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Journal of the Louisiana Section

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Rockefeller Refuge Gulf Shoreline Stabilization Project

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The Louisiana Section of the American Society of Civil Engineers was founded in 1914 and has since been in continuous operation. The Section consists of the entire state of Louisiana and is divided into four branches that directly serve over 2000 members. They are the Acadiana Branch centered in Lafayette, the Baton Rouge Branch, the New Orleans Branch, and the Shreveport Branch.

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TABLE OF CONTENTS

FEBRUARY 2019 • Vol. 27 • No. 2

Section Roster	4
President's Message	5
Rockefeller Refuge Gulf Shoreline Stabilization Project	6
Region News1	2
Section News1	3
ASCE – Government Relations Committee News1	4
ASCE – T&DI Louisiana Chapter News1	5
Branch News1	6
ENR Top Young Professionals2	2
Editorial	3
ASCE – SEI New Orleans Chapter News	5
Student Chapter News	6
Calendar of Events	9
Professional Listings	9
Service & Suppliers	2



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President's Message By Rudolph Simoneaux, III, PE

It's hard to believe that Springtime is already upon us! 2019 has really gotten off to a fast start, and the Section is preparing for a busy Spring, which I'll discuss a little later. We closed out 2018 by spending time with students as they prepared for finals. With some help from the Baton Rouge and New Orleans Branches, we were able to feed over 200 hungry students with jambalaya and chicken tenders. This was a huge success and something that we'll be doing more of in the future. As ASCE members, it's our responsibility to mentor and help facilitate the careers of our Civil Engineering students. I'm sure most people would agree that finals week was a stressful time for all of us, and some of the most nerve-racking! It was good to give the students a little break and watch them relax, even if it was only for a short time.

As I mentioned, this Spring brings a couple exciting events that are currently being planned. Louisiana Tech will be hosting the 2019 Deep South Student Conference. The conference will be held from March 28-30 and the program will include the following:

- A business meeting
- Professional and technical presentations
- Surveying Competition
- Concrete Canoe Competition
- Technical Paper Presentations
- Social events
- An award ceremony

As a former concrete canoe student competitor and judge, I personally love this event and would like to encourage everyone to try to attend and cheer on the participants. On behalf of the Louisiana Section, good luck to all of our Student Chapter competitors! If you would like more information on this competition, or would like to sponsor, email the Louisiana Tech student organizer Allie Thurman (abt014@latech.edu).

The Shreveport Branch will be hosting the 2019 Spring Conference. Details are currently being worked out, but the dates has been set for April 25th and 26th. This is always a great conference with a comprehensive program and great social events. The conference also will include the Section's annual General Membership Meeting. We will be distributing additional information on the conference in the coming weeks through emails.



Engineers Week, or EWeek, was celebrated during the week of February 17th this year. As I tell my wife every year, it's the one week that everyone should ask themselves everyday – "Have you hug your engineer today"? Besides an opportunity to show appreciation for our good jokes, this week is dedicated to celebrating how engineers make a difference in the world. It's also an opportunity to bring engineering to life for kids, educators, and parents. This year I had the pleasure of participating in an event called "Introduce a Girl to Engineering", which was sponsored by ExxonMobil. The program was focused on a growing movement to inspire girls' futures so they learn they have



Rudolph Simoneaux, III, PE

a place in engineering a better world. Over 100 female students, grades 6th – 9th, visited the Water Campus and spent the day at the Center for Coastal and Deltaic Solutions and the Center for River Studies discussing coastal and water related issues, visiting the Mississippi River Physical Model, and learning about the various engineering careers associated with coastal and water related issues. As the father of two daughters, I could not have been more excited to participate in this event. With as busy as we all are, it's sometimes difficult to pause, celebrate our profession, and share our stories with younger people that are aspiring to be engineers. EWeek provides a great opportunity for this!



Rockefeller Refuge Gulf Shoreline Stabilization Project

By Brett L. Geesey, PE, Daniel Heilman, PE, Kodi C. Guillory, PE, and Zachary J. Romaine, El

Introduction

One of the most rapidly eroding portions of the Louisiana Gulf shoreline is at the Rockefeller Wildlife Refuge in Cameron and Vermilion Parishes. Recent studies have shown that erosion claims over 45 feet of marsh per year. Severe storms such as Hurricane Ike in 2008 can cause more than a year's worth of erosion over a period of just a few days.

Since its founding in 1919, Rockefeller Refuge has experienced land loss due to coastal erosion to the tune of 15,000 acres (Louisiana Department of Wildlife and Fisheries, 2018). To combat the loss of wetlands at the Rockefeller Refuge, the Louisiana Coastal Protection and Restoration Authority (CPRA) teamed with the National Marine Fisheries Service (NMFS) to implement the Rockefeller Refuge Gulf Shoreline Stabilization Project (ME-18, CWPPRA Priority Project List 10). The project's intent is to halt erosion along the 9.2-mile portion of the Refuge west of Joseph Harbor Bayou ("Joseph Harbor"). Due to the challenging soil conditions at the site, a smaller demonstration project utilizing several alternative shoreline protection designs was designed and constructed. The project was initially funded and authorized in accordance with the Coastal Wetlands Planning Protection and Restoration Act (16 U.S.C.A., Section 3951-3956)



Brett L. Geesey, PE





Zachary J. Romaine, El

project is funded through

acres; however, recent

surveys indicate only 71,000 acres remain. The Refuge borders the Gulf of Mexico for 26.5 miles along southwestern Louisiana. The Refuge is one of the most biologically diverse

wildlife areas in the nation

muskrat, rails, white-tail deer, alligators, opossum,

species include a dense

population of redfish,

speckled trout, and black drum as well as shrimp

and crabs, which are

raccoon, mink,

and nutria.

annually serves over 150,000 wintering waterfowl. The area also hosts an abundance of other species including

Refuge

86,000

otter,

Marine

encompassed

CWPPRA.

Rockefeller

approximately

originally

and

Site Description

Kodi C. Guillory, PE and the demonstration project was funded through the Coastal Impact Assistance Program (CIAP). Based on results from the demonstration project, approximately 4 miles of the project have

been designed and are currently under construction. The current



Figure 1. Project location map.

available for recreational fishermen (Louisiana Department of Wildlife and Fisheries, 2005). The Refuge and its resources attract large crowds and claims the title as the most visited state refuge in Louisiana, seeing more than 200,000 visitors each year (Louisiana Department of Wildlife and Fisheries, 2018).

The focus of the current project is protection of the western 9.2 miles of Gulf shoreline along the Refuge from Joseph Harbor to Beach Prong. Approximately three miles of the 4-mile-long breakwater have been constructed as of January 2019, beginning at Joseph Harbor and working west (Figure 1). The beach along the project area is mostly composed of exposed marine clays with a ridge of crushed shell above the water line that is backed by extensive marsh. The area is directly exposed to waves and currents from the open Gulf of Mexico, and high tides and/or storms, especially during tropical cyclones, produce considerable erosion.

Design Considerations

Characterization of site conditions involved extensive data collection and analysis which included topographic and bathymetric surveying, geotechnical investigations, aerial photography, review of prior reports and historical information, a wave and water level assessment, and a morphological evaluation. The back beach and upper beach consist of a veneer of shell hash overlying marsh sediment (Figure 2); the shell is transported landward by waves during higher tides. The lower berm is predominantly exposed clays with some remnant plant material. The lower berm is typically much flatter than the upper and lower beach and forms a terrace (Figure 3). Waves cause a scarp to form along the seaward edge of the lower berm, undercutting the roots of the living or recently dead plants. Seaward of the scarp, the beach profile is almost completely void of sand and shell.



Figure 2. Shell hash along upper beach.



Figure 3. Beach features and average slopes.

The geotechnical investigation was performed by Fugro Consultants, Inc. (2002, 2003). Key results of the investigation are provided below.

- The subsurface conditions appear to be relatively uniform alongshore and across-shore. Between approximate depths 0 to 5 feet, the soil is a loose to medium-dense shell with shell fragments. Below this stratum to an approximate depth of 40 feet is a very-soft to soft under-consolidated clay. Below the stratum of very-soft to soft clay to a depth of at least 100 feet is a stiff to very stiff clay.
- Due to the stratum of very soft to soft clay to a depth of approximately 40 feet, the allowable bearing pressure of the soil is low (less than 300 psf).
- Soil consolidation and settlement due to the bearing pressure of the shore protection structures, expected to be in excess of one foot, will occur slowly. Only about 40 to 50 percent of the total settlement is expected over a period of about 8 to 12 years. The remaining settlement will likely occur over a period of 40 to 45 years.

Demonstration Project

Over 80 alternatives and variations thereof were considered for design. The initial screening of these alternatives reduced the number of possible alternatives to 14. Design, cost, and constructability considerations for these 14 alternatives were then evaluated in more detail. Most of the alternatives were eliminated based on cost and/or the bearing pressure being too great for the soil. After final screening, only four alternatives remained (Shiner Mosely, 2006). Because of the unique site conditions, innovative nature of the proposed alternatives, and lack of definitive design methodology, test sections were proposed for further evaluation. The chosen test sections are listed below.

Chosen Final Alternatives

- (1) Beach fill with gravel/crushed stone (Figure 4)
- (2) Reef breakwater with sand or gravel/crushed stone beach fill (Figure 5)
- (3) Reef breakwater with LWA core (Figure 6)
- (4) Concrete panel breakwater (Figure 7)



Figure 4. Typical section of Beach Fill concept.



Figure 5. Typical section of Reef Breakwater concept.



Figure 6. Typical section of Reef Breakwater with LWA core concept.



Figure 7. Typical section of Concrete Panel Breakwater concept.

The demonstration portion of the project was bid for construction in early 2009 and a contract was awarded to Choctaw Transportation Company. The project was bid with the four alternatives (Reef Breakwater, Reef Breakwater with LWA Core, Beach Fill, and Concrete Panel); however, the Concrete Panel option was not awarded due to budget limitations.

In September 2009, construction of the Reef Breakwater (Figure 8) and Beach Fill (Figure 9) sections was completed. Additionally, construction of the Reef Breakwater with LWA Core was completed during early 2010. Final construction cost for the demonstration phase was \$5,638,500.



Figure 8. Placing graded riprap along Reef Breakwater.



Figure 9. Partially constructed Beach Fill.

Performance monitoring was conducted for approximately 1 year after construction to compare the effectiveness of each alternative. Monitoring included collection of wave and tide data at three nearshore locations and one offshore location as well as meteorological data at one of the nearshore locations. Topographic/ bathymetric survey data and aerial photography were also collected at three separate time intervals during the monitoring period. Each alternative was compared in terms of ability to accommodate soft soils, ability to attenuate waves, ability to reduce erosion, constructability, and cost. The alternatives constructed as part

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8



Figure 10. Ongoing Construction at Rockefeller Refuge.

of the demonstration performed with varying degrees of success. The reef breakwater was marginally effective at reducing wave energy and shoreline loss. The beach fill alternative performed poorly, as much of the fill aggregate migrated off of the beach in the time following construction. Based on the monitoring, the reef breakwater with LWA Core was chosen as the final alternative to be constructed beyond the demonstration project reaches because of the structure's ability to attenuate wave energy, reduce shoreline recession, and accommodate soft foundation soils.

Current Phase

Based on the results of the demonstration phase, the project team designed approximately 4 miles of the overall 9.2-mile project to stay within a typical CWPPRA project budget. Data collected during construction and post-construction monitoring of the demonstration phase were applied to refine the cross section of the reef breakwater with LWA core. The additional 4 miles of breakwater incorporated the two demonstration phase breakwaters and two concrete ring breakwaters constructed as part of the LA-08 Bio-Engineered Oyster Reef Demonstration sponsored by CPRA and NFMS (Priority Project List 17) (CWPPRA, 2018). The design included gaps in the breakwater to allow water exchange between landward and seaward sides of the breakwater, as well as allowing ingress and egress of marine organisms. The gaps were designed with angled sections of breakwater extending from the eastern breakwater to provide additional protection at the gap feature (visible in Figures 12 and 14).

Construction of the first 3 miles of breakwater began in July 2018 at Rockefeller Refuge (Figures 10 through 12). Construction is progressing generally westward and is nearly complete as of January 2019, with less than 1,000 feet left to be installed on the west end of the project. Construction quantities installed to date include approximately 185,000 tons of armor stone; 28,000 tons of bedding stone; 39,000 cubic yards of encapsulated lightweight aggregate; and 142,000 square yards of geotextile composite. At completion, the project is expected to protect approximately 20,400 linear feet of shoreline.



Figure 11. LWA bags on barge awaiting placement.

Three existing shoreline protection features located along the breakwater footprint were addressed during design and construction of the current ME-18 project. The first is the existing reef breakwater with the LWA Core from the demonstration project described in the previous section. The new breakwater approaches this existing reef breakwater from behind on either side, with small gaps remaining. The second existing structure is two 200-ft-long sections of circular interlocking concrete rings roughly three miles west of Joseph Harbor (Figure 13). The new breakwater is currently terminated at each end of the concrete rings. Construction in 2019 will traverse behind the rings and connect to form a full rock section between the rings and the shoreline. The third structure, the allrock breakwater constructed during the demonstration project, was no longer providing appreciable shoreline protection at the onset of construction of the 4-mile section. The decision was made during construction to remove the armor stone from this section and incorporate it into the construction of the new breakwater. The removed stone was placed on the landward toe of the new breakwater section as this stone gradation differed from the stone specified for the 4-mile section.



Figure 12. Completed Breakwater Sections



Figure 13. LA-08 Oyster Reef Demo (CWPPRA, 2018)

The layout of the breakwater alignment is in continual review and updating as construction progresses. The design is dependent on the water depth in which the breakwater is placed. Because the shoreline continues to erode during construction, surveys are being conducted frequently to correctly design, layout, and construct the breakwater based on the most up-to-date field conditions.

The first few months of construction were met with good weather conditions which allowed for steady progress. As winter approached, however, low-water conditions during cold fronts, and rough conditions brought about by strong southerly winds have made construction more challenging. The first 3 miles of breakwater are expected to be completed in February 2019. Construction of the additional project length is expected to begin mid-2019. Signs of sediment capture behind the breakwater have already be seen in some locations (Figure 14).



Figure 14. East termination of breakwater at Joseph Harbor. Note the new accumulation near the shoreline bend.

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Acknowledgements

HDR Engineering, Inc. is performing the Engineering and Design on the Rockefeller Refuge Shoreline Stabilization Project. Royal Engineers & Consultants, LLC is performing Construction Oversight services. The construction contractor for the current phase of the project is LeBlanc Marine, LLC/Patriot Construction. The authors thank the CPRA, NMFS, and LDWF staff for their guidance and support on this project.

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Daniel J. Heilman, PE, is the Coastal Technical Manager for HDR Engineering, Inc. in Corpus Christi, Texas. Mr. Heilman is a graduate of Texas A&M University, having received a B.S. in Maritime Systems Engineering in 1993 and M.S. in Ocean Engineering in 1995. He has over 23 years' experience designing coastal engineering projects including marine ecosystem restoration, beach nourishment, shoreline protection, and dredging. His responsibilities include project planning, technical analyses and design, preparation of construction plans and specifications, construction administration/observation, and monitoring.

Kodi C. Guillory, PE, is an Engineering Supervisor with the Coastal Protection and Restoration Authority of Louisiana with over 12 years of design experience. Mrs. Guillory graduated from Louisiana State University with a B.S. degree in Biological Engineering and a M.S. degree in Civil Engineering. Her background includes project experience with marsh restoration and creation, shoreline protection, terracing, barrier islands, and sediment diversions.

Zachary J. Romaine, E.I., is a Coastal Engineer with Royal Engineers & Consultants, LLC. in Lafayette, LA. Mr. Romaine earned a B.S. degree in Environmental Engineering from Louisiana State University in Baton Rouge, LA in 2014 and a M.S. degree in Coastal and Ecological Engineering from Louisiana State University in Baton Rouge, LA in 2016. He has worked two years for Royal with project experience in coastal habitat restoration, marsh creation, and shoreline protection.

ASCE Region 5 By Peter M. Moore, PE, ENV SP, F. ASCE



2019 Region 5 Awards

SUBMITTAL DEADLINE: JUNE 1, 2019

Region 5 is continuing a Region 5 Awards program in 2019. The below categories are open for nomination:

- 1. **Region 5 Civil Engineer of the Year** awarded annually to one recipient to recognize outstanding achievements of a practicing Civil Engineer that is active within the Region.
- 2. Region 5 Younger Civil Engineer of the Year awarded annually to one recipient to recognize outstanding achievements of a practicing Civil Engineer, age 35 of less that is active within the Region.
- 3. **Region 5 Civil Engineering Student of the Year** is awarded annually to one recipient to recognize an outstanding Civil Engineering or Civil Engineering Technology Student, enrolled in an undergraduate program and is active in ASCE within the Region.





Peter M. Moore, PE, ENV SP, F. ASCE

4. **Region 5 Wall of Fame** - a designation to honor Civil Engineers that have made a substantial contribution to ASCE, Region 5, and the Civil Engineering community. Nominations will be considered annually, with no more than 3 candidates selected for the honor in a given year.

Eligibility of the Award

Nominees must be submitted by a Region 5 Section. Only 1 nomination per Section, per award, may be submitted each year. The selection process is based on the nominees contributions to the region, society, profession, the public welfare, and/or humankind as listed under the purpose of the award.

For eligibility criteria please visit the Region 5 website: http://regions.asce.org/region5/resources

2019 Region 5 Grant Program Guidelines

Proposals will be accepted on an ongoing basis beginning November 1, 2018

The upcoming year holds many opportunities for ASCE. Region 5 will be offering mini-grants to help your group promote ASCE.

Proposals up to \$1,500 are eligible for Region 5 Grants. One grant proposal is required per project. Grants are intended for Sections or Branches to fund a single component of a larger program or for a one-time expense. A short proposal and report is required for each grant request.

Proposal Selection Process

Proposals will be accepted on an ongoing basis beginning November 1, 2018. The Region 5 Governors will evaluate grant proposals and select projects for FY19 funding.

Sections/Branches will be notified of the status of their proposals via email to Section/Branch presidents and treasurers within 60 days of application receipt.

Funding priority will be given to projects that are new initiatives for Sections and Branches and projects that have a measurable impact on a desired audience. The Region recognizes that all Sections and Branches have different resources, needs and goals; it's the Region's goal that these funds will help make programs available to Sections and Branches that may not have the existing resources.

Submission Deadline

Proposals must be received by August 1, 2019. 2019 Region 5 Grant proposals must be submitted via:

- E-mail an electronic copy of your proposal to katherine. gurd@aecom.com; or
- Mail proposals to: Katherine Gurd

AECOM 1360 Peachtree Street NE, Suite 500 Atlanta, Georgia 30309

Please note that no proposal is deemed received until the submitting Section or Branch receives electronic notification from Katherine Gurd that the proposal has been received. If you have any questions about the eligibility of a program, contact Katherine Gurd at Katherine.gurd@aecom.com or 404-965-7085.

2019 Multi-Region Leadership Conference (MRLC)

The 2019 Multi- Region Leadership Conference (MRLC) was held in Orlando, FL on January 24-26. Beau Tate, PE, member form the Louisiana Section, Ali Mustapha, PE, Region 5 Governor, Ronnie Schumann, Jr., PE, At large Governor, and young members from the Baton Rouge, Shreveport, and New Orleans Branch offices attended the conference. The Region 5 Assembly was held on Thursday, January 24, 2019 from 1 to 4 pm, where Region 5 Governors, student chapter, branch, and section members discussed goals of the assembly, had a networking ice breaker, and received information regarding the Region 5 website, awards program, and grants program. The main conference which consisted of Regions 1, 2, 4, and 5 was held on January 25 - 26, 2019. Among the many successful breakout sessions and workshops, main topics discussed included:

- Leading and Learning from Teams of the Future (and Today)
- Cultivating Excellence
- Communication Styles in the Workplace
- ASCE Industry Leaders Council Keynote: What makes a Leader?
- Professional Ethics

The conference was a great success and very informative. The 2020 MRLC will be held in Philadelphia, PA.



The Multi-Region Leadership group poses under the palms in Orlando Florida

ASCE Government Relations



Engage in Advocacy in 2019

If one of the items on your list of New Year's Resolutions was to be more engaged in public policy, ASCE's Key Contact program is here to help! Joining ASCE's Key Contact program is as simple as emailing keycontact@asce.org and asking to be signed up.

ASCE Key Contacts influence the policy process at the state and federal levels by developing relationships with elected officials. Whether you routinely engage with policy makers in the course of your professional life, or you're new the advocacy space, ASCE's Key Contact program can provide you with the tools and resources you need to help advance the Society's Priority Issues.

By meeting and making contacts with your elected official, you can achieve true conversations about issues important to the profession, and become a trusted advisor when bills are drafted or considered. Key Contacts can start small by attending webinars to learn about ASCE's legislative priorities and by becoming familiar with ASCE's Policy Statements and Priority Issues. You can then grow your experience by participating in Key Alerts – calls to action that allow you to send a quick message to your State Legislator or Member of Congress in just a few clicks. When you're comfortable with advocacy, we encourage you to participate in a State Legislative Day or attend ASCE's Legislative Fly-In held annually in Washington, DC each March.

At last year's Fly-In, Key Contacts kicked off discussions about the Water Resources Development Act (WRDA) reauthorization, reauthorization of the Federal Aviation Administration (FAA) program, and requested increased appropriations for infrastructure funding. By the end of last year's legislative session, ASCE was successful at seeing each of these items signed into law thanks to the continuous efforts of Key Contacts.

This year's Legislative Fly-In is shaping up to be the largest ever with over 260 Key Contacts expected to participate in intensive advocacy training and meetings on Capitol Hill on March 12-13, 2019. While the event is at capacity this year, we encourage you to become a Key



Ken Perret and Beau Tate talk to Nedra Hains at Fly-in opening social in 2018

Contact and apply to represent your congressional district in 2020. The application for next year's Legislative Fly-In becomes available in October 2019.

In the meantime, once you've signed up as a Key Contact, take a moment to download the Report Card app, *Save America's Infrastructure*, from iTunes or GooglePlay. It will not only put the 2017 *Infrastructure Report Card* grades at your fingertips but, you can see the latest grades for state's, who like Louisiana, have produced their own state level Report Card.

Of course, not all of ASCE's public policy activities take place inside capitol buildings. We encourage Key Contacts to keep an eye on the activities of the Professional Engineers Licensing Board to learn what changes may impact the licensure of professional engineers. Likewise, ASCE can engage on ballot measures that impact infrastructure at the state or local level. Learn what ballot measures may be on the horizon when the next election cycle approaches.

Whether you're interested in attending the Legislative Fly-In or simply want to learn more about ASCE's public policy programs, we hope you'll start by joining the Key Contact program and making advocacy a year-around habit.



Jeff Duplantis and Kirk Lowery at the fly-in ice breaker



Rep. Garret Graves, Ken Perret, and Nedra Hains discuss infrastructure issues in 2018

ASCE-T&DI Louisiana Chapter News

By Michael Paul, PE - Newsletter Editor



& DEVELOPMENT INSTITUTE LOUISIANA CHAPTER

Louisiana T&DI Scholarship Program

Since 2012 T&DI has been awarding two \$500 scholarships to junior and senior level university students who intend to pursue a career in the field of transportation. Funding for the scholarships is provided by the T&DI seminar proceeds. Applicants are required to submit a transcript with two academic recommendations, along with an essay regarding their interest in transportation studies, to their advisers early in the Fall semester. The applications are then reviewed, and the recipients are selected by a subcommittee composed of Louay Mohammad, PhD, PE; Bill Temple, PE; and, Dan Aucutt, PE.

In November, the scholarship subcommittee selected Adeleigh Smith and Eve Blakemore as the recipients of the 2018-2019 T&DI Scholarship. Smith is pursuing a B.S. in Civil Engineering from LSU and plans to graduate in the Spring of 2020. Blakemore is pursuing a B.S. in Civil Engineering from LSU while working as a Research Assistant at LTRC and plans



to graduate in the Spring of 2020. Each of the scholarship recipients received a \$500 stipend, which was sent to their respective engineering departments for distribution. Congratulations to the 2018-2019 recipients!

Adeleigh Smith

Eve Blakemore

Connected/Autonomous Vehicles Seminars and Engineering Ethics

In December the T&DI Louisiana Chapter hosted a joint topic seminar. The topics presented were Connected/Autonomous Vehicles and Engineering Ethics and were presented at the Patrick F. Taylor Hall at LSU in Baton Rouge.

The Connected/Autonomous Vehicles presentation provided an overview of the process employed to assist public agencies including a Complexity Score that is computed based on the technical complexity, institutional complexity and degree of risk of the applications. The approach also includes recommendations for public agencies to continue to plan for moving forward. The speakers were Anita Vandervalk, PE and Akhil Chauhan, PE.

Anita Vandervalk, PE, Associate Vice President at Iteris Transportation Systems, is nationally recognized for her work in the operations, traffic, roadway and safety performance measures, and data arenas. Akhil Chauhan, PE, Senior Vice President at Arcadis, graduated from MIT and has over 15 years of experience understanding how best practices can be applied to the transportation challenges of the 21st century.



From left: Chris Knotts. Anita Vandervalk. Sean Daly and Akhil Chauhan

The second topic was engineering ethics. T&DI offered this presentation to provide engineers the opportunity to satisfy the LAPELS requirement of one hour of engineering ethics training per annum. Chris Knotts, PE presented a seminar titled "Professional Ethics and Review of Recent Actions by LAPELS". Chris Knotts, PE is presently Chief Engineer at DOTD and 2018-2019 LAPELS Chairman.

Louisiana State Science and Engineering Fair

T&DI will again be participating in the Louisiana State Science and Engineering Fair. The event will take place March 18-20, 2019 at the LSU Student Union Royal Cotillion Ballroom in Baton Rouge. As in past years, members of T&DI will serve as judges and present awards to the students with the top transportation and development related projects.

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 transportation projects. 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 Sean Daly at std@iteris. com for a copy of the checklist. 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 area. We have also presented out-reach seminars with the ASCE Acadiana Branch and Shreveport Branch. We are open to co-hosting seminars in additional Louisiana cities if requested. 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:

- Mitigation Banking
- Green Infrastructure: Integrating Infrastructure Needs •
- New Orleans Armstrong Airport
- Bridge Approach Slabs •
- Modern Survey Techniques and Laser Scanning •

Branch News

ACADIANA BRANCH By Will Cenac, PE, Branch President

Howdy from the Acadiana Branch!

I would like to start off by thanking our ASCE Acadiana Branch members for attending our events so far in the 2018-2019 term. The officers of the branch have been working hard to grow and develop the branch so that it becomes a great resource for our members.

We wrapped up 2018 with a very successful luncheon that was hosted jointly by the branch and the local Louisiana Engineering Society chapter. I would like to thank Joey Kreftt, PE for coordinating the luncheon, which was free to both ASCE and LES members. In November, we held Engineering Ethics presentations, given by LAPELS staff, at the University of Louisiana and McNeese State University. These meetings were hosted by our student chapters and I would like to thank them for their efforts for making these presentations a success. Many students were able to attend and learn about the regulations and requirements to be a licensed Professional Engineer. The branch will be holding monthly luncheons throughout the spring. We are also in the planning stages of holding a ASCE Acadiana Branch Golf Tournament fundraiser in the Lafayette area this spring, so keep an eye out for more information. Please reach out to the branch at <u>asceacadiana@outlook.com</u> to make sure you have the most up to date email address on file.

We are also in need of help! We would like to add two officer positions for the branch, should volunteers come forward. We are in need of a Webmaster who will assist in updating content on the branch website, as well as a Newsletter Editor who will be responsible for collecting content and editing our monthly newsletter. If you have any interest in the above positions or would like to be involved as another officer position next year, please do not hesitate to reach out to any of the current branch officers. Thank you for your interest in the Acadiana Branch!

BATON ROUGE BRANCH

By Sarah Ollenburger, PE, Branch President



Baton Rouge Board at the Christmas Party (L to R): Sergio Aviles, Nedra Hains, Jarret Bauer, Sarah Ollenburger, Alicia Sellers, Molly Bourgoyne, Venu Tammineni, Blake Roussel, and Tyler Branch (not pictured: Jamal Steib, Robb Jewell, and Thomas Montz)

The Annual Christmas Party was a wonderful event with live music and great food. Thank you to all of our sponsors who made this event possible!

The January Luncheon was presented by John Spain, the Executive Vice President of the Baton Rouge Area Foundation. Spain spoke about the variety of projects that BRAF is working on in the areas of health care, urban renewal projects, education, and the arts. Spain shared about the new *BikeShare* program near Downtown Baton Rouge, LSU, Southern University, and nearby neighborhoods that will

Continued on next page.



Baton Rouge Branch Christmas Party at Bocage Racquet Club a success



Carla Cohran, Molly Bourgoyne, Khali Cohran, and Sara Ollenburger enjoy the Christmas party

ASCE

Baton Rouge Branch, Continued

allow the public to rent bikes for transportation. He also covered the efforts in the Baton Rouge Lakes Master Plan to improve water quality and create more public space for Baton Rouge. Spain's real passion came through when speaking about the efforts for the Baton Rouge-New Orleans Rail Corridor. His last topic was the Water Campus to date and the future projects associated with the Water Campus. Our downtown infrastructure/coastal district is growing. Thank you again to Mr. Spain for his time and efforts in this presentation!

In February, our Branch focuses on Engineers Week which is February 17-23. This week is a wonderful time to celebrate how engineers

make a difference in our world, advocate to the public the need for engineers, and teach kids and educators about Engineering! During this week, we will be awarding two scholarships: our annual Baton Rouge Branch Scholarship and the Melissa Young Doucet, PE Memorial Scholarship. Be on the lookout for pictures of our recipients in our next newsletter! We also plan to visit a local middle school and teach them about Civil Engineering through Engineering activities during this week of celebration.

NEW ORLEANS BRANCH By Rob Delaune, PE, Branch President

In 2018, ASCE New Orleans Branch successfully formed an Outreach Volunteer Group and attended three STEM Fairs for students in lower school all the way to high school. The events included Engineers Day at the University of New Orleans, STEM Day with the Baby Cakes, and STEM Fest with the New Orleans Saints and Pelicans.

The New Orleans Branch sponsored multiple showings of Dream Big: Engineering Our World at Engineers Day. Many students admitted they did not know what Civil Engineers did when asked the question. This movie inspired many students to explore civil engineering as a possibility for their own future. Dream Big is also now on Netflix.

Along with sponsoring the movie, the Branch set up an exhibit booth at each of the events along with other companies and organizations. On average about six Branch volunteers per event spoke with students about local projects that have been completed in the New Orleans area. Through a wave action demonstration, they showed students the importance of coastal protection and restoration. As simple as this demonstration was, it created sparks in some of the students' minds.



Our volunteers Ayan Mehrothra and Matt Thomas in action at Engineer's Day

The New Orleans Branch plans to do more events like these in 2019. If any member would like to become a part of our Outreach Volunteer Group, please contact Stephanie at BayneStephanie@ stanleygroup.com.

Orleans

These guidelines

Branch

New

completed projects.

The ASCE New Orleans Branch November luncheon was held on November 20, 2018 at Andrea's Restaurant. Our speaker was Jonathan McFarland, PE from the Louisiana Department of Environmental Quality.

featured topic was the Clean Water State Revolving Loan Fund. The Louisiana Department

administers the Clean Water State Revolving Fund (CWSRF) Program. This program provides

financial assistance in the form

of low interest loans to finance

eligible projects, bringing them

Environmental



Rob Delaune and Russ Joffrion at the October luncheon



Rob Delaune and Jonathan McFarland at the November luncheon

into compliance with the requirements of the Clean Water Act. Funding for this program is provided by federal grants and match

of

Continued on next page.

The

Quality

New Orleans Branch, Continued

funds generated by the program's interest and loan repayments. Interest and loan repayments provide a permanent source for funding in future Louisiana projects. Eligible projects include construction of publicly owned treatment works, implementation of a non-point source pollution management program and implementation of an estuary improvement program.



Rob Delaune and Raymond Reaux at the December luncheon

New Orleans Branch The December luncheon featured a topic on the Construction Management at Risk (CMAR) Project Delivery Method. The luncheon was held on December 11, 2018 at Andrea's Restaurant. Our speaker was Raymond Reaux, PE who educated the attendees on how CMAR works. CMAR means a delivery method by which the owner uses a design professional, who is engaged by the owner for professional predesign or design services, or both. The owner contracts

separately with a CMAR contractor to engage in the preconstruction phase. The same CMAR contractor may also provide construction services to build the project. This is a new delivery method for the State of Louisiana that will become more prevalent in the coming years.

In the spirit of the Holiday's the ASCE New Orleans Branch held our annual joint Christmas Party with SAME for all members of the ASCE New Orleans Branch and SAME New Orleans Branch. Due to the generosity of several sponsors this event was offered at no cost to ASCE and SAME members, younger members and student chapter members. The event was held on December 6, 2018 at the Tchoup Yard and it was a chance for members of ASCE and SAME to network in a social setting while celebrating the holidays.

Final Semester Exams can be very stressful for Civil Engineering students and that is why the ASCE New Orleans Branch offered a

SHREVEPORT BRANCH By Marcus Taylor, PE, Branch President

It's been great start to the new fiscal year for the Shreveport Branch of ASCE. This December we teamed up with our local LES Chapter to have a Christmas social at the Flying Heart Brewery. We a good attendance and the pizza and beer made for a fun evening.

January was a busy month for the ASCE Branch. On January 11, 2019 the Shreveport Branch attended the Louisiana Tech Civil Engineering and Construction Engineering Technology Winter Banquet. The Branch awarded four students (two seniors and two juniors) from the LaTech ASCE Student Chapter each a \$500 scholarship. These students were nominated by LaTech civil engineering faculty for outstanding academics and ongoing participation in ASCE. Congratulations!

Continued on next page.



The entrance sign and sponsor recognition at the Christmas party



Students lined up ready for their free lunch during exam week

free lunch to ASCE UNO Student Chapter members during exam week in December. ASCE Student chapter members were very grateful to get a free meal because it was one less thing they had to worry about while studying during exam week.



Allie Thurman, Katya Opel, Micaela Clouse and Arthur Baldwin

Shreveport Branch, Continued



Dr. John Matthews presenting at the January ASCE/LES Luncheon

For our January Luncheon the Shreveport Branch hosted a joint meeting with our local LES chapter. We had a great turnout with around 40 people in attendance. Our speaker was John Matthews, PhD who is the Director of the Trenchless Technology Center (TTC) and an Associate Professor of Civil Engineering and Construction Engineering Technology at Louisiana Tech University. Matthews presented on steam-cured Cured-in-Place Pipe (CIPP) which is something the City of Shreveport is currently involved in as they continue rehab existing gravity sewer mains across the city.

At our January meeting we also were finally able to present Tim Wright with his ASCE Shreveport Branch past president plaque.



Tim Wright and Marcus Taylor

Our next luncheon was on February 21, 2019 and featured Michael Woodcock, the Vice President of Portland Utilities Construction Company, LLC. Woodcock has over 20 years in the pipe bursting industry and has pipe burst or overseen well over 2 million linear feet of pipe in 17 states and the District of Columbia. Woodcock presented on his experiences in the pipe bursting field.

The Shreveport Branch will be hosting this year's 2018-2019 Annual ASCE Louisiana Section Spring Conference on the dates of April 25 - 26, 2019. The conference will take place at the Shreveport Convention Center in Shreveport, LA.



2018-2019 Annual ASCE Louisiana Section Spring Conference

April 25 – 26, 2019.

The conference will take place at the Shreveport Convention Center 400 Caddo St., Shreveport, LA 71101.

Please see pages 20 and 21 to register and sponsor.

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April 25 – 26, 2019 Shreveport Convention Center, 400 Caddo St, Shreveport, LA 71101

Part 1. Registrant Information (*Red	quired)					
a. First Name*	-	b. Last Name*				
c. First Name as to Appear on Name Tag*		d. Class				
			P.E	P.L.S.	Ph.D.	E.I.
e. ASCE Member Number* (If Applicable)						
f. Company Name						
g. Street	h. City	i. State	;	j. Zip		
k. Telephone*	1. Email*		1			
Part 2. Individual Registration (Che	ck all that you wi	ill be need	ing)			
Please see cover sheet for registration inclusions		Postmarked ON or BEFORE April 6, 2019 April 6, 201		Postmarked AFT April 6, 2019	ER	
STUDENT REGISTRAT	ΓΙΟΝ:		Ē			
Technical Sessions On	ly	F	REE		FREE	
(Does NOT include Lunche	cons)					
Thursday Luncheon			\$25		\$25	
Thursday Night Networking	Event**		\$20		\$20	
Friday Luncheon/Awards B	anquet		\$25		\$25	
TWO-DAY/FULL REGISTR Includes Luncheons But NOT Netwo	RATION: rking Event**					
ASCE Member (Indicate member nu	mber in Part 1)		\$240		\$285	
Non-Member			\$285		\$330	
ONE DAY REGISTRAT Includes Luncheon But NOT Netwo	ION: rking Event**					
ASCE Member (Indicate member nu	mber in Part 1)		\$150		\$175	
Non-Member			\$200		\$225	
ADDITIONAL NETWORKING	EVENT**:					
Thursday Night Networking	Event**	\$20	(Per Person	a) \$2 (0 (Per Per	son)
Total						
Please make checks payable to: A Mail form with payment to: A	SCE Shreveport E	erence	For ane	stions cond	erning the conf	ference

Contact Jared Boogaerts at

jboogaerts@nixoneng.com



SPONSOR / EXHIBITOR FORM **LOUISIANA SECTION SPRING CONFERENCE - 2019** APRIL 25-26, 2019 SHREVEPORT CONVENTION CENTER • SHREVEPORT, LOUISIANA Hosted by the Shreveport Branch – ASCE

SPONSORSHIP TYPE	<u>NO.</u>	<u>COST</u>	<u>SUB-TOTAL</u>	
GOLD SPONSOR Includes sponsorship recognition at meal, break, or session room of choice (first come, first serve), landing page recognition, and program recognition		@\$500.00 =	\$	
SILVER SPONSOR Includes landing page and program recognition		@ \$300.00 =	\$	
BRONZE SPONSOR Includes program recognition		@ \$175.00 =	\$	
EXHIBITOR PACKAGE				
Exhibitors will receive an 8'X 10' area with a table, two chairs, and drapes. Registrants may be included in the package for an additional charge as shown. Additional resources available upon request (fees may apply; see below). Donation of door prizes would be appreciated. Lunches and Evening Social included in Exhibitor Package. * Please list if additional resources are needed - power, etc. (May be subject to additional costs)	Additional Resource	@ \$450.00 = (No Registrants) '@ \$550.00 = (1 Registrant) '@ \$650.00 = (2 Registrants)	\$ \$ \$	
ADDITIONAL ATTENDEES Thursday Banquet Lunch		@\$25.00=	¢	
Friday Lunch		@ \$20.00 =	\$	
Evening Social		@ \$20.00 =	\$	
		TOTAL AMOUNT REMITTED	\$	
NAME:	W	ORK PH: ()_		
COMPANY:				
MAILING ADDRESS:	CITY:	<i>S</i> _	TATE: ZIP:	
CREDIT CARD NO. (IF APPLICABLE):	CSC	2: E	EXP. (MM/YY):	
NAME ON CREDIT CARD:	EXHIBITOR BOOTH # REQUESTED:			
PLEASE MAKE CHECKS PAYABLE TO: ASCE Shreveport Branch 2019 Spring Conference P.O. Box 3994 Shreveport, LA 71133 Email this form to Jared Boogaerts @ jboogaerts@nixoneng.com For questions, call 318-747-9669.				

Loeske, Roussel Named ENR Top Young Professionals

BATON ROUGE, Louisiana – Jacob Loeske and Blake Roussel, licensed professional engineers with Stanley Consultants, have each been named to the ENR Texas & Louisiana **Top Young Professionals list**.

The annual list honors 20 individuals under the age of 40 who have shown extraordinary leadership and service throughout their career. Loeske and Roussel hold the distinction of being the only engineers from Louisiana to be included in this year's list. Both work in Stanley Consultants' Baton Rouge office.

Roussel, transportation department manager, joined Stanley Consultants in 2008 after five years with the Louisiana Department of Transportation and Development. He is one of the firm's foremost experts in airport and air field design and is currently the civil design lead on one design package of a military base program with a construction cost estimate of \$1 billion. He is active in the American Society of Civil Engineers (ASCE) Baton Rouge branch as the branch's past-president, and in his community.

Loeske, a client service manager who joined Stanley Consultants in 2015, has helped the Louisiana operations bring in design projects with estimated construction costs over \$100 million. He has been highly active in the Baton Rouge Branch of the Louisiana Engineering Society, serving in every office of the 300-member organization. He was twice named Young Engineer of the Year by the organization. Now he is working to revive the American Public Works Association's (APWA) North Shore Branch, which dissolved after Hurricane Katrina.





Jacob Loeske

Blake Roussel

COASTS, OCEANS, PORTS, AND RIVERS INSTITUTE

Created in 2000, the Coasts, Oceans, Ports, and Rivers Institute (COPRI) is a semi-autonomous institute of the American Society of Civil

Engineers (ASCE), the country's oldest national engineering society. COPRI's services are designed to complement ASCE's traditional civil engineering base

and to attract non-engineering allied professionals who seek to enhance their professional and technical development.

COPRI is led by the COPRI Board of Governors and governed by the COPRI bylaws.

https://www.asce.org/copri/membership/

PORTS[®] '19

SEPTEMBER 15–18, 2019 • PITTSBURGH, PENNSYLVANIA

Registration Opens: March 14, 2019

https://www.portsconference.org/

Why Louisiana Ports Are So ImPORTant By Deborah Ducote Keller, PE

The Louisiana (LA) public port system is comprised of public port authorities spread across the state. These public ports regulate, plan, design, develop, operate and manage port facilities and related infrastructure. One port also has authority over their airport and another port has authority over the New Orleans Public Belt Railroad.

Generally, the ports of LA are categorized into the following categories: Deep-Draft, Coastal, Inland, and Emerging/Developing.

Five of the six deep-draft LA ports are on the Lower Mississippi River (LMR) starting at Baton Rouge. Deep-draft ports focus on freight movements with national and international connections.

The coastal ports concentrate on the oil and gas services industries, shipbuilding, commercial fishing, and fabrication industries.

The remaining inland ports target local markets for cargo movement, manufacturing, and transportation related services.

Several ports have state authorization, but are still under development. These are emerging ports.

LA's ports are vital to the local, state, and national economies. The most recent comprehensive economic study by Dr. James Richardson entitled "Economic Impact of Ports on LA (2016)," revealed impressive statistics attributable to LA ports, such as:

- LA Ports carry 25% of U.S. waterborne commerce, 60% of the nation's grain and 20% of its coal
- LA industries with national and global trade create 525,000 jobs in LA
- Port-reliant industries generate 1 in 5 LA jobs
- Direct spending by ports, their tenants, and businesses produces \$4.1 billion in personal earnings and 77,000 jobs
- State and local tax collections are \$298 million and \$235 million, respectively

Approximately 40% of capital for LA ports to improve infrastructure comes from available port generated revenue; 30% from the state; 20% from bonds; and 11 % from miscellaneous sources.

Not all ports have sufficient revenue or additional bonding capacity for totally funding new projects. It is essential that state and federal governments offer opportunities for ports to leverage a small percentage of their available funds as a match for government grants and loans. Examples of such resources are:

- LA Department of Transportation and Development Port Construction and Development Program (Port Priority)
- LA Capital Outlay Plan (Capital Outlay)
- LA Department of Economic Development (LED)
- U.S. Department of Transportation (USDOT)
- U.S. Department of Homeland Security
- U.S. States' Economic Development Assistance Program/Delta Regional Authority

supplemental Without governmental funding, beneficial port many infrastructure projects would not move to construction. Worthwhile projects that increase safety and efficiency, restore a state of good repair, generate economic competitiveness, foster innovation, enhance the community's quality of life, and create funding



Deborah Ducote Keller, PE

partnerships are delayed when there is a funding gap.

Ports can partner with the private sector by seeking investments from terminal operators and tenants willing to make capital improvements or contribute matching funds for grants in return for reduced lease rates. Public-Private Partnerships (P3) are sometimes an option, but not all projects are suitable for P3 arrangements.

In 2016 PortNOLA dedicated its new riverfront intermodal terminal made possible by a \$16.7 million federal TIGER grant awarded in 2012.

In 2017 the St. Bernard Port, Harbor and Terminal District (SBPHTD) combined proceeds from the state, self-generated revenue, and a private partner to leverage its match for a federal TIGER grant awarded for \$13 million. The project is now under design.

Most recently, the Greater Lafourche Port Commission used state and parish funds, along with self-generated revenue, as its match for a federal BUILD grant awarded in 2018 for \$16.4 million.

These recent USDOT grants demonstrate the degree to which the federal government understands the importance of funding transformative projects at LA ports. LA has consistently ranked nationally as one of the top two states in tonnage of waterborne commerce earning the LMR the moniker "Gateway to the Americas." LA is the nexus of the LMR and the Intracoastal Waterway, where 97 percent of all U.S. tonnage flows.

The ports in South LA, New Orleans, Baton Rouge and Plaquemine were ranked among the top 15 U.S. ports measured in tonnage. In addition, they are connected via the LMR to 14,500 miles of inland waterways for transportation by barge. Combined, LA ports moved more than 500 million tons of cargo, including 60 percent of U.S. grain and 20% of its coal.

In July 2018 Global Trade Magazine evaluated and ranked U.S. ports based not only on tonnage, but also upon other weighted factors such as collaboration on state-of-the-art technology, diversification in port operations, rate of economic growth, and introducing something unique to the logistics industry. The top ranked LA

Continued on next page.

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"Power Ports" are as follows: #1 Port of South LA #4 PortNOLA #10 Port of Plaquemines #11 Port of Lake Charles

Four "Power Ports" in one state, along with six class I railroads connecting in New Orleans and a soon to open new international airport in Kenner, offers transportation synergy that is an economic developer's dream.

SBPHTD is one of five deep-draft ports on the LMR nestled between the New Orleans and Plaquemine ports. "The LMR is one of the largest port complexes in the world," said Drew Heaphy, currently president of the Ports Association of LA (PAL) and the Executive Director of the SBPHTD.

In August 2018 the U.S. Army Corps of Engineers signed the report for deepening the LMR to a draft of 50 feet from the Gulf of Mexico to Baton Rouge and recommended approval for funding, noting that the project is economically justified and environmentally sustainable.

"With the deepening of the LMR to 50 feet, LA will continue to provide the goods and services necessary to stimulate economic growth, not only in LA, but the nation as a whole. This project will keep the five deep-draft ports along the river reliable and competitive and will create critical new marshlands to combat coastal erosion," said Heaphy.

Heaphy began his 2-year term at PAL in June 2018. He and his board are setting their sights on several goals:

- Ensure that state funding for Port Priority remains at least \$40 million annually
- Promote the importance of LA ports to elected officials, citizens, businesses and industries throughout the state and region

- Forming a Political Action Committee (PAC)
- Revising PAL committees' structure

PAL, a 501-c-6 non-profit organization, was formed in 1984 by LA port directors and has a diverse membership interested in supporting the advancement of LA ports. "We would like the state to fund Port Priority even higher than the \$50 million annual funding recommended in the ASCE 2017 Infrastructure Report Card," stated Heaphy. "Port Priority is a very important infrastructure funding source for our ports."

Why are LA ports so important? Because both individually or combined, LA ports are more than local, state, and regional, they are of national significance.

"I think it shows the importance of LA ports to the state and nation when two ports that most people are unfamiliar with secure U.S. DOT federal infrastructure grants two years in a row. Those grants are very competitive and each applicant has to meet the criteria, demonstrate need, and document that the economic benefits outweigh the project costs.

For further information on PAL and LA ports go to: <u>www.</u> <u>portsoflouisiana.org</u>.

For PAL's presentation on Dr. James Richardson's economic study go to:

http://wwwsp.dotd.la.gov/Inside_LaDOTD/Divisions/ Administration/GTFTII/Docs/11.09.16%20Task%20Force%20 Meeting/PAL%20Presentation.pdf

Deborah Keller, PE is the CEO of Deborah D. Keller and Partners and Chaired the 2017 Louisiana Infrastructure Report Card Ports and Inland Waterways Committees.

NOTICE FOR POTENTIAL CANDIDATES TO APPLY FOR VACANCIES ON THE SOUTHEAST LOUISIANA FLOOD PROTECTION AUTHORITY EAST AND WEST LEVEE BOARDS.

The State contact person is Ms. Stephanie Aymond at Stephanie.Aymond@LA.GOV . Applicants need to complete the official application, which can be found at the following link: http://www.coastal.louisiana.gov/wp-content/uploads/2013/09/SLFPAApplication1.pdf. Applicants are needed to fill the following Board vacancies:

The Nominating Committee will be seeking applicants for this year to fill the following vacancies for their term beginning in 2019 and ending in 2023.

A. Non-Resident:

- 1. SLFPA –East Board: One (1) Vacancy. A Non-Resident for the East Board means anyone who resides in the State of Louisiana or the United States; but, does not reside in either Jefferson or Orleans Parish in that respective portion of these Parishes that is located on the East side of the Mississippi River or anyone who resides in St. Bernard or Tangipahoa Parishes.
- 2. SLFPA-West Board: One (1) Vacancy. A Non-Resident for the West Board means anyone who resides in the State of Louisiana or the United States; but, does not reside in either Jefferson or Orleans Parish in that respective portion of these Parishes that is located on the West side of the Mississippi River.

A Non-Resident applicant can apply to both Board's or may choose to apply for only the East or West Board's, subject to the residency requirements.

B. Resident:

- 1. SLFPA-East Board Tangipahoa Parish Resident: One (1) Vacancy. The applicant for this vacancy must reside within the boundaries of Tangipahoa Parish.
- 2. SLFPA-West Board Orleans Parish West Resident: One (1) Vacancy. The applicant for this vacancy must reside in that portion of Orleans Parish that is located on the West side of the Mississippi River.

ASCE

ASCE-SEI New Orleans Chapter News

By Om Dixit, PE, FASCE, F-SEI

SEL ASCE STRUCTURAL ENGINEERING INSTITUTE New Orleans Chapter

ASCE SEI New Orleans Chapter started the 2018-19 year by a seminar Code-Based Approach for Evaluation, Repair, and **Rehabilitation of Concrete Structures** by Carl J. "Chuck" Larosche, PE, Principal, Wiss Janney, Elstner Associates, Inc., Austin, TX on November 1, 2018. Larosche presented the reasons for and motivation behind the development of the Repair Code (ACI 562 Code), the overall philosophy and organization of the material. Larosche stated ACI's Code approach to determination of unsafe conditions and presented practical examples of structural assessment, existing material evaluation, and load testing of existing structures using the ACI Code. The seminar was attended by 47 attendees.

ASCE SEI New Orleans Chapter presented a seminar on January 17, 2019 by Tarek Alkhrdaji, PhD, PE, (Vice President, Structural Technologies, Columbia, Maryland). The title for this seminar was **Techniques and Design Considerations for Strengthening of Existing Concrete Structures**. Dr. Alkhrdaji explained the analysis and techniques for upgrading concrete structures is a complex science that requires a blend of engineering, material science and construction perspectives. Strengthening projects may utilize traditional materials such as conventional cement-based and steel materials as well as advanced composite materials (FRP's) that are commonly used for aerospace applications. The techniques used to design and install these materials for upgrade applications are not common to the engineering and general construction industry which can make strengthening projects even more challenging and more complex than new design/construction projects.

SEI NO has planned the following Seminars in coming months.

March 27

Simplified Building Design by ACI 314

Jose M Izquierdo-Encarnacion, Puerto Rico



Great Builders – (Annual DH Lecture)

Paul Giroux, Kiewit Corporation

There are several other seminars topics are in progress of being scheduled. For more details visit SEI NO Chapter on <u>www.asceneworleans.org/events/</u>. SEI NO will sponsor awards at the Regional Science Fair. The Chapter also will sponsor New Orleans Regional Math Count Competition hosted by Louisiana Engineering Society.

The committee is looking for good topics and speakers for future presentations. Members with expertise in the field of structural engineering are welcome to join the Executive Committee. For any suggestion and information on joining the Executive Committee, contact Chairman Kabir Mohammed, PE at <u>asceseinola@gmail.com</u> . For adding your name to our mailing list, please visit ASCE New Orleans Branch website at <u>www.asceneworleans.org</u> and add name to the email list.



"Speaker Tarek Alkhrdaji, PhD, PE and SEI NO EXCOMM member Jay Jani, PhD, PE at January 17, 2019 Seminar on Techniques and Design Considerations for Strengthening of Existing Concrete Structures

Student Chapter News

LOUISIANA STATE UNIVERSITY By Ahmad Amous

ASCE at LSU will be participating in the Deep South Conference at Louisiana Tech University this March. The concrete canoe team and team captain, Matt Thomas, will be working productively to complete the design. Aside from competition, ASCE at LSU has invited Enercon Services Inc. Their company includes architectural engineering, environmental, technical and management services firm providing a broad range of professional services to private, public, and government sector clients throughout the United States. Rudy Simoneaux, the Louisiana section President was also invited as a guest speaker here at LSU. Rudy is an employee for CPRA (Coastal Protection and Restoration Authority). Rudy presented on what he does at CPRA and what types of "road blocks" they have to overcome keeping wetlands and wildlife safe for the environment.

Our main goal for ASCE at LSU is to recruit new members and also getting them involved. We ASCE at LSU will also be participating in two local events; Geaux Big Baton Rouge and volunteering at the pet shelter in early March. Geaux Big connects current LSU students with the Baton Rouge community which made its debut in 2013 with 850 students volunteering at 29 different job sites. ASCE will also be volunteering at the local pet shelter here in Baton Rouge at CAA (Companion Animal Alliance) where volunteers from ASC will provide assistance with walking and bathing dogs helping full time workers who are in need.

In late January, Sydney Sziber (President), Andres Amador (Vice President), and Ahmad Amous (Secretary) flew out to Orlando, Florida to participate in the WSCL conference. It is a workshop for student chapter leaders that trained new student officers in ASCE. The conference taught leadership and social skills from older members who share knowledge on how to be a good leader. It also provided knowledge on when to begin registering for the FE exam

(Fundamental Engineer) before you graduate in order to begin your career and to look forward to testing for your PE exam (professional Engineer).

The ASCE at LSU career fair, was a huge success. As many as 300-400 students and many other companies came out to attend the event. This career fair provides civil and environmental engineering students with a more personal and intimate experience with firms and potential employers. We are now looking forward to this year's career fair that will be taking place on April 4th and a social event that will be held on April 3rd. We are looking for speakers who are eager to share their experiences to our members here at LSU. This provides our aspiring engineers with an invaluable networking experience and also gives a much-needed insight into the professional world we will soon be introduced to.



WSCL Conference: Ahmad Amous (left), Sydney Sziber (middle), Andres Amador (right)

MCNEESE STATE UNIVERSITY By Robert F. Nodier, Student Chapter President

Howdy from Cowboy Country!

Preparations for the concrete canoe continue. Captain Taylor Stephens has his troops organized, and after testing their mix designs, they are approaching the construction phase of the project.

An official roster for the ASCE Deep South Region Student Conference was due February 1, and our chapter is happy to report that 27 of our members will be attending the weekend's events! Look out Ruston: Cowboys are coming!

McNeese College of Engineering's Incrediball[®] Tournament has been pushed back to Saturday, March 9. ASCE will be sending two

teams to the tournament: and Senior/Junior team and Sophomore/ Freshman team. Double the chances to show the other clubs that Civils rule!!

As we look forward to our student conference, the possible Spring 2019 "Clean the Coast" Event, and other events, keep updated on our progress by following us on Facebook and Instagram, or getting in touch with us at <u>msu-rnodier@student.mcneese.edu</u>.

Geaux Pokes!

LOUISIANA TECH UNIVERSITY By Allie Thurman, Student Chapter President

Louisiana Tech's chapter of the American Society of Civil Engineers has been extremely busy this year! We have increased our efforts to be involved with the students on campus and the entire community, while maintaining our two competition teams Concrete Canoe and planning to host the regional Deep South Conference.

We just recently poured our concrete mix for the canoe and are currently working on the finishing touches to the design report. We

SOUTHERN UNIVERSITY

By Orisamola Richardson, Vice President of Student Chapter

This past November, the Southern University Chapter of ASCE participated in SU STEM day Fall 2018. This event was a day devoted to getting high school students excited about STEM as well as showing what our STEM looks like as Southern. Our president, Shontel Sims, served on the planning committee for STEM day and our board members volunteered to be group leaders for this event.

are also working on constructing the sustainable doghouse as well as the design report for it. The surveying team is also starting to practice for their event at conference. We are continuing to prepare for the 2019 Deep South Conference as well as make sure all of our teams are well prepared to compete.

During finals week the LA Section of ASCE provided free jambalaya for our civil engineering students to help close the semester. More recently, vice president, Orisamola Richardson received an ASCE scholarship awarded by the Baton Rouge Branch of ASCE. Last

week, we participated

in our 2019 National



UNIVERSITY OF LOUISIANA AT LAFAYETTE

By Mary Grace Sherlock. Student Chapter President

The University of Louisiana at Lafayette (ULL) Student Chapter of the American Society of Civil Engineers (ASCE) accomplished a lot in the past Fall semester and are looking forward to even greater opportunities and events for the Spring semester. Due to the wonderful participation from our officers as well as members, we will be able to accomplish all that we hope to do in the next four months.

Towards the end of the Fall Semester, students were preparing for their final exams while participating in what the UL ASCE Chapter had to offer. We held our last meeting of the semester in conjunction with the ASCE Acadiana Chapter where LAPELS came to give us a presentation on Ethics. The meeting was held on campus on November 14, 2018 with a turnout of over 80 students and professionals.

With the close of the past semester, we bid farewell to our graduating seniors. We were sad to see them go, yet excited to see them moving onto the next chapter of their professional life! We certainly do miss their insight and advice to our members whether it be study habits or their personal experiences with us; however, the graduates of this semester will be happy to take over their reign. Congratulations to the Civil Engineering Graduates of the Fall Semester 2018!!

Our next step is to have everything planned for the Spring Semester. We intend to continue our volunteering opportunity with CRCL. We

will advance with our monthly meetings. And of course, the Annual Deep South Competition held at Louisiana Tech in the month of March.

As you can see, the ULL Chapter of the American Society of Civil Engineers has a long but exciting road ahead of us. We look forward to working closely with other ASCE Branches and Chapters at the local, state, and even the national level to make this another truly successful semester. For additional information regarding the aforementioned events please contact us at ullafayetteasce@gmail. com. Geauxxx Cajuns!





the ASCE Junior Scholarship award to Acadiana and UL Chapter meeting

President- Elect, Jacob Neu presenting President- Elect, Jacob Neu presenting the ASCE Senior Scholarship award to UL Student, Brooke Smith at the ASCE UL Student, Troy Breaux at the ASCE Acadiana and UL Chapter meeting

UNIVERSITY OF NEW ORLEANS

By Bailee Hurm, Student Chapter President

ASCE-UNO Student Chapter has had an extremely busy start to the Spring 2019 semester. With the Deep South Regional Conference right around the corner, our student members have been hard at work preparing for the competitions to come. The first general meeting of the year was held on January 31st where we discussed what the coming months will look like for ASCE at UNO.

On Sunday, February 10, 2019 the concrete canoe team that will be competing in the 2019 Deep South Regional Conference held a notably successful pour day. The team is taking very good care of their canoe while in its curing stage. We are eager to see the final product and test it out. Two days later a few of our members had the pleasure of attending the ASCE New Orleans Chapter Luncheon where Ehab Meselhe, PhD., PE, discussed stormwater and hydraulic modeling. Dr. Meselhe gave a phenomenal presentation in which he addressed some imperative topics to Louisiana, but specifically to New Orleans and the surrounding areas. The following week in honor of National Engineering, UNO's College of Engineering is hosting an outreach event for students in Louisiana to come to UNO and learn about all of the different applications of engineering. Large companies such as NASA and Shell have participated in previous years making it a compelling experience for the students. ASCE-UNO will have a table set-up where we will hold a paper bridge competition for the students and engage with them about the great benefits of not only civil engineering but also being a member of an organization like ASCE.

Following the Deep South Conference, ASCE-UNO will be holding a joint Spring Social with the ASCE Younger Members of the New Orleans chapter. This is the first time either of the groups will be doing their Spring Social this way, and we are very excited to see the outcome. The date is still to be determined, but it will be held sometime in the month of April. In the next coming months, our student members will continue preparing for the Deep South Conference. We are looking forward to a successful and event filled semester.



Canoe Curing Process – Pictured: Vice President Kevin McCord

- CALENDAR OF EVENTS -

FEBRUARY 2019

March 12-14, 2019:

The 2019 Legislative Fly-In in Washington, D.C. and Arlington, VA.

April 25 – 26, 2019

2018-2019 Annual ASCE Louisiana Section Spring Conference, at the Shreveport Convention Center in Shreveport, LA

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

PROFESSIONAL LISTINGS



LOUISIANA CIVIL ENGINEER - FEBRUARY 2019

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LOUISIANA CIVIL ENGINEER

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