatics (C4G) enables surveyors and scientists to improve the precision and accuracy of their work. In part through a grant from the National Geodetic Survey (NGS), C4G is observing absolute gravity at its many Continuously Operating Reference Stations (CORS) within the state. Millimeter precision height differences are transferred from the CORS to reference marks on the ground. Celestial

observations are made to determine the slope of the geoid. These are topics we will cover well in future articles. This article is about another part of the effort - to populate NGS’ *GPS on Bench Marks* (GPSonBM) campaign throughout Louisiana.

*GPSonBM is the NGS crowdsourcing approach for working with [others] to find and report back on existing NGS survey control marks and collect and share survey-grade GPS data on a prioritized list of marks that will provide the most benefit for improving the local accuracy of national scale models and tools that NGS builds to serve the nation. GEOID18 boasts significant improvements over the previous NGS model, GEOID12B, primarily due to the use of the GPSonBM crowdsourced data (NGS).*

Reactions to the COVID-19 pandemic put a hold on C4G working at the CORS sites. They are typically located on substantial buildings and would involve too close human contact. C4G shifted its fieldwork to the *GPSonBM* part of the project, which doesn’t require person-to-person contact. The pandemic precautions limit the range from LSU one may travel in a day-trip and avoid overnight stays, but we have continued to capture a few points daily.

The primary use of the *GPSonBM* project is to improve the NGS transformation tools used to convert coordinate values from one datum to another. The significant tectonic activity of Louisiana renders older data obsolete. I believe that while the geoid modeling will be most aided by the other phases, the *GPSonBM* phase will prove useful as well.

## **C4G follows these recommended *GPSonBM* procedures:**

1. Reconnoiter marks on the NGS list for suitability.
2. Note any changes to the existing mark description. (Optional: use observer field log.)
3. Take photos of the mark close up so any legible stamping is readable.
4. Unload equipment, and setup Tripod, Antenna, Receiver, Battery. Make sure the station will be observable comfortably by the operator. Verify that the internal batteries are charged. (To prevent theft and vandalism, all stations must remain within the eyesight of the operator!)

5. Setup a fixed height tripod, and brace the legs with sandbags or chain.
6. Verify antenna type, height, and plumb and record the values.
7. Mount antenna and attach the cable. It is recommended to have the antenna wire oriented north using a compass.
8. Attach cable(s) to the receiver
9. If using external battery connect the receiver to a battery making sure it powers up.
10. Turn on the receiver and check to make sure the data is logging.
11. Take photos of the mark at eye level that will help others to identify the mark in the future.
12. Collect a 4-1/2 hour GPS data file, and all other metadata needed to submit to OPUS.

### Reporting GPS Observations with OPUS Share

13. Start with a 4-1/2 hour GPS data file, mark description, and a close and a horizon photo.
14. Visit <http://geodesy.noaa.gov/OPUS/>
15. Enter the required data file name, antenna type, height, and email address.
16. Click the **Options** button at the bottom change it to say “Yes, share” (Do not share if it is a trial submission.)
17. Hit the **Upload-to-Static** button.
18. On the subsequent page, there will be two buttons: [mark has a PID] [mark is NEW to NGS] click the relevant button to add photos and a description.
19. Within 20 minutes or so, receive two automated emails:
20. OPUS solution first.
21. If successful, then review and approve the shared solution.

We have learned the hard way to limit our observations to one or a few marks that are intervisible for the security of our equipment. With only one exception, we have good cooperation from the public when needed and only had one instance of a bad actor.

NGS on their website (<https://www.ngs.noaa.gov/GPSonBM/>) writes:

*Help improve the National Spatial Reference System*

*(NSRS) and prepare for the NSRS modernization in 2022 by participating in the GPS on Bench Marks (GPS on BM) for the Transformation Tool campaign. Your efforts will support the following objectives:*

- *Improve the **2022 Transformation Tool**, which will enable conversions from current vertical datums to the North American-Pacific Geopotential Datum of 2022 (NAPGD2022) and will be integrated into the NGS Coordinate Conversion and Transformation Tool (NCAT).*
- *Update Passive Control Status: mark recoveries and shared solutions provide NGS and other users of the NSRS with insight into the health of the passive control network and updated information for project planning.*
- *Automatic Reprocessing in 2022: Shared data will be automatically reprocessed and given new coordinates after the NSRS modernization occurs in 2022.*

A successfully shared submission results in a datasheet that is available online at <https://www.ngs.noaa.gov/opusmap/>. Below is an example of a shared submission for MAC with PID BJ3662 in East Feliciana Parish.

**Shared Solution**

PID: BJ3662  
 Designation: MAC  
 Stamping: MAC 1984  
 Stability: May hold commonly subject to ground movement  
 Setting: Set in top of concrete monument  
 Mark Condition: G  
 Description: RECOVERED IN GOOD CONDITION  
 Observed: 2020-01-15T16:32:00Z [more obs: 2020-02-11](#)  
 Source: OPUS - page 1801.18

**Close-up View**

REF. FRAME	NAD_83(2011)	EPOCH	2010.0000	SOURCE	NAVD83 (Computed using GEOID15)	UNITS	m	SET PROFILE	DETAILS
LAT:	30° 49' 58.19729"		± 0.002 m	UTM 15		SPC 1702(LA S)			
LON:	-90° 52' 29.12444"		± 0.012 m	NORTHING:		3413008.325m		238677.982m	
ELL HT:	40.605		± 0.017 m	EASTING:		703263.949m		1043873.468m	
X:	-83685.665		± 0.012 m	CONVERGENCE:		1.08963611°		0.22929444°	
Y:	-5480909.464		± 0.015 m	POINT SCALE:		1.00010968		1.00003095	
Z:	3250014.096		± 0.008 m	COMBINED FACTOR:		1.00010330		1.00002457	
ORTHO HT:	67.741		± 0.053 m						

**CONTRIBUTED BY**

[L.S.U. Center for Geoinformatics](#)

**Horizon View**

**Map** **Satellite**

MAC  
 Get directions: [To here](#) (nearest road)

Google  
 Map data ©2020 Terms of Use Report a map error

Figure 1 Example of a shared submission for MAC in East Feliciana Parish.



An important point that is helpful to the whole project is that anyone with a suitable dual-frequency GPS receiver can help improve the data available from Louisiana. With the right equipment, anyone can make a 4-plus hour observation and submit it through OPUS can contribute to the program and help improve NGS' results.

It isn't technically difficult. It does take a commitment of some time and assets. Imagine the benefits of all the firms in Louisiana contributing one needed observation. Heck, what if only half the first did so? Are you tired of doubting the control YOU use for projects and risk YOUR license with? With or without input from others, C4G will do our part.

The LSU Center for GeoInformatics is the home of the Louisiana Spatial Reference Center; creator and host of Louisiana's NGS CORS network. LSU created C4G to focus on research and services in Geodesy and GeoInformatics; as a result, C4G has established Louisiana's only Statewide GPS/GNSS Real-Time Network, C4GNet which is entirely funded by subscribers to the RTN.

Tony Cavell is the Surveyor for the Center for GeoInformatics at LSU. He first joined C4G in 2005. He is a licensed Professional Surveyor and Certified Federal Surveyor.



## NICHOLLS GEOMATICS PROGRAM UPDATE

By: Dr. Esra Tekdal-Yilmaz

Greetings from the Geomatics Program at Nicholls State University.

It has been a tough semester with hurricanes and COVID-19 but we taught our geomatics courses face to face and ready to wrap up FALL 2020. As Department of Applied sciences we were able to

secure Student technology grant (\$57,472) to update some of our computers in Geomatics lab. We are looking forward to spring 2021 semester as we get ready for ABET. You will be receiving Alumni and Employer ABET Surveys from us and we need your help and support through this process.



## LEGISLATIVE UPDATE

By: Harper Duncan & Associates, LLC

Looks like Louisiana Legislative Sessions are over for the year. At least we can only hope so! The Second Extraordinary Session started Monday, September 28th, and ended on Friday, October 23rd. Most of this session was a battle between Governor John Bel Edwards and the Legislature on who has the most power regarding emergency declarations. There were a number of bills that were not heard in the Regular Session that were refiled and moved forward during the Second Special Session.

Among the bills that were re-filed was Senate Bill 17 by Senator Hewitt. The primary purpose of the bill is to waive the college exit exam for Professional Engineers that have graduated from an accredited engineering school and a minimum of 20 years of experience. Those engineers will still be required to take the professional exam. There were no changes to the requirements for licensure or certification for Professional Land Surveyors.



## SLCC UPDATE

By: Michael O'Pry

Classes are still remote, except for labs that are still in person with social distancing. The classes are going well. Feedback from students has been mostly positive about the remote coursework. We

are moving ahead and using feedback to make the courses even better. We are only moving in one direction, that's forward to better courses for student learning.





# FROM AROUND THE STATE.....

## **DISTRICT 1 – John Teegarden PLS, Chairman**

Contact John at [jteegarden@ascellc.com](mailto:jteegarden@ascellc.com) for District information.

## **DISTRICT 2 – Andrew Szush PLS, Chairman**

Hope this finds everyone in good health. We will be exploring the options for holding district meetings in the near future and look forward to hearing from all members once again. Please remember that you can access the LSPS 2020 Convention online to obtain your necessary PDHs. Contact Andrew at [andrew.Szush@tbsmith.com](mailto:andrew.Szush@tbsmith.com) for District information.

## **DISTRICT 3 – Shawn MacMenamin PLS, Chairman**

Contact Shawn at [smacmenamin22@gmail.com](mailto:smacmenamin22@gmail.com) for District information

## **DISTRICT 4 – Jason Westermann, Chairman**

Contact Jason at [redchuteland@gmail.com](mailto:redchuteland@gmail.com) for District information.

## **DISTRICT 5 - Jon Braswell, Chairman**

Contact Jon at [jbraswell@sehuey.com](mailto:jbraswell@sehuey.com) for District information.

## **DISTRICT 6 – Patrick Staiano PLS, Chairman**

We are planning the annual joint LES/LSPS ethics meeting. Additional details will be sent out to members.

Contact Patrick at [pstaiano@ntbainc.com](mailto:pstaiano@ntbainc.com) for District information.

## **District 8 – W. Aaron Wood, PLS, Chairman**

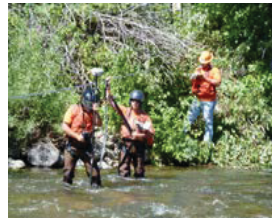
Contact Aaron at [aaron.wood@woodsurveying.com](mailto:aaron.wood@woodsurveying.com) for District information.

## **District 9 – Jules Toups, PLS, Chairman**

Contact Jules at [jtoups@pls.la](mailto:jtoups@pls.la) for District information.



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### OFFICE LOCATIONS

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SAN ANTONIO, TX  
210-366-8799

MIDLAND, TX  
432-276-3300



# BENEFITS OF JOINING LSPS

The Louisiana Society of Professional Surveyors is organized to enhance the Surveying Profession. Our goal is to carry out our mission by maintaining high technical and cultural standards in our field, working with educational institutions for the maintenance of high standards of education in Land Surveying, requiring a high standard of ethical practice by our members, and encouraging the personal and professional development of young Land Surveyors.

## BENEFITS OF MEMBERSHIP IN OUR SOCIETY INCLUDE:

- **NETWORKING** – Who knows more about opportunities within a field than those actually involved in it? No one. The roster of our society is a gold mine to get your network rolling.
- **EDUCATIONAL BENEFITS** – Want to stay on top of your profession, learn new techniques and strategies? There are endless opportunities for upgrading your experience through seminars, listening to top speakers in your field, workshops, and just plain old-fashioned sharing of information among your peers.
- **LEADERSHIP OPPORTUNITIES** – It isn't enough to just join a District of the society. Take advantage of the many opportunities to get involved in committee work, serve some time as an officer, or help coordinate events. The more active you are, the more visible you become to the other members. This can only be a plus in your career future.
- **RESUME UPGRADING** – As our profession becomes more complex and difficult to master, the need for continued certification becomes more prevalent.
- **SOCIAL BENEFITS** – Don't overlook the fun factor. Groups of people with common interests are always sources of new friends. You speak the same language, laugh at the same jokes and dream similar dreams. Becoming active opens up many possibilities!

The new age of advanced technology has created the need for land surveyors to guard their profession. Our society works with the Louisiana Professional Engineering & Land Surveying Board (LAPELS) in the process of establishing the current continuing professional development requirements.

### We have been involved with many surveying issues...

- ◆ our society began in 1961 and currently has over **525 members**
- ◆ we are approved by the LAPELS Board as a **seminar sponsor**
- ◆ LSPS is an affiliate of the American Congress on Surveying and Mapping, and the **National Society of Professional Surveyors**
- ◆ we have a standing Legislative Committee to **review legislation** that may affect the surveying profession
- ◆ the LSPS Liaison Committee communicates with the **LAPELS Board** on issues that affect land surveyors
- ◆ we host an Annual Convention - with exhibitors displaying the latest in surveying equipment, and LSPS offering Personal Development Hours to meet licensing requirements
- ◆ the LSPS Executive Board continually working to upgrade member benefits.



# Louisiana Society of Professional Surveyors

Affiliate of the National Society of Professional Surveyors

9643 Brookline Avenue, Suite 108, Baton Rouge, LA 70809 • Phone (225)925-5800 • Fax (225)925-5802

lsp@lsp.net • www.lsp.net

PLEASE COMPLETE THE FOLLOWING SPACES:

Registration Number: \_\_\_\_\_

Name: \_\_\_\_\_  
LAST FIRST MIDDLE

P.L.S. P.E. Other \_\_\_\_\_

Home Address: \_\_\_\_\_  
STREET CITY & STATE ZIP CODE

Home Phone: \_\_\_\_\_

Business Affiliation: \_\_\_\_\_

Position or Title: \_\_\_\_\_

Business Address: \_\_\_\_\_  
STREET CITY & STATE ZIP CODE

Business Phone: \_\_\_\_\_

Fax Phone: \_\_\_\_\_

E-MAIL: \_\_\_\_\_ UPON MEMBERSHIP ACCEPTANCE, NAME, EMAIL, WORK AND/OR HOME PHONE NUMBER CAN BE ADDED TO THE WEBSITE DISTRICT CONTACT PAGE. YES(CIRCLE CHOICE) NO

Education: \_\_\_\_\_  
SCHOOL DATE GRADUATED DEGREE

Surveying Experience \_\_\_\_\_  
# YEARS

### LSPS Member SPONSOR:

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

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

I hereby apply for admission into the Louisiana Society of Professional Surveyors as a \_\_\_\_\_ Member, and agree to comply with the Charter, By-Laws and the Code of Ethics of the Association. Please assign me to the following district:

- |                           |                         |                          |
|---------------------------|-------------------------|--------------------------|
| District 1 – New Orleans  | District 2 – Houma      | District 3 – Lafayette   |
| District 4 – Shreveport   | District 5 – Monroe     | District 6 – Baton Rouge |
| District 7 – Lake Charles | District 8 – Alexandria | District 9 – Covington   |
|                           |                         | Out of State             |

Date: \_\_\_\_\_

APPLICANT'S SIGNATURE

## CLASSES OF MEMBERSHIP

### RESIDENT REGISTERED MEMBER

Any person whose legal residence is the State of Louisiana and holding a license from the State of Louisiana authorizing such person to engage in the practice of Land Surveying. Resident Registered Members shall be entitled to vote on all matters and hold any Office in the Corporation.

**INITIATION FEE \$10.00 ANNUAL DUES \$180.00**  
*INCLUDES NSPS MEMBERSHIP*

### NON-RESIDENT REGISTERED MEMBER

Surveyors registered in the State of Louisiana but not a resident of Louisiana. Non-Resident Members shall be entitled to vote but shall not be eligible to hold any Office in the Corporation.

**INITIATION FEE \$10.00 ANNUAL DUES \$140.00**

### STUDENT MEMBER

Any full-time undergraduate student of a college or vocational school recognized by the Board. Student Members shall not be eligible to vote or hold any Office in the Corporation.

**ANNUAL DUES \$20.00**

### ASSOCIATE MEMBER

Any person working toward licensure, land survey intern, or surveyor not registered in Louisiana, recognized and so admitted by the Board of Directors. Associate members shall not be eligible to vote or hold any Office in the Corporation.

**INITIATION FEE \$10.00 ANNUAL DUES \$55.00**

### AFFILIATE MEMBER

Any person not included within the definitions above provided in paragraphs 1, 2, 3 and 4 interested in advancing the cause and aims of the Corporation. Affiliate Members shall not be eligible to vote or hold any Office in the Corporation.

**INITIATION FEE \$10.00 ANNUAL DUES \$35.00**

### SUSTAINING MEMBER

Any firm or individual desiring to support the aims and objectives of the Association, who may or may not be entitled to one of the foregoing classes of Membership, may become a Sustaining Member upon application and approval by a majority vote of the Board of Directors. Sustaining Members shall not be eligible to vote or hold any Office in the Corporation, however, if a Sustaining Member also holds another class or other classes of membership that Sustaining Member class shall not infringe upon such rights and privileges.

**ANNUAL DUES \$300.00**

Credit card# \_\_\_\_\_

Expiration Date: \_\_\_\_\_

**Please return completed form with Initiation Fee and Annual Dues to LSPS at the address above.**

Rev.04/20





Issue 22 October 2020

# NSRS Modernization News

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

## New Technical Papers Released

Three new papers relating to the modernized NSRS were released recently. They are:

- [NOAA Technical Report NOS NGS 74 \(Rotation of the Mariana Plate\)](#)
- [NOAA Technical Memorandum NOS NGS 84 \(Biquadratic Interpolation\)](#)
- [NOAA Technical Memorandum NOS NGS 85 \(On the Propagation of Formal Error Estimates of Euler Pole Parameters into Modernized NSRS Coordinates\)](#)

## Updates to Blueprint Documents

All three previously released “Blueprint for 2022” documents have been updated. Each revision has significant new information, corrections and updates from their previously released versions. They will all be released in Fall 2020 or Winter 2021.

## Progress in Ongoing Projects

There are currently **20 ongoing projects** directly related to NSRS modernization around NGS. Here are highlights from a select few:

### Multi-GNSS replacement of PAGES (Project Manager: Dr. Mark Schenewerk)

Progress continues on the new GNSS software. Comparisons of float, GPS-only results to PAGES are very good. A preliminary multi-GNSS float solution was recently completed and is promising. Release for beta testing in activities such as OPUS should begin in spring, 2021.

### Standardized Data Formats (Project Manager: Dr. Dan Gillins)

This project will develop a single file format for each type of geodetic observable which NGS will support in the modernized OPUS (raw GNSS, GNSS-based vectors, leveling, relative gravity and total stations). Some of these formats are likely to be XML-based, sharing commonalities with the forthcoming [GNSS Vectors Exchange \(GVX\)](#) format.

### GPS on BM (Project Manager: Galen Scott)

As of October 1, only 15 months remain to add data to the GPS on Bench Marks 2022 Transformation Tool Campaign. We have recently passed 10,000 completed 10km hexagons around the country, but this data is concentrated in specific areas. Large data gaps remain in significant regions of the country. Without new data, NGS will be forced to interpolate over these gaps creating larger uncertainties when transforming between NAVD 88 and NAPGD2022.

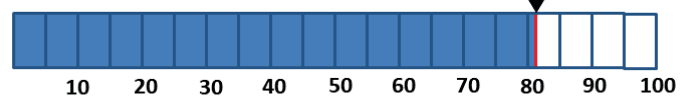
### GRAV-D (Project Manager: Jeffery Johnson)

GRAV-D was able to resume field work in late August 2020 for 3 weeks. NOAA has established a robust COVID-19 mitigation strategy that has allowed us to get back to work.

GRAV-D progress last quarter: **up 0.3% to 81.9%**

**Behind Schedule!**

Recently: Grand Junction, CO



Schedule: **87.0%**

# WANT TO GET INVOLVED? YOU CAN HELP

BY VOLUNTEERING TO WORK WITH ONE OF THE FOLLOWING:

Legislative Committee

Education Committee

Newsletter Committee

Seminar & Technical Education Committee

Scholarship Committee

Promotion of the Profession Committee

and others.

If you would like more information, please call the LSPS office at 225/925-5800 or email [lsps@lsps.net](mailto:lsps@lsps.net).

*Thanks!*



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## Louisiana Society of Professional Surveyors

Affiliate of the National Society of Professional Surveyors  
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• Email: [lsps@bellsouth.net](mailto:lsps@bellsouth.net) • Website: [www.lsps.net](http://www.lsps.net)



### EDUCATION FOUNDATION SCHOLARSHIP APPLICATION

Ten \$500 Scholarships will be awarded yearly to College Students residing in Louisiana and pursuing a career in Land Surveying. (This scholarship is not an automatic rollover) Applicants must be working towards the 30 hours required by the LAPELS board for licensure or toward a degree in a LAPELS acceptable Geomatics program. The scholarships will be awarded in one lump sum payment. Preference for scholarships will be given to applicants that have surveying experience.

#### Return this application along with:

- School transcript
- Three letters of recommendations. (Professional Land Surveyors or LSPS members preferred. No family).
- Brief summary of work history in the surveying field (a resume is sufficient).
- Proof of school enrollment for following semester/quarter.

#### 1. Personal Information

Name \_\_\_\_\_

Address \_\_\_\_\_ Parish \_\_\_\_\_

\_\_\_\_\_ Phone \_\_\_\_\_

Email \_\_\_\_\_

**\*\*Application Deadline is January 1, 2021.**

**APPLICATIONS NOT SUBMITTED BY THE DEADLINE WILL NOT BE CONSIDERED.**

All scholarships will be awarded by February 12, 2021.



**SCHOLARSHIP APPLICATION**

A \$1000 Scholarship is awarded to a High School Senior residing in Louisiana, planning to pursue a career in surveying through the "Geomatics" program offered at Nicholls University. The scholarship is awarded in 4 equal payments over a 4-year period, as long as the recipient remains a full-time student and maintains a 3.0 cumulative grade point average. The Foundation requires that the recipient submit their class schedule at the beginning of each semester and their grades at the end of each semester.

**Return this application along with:**

- School transcript,
- Three character recommendations in the form of letters to LSPS (no relatives) and extracurricular activities to the address above. **DEADLINE March 1, 2021.**

1. **Personal Information**

Name \_\_\_\_\_

Address \_\_\_\_\_ Parish \_\_\_\_\_

\_\_\_\_\_ Phone \_\_\_\_\_

Parent/Guardian \_\_\_\_\_

2. **High School Information**

School Name \_\_\_\_\_ Phone \_\_\_\_\_

School Address \_\_\_\_\_

Principal/Counselor \_\_\_\_\_

**THIS SECTION MUST BE CERTIFIED BY YOUR HIGH SCHOOL COUNSELOR**

**Academic Background**

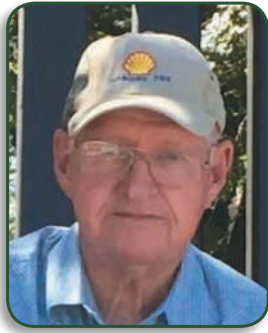
ACT Composite Score \_\_\_\_\_

High School Grade Point Average \_\_\_\_\_ (seven semesters)

\_\_\_\_\_ **Signature of High School Counselor**



# In Memoriam...



## *Jerry W. Boswell* 1937 - 2020

A Mass of Christian Burial for Jerry W. Boswell was held at 1:00 PM on Monday, September 28, 2020, at St. Peter Catholic Church, Elmer, with Rev. Kenneth Obiekwe officiating. Interment followed in St. Peter Cemetery, under the direction of John Kramer & Son Funeral Home.

retired, Jerry started his own land surveying business which he operated over 25 years. Jerry was an avid outdoorsman for many years. Jerry was a parishioner of St. Jude Catholic Church in Sieper, Louisiana. He will be missed by all who knew and loved him.

Those left to cherish his memory include his wife of fifty-eight years, Mary Vermaelen Boswell; his four children, Mitzi Eason, Michael Boswell (Amy), Mark Boswell (Laura), and Mona Erato (Ray); seven grandchildren, Andrew Eason, Jennifer Eason, Cody Boswell, Carrie Boswell, Thad Erato, Ellinore Erato, and Chloe Erato; two great-grandchildren, Mathew Eason and Miles Eason. Those also left to cherish include two sisters, Linda Bordelon and Debra Kimberly (Jimmy); one brother, Jeff Boswell; along with numerous nieces, nephews, and extended family.

Visitation was held from 9:30 AM until 12:30 PM on Monday, September 28, 2020, at St. Peter Catholic Church. Recitation of the Holy Rosary was held at 12:30 PM on Monday, September 28, 2020, at the church.

Jerry W. Boswell, 82, of Alexandria, passed away on September 25, 2020, at Regency House.

Jerry is preceded in death by his parents, Lonnie and Selma Jeter Boswell; and two brothers, Joseph L. Boswell and Johnny D. "Cookie" Boswell.

Jerry was born on September 30, 1937. He will be remembered as a devoted husband, father, grandfather, and friend. He worked for the Louisiana Department of Transportation and retired after 30 years of service. Once

Pallbearers honored to serve were Andrew Eason, Jennifer Eason, Cody Boswell, Thad Erato, David Petre, and Rodney Dobernig.

In lieu of flowers, the family requests donations be made to St. Jude Children's Research Hospital, 501 St. Jude Place, Memphis, TN 38105, in Jerry's memory. To extend online notes of condolence to the Boswell Family, please visit [www.KramerFunerals.com](http://www.KramerFunerals.com).



## *Carl Louis Mistic* 1931 - 2020

Carl Louis Mistic, age 88, a native of Opelousas, Louisiana, and a resident of Baton Rouge, passed away peacefully at home on Tuesday, August 11, 2020. Visitation was at 10:00 am on Friday, August 21, 2020 at Our Lady of Sorrows Roman Catholic Church in Baton Rouge, Louisiana. A memorial service immediately followed at noon.

to establish the network of Coast and Geodetic Monuments throughout the state of Louisiana.

He received the 2006-2007 Surveyor's Excellence Award from the Louisiana Society of Professional Surveyors for his diligent efforts to enhance the Surveying industry. He was one of the original Charter members of the Society and played a key role in its establishment. In April 2011, the Society honored Carl as a founding member with 50 years of dedication, loyalty, and untiring service to the Louisiana Society of Professional Surveyors. He was a United States Navy Veteran and served on the USS Helena during the Korean War. During his time in Korea, he was awarded the Navy Good Conduct Medal, the National Defense Service Medal, the Korean Service Medal, the United Nations Service Medal, the ROK War Service Medal, and the Navy Surface Warfare Enlisted Badge.

Carl was born on August 19, 1931, the second of five children to Carlton and Gladys Mistic. He married his high school sweetheart, Mary Ann Battalio, on June 28, 1952. Carl L. Mistic P.R.L.S. performed surveying services for 19 years before founding C. Mistic Surveyor's, Inc. in 1970. Prior to operating his own businesses, of which include C. Mistic Surveyor's Inc., Surveying Services, and Spectrum Measuring, he supervised for the Louisiana Department of Transportation and various engineering firms for 15 years. Carl supervised field parties doing precise control surveys

Carl is preceded in death by parents Carlton and Gladys Mistic and sisters Ruth Newland and Gladys "Bopeep" Mistic. Carl is survived by his loving wife of 68 years, Mary Ann Battalio Mistic, his sons Russel Mistic and



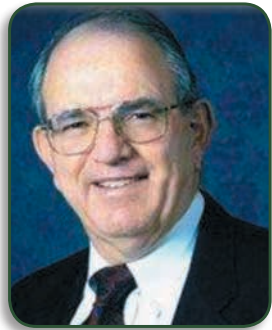
# In Memoriam...

## *Carl Louis Mistic* continued

wife, Mona, and Cory Mistic; and daughters Julie Lang and husband, Kent, Kathy Gunby, and Jo Ann Casso and fiancé Lonnie Brewer. He is also survived by his sister, Gloria Lastrapes, and brother James "Buster" Mistic and his wife Sandra, grandchildren Melinda West and husband Robert, Josh Gunby and fiancé, Paige, Kevin Mistic and wife Jackie, Allison Sprouse and husband Johnathon, Cory Paul Mistic, II and wife Jana, Travis Gunby, Casey Mistic and wife Silke, Rustin Mistic and wife Erin, Lawrence Casso and wife Rachel, and Kristin Rabalais and husband

Dwayne, and his great-grandchildren Kyle, Brandon, Christopher, Collin, Evie, Jackson, Carrington, Hudson, Liam, Ella, Dylan, Kennedy, Colton, Gabriel, Caydence, Katelyn, Olivia, and Luca.

Carl was a very loving son, brother, husband, father, grandfather, and great-grandfather and cherished every moment he was given. His life inspired and established the foundation of his family. He was an excellent role model, a hardworking family man, and a force to be reckoned with.



## *C. L. Jack Stelly* 1942 - 2020

A 10:00 AM Mass of Christian Burial was held on Wednesday, October 7, 2020, in St. Edmond Catholic Church in Lafayette, for C. L. Jack Stelly, 78, who passed away Sunday afternoon, October 4, 2020 at his residence in Lafayette, with family members at his side. Entombment was in St. John Mausoleum.

his career in 1964 as a land surveyor for John E. Chance and Associates, then opened his own business in 1978, C. L. Jack Stelly and Associates, Inc. He was a member of LSPS, NSPS and ACSM, as well as Board Member of the Petroleum Club of Lafayette, and also former Board Member of the Professional Engineering and Land Surveying Board. Outside of business duties, Jack enjoyed spending quality time with his family and friends. He enjoyed hunting and fishing with his sons, son-in-law and grandsons. His biggest joy was spending time on his tractor at his farm in Arnaudville.

Reverend Gary Schexnayder and Reverend Gilbert J. Dutel officiated the Mass and conducted the funeral services.

Pallbearers were C. L. Jack Stelly, Jr., Marcus Stelly, Zurben Barras, Jacob Barras, Alex Barras, Ben Stelly, Jacques Stelly and Charles Stelly. Honorary Pallbearers were his brothers, his brothers in law, and friends, John D. Miller and Douglas Taylor.

Survivors include his beloved wife, Barbara Zerangue Stelly; sons, C. L. Jack Stelly, Jr. and wife, Jennifer, and Marcus Stelly and his wife, Hallie; daughter, Tammy Barras and husband, Zurben; grandchildren, Taylor Barras, Jacob Barras and Alex Barras, Kathryn Stelly, Caroline Stelly, Katelyn Stelly, Jacques Stelly, Olivia Stelly, and Charles Stelly; brothers, Charles Goudeau, Dale Stelly and wife, Sandra, David Stelly, Ronald Stelly and wife, Neva, Mike Stelly and wife, Barbara, and sister, Debbie LeBlanc and husband, Tony; mother in law, Eva Zerangue; sister in law, Sandra Palmisano and husband, D. J.; brother in law, Craig Zerangue and wife, Cindy, and numerous nieces, nephews and godchildren. He was preceded in death by his parents, Lee and Gertie Pitre Stelly, and father in law, Ivy Zerangue.

The family requested that visitation be observed in Martin & Castille's DOWNTOWN location on Tuesday, October 6, 2020 from 5:00 PM to 9:00 PM and on Wednesday, October 7, 2020 from 8:00 AM until departure time of 9:45 AM to St. Edmond Catholic Church. A Rosary was prayed Tuesday evening at 6:30 PM in Martin & Castille Funeral Home.

A native of Arnaudville and resident of Lafayette for most of his life, Jack as he was known by his family and friends, was a loving husband, son, father, brother, grandfather. He began

In lieu of flowers, the Stelly family asked that memorial contributions be made in Mr. C. L. Jack Stelly's name to Hospice of Acadiana, 2600 Johnston Street, Suite 200, Lafayette, Louisiana, 70503.

A heartfelt appreciation is extended by the Stelly family to Hospice of Acadiana and Vee's Sitter Service.



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