

LOUISIANA CIVIL ENGINEER

Journal of the Louisiana Section

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A Real Time Kinematic GPS unit being utilized to establish state plane coordinates and orthometric heights on validation points for a coastal Louisiana LiDAR data collection project (photo courtesy of Forte and Tablada, Inc.)

FEATURES:

Coordinate Systems: Changes Important to Survey, Design & Construction Layout Process

32nd Annual Fall Conference - September 21 and 22, 2002



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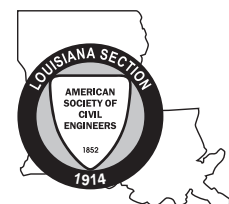
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The Louisiana Section is located in ASCE Region 5 that consists of the Louisiana, Mississippi, Alabama, Georgia, Florida Sections, and Puerto Rico.

President's Message

By Tonja Koob Marking, PhD, PE, D.WRE, DFE, MBA, PMP, CFM

With this being my last president's message, I want to start by thanking the 2021-2022 board for their assistance and guidance throughout the year. No woman is an island, and I could not have managed my responsibilities without them. Additionally, I thank all our Section members for your continued involvement and support of Louisiana ASCE through local and state conferences, luncheons, and volunteer opportunities.

ASCE has a couple of conferences coming up this fall. The New Orleans Branch will host the 32nd annual fall conference with ACI in Kenner, Louisiana on September 21 and 22, 2022. The two-day conference offers 13 professional development hours for PE educational requirements. More information on the fall conference is available at <https://www.louisianacivilengineeringconference.org/>. The National ASCE Convention will be October 23-26, 2022, in Anaheim, California. The conference will focus on a new era of infrastructure and offer PDHs in topics including emerging technologies, up-to-the-minute insider information on implementing the Infrastructure Investment and Jobs Act at the federal and state levels, making infrastructure more resilient to cyberattacks and extreme weather events, and managing risk, new funding for resilience and energy broadband. More information on the national conference is available at <https://convention.asce.org/>.

I encourage each of you to take advantage of the free training, PDHs, webinars, and other professional resources available as part of your membership in ASCE. I also encourage you to consider becoming board certified in your areas of expertise. ASCE board certifications recognize civil engineers who have demonstrated advanced knowledge and skills in their specific specialty area. ASCE currently offers board certification in water resources, ocean, geotechnical, ports, navigation, and coastal engineering. Certifications within the engineering and scientific community have demonstrated substantial benefits to individual participants, clients, and the public including:

- Advances qualification beyond licensure recognized by clients, employers, peers, and the public.
- Provides tangible evidence that an individual has excelled in their specialty field.
- Demonstrates attainment of a body of knowledge within a specialty area of civil engineering and commitment to stay current on new technological innovations.
- Demonstrates commitment to professionalism through its ethics and continuing professional development requirements.
- Provides clients with an assurance that they are engaging highly qualified participants on their projects.
- Supports the concept of Qualifications Based Selection (QBS).

If you have questions about board certification, please contact me or Kirk Lowrey, our President-elect.

Lastly, thank you for the opportunity to serve as your president this past year. It has been an honor to represent our membership and state at ASCE headquarters.

I look forward to continuing to serve our members with Miles Bingham and the History and Heritage Committee.



Tonja Koob Marking, PhD, PE, D.WRE, DFE, MBA, PMP, CFM



Coordinate Systems: Changes Important to Survey, Design and Construction Layout Process

By Brad Holleman, PLS, EI



Brad Holleman, PLS, EI

A coordinate system is the foundation for most civil engineering projects yet there seem to be so many to choose, which one should I pick? I hate to be the bearer of bad news, but a new coordinate system is on its way, and it's going to be a big deal (and better than before). I am a decent surveyor, but a poor geodesist (and an even worst writer) so my focus of this article will remain topical and practical. I will cover some basics in coordinate system nomenclature, talk a little on the history of coordinate systems, what changes are coming and finally 7 practical tips about coordinate systems to keep your errors and omissions insurance premiums from going through the roof.

Projects have become entirely more complicated than the vectors we drew on green graph paper in Statics class. Of all the variables we chose to ignore in college, one of the most complicated is the Earth is not flat, sorry Flat-Earthers. Computing power and technology have exponentially developed in the areas of 3D modeling and designing in 3D space, but until a contractor can build a project with a set of VR goggles instead of a set of paper plans, we need to continue putting our 3D projects on 2D paper. The way we accomplish this is by projecting the curved Earth onto a flat plane, accept a certain amount of distortion, and call it a projected coordinate system (like the Louisiana state plane coordinate systems). The federal agency that defines and maintains the National Spatial Reference System (NSRS), which is a "consistent coordinate system that defines latitude, longitude, height, scale, gravity, and orientation" in the United States, is NOAA's National Geodetic Survey (NGS). A component of the NSRS coordinate system is mathematically defining the roundness of the Earth. As it turns out, the Earth is not round but is best represented with an ellipsoid model. The most common ellipsoid model is the Geodetic Reference System 1980 (GRS80). The GRS80 is the basis for the North American Datum of 1983 (NAD83). NAD83 is the geometric datum (think latitude, longitude and ellipsoid height) that is the basis for all state plane coordinate systems, include ours here in Louisiana. We currently have three State Plane coordinate zones (think Northing and Easting) in Louisiana, LA North Zone 1701, LA South Zone 1702, and LA Offshore Zone 1703. These coordinate zones were created by NGS but the definition is included in Louisiana law (Revised Statue 50:7). The zones are defined in the law as follows:

- C. The area now included in the following parishes shall constitute the North Zone: Avoyelles, Bienville, Bossier, Caddo, Caldwell, Catahoula, Claiborne, Concordia, DeSoto, East Carroll, Franklin, Grant, Jackson, LaSalle, Lincoln, Madison, Morehouse, Natchitoches, Ouachita, Rapides, Red River, Richland, Sabine, Tensas, Union, Vernon, Webster, West Carroll, and Winn.
- D. The area now included in the following parishes shall constitute the South Zone: Acadia, Allen, Ascension, Assumption, Beauregard, Calcasieu, Cameron, East Baton Rouge, East Feliciana, Evangeline, Iberia, Iberville, Jefferson, Jefferson

Davis, Lafayette, Lafourche, Livingston, Orleans, Plaquemine, Pointe Coupee, St. Bernard, St. Charles, St. Helena, St. James, St. John the Baptist, St. Landry, St. Martin, St. Mary, St. Tammany, Tangipahoa, Terrebonne, Vermilion, Washington, West Baton Rouge, and West Feliciana.

- E. The area now included in that area of the Gulf of Mexico defined as being within 200 miles of the state of Louisiana shall constitute the Offshore Zone.

The best analogy I heard that helps me imagine what a state plane coordinate system looks like is to take a wire mesh globe with a flash light in the center of the globe. Then take a flat piece of paper and place it on the surface of the globe. The shadows of the wire mesh will create a grid on the piece of paper. The grid on the piece of paper is a projected coordinate system but the paper grid does not match the globes grid exactly. Even though geodesist can take that flat piece of paper, curl it, and make it go through the wire mesh to improve the distortion of the grid on the piece of paper, distortion in the grid distance on the piece of paper and the "ground" distance on the globe are not exact. This distortion in the grid and ground distance is called the *scale factor*. The actual distance on the ground (in this example on the surface of the wire mesh globe) is determined by multiplying the scale factor by the grid distance. Lets take a look at an example to see how this can effect projects in Louisiana...

Forte and Tablada's office in Baton Rouge has a scale factor of 0.99995276. If you have two points in AutoCAD 1000 feet apart near our office, the actual distance on the ground of those two points is 999.95. Please keep in mind that even though surveyors often publish their Northings and Easting to the fourth decimal place, our measurements are not that precise. The 0.05 feet in 1000 feet only includes distortion of the coordinate system, it does not include any form of measurement error, like the rodman checking his phone during a measurement and getting off plumb.

Each civil project has a certain amount of allowable error whether it is defined in the project scope or unspoken. Scale factor is a source of systemic error in a project and should be considered for precise projects. The design and construction of a residential subdivision in Louisiana will not typically be affected by not properly addressing scale factor, but can be a major factor in a precise project like the layout of the LIGO facility in Livingston Parish.

Reader beware, I am a Louisiana surveyor. Another source of systemic error in your project is the elevation factor which can become a large source of distortion in high elevations. I encourage you to research

the “combined scale factor” which is a product of the grid scale factor and the elevation factor for projects with high elevations.

State plane coordinate systems are great in placing our 3D world onto a 2D X-Y plane but we can’t ignore the third dimension. The third dimension not included in our state plane coordinate system is elevation. Elevations are address by defining a vertical datum (referenced to sea level). Historically, the vertical datum was established by holding the elevation of a point in Quebec Canada and running levels across the country to points set in ground called passive benchmarks. NGS is the agency responsible for providing communities with these benchmarks. A surveyor would then have to level from a nearby NGS benchmark to the project site to establish elevations referenced to the vertical datum. Louisiana surveyor’s had the added issue of the ground upon which the benchmarks were set is sinking through a process called subsidence. Luckily for me, my career started in the age of Global Positioning Systems (GPS). NGS did the calculations and created the models that allow surveyors to access

the vertical datum and derive orthometric heights (elevations) based on GPS observations. In order to calculate the orthometric height, we need to know the distance a point is above the ellipsoid model (which is measured by GPS) and the distance from the ellipsoid to the sea level. Unfortunately, another complication is sea level has hills and valleys due to Earth’s gravitational forces. Due to these irregularities, sea level cannot be mathematically calculated, therefore it has to be measured and modeled as a GEIOD. Luckily NGS came to the rescue and created a GEOID model for us to use in determining orthometric heights from GPS observations. The GEOID model has seen many versions over the years due to the incorporation of more gravity measurements and the most current is GEOID 2018.

So far we have looked at the different components and make up of the coordinate systems we use for civil projects, but as I mentioned previously, changes are coming. Before we dive into the changes, let’s take a look at the historical changes in coordinate systems.

Table 1 below, taken from NGS’ website, are the horizontal datums in use today. Please note that the current realization is 2011. I suggest adding this information to your plan sets when listing the horizontal datum as NAD83 (2011).

TABLE 1: Current Horizontal Datum for United States and Territories

Datum Name (Realization)	Region
North American Datum of 1983 (2011)	North American Plate
North American Datum of 1983 (PA11)	Pacific Plate
North American Datum of 1983 (MA11)	Mariana Plate

The reason for adding the (2011) realization is the horizontal datum has been labeled as NAD83 since 1986 with the below versions (realizations) listed in Table 2 from NGS’ website.

TABLE 2: SUPERSEDED Horizontal and Geometric Datum(s) for United States and Territories

Datum Name (Realization)	Dates*
North American Datum of 1983 (NSRS2007)	2007-2012
North American Datum of 1983 (HARN)	199x*-2007
North American Datum of 1983	1986-199x*
North American Datum of 1927 (NAD27)	1927-1986
North American Datum (NAD)	19xx-19xx
United States Standard Datum (USSD)	18xx-18xx

*Dates signified with an "x" reflect that different states began using the High Accuracy Reference Network or HARN realization of NAD 83 in different years.

The most current vertical datum is the North American Vertical Datum of 1988 (NAVD88) with the previously superseded datum being the National Geodetic Vertical Datum of 1929 (NGVD29).

In summary, the most current horizontal datum is NAD83 (2011) while the most current vertical datum is NAVD88. If elevations are derived from GPS observations (which most are in Louisiana) then the most recent GEOID 2018 should be used. This metadata should be reported and included in the project documentation.

Now that we have reviewed the different components of coordinate systems, the past versions of the NSRS and the current datums, let's discuss the changes that are coming.

NAD83 will be replaced with the North American Terrestrial Reference Frame of 2022 (NATRF2022). Contrary to what the name indicates, we can expect NATRF2022 to be released in 2024. NGS' original schedule in 2015 for the release was projected to be this year, but delays have given us some more time to prepare. NAVD88 will be replaced with the North American-Pacific Geopotential Datum of 2022 (NAPGD2022). NATRF2022 and NAPGD2022 are not just a new realization of NAD83 and NAVD88, but a complete replacement in both values and methodology.

Why are we changing the coordinate system; if it ain't broke, don't fix it. Well, the current system is kind of broken. NAD83 is non-geocentric by about 2.2 meters (7.2 feet) and NAVD88 is both biased by approximately one-half meter (1.6 feet) and tilted by approximately one meter (3.2 feet) from coast to coast. The new coordinate system will abandon the ground benchmarks and rely on the Global Navigation Satellite Systems (GNSS). GNSS is a term used to describe all navigation satellites, not just the American satellites commonly called GPS. NGS also has a project called Gravity for the Redefinition of the American Vertical Datum (GRAV-D) near completion. GRAV-D consists of collecting gravity measurements to create the new GEOID 2022 model.

In short, the current NSRS (recall this is the term for the entire system of datums and benchmarks) was established utilizing ground benchmarks and measured with terrestrial surveying (geodetic theodolites and geodetic levels). GPS technology has allowed us access to the NSRS through the use of computer models provided by the National Geodetic Survey. Now that geodesists have more data (both in quantity and quality), it no longer makes sense to continue with the issues of the current system.

It is an abstract concept, but the location of an object on the Earth's surface will not suddenly move overnight in 2024, but how we define that location will. How much the defined location of an object will move in 2024 will differ based on location, but current NGS charts are reporting the below approximate shifts here in Louisiana:

- Latitude and Longitudes will shift approximately 1.1 meters, or approximately 3.6 feet.
- Ellipsoid Heights will shift approximately 1.3 meters, or approximately 4.3 feet.
- Orthometric Heights (elevations) will shift approximately 0.2 meters, or 0.65 feet.

The new NATRF2022 datum will be used to calculate a new state plane coordinate system being called the State Plane Coordinate System 2022 (SPCS2022). One of the policies of the SPCS2022 is the new coordinate system must be unique from all previous versions. NGS states, "Coordinates for all zones differ by at least 10,000 meters horizontally from previous versions of SPCS UTM, and other SPCS2022 zone layers covering the same geographic region." This means that northings and eastings will be different by at least 32,000 feet from the values we are using today. The idea being it is easier to identify a 32,000 foot mis-location of project rather than a 3 to 5 foot mis-location. The SPCS2022 project is not expected to be complete until 2024, so the changes to come have not been published at this time. Two other advantages are resulting from the new SPCS2022, scale factors closer to 1 (lower distortions) and a state wide state plane coordinate system. The state wide coordinate system means GIS users will have a way to map statewide infrastructure with lower distortions in the map.

Another change coming in 2024 is NGS will no longer be reporting SPCS2022 coordinates in US Survey feet. NGS will report in International Feet only. Did you know there are two standard definitions of a foot floating out there? In 2010, I did not know either. I was a young project manager assigned with the task of staking the proposed location of distribution power poles in line, and halfway between, existing transmission power poles. Day 1 I sent a crew out to survey the location of all the existing transmission poles. I recall staying late into the night processing the data, calculating the midpoint between each existing pole, and creating a coordinate file for the crew to stake the next day. I was sluggish getting to work the next day but had a sense of pride in staying late and getting the job done. Around my third cup of coffee, I got a phone call from my party chief, "we got a problem bubba. These coordinates are bad." Well, "bad" is not an exact quote. I went into my explanation about how I used the elevation data collected to create a 3D polyline. Verified the pole location was constructable based on the topographic survey, and adjusted some locations based on obstructions. He said, "That sounds good, but they're not lining up with the poles out here." Luckily for me, an experienced, well trained party chief saved my tail. After a couple of hours, it was found that I had set up my AutoCAD drawing in US Survey feet, but imported the data in International Feet, causing a 6 foot shift in the dataset. I learned that day the definitions of the "two" feet.

1 US Survey Foot = 1200/3937 meters

1 International Foot = exactly 0.3048 meters

That's only 0.000000609601 meters, or 0.000002 feet! The small difference in International Feet and US Survey feet will not matter on a tape measure but makes a difference when dealing with coordinate systems. This small difference became my issue when I mistakenly converted Louisiana South Zone state plane coordinates which have a northing in the 700,000 feet and the eastings in the 3 million feet.

So, changes are coming, but 2024 seems like a long time. I recall thinking the same thing about 2022 when I first heard about the changes in 2017. It will be here before you realize! Below are 7 practical tips to help you prepare for the changes and hopefully prevent an errors and omissions insurance claim.

1. **Don't convert datasets without knowing the datum.** NGS offers a coordinate transformation tool called NCAT that allows the user to convert latitudes, longitudes, northings and eastings between all datums, but the user must include the starting datum correctly.
2. **Don't mix and match datums with state plane coordinate conversions.** Each datum will have a corresponding state plane coordinate system. NAD83 (2011) latitudes and longitudes should only be converted to NAD83 (2011) state plane northings and eastings. NAD83 (2011) latitude and longitudes should only be converted to SPCS2022 northings and easting. Switching datums will cause the coordinates to be off by feet.
3. **Don't forget to set up your CAD drawings properly.** Be sure to set up your design drawings with the same datum and coordinate system as the survey. X-referencing a survey into a design drawing with a different coordinate system can cause a shift in the dataset. This shift can go unnoticed until the surveyor stakes the design in the field. Pay close attention to this detail in the year or two following the SPCS2022 release. The current AutoCAD template you are using allows for the datum to be set up automatically, but I anticipate surveys that started under the old system, will be delivered in the old system. Luckily, the coordinates will be 10,000 meters off so double check your project's location with an aerial.
4. **Don't accept a dataset without metadata.** At a minimum, the dataset should define the horizontal datum, vertical datum and state plane coordinate zone used. Do not accept data without the datum being reported.
5. **Don't forget to put the correct datums on your plan set.** Many contractors do not use your same surveyor to layout the design. Having the correct datum on the plan set communicates to the construction surveyor what should be used for layout. Using the wrong datum's latitude and longitude of a control point to layout a design will cause the project to be feet off of its intended location.

6. **Don't delete the raw survey data.** Save the raw datasets to the project folder. Saving the dataset can save time if a datum conversion is needed.
7. **Don't ignore those emails asking you to update your CAD software and GIS programs.** CAD software and other geographic software have the definitions of coordinate systems programmed for your use. Current versions of CAD software do not contain NAD83, NAPGD2022 and SPCS2022 because they have not been released. Make sure to update your software in 2024 when the coordinate system is released.

Most engineers I have spoken to consider coordinate systems to be in the surveyor's court; they ask the surveyor which coordinate system was used, then put that on the title sheet of the construction set and move on. Unfortunately, the largest mistakes I have made in my surveying career were based on a misunderstanding of coordinate systems and how important they are in the survey, design and construction layout process.

If you want to stay current on this issue, I encourage you to check for status updates on NOAA National Geodetic Survey's website at: <https://geodesy.noaa.gov/datums/newdatums/naming-convention.shtml>

NGS publishes a quarterly newsletter with the progress of this massive undertaking.

Brad Holleman, PLS, EI

Brad Holleman, PLS, EI is the Senior Vice President of Survey and Advanced Measurements for Forte and Tablada, Inc. He is a 2009 graduate of Louisiana State University with a bachelor's degree in Civil Engineering and a minor in Land Surveying. Brad was the Louisiana Society of Professional Surveyors 2020-2021 President and was awarded the 2021 Surveyor Excellence award by that same society. He is a licensed Professional Land Surveyor in the State of Louisiana and has been in the surveying industry for the past 16 years.

ASCE Region 5 News

By Rudolph Simoneaux, PE, M.ASCE, Regional Governor

MEET THE REGION 5 BOARD OF GOVERNORS

Region 5 of ASCE is comprised of all the Sections and Branches within the states of Alabama, Florida, Georgia, Louisiana, Mississippi, and Puerto Rico. One of the key initiatives of Region 5 is to be a resource to our membership by fostering collaboration between the various groups within the region including Sections, Branches, Student Chapters, and Younger Member Groups.

The Region 5 Board of Governors is here to connect you, the ASCE members of Region 5, to ASCE at the Society level.

Lawren Pratt, PE, M.ASCE - *Director, Alabama Section*

Bradley Williams, PE, M.ASCE - *Governor, Alabama Section*

Marta P. Alonso, PE, ENV SP, M.ASCE - *Governor, Florida Section*

Robert Jackson, PE, M.ASCE - *Governor, Florida Section*

Rebecca Shelton, PE, F.ASCE - *Governor, Georgia Section*

Ronald L. Schumann, Jr., PE, M.ASCE - *At-Large Governor, Louisiana Section*

Rudy Simoneaux, PE, M.ASCE - *Governor, Louisiana Section*

Jennifer Sloan Ziegler, PhD, PE, ENV SP, M.ASCE - *Governor, Mississippi Section*

Hector Colon de la Cruz, EIT, A.M.ASCE - *Liaison, Puerto Rico Section*



Rudolph Simoneaux, PE, M.ASCE

REGION 5 HONORS 2022 ASCE AWARD RECIPIENTS

By Rudy Simoneaux, PE, M.ASCE, rudy.simoneaux@la.gov

The Region 5 Board of Governors is proud to announce the following ASCE Award recipients from Region 5, who were recognized during our annual virtual awards ceremony on June 29th, 2022:

2022 ASCE State of the Art of Civil Engineering Award

Jose D. Salas, PhD, Dist.M.ASCE (Florida Section)

2022 Norman Medal Award

Farshid Vahedifard, PhD, PE, F.ASCE (Mississippi Section)

Fred Tracy (Mississippi Section)

Firas Jasim (Mississippi Section)

Masood Abdollah, S.M.ASCE (Mississippi Section)

Aneseh Alborzi (Mississippi Section)

Amir AghaKouchak, PhD, P.E, M.ASCE (Mississippi Section)

2022 International Coastal Engineering Award

Jane McKee Smith, PhD, PE, D.CE, NAE, Dist.M.ASCE (Mississippi Section)

2022 ASCE Distinguished Student Chapter Award

University of Puerto Rico, Mayagüez Student Chapter

2022 Innovation in Sustainable Engineering Award

Rodney Cook Sr. Park (Vine City, Georgia Section)

2022 Jack E. Cermak Medal

Timothy A. Reinhold, PhD, PE, M.ASCE (Florida Section)

2022 Outstanding Civil Engineer Advocate Team Award

Puerto Rico Section

2022 ASCE New Faces of Civil Engineering – Collegiate

Tiffany Ritch, S.M.ASCE (University of Florida)

Zoe Zhang, S.M.ASCE (Georgia Institute of Technology)

2022 ASCE New Faces of Civil Engineering – Professional

Katie Kelly, A.M.ASCE (Georgia Section)

2022 Hunter Rouse Hydraulic Engineering Award

Philip J. W. Roberts, PhD, P.E, F.ASCE (Georgia Section)

2021 Region 5 Civil Engineering Student of the Year Award

Christopher Carrino, S.M.ASCE (University of Central Florida)

2021 Region 5 Young Civil Engineer of the Year Award

Hector Colón-De La Cruz, EIT, A.M.ASCE (Puerto Rico Section)

2021 Region 5 Young Civil Engineer of the Year Award

Ben Cox, PhD, M.ASCE (Mississippi Section)

2021 Region 5 Civil Engineer of the Year Award

Erin Rooney, PE, M.ASCE (Louisiana Section)

2021 Region 5 Wall of Fame Award

Benjamín Colucci-Ríos, PhD, PE, F.ASCE (Puerto Rico Section)

Learn more about these award winners at

<https://regions.asce.org/region5/awards>

BOARD OF GOVERNORS COMPLETES STRATEGIC PLANNING FOR REGION 5

By Lawren Pratt, PE, M. ASCE, lawren.pratt@bargedesign.com

Strategic Planning is a systematic process that sets an ambition for an organization's future and helps determine how best to achieve it. This process requires taking a step back from the day-to-day functions of ASCE to which we have become accustomed, and putting thought into where the Region 5 Board of Governors is heading. This can be challenging! As engineers, we all tend to focus on dealing with current details. Over the past several months we held multiple sessions and tackled this from several angles. We all agreed that a strategic plan update (our most recent plan is dated 2015) is necessary to determine the direction of ASCE and Region 5 and will help ensure ensures that our governors and members are working towards a common goal to serve the Civil Engineering Profession. The Region 5 Strategic Plan reiterates our Purpose, Mission, and Vision, establishes the Value to which we commit, and provides details on the Goals we need to meet to accomplish our Mission:

Purpose

The purpose of Region 5 is to Inspire and Engage our Members:

- Develop ever-increasing excellence in their own professional, technical, and interpersonal skills and abilities,
- Grow ASCE in size, influence, and its ability to positively change communities for everyone, and
- Promote Excellence in Civil Engineering

Values

Region 5 leaders serve based on our VALUES. We are committed to our VALUES of Trust, Teamwork, Integrity, Service, Diversity, and Inclusion.

Vision

Region 5 Vision "Inspire Excellence in Civil Engineering in Region 5."

Mission

Region 5 mission is to provide resources and support to our Sections, Branches, Student Chapters, Younger Member Groups, and Institute Chapters; to represent our Region members to the Society; to uphold and enhance the integrity and ethics of the Civil Engineering profession; and to instill enthusiasm in our members.

Goals

To accomplish its mission and move toward fulfilling its vision, Region 5 has identified these five goals:

1. Effectively communicate opportunities, engagements, and concerns between the Society and Region 5's Sections, Branches, Student Chapters, Younger Member Groups, and Institute Chapters.
2. Increase intentional engagement opportunities among current members, younger members, student members, and transitioning graduates.
3. Fully integrate the Puerto Rico Section into Region 5 with representation on the Region Board of Governors, assistance on new officer transitions, and visits to section activities.
4. Increase the effectiveness, engagement, and value of the Region 5 Board of Governors.
5. Retain and Increase membership in Region 5.

Our Governors are also coming up with specific ways to accomplish each of the five goals listed above. This is intended to be a living document that will be updated occasionally as our Board of Governors meets throughout the year.

Renew Your ASCE Membership Today »

If you'd prefer to renew by phone, ASCE's Customer Service is available at (800) 548-2723 (ASCE) or +1 (703) 295-6300 (International) between 9:00 a.m. – 6:00 p.m., E.T., Monday – Friday to assist you through the process. Or you can simply mail your completed renewal package back to us at Membership Department, P.O. Box 79084, Baltimore, MD 21279.

Thank you in advance for renewing your 2022 membership, we look forward to another great year.

Sincerely,
Curtis Nunley, CAE, Aff.M.ASCE
Director, Member Services



AMERICAN SOCIETY OF CIVIL ENGINEERS
800.548.2723 • +1 703.295.6300 (International)
member@asce.org

ASCE WORLD HEADQUARTERS | 1801 Alexander Bell Drive, Reston, VA 20191-4382

ASCE 2022 CONVENTION - ANAHEIM CALIFORNIA



Now is the time to make your plans to join us at the ASCE 2022 Convention in Anaheim, California.

Register now to save \$100

The ASCE 2022 Convention is just around the corner. Register now for inspiring presentations focused on emerging technologies and how the Infrastructure Investment and Jobs Act (IIJA) will impact your organization.

We'll kick off the convention with an opening plenary panel, The IIJA State of Play: The Inside Track on Implementation. Speakers include Becky W. Keogh, secretary of the Arkansas Department of Energy and Environment, and chair of the Infrastructure Planning Advisory Committee for the State of Arkansas; Mark Pestrella, P.E., director of Los Angeles County Public Works; and Sarah Rose Webber, chief operating officer, state of Arizona.

Add an experiential technical or educational session to your convention schedule. All experiential sessions take place Sunday, Oct. 23. Separate registration is required.

- Orange County Transportation Authority (OCTA) I-405 Improvements and Streetcar tour: 8:00 a.m. – noon
- Port of Long Beach, Middle Harbor Green Terminal tour: 8:00 a.m. – noon
- Orange County Water District and Orange County Sanitation District tours: 8:00 a.m. – 1:00 p.m.
- OC Loop Santa Ana River Bike Ride and Engineering Tour: 8:30 a.m. – 12:30 p.m.

Enhance your in-person networking experience with an optional tour:

- Sun., Oct. 23, 8:45 a.m. – 1:00 p.m. — Up Close with the Whales — See the beauty of the wildlife off the coastline and in the Pacific Ocean on a private whale watching cruise.
- Sun., Oct. 23, 11:45 a.m. – 4:00 p.m. — How do you Brew? Brewery Tour and Tasting — This tour will consist of 3 brewery stops with lunch included.
- Mon., Oct. 24, 6:00 – 9:00 p.m. — Foodie Walking Tour — Attendees will get a taste of Anaheim and its history, ending at the Anaheim Packing District.

Add engaging pre-conference courses to your convention plan.

- Envision Sustainability Professional (ENV SP) Credentialing workshop

- Disaster Service Worker training
- Innovation Boot Camp: Increasing Individual and Organizational Creativity

Sample sessions:

- Mon., Oct. 24, 10:30 – 11:45 a.m. — CECorps: Closing the Infrastructure Gap — Community Engineering Corps (CECorps) provides essential technical services to communities that need it the most. The pro-bono engineering services provided by CECorps stimulate additional engineering and construction services within local economies for the implementation of improved infrastructure.
- Mon., Oct. 24, 2:00 – 3:30 p.m. — Unboxing Machine Learning for Civil Engineers: From Data-driven to Explainability & Causality — Discover how machine learning can transform our civil engineering industry into a new frontier.
- Tues., Oct. 25, 1-2 p.m. — Young Professionals and the Importance of Mentorship — Explore the benefits of mentorship and some untraditional ways to obtain a mentor in a post-pandemic world.
- Tues., Oct. 25, 4:15 – 5:30 p.m. — Financial Industry Perspectives on the IIJA — Learn how state, local, and tribal governments can leverage federal funding to maximize the building of enduring public goods and critical infrastructure assets.
- Wed., Oct. 26, 9:45 – 11:15 a.m. — Advancing Climate Resilient Infrastructure Through Codes and Standards — Hear how policymakers are approaching building codes and standards to identify what steps must be taken to ensure adopting updated standards at all levels of government.
- Nine convention sessions with insights into Future World Vision.

View the complete ASCE Convention schedule today.

Remember to reserve your room at the Disneyland® Hotel.

Earn Professional Development Hours (PDHs) to maintain your professional licensure while gaining relevant focused knowledge.

Don't forget your exclusive theme park ticket offer for ASCE Convention attendees



Purchase your tickets by scanning the QR code to the left. These special ticket prices are not available once you arrive at the resort, so don't wait. *Tickets are valid from Tuesday, Oct. 18 through Saturday, Oct. 29, 2022.

Register now to save \$100

Members \$795 / Nonmembers \$1,025 / Students \$345

Early bird registration deadline: Sept. 7, 2022

Ready for more? It's all happening here.

#ASCE22

ASCE-COPRI Louisiana Chapter News

By John Darnall, EI, Director – Communications



COAST, OCEANS,
PORTS AND RIVERS
INSTITUTE

Louisiana Chapter



John Darnall, EI
Director – Communications

The Louisiana Chapter of the Coasts, Oceans, Ports, and Rivers Institute (L.COPRI) of the American Society of Civil Engineers (ASCE) promotes membership, professional development, and visibility throughout the State of Louisiana by conducting virtual webinars and in-person events.

YPG and Student Chapter Updates

Since January of this year, the LSU Student Chapter of COPRI hosted influential guest lectures by Dr. Ehab Meselhe from Tulane University and Brett McMann and Scott Hemmerling from The Water Institute of the Gulf. In March, the group attended a lecture about Louisiana's coast and wetlands by journalist Bob Marshall and then embarked on a kayaking tour of the Maurepas Swamp with the guidance of Lost Lands Tours. In April, LSU COPRI volunteered for LSU's Geaux Big Baton Rouge Day of Service, and in June, LSU COPRI attended the Gulf Gathering for Climate Justice and Joy. It has been a great year so far and the group is excited to continue with more events and lectures in the fall!

Please reach out to Julia Mudd (LSU COPRI Student Chapter President, mjulia1@lsu.edu) and Kiara Horton (YPG Director, kiara.horton@freese.com) for information on how to get involved as an LSU Student or Younger Member.

Local Upcoming Events

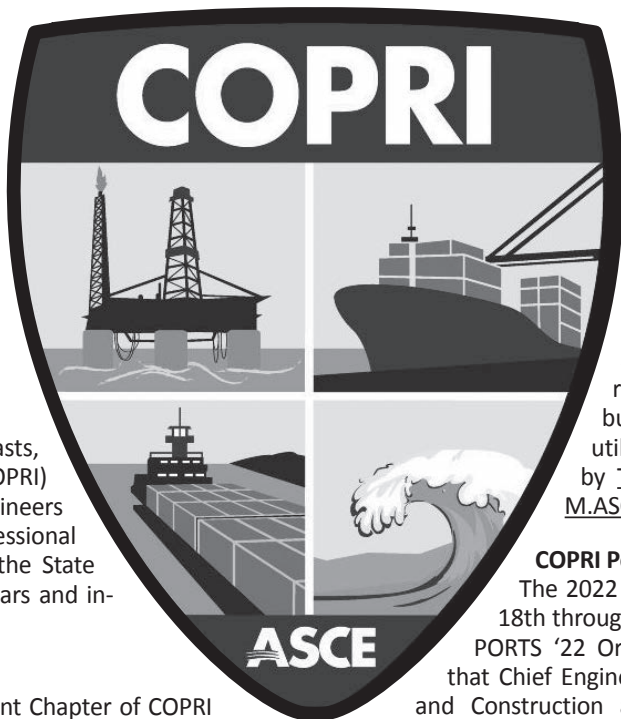
Upcoming events include our annual summer webinar and annual full-day Fall Seminar in Baton Rouge. Keep a look out for future event announcements via email and LinkedIn.

If you have any general event questions, please contact Programs Director Brett McMann at bmcman@thewaterinstitute.org.

Scholarship Updates

L.COPRI traditionally awards annual scholarships to students (1 graduate and 1 undergraduate) studying Civil, Coastal, Ocean or Environmental Engineering, or a Coasts, Oceans, Ports, or Rivers related field. Be on the lookout for the scholarship application form coming this fall. Scholarship winners are typically presented their checks during L.COPRI's annual spring seminar.

For upcoming scholarship opportunities, please contact William Gohres, Scholarship Director at williamgohres@matrixpdm.com.



National COPRI Guided Online Courses

Port Operations and Maintenance (July 18, 2022 to August 26, 2022) – this course is taught by practicing engineers who helped develop ASCE MOP 130. This course provides port authority engineers, port operations and maintenance staff, construction engineers, and practicing consulting engineers with information and tools to plan and manage inspection and repair activities for in-water, topside and backlands infrastructure including roads, terminals, wharves, channels, buildings, cranes, pipelines, pump stations, utilities, and related facilities. Course taught by Thomas Spencer, S.E., P.E., P.ENG., D.PE, M.ASCE and Doug Thiessen, P.E., D.PE, M.ASCE.

COPRI Ports '22 Conference

The 2022 Ports Conference will be held September 18th through the 21st in Honolulu, Hawaii. The COPRI PORTS '22 Organizing Committee recently announced that Chief Engineer and Assistant Commander for Design and Construction at Naval Facilities Engineering Systems Command (NAVFAC), R. David Curfman, P.E. is the Keynote Speaker for the Monday, September 19, 2022 Opening Plenary Session. Be on the lookout for email updates and don't forget to register for this special event!

Offshore Technology Conference (OTC) 2023

Help shape a vibrant future for the offshore energy sector by contributing your research to this world-class technical program. The 2023 Offshore Technology Conference will take place beginning May 1st through the 4th. The call for abstracts deadline is September 13th, 2022.

National COPRI Professional Achievement Awards

National COPRI offers several opportunities to recognize our colleagues for their professional achievements. For more information on individual, project, research, and younger member award opportunities, please visit <https://www.asce.org/communities/institutes-and-technical-groups/coasts-ports-oceans-rivers-institute/awards>.

Other Information

The activities of L.COPRI includes seminars, workshops, and other activities to benefit all ASCE and COPRI members. Members do not have to be an engineer to join COPRI. The Institutes of ASCE are formed for the benefit of ASCE and non-ASCE members to participate and interact with other professionals interested in coastal, oceans, ports, and riverine efforts in Louisiana. We would like to extend an invitation to our members to submit feedback and ideas for upcoming webinars and events. Please submit these ideas to bmcman@thewaterinstitute.org, and stay-tuned for a meeting invite if you are a member of our L.COPRI email list.

Also, please don't forget to follow us on LinkedIn. We have a new L.COPRI page giving you real time updates on the events we are hosting.

ASCE-G-I Louisiana Chapter News

By Kirk Lowery PE, D. GE, Chapter Chair

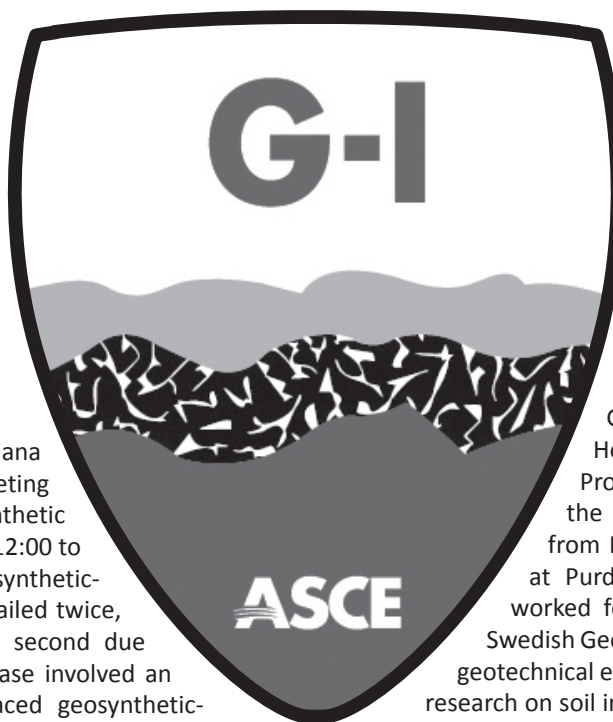


GEO-
INSTITUTE
LOUISIANA CHAPTER



Kirk Lowery, PE, D. GE
G-I Chair

The Geotechnical Institute Louisiana Chapter will be hosting a virtual meeting “Lessons Learned from Three Geosynthetic Failures” on September 13, 2022 from 12:00 to 1:00 PM CST. The first failure is a geosynthetic-reinforced steep slope in Taiwan that failed twice, the first during construction and the second due to a major earthquake. The second case involved an approximately 19m tiered modular-faced geosynthetic-reinforced wall that failed shortly after completion. Multiple factors were involved in this catastrophe. The third failure was an unusual application: a silt curtain, that failed very soon after installation. As is true of most failures, all had multiple causes, but only this one, the silt curtain, was due to the incorrect selection of



the geosynthetic. Each case is described in some detail, with observations about each failure, post-failure investigations of the soils and geosynthetics involved, and other factors that may have influenced the failures. Finally, valuable lessons learned from each case are given.

The presenter, Dr. Robert Holtz, may be known to some for his introductory Geotechnical Engineer book. Bob Holtz, PhD, PE, D. GE, Dist. M. ASCE, Professor Emeritus of Civil Engineering at the University of Washington, has degrees from Minnesota and Northwestern. He taught at Purdue and Cal State-Sacramento and has worked for the Calif. Dept. of Water Resources, Swedish Geotechnical Institute, NRC-Canada, and as a geotechnical engineer in Chicago, Paris, and Milano. His research on soil improvement, geosynthetics, foundations, and soil properties has been summarized in 26 books or book chapters and nearly 300 papers and other publications. He is a past-president Geo-Institute of ASCE and is currently the G-I International Secretary. He was the 46th Terzaghi Lecturer in 2010.

ASCE Government Relations



Janet L. Evans, PE
Government Relations Chair

2022 REPORT CARD FOR LOUISIANA'S INFRASTRUCTURE

The ASCE Louisiana Section will hold a kickoff meeting for the **2022 Report Card for Louisiana's Infrastructure** with the ASCE National Society in connection with the 32nd Annual Louisiana Civil Engineer Conference & Show, September 21 & 22, 2022. Join us at the Pontchartrain Convention & Civic Center in Kenner, LA.

The Report Card Committee is also still taking volunteers. We are still in need of a chair for the Energy category. In addition, we are looking to add broad band as a category. To volunteer your expertise and services toward this important endeavor, please contact the Government Relations Committee Chair, Jan Evans at jan.evans@volkert.com.

PLAN AHEAD – 117TH CONGRESS 2ND SESSION BACK HOME VISITS

With the **2022 Report Card for Louisiana's Infrastructure** on the horizon, please consider planning to schedule a back home visit or attend a local town hall meeting or other event with a federal elected official to raise the issue of infrastructure.

The best time to schedule a back home visit or look for a town hall meeting to attend is during one of the many district work periods (or recesses) that Congress schedules throughout the year.

Louisiana Congressional Delegation Members will be back in their districts:

- October 01 – November 10, 2022
- November 21 – 25, 2022

Louisiana Senators will be back in their districts:

- October 03 – 09, 2022 and October 24 – November 09, 2022
- November 21 – 25, 2022 and December 22 – 31, 2022

REQUEST A MEETING WITH A MEMBER OF CONGRESS IN THE HOME DISTRICT

Members of Congress' schedules fill rapidly, so plan your meeting well in advance. Almost all offices require a faxed/mailed copy of a meeting request before they will consider scheduling a meeting. Tell the scheduler the dates you are available, the issue you will discuss and who will be attending - ideally, a small group (3-5 people) of constituents. Be sure to follow up a few days later to schedule the meeting.

Schedule a meeting by calling the **state or district office** and asking for the scheduler or appointment secretary. Explain your purpose and whom you represent. Be clear on the topic you wish to discuss.

The Meeting

You can expect the meeting to last about 20 minutes, although some meetings could run longer. Plan to speak for just 10 to 15 minutes to allow time for questions and responses. **Make the story local using your own local examples** as the basis for your "ask", i.e. co-sponsorship of legislation, passage of legislation, etc.

Questions to Ask

Keep your presentation and questions simple. 1. Are you familiar with this issue? 2. Can we count on your support for our position? If yes, say thanks. If no, politely ask for reasons why and follow-up respectfully, if possible. Remind the Member of Congress and any staff members present that they can consider you a resource and you will check in periodically on these and other related issues.

Follow-Up

As always, follow-up is important. If you have the opportunity to ask a question or talk to a Member of Congress, you should follow it up a day or so later with a letter (handwritten thank you notes to staff are always appreciated). Thank the Member of Congress for meeting or talking with you and for considering your views. It is always important to be respectful and courteous regardless of the Member of Congress' opinions and to represent ASCE and your company in a professional manner.

LOUISIANA'S CONGRESSIONAL DELEGATION

U.S. Senate

Bill Cassidy <https://www.cassidy.senate.gov/contact/office-locations>

John Kennedy

<https://www.kennedy.senate.gov/public/office-information>

U.S. House

District 1:	Steve Scalise	(504) 837-1259 https://scalise.house.gov/contact/offices
District 2:	Troy Carter	(504) 288-3777 https://troycarter.house.gov/contact/offices
District 3:	Clay Higgins	(337) 703-6105 https://clayhiggins.house.gov/contact/offices

District 4:	Mike Johnson	(318) 840-0309 https://mikejohnson.house.gov/about/our-district.htm
District 5:	Julia Letlow	(318) 319-6465 https://letlow.house.gov/contact/offices
District 6:	Garret Graves	(225) 442-1731 https://garretgraves.house.gov/contact/offices

Don't Forget Your Louisiana State Representative or Senator!

To talk directly to a Representative or Senator, contact the House switchboard (225-342-6945) or the Senate switchboard (225-342-2040). Look up your legislator online at <https://www.legis.la.gov/legis/findmylegislators.aspx>.

Thanks for being an ASCE Key Contact!

If you have any further questions on this, contact ASCE Government Relations at govwash@asce.org | 202-789-7850 | <https://www.asce.org/advocacy/key-contacts>.

POLICY STATEMENT 139 - PUBLIC INVOLVEMENT IN THE DECISION-MAKING PROCESS

- Approved by the Engineering Practice Policy Committee on January 20, 2022
- Approved by the Public Policy and Practice Committee on March 4, 2022
- Adopted by the Board of Direction on July 22, 2022

<https://www.asce.org/advocacy/policy-statements>

Policy

The American Society of Civil Engineers (ASCE) supports the involvement of individual citizens and coalitions in legislative and regulatory decision-making processes involving infrastructure projects, programs, and policies. ASCE encourages appropriate public involvement to inform, educate, and engage the public regarding proposed policies, plans, designs, projects, and programs.

Civil engineers are encouraged to communicate with the public to:

- Allow for meaningful dialogue.
- Improve the decision-making process through collaboration.
- Be viewed as a trusted resource to and partner with the public.

Civil engineers are encouraged to participate in and seek appropriate public involvement through:

- Public meetings, presentations, social media, and individual dialogue about project alternatives.
- Disclosure and discussions of the environmental, social, and economic impacts of decisions made with the affected communities.
- **Active participation in elected or appointed legislative or regulatory bodies of government.**

Issue

Civil engineers are charged with protecting and enhancing public health, safety, and welfare through infrastructure projects, programs, and policies. Transparency and public awareness need to

be enhanced regarding long-term effects of infrastructure on the health, safety, and welfare. They are necessary for informed and equitable decision-making.

Rationale

Civil engineers have a responsibility to protect and enhance public health, safety, and welfare. The analysis of costs, benefits, and impacts of proposed infrastructure projects, programs, and policies is essential as embodied by the Institute for Sustainable Infrastructure's Envision™ process. Transparency and communication of these analyses to the general public will assist public officials in making better-informed decisions on infrastructure

and projects. Public involvement in the decision-making process for infrastructure allows diverse viewpoints to be considered and local knowledge to be incorporated. Moreover, such public involvement can facilitate project acceptance and implementation, consideration of the principles of justice, equity, diversity, and inclusion (JEDI), and project use by the community. Civil engineers have the opportunity to influence project outcomes. Civil engineers can use the principles of Envision.

This policy has worldwide application | ASCE Policy Statement 139 | First Approved pre-1974

ASCE-T&DI Louisiana Chapter News

By Michael Paul, PE - Newsletter Editor



Mike Paul
T&DI Chair

New Orleans Bikeway Network Seminar

After due consideration, T&DI has elected to return to in-person seminars. Our first topic will be an update on the challenges and successes of the New Orleans Bikeway Network. T&DI hosted an evening seminar back in 2013 to review the New Orleans Complete Streets initiative. Our goal was to address the various roles the designer, planner, and engineer play in the implementation of a successful Complete Streets program. One of the speakers was Jennifer Ruley, PE who, as a member of the Louisiana Public Health Institute, was serving as the Complete Streets Advisor to the City of New Orleans. Since then, the City has created the new Mobility and Safety Division within the Department of Public Works, and has selected Ms. Ruley to manage the Division's activities. T&DI is working through the details of transitioning from Zoom to Live seminars. We expect our venue will be the Engineering Auditorium at the University of New Orleans and will seek a late afternoon time slot before classes begin this Fall.



Looking Ahead

The intent of T&DI is to promote transportation and development as a career path, and to provide training and networking opportunities for all professionals involved in the transportation industry. If you are interested in co-sponsoring a seminar at your branch, the T&DI Louisiana Chapter has prepared a Seminar Coordinator's Check List to assist you in your preparation. Contact Roy Payne rpayne@rclconsultants.com for a copy of the checklist. Historically our seminars are two hours in length and are typically presented from 5:30-7:30 pm in either the New Orleans or Baton Rouge areas. Recently our seminars have gone virtual and have been presented mid-day. In keeping with the intent of the Institute to provide training and networking opportunities for all professionals involved in transportation projects, the Chapter is planning the following future seminars:

- Green Infrastructure: Integrating Infrastructure Needs
- Complete Streets
- Convention Center Beautification
- Surface Transportation Resiliency
- New Mississippi River Bridge – P3 Financing and Tolling
- Hurricane/Emergency Evacuation Planning
- I-12 Widening over Tchefuncte River
- I-10 College Drive Flyover

Branch News



BATON ROUGE BRANCH

By Tyler H. Branch, PE, Branch President

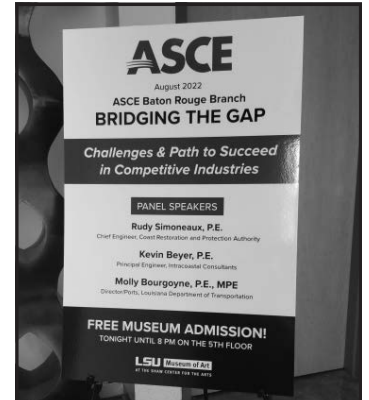
In May, ASCE Baton Rouge Branch coordinated with LES to attend their annual Crawfish Boil at Walk-On's near LSU's campus in Baton Rouge. DOTD Chief Engineer, Chris Knotts, PE, gave an Ethics Presentation beforehand. The event included live music and was enjoyed by all!

In June, we hosted Blake Fogleman, PE, Infrastructure Engineer with Louisiana Department of Health, to speak to our membership on the Louisiana Water Sector Program. The event was held at Drusilla Seafood Restaurant in Baton Rouge. We were provided with information on how local water and wastewater operators can apply for grants to make upgrades to their systems.

In August, ASCE Baton Rouge Branch's Vice President, Mr. Robb Jewell, PE, organized and moderated our "Bridging The Gap" event at LSU's Museum of Art in the Shaw Center Building in Downtown Baton Rouge. The evening event was comprised of a panel which included "Molly" Bourgoyne, PE (DOTD), Kevin Beyer, PE (Intracoastal Consultants), and Rudy Simoneaux, PE (CPRA). The topic of the panel discussion was, "Challenges & Paths to Succeed in

Competitive Industries." Also in August, we hosted Chris Knotts, PE, to provide our membership with an *Update on DOTD*. The event was held at Drusilla Seafood Restaurant in Baton Rouge.

Our upcoming events include our Passing of the Gavel and Awards Luncheon in September, and Mark Wingate, PE, will present to our membership in October. More information on these and other events will be forthcoming. We hope you can join us!



LSU Museum of Art welcomes the ASCE Baton Rouge Branch



Baton Rouge Branch has a full house for the June Luncheon



Mr. Blake Fogleman, PE Infrastructure Engineer with Louisiana Department of Health, June luncheon speaker



Rudy Simoneaux introduces the panel for "Bridging The Gap" at LSU's Museum of Art in the Shaw Center



Baton Rouge Branch's Robb Jewell presents the panel: "Molly" Bourgoyne, PE (DOTD), Kevin Beyer, PE (Intracoastal Consultants), and Rudy Simoneaux, PE (CPRA)



Baton Rouge Branch's Bridging the Gap panel considers "Challenges & Paths to Succeed in Competitive Industries"



ACADIANA BRANCH

By Grant Besse, PE, Branch President

As the south Louisiana summer slogs along, I would like to thank our members for their participation at the June and July luncheons. The summer is usually slower for our branch, but the last two luncheons were well attended.

The June luncheon was a joint luncheon with LES. Jeff Stewart presented and gave updates on the state of Lafayette Utilities System. There was a full house of 40+ guests in attendance at the Petroleum Club with a great presentation and lively Q & A session. The new LES Lafayette Chapter president Glenn McCall gave an introduction and call for board volunteers at the beginning while also giving a sendoff to retiring long time LES director Brenda Gajan.

The July luncheon was held at Abacus and ASCE hosted Jim Keith and Bethany Fleitman of Freese and Nichols. Their presentation on real-time watershed forecasting was informative and showed exciting

new tools being developed for use in disaster preparedness. The luncheon was also well attended with a crowd of 30+ it seems as though in-person events are rising again in popularity.

Our upcoming branch events will be our August and September luncheons and October will be the return of our annual golf tournament that has been postponed since Covid started.

The planning for our golf tournament fundraiser is underway and we are accepting sponsorships and golfer registrations. The last fundraiser golf tournament was well attended in 2019, and we are looking forward to 'putting together' a fun event to add to the ASCE scholarship fund to keep students on the 'green'. We have 'tee'd up' a registration website and sent out fliers. Please visit www.birdease.com/19042 or email any of the branch officers for more information.

Finally, if anyone would like to submit technical spotlights for the Branch newsletter, we are always looking and accepting.



NEW ORLEANS BRANCH

By Stephanie C Bayne, PE, Branch President

On the first weekend in June, two members of the New Orleans Branch made a trip to Ruston, LA. As alumni of Louisiana Tech University and past-presidents of its Student Chapter of ASCE, they volunteered at the 35th annual ASCE Concrete Canoe Competition hosted by the University. Along with other members from all over the country, they

contributed to the event by helping distribute lunches, race day set-up, and race timing.



Later that month on the 21st, the Branch hosted their June luncheon at Lula Restaurant Distillery with a virtual Zoom option. Tyler Antrup presented on the strategic plan of the Sewerage and Water Board of New Orleans. He is the Director of Planning and Strategy for the Sewerage and Water Board of New Orleans where he oversees strategic and system planning.

The Branch hosted their Summer Social on July 21 at Mid-City Yacht Club. On July 26th, Dr. Norma Jean Mattei gave an Ethics presentation at Lula Restaurant Distillery with a virtual Zoom option.



Registration is open for the Louisiana Civil Engineering Conference and Show (LCECS). It will be held at the Pontchartrain Center in Kenner on September 21st and 22nd. You can go to LCECS.org to register and for additional information.

On August 26, we hosted our annual Awards Banquet and Board Induction at Landry's Seafood House in the French Quarter. I have moved into the Past-President position and Kyle Galloway has taken over as Branch President. It has been a joy and privilege to serve as your New Orleans Branch President.

As always, you can stay informed by following us at ASCE New Orleans on Facebook, on LinkedIn at ASCE New Orleans Branch, or our website (www.asceneworleans.org). If you have any questions, comments about how we can serve you better, or would like to get involved, please contact us at ASCEneworleans@gmail.com.



SHREVEPORT BRANCH

Luke Haney, EI, President of Shreveport Branch

August 2022

We had a great time hosting engineers and vendors from all over the state at the Shreveport Convention Center on May 5-6, 2022. Many thanks to all sponsors, vendors, speakers, and attendees who supported us and helped

make it happen! The Shreveport branch is concluding its summer break and will regroup on September 29th to wrap up our year with a presentation from Alex Ciasca, PE with CROM. We will host our annual golf tournament fundraiser on October 14th at Querbes Park Golf Club in Shreveport to kick off our new year. Stay up to date with all events and news by following us on Facebook or LinkedIn.

ASCE-SEI New Orleans Chapter News

By Mark Castay, PE



Mark Castay, PE

The SEI New Orleans chapter closed out the second quarter with the first in person seminar titled "Remembrances of the World Trade Center Tower Structures and Engineers that Designed Them" presented by Jon Magnusson, PE, SE Hon. AIA, Dist. M. ASCE on June 2, 2022. Mr. Magnusson is a Senior Principal



at Magnusson Klemencic Associates and presented his in-depth knowledge of the buildings and the aftermath of the 9/11 attack on the World Trade Centers. The presentation encompassed some of the history of the creation of the towers, the events on the day of the attacks, and the ramifications for the design of tall buildings since then. This presentation was the 2022 David Hunter lecture which chooses a distinguished speaker to honor the late David Hunter who was one of the founding members of the SEI New Orleans chapter. Since this was the first "in person" seminar at the University of New Orleans Engineering auditorium since the beginning of the Covid epidemic, the committee was able to present Om Dixit, PE with an honorary award for over 30 years of service to the Chapter.



Om Dixit, PE (left) receives an honorary award for over 30 years of service to the Chapter

Every year the Structural Engineering Institute (SEI) of ASCE holds a multi-day conference named "Structures Congress" at a location within the US where technical sessions, exhibitors, practicing engineers, research scientists and academics converge to network, stimulate technological advancement, and improve professional practice. New Orleans has been selected as the host city of Structures Congress 2023! It will be held at the Hyatt Regency New Orleans, 601 Loyola Ave, New Orleans, LA 70113. This will be a great opportunity to attend many fantastic presentations, connect with colleagues and learn about cutting-edge research in the structural engineering community. Interested attendees can learn more about Structures Congress 2023 at www.structurescongress.org.

We are working on future topics and presentations for upcoming seminars. If you have an interesting topic to propose or if you would like to get on our mailing list to receive advance notifications of our upcoming seminars, please email us at asceseinola@gmail.com.

Student News

LOUISIANA STATE UNIVERSITY

by Madalyn Mouton, Student Chapter President

Over the summer, ASCE@LSU's Steel Bridge team competed in the National Steel Bridge Competition at Virginia Tech May 26th-28th. Their hard work and dedication paid off: they placed 10th at Nationals! Thank you to everyone who supported this team in their efforts to represent our school, our state, and our ASCE chapters!

The LSU ASCE Student Chapter has been preparing over the summer for the upcoming academic year. Our goal is to focus more on active student participation with more social activities that build a sense of community. We are going to go to student involvement fairs in the beginning of the fall semester with our concrete canoe and steel bridge to attract freshmen and sophomores looking for something exciting to be a part of. Also, on the fall semester horizon we will be hosting the Bayou Regional Career Fair. Civil and environmental engineering students from all 6 Louisiana universities will be given the chance to meet and interview with civil and environmental firms at this event. If interested in joining us for the Bayou Regional Career Fair or hosting an ASCE@LSU general meeting, please contact asce@lsu.edu.



LSU Steel Bridge Team right after their Saturday National Competition build



Louisiana

CIVIL ENGINEERING

Conference & Show

REGISTRATION IS OPEN NOW!

We are proud to announce the dates for the 32nd Annual Louisiana Civil Engineering Conference and Show. This event, a joint effort from the New Orleans Branches of ASCE and ACI, is the premiere gathering for the Civil Engineering community in the Greater New Orleans Area. We are in the process of soliciting sponsors and exhibitors and establishing the technical program for the conference which will be held on September 21-22, 2022, at the Pontchartrain Center in Kenner, Louisiana. Early Bird Registration ends August 12 2022!

For additional information on the conference, please visit our web site at
WWW.LCECS.org

— CALENDAR OF EVENTS —

2022

September 15, 2022 – 11:30am – 1:30pm (CDT) ASCE Louisiana Section Board Induction and Awards Luncheon –
Where: Drusilla Seafood, 3482 Drusilla Lane, Baton Rouge, LA 70809

September 21-22, 2022 – 32nd Annual Louisiana Civil Engineering Conference and Show – For additional information on the conference, please visit our web site at www.LCECS.org

October 23-26, 2022 – ASCE 2022 CONVENTION, ANAHEIM, CALIFORNIA – register today at
<https://convention.asce.org/>

Events are constantly being updated online:

For ASCE Society events please see online:
https://www.asce.org/conferences_events/
https://www.asce.org/student_conferences/

For ASCE Baton Rouge events please see online:
<http://branches.asce.org/baton-rouge/events>

For ASCE Shreveport events please see online:
<https://www.facebook.com/ASCEShreveport/>

For ASCE Acadian events please see online:
<http://branches.asce.org/acadiana/events>

For ASCE NOLA events please see online:
<http://asceneworleans.org/events/>

For more events visit the ASCE Events Calendar: <http://www.lasce.org/calendar.html>

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