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Journal of the Louisiana Section

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Joe "Butch" Ford Jr., PE 2020-2021 ASCE LA Section President

FEATURE:

Sasol Heavy Haul Road – Functionality by Design

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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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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 Joe "Butch" Ford Jr., PE

It is an honor to be elected as the president of the ASCE Louisiana Section for the year 2020 – 2021. This past year started with the Section and the country adapting to many changes. Zoom and virtual meetings have become common phrases. The Section and I are up to these challenges and will continue to serve the ASCE Louisiana membership.

I grew up in Northwest Louisiana and attended Louisiana Tech University where I was introduced to ASCE through their student chapter. I served on the ASCE Shreveport Branch Board from 1998 - 2002 and served as Branch President from 2001 – 2002. A few years back, Past President Matt Redmon contacted me and asked if I was interested in serving on the Section Board again. Generously I said yes, which has afforded me many opportunities to meet new ASCE members from around the state and country. This is one of ASCE's greatest assets, developing new professional friendships through our organization. Through these friendships, we can share new ideas and innovations that improve our Section and the ASCE Society.

Several goals have come to mind for this year; however, I will focus on two major ones, membership and infrastructure education and outreach. My main goal is concentrating on increasing Section membership, which is also one of the ASCE Society's goals. Think of that practicing civil engineer in your local community that you can reach out to and invite them to join. Explaining why you enjoy being a member and all the benefits you receive is the Section and ASCE Society's best advertisement. I hope you will reach out this year and invite them to join and help us meet this goal. Membership is the lifeblood of our organization and I hope we can increase the Section membership by 5% this year.

Another goal is addressing the current status of our infrastructure with our communities and our elected officials. In March of 2019, I visited Washington, D.C., and met with our Federal Delegation. It was apparent that the state of our infrastructure is not their most pressing concern. The Section needs to start a grass-roots campaign that begins at the branch level, which educates our families, neighbors, and local leaders on the importance of infrastructure. I drive on roads and bridges that are 50 – 75 years old knowing, as you do, that they cannot last forever. It is well known in our industry that infrastructure has a design life and must be replaced or reconstructed in the



Joe "Butch" Ford Jr., PE

future. This critical information must be discussed with the general public at civic meetings and with our elected representatives. Access trusted and respected infrastructure information in an easy to share ASCE Report Card app or document at https://www. infrastructurereportcard.org/. Louisiana has \$14 billion of backlog projects and we need to remind our local officials every day that this is a major issue that needs to be addressed. It is time to fix our transportation funding problems in Louisiana and our country for good. Contact your local officials today, you are the expert civil engineer they need to hear from! As the Section starts the planning phase of our next Louisiana State 2022 Report Card, please consider joining this important committee by contacting the Government Relations Committee Chair, Jan Evans, PE at jan.evans@volkert.com.

I give many heartfelt thanks to Ali Mustapha, PE, F.ASCE, and Executive Director at Caddo Levee District that has dedicated many years of distinguished service to the ASCE Louisiana Section. I first met Ali in 2000 while attending the ASCE Leadership Conference in Orlando. He served as president of the Louisiana Section in 2008 and his term as the ASCE Region 5 Governor ended this past September. I would like to thank him for 20 years of dedicated service to the Louisiana Section and ASCE Society. Ali will continue to be a valued and trusted advisor to all of us.

In closing, thank you again for the opportunity of serving as your President. I assure you that our Section board is up for the challenges that lie ahead, and I am looking forward to a successful year.

Sasol Heavy Haul Road – Functionality by Design

By: Jeanne Arceneaux Hornsby, MS, PE, CFM and Anna Wyble Doucet, PE

In December of 2012, Governor Bobby Jindal announced Sasol North America's decision to make the largest single manufacturing investment in the State's history at their Lake Charles facility. In July of 2013, the Front End Engineering and Design (FEED) contract for Sasol's Lake Charles Chemical Complex Project (LCCP) was awarded to the Fluor Corporation. Upon completion of the FEED contract in the Fall of 2013, Sasol North America (Sasol) received the Final Investment Decision (FID) for the LCCP. The LCCP, upon completion in 2020, will have resulted in an \$12B investment in Southwest Louisiana.

In order to optimize the construction schedule and increase the feasibility of the project, a modularization approach to construction was utilized. Modularization requires the use of fabrication facilities worldwide to construct various components and then ship the modules to the site for erection and commissioning. Successful implementation of a modularization strategy requires sufficient transport infrastructure prior to the commencement of plant construction. This infrastructure is critical for the reliable and timely delivery of modular components.

The success of the LCCP's modularization strategy required the improvement of the Heavy Haul Route (HHR) that included approximately 2.4 miles of LA State Highway 379, installation of almost 3 miles of subsurface drainage and the relocation of numerous public and private utilities within the project corridor. These improvements resulted in a total project cost of over \$60M. Additionally, the project required an upgrade to several intersections within the HHR which included geometric changes, innovative rotating mast arm signal poles as well as the implementation of Louisiana's first adaptive traffic management system.

The LCCP schedule required that all design along with substantial construction completion occur in advance of the delivery of the first module during the 4th quarter of 2015. With the work of multiple engineers, contractors, and agencies as well as a successful public-private partnership between Sasol and the Louisiana Department of Transportation and Development (LADOTD), this accelerated schedule was met. Substantial completion was received in the Fall of 2017.

The Heavy Haul Route, in terms of cost, was a small part of the total investment decision for this project. However, in consideration of the critical schedule for the LCCP project, the Heavy Haul Route was early along the critical path, setting the pace for the entire project. Design, shipping, and fabrication of the early lead modules would take about 24 months. The schedule had limited float once the modules began to arrive, and with the Port of Lake Charles's limited storage capacity, delays to the HHR schedule could have halted the entire project. A large number of public and private entities coordinated with one another during each phase of the planning, design, and construction of the Heavy Haul Route. Numerous critical issues along the Heavy Haul Route would need to be addressed in the process of not only providing an adequate route, but also installing infrastructure that would prove beneficial to the community after project completion. In order to successfully meet the objectives of the Heavy Haul Route task, the following key items were identified early in the process as drivers of its success: Traffic Impact Analysis (TIA), Environmental Clearance, Stakeholder and Involvement, Public Design, Project Permits. Construction. and Construction Engineering and Inspection (CE&I).

Traffic Impact Analysis (TIA)

In accordance with the LADOTD Access Management Guidelines, the design team began compiling data to support a TIA, which would



Jeanne Arceneaux Hornsby, MS, PE, CFM



Anna Wyble Doucet, PE

be used to guide the improvements of the Heavy Haul Route as well as several key intersection and driveway locations along the route. The detailed plant construction schedule indicated three ramp-up phases for craft labor with the first ramp-up generating approximately 2,000 worker round trips, the second ramp-up generating 4,300, and during peak construction, greater than 6,600 worker round trips were forecasted. In addition, an estimated 1,500 daily delivery truck trips were anticipated. These significant peaks associated with construction were to dissipate upon completion of the LCCP project. The peaks required each of the stakeholders to consider innovative solutions toward mitigation while at the same time observing economic feasibility and providing practical, maintainable infrastructure for the community and LADOTD in the future. The final TIA, completed by Alliance Transportation Group, Inc., is over 1,300 pages in length and identifies multiple scenarios, traffic configurations, and mitigation strategies that were vetted and accepted by Sasol, LADOTD, and local Municipalities impacted by the project. The total traffic data included in the TIA was used in combination with the module delivery schedule to perform a structural analysis of the pavement along the HHR. Due to the complexities of the project, the Final TIA was not accepted until June of 2015. In order to maintain progress on the project while the TIA was moving toward final acceptance, LADOTD granted conditional project permits which Sasol implemented with an understanding that changes to the TIA might result in project modifications. This methodology is atypical for a project of this type and is just one example of the cooperation and partnership observed by all parties in achieving the goals and objectives set forth in the early partnering meetings.

Environmental Clearance, Stakeholder and Public Involvement

As with any project of this magnitude, environmental clearance along with stakeholder and public involvement play a critical role in its success. Equally critical to the success of this project was the acquisition of the necessary right of way by the owner and subsequent transfer of this right of way to LADOTD. During this phase of the project, over 1,400 individual access agreements were obtained from landowners along and near the HHR to fulfill the cultural and historical investigation requirements associated with the U.S. Army Corps of Engineers' Wetlands Permitting process. A wetlands boundary was established and mitigated along the Heavy Haul Route and this boundary dictated the limits of construction. Significant consideration regarding design aspects was given to a number of public spaces including schools, churches, and parks along the Heavy Haul Route. In addition to the design, Sasol implemented several methods to solicit comments from stakeholders and alert the public of impending construction and heavy haul activities. This communication was accomplished through door-to-door interaction, public meetings, social media, television and radio, as well as an opt-in text alert system. In addition to the public spaces, several trees of local significance were present along the route. The design team preserved these trees through careful planning and alignment of the heavy haul route in consideration of the multiple module configurations. Finally, the route provided access to many businesses that serve the area. The sequence of construction required careful planning to minimize impacts to these businesses. This project successfully maintained access to these businesses despite significant challenges associated with the project limits and magnitude of construction.

Design and Project Permits

Upon completion of the preliminary TIA, Sasol began working with LADOTD to design and construct the Heavy Haul Route in support of the project schedule. As mentioned above, the Heavy Haul Route's primary purpose was to transport modules from the Port of Lake Charles's dock to the plant entrance. As such, the first discussions with LADOTD focused on module size and road typical section. In order to support the objectives of modular construction, the design of the road envelope was to accommodate almost 700 oversize/overweight permit loads. The module list had a great deal of variation and in order to capture the range of configurations, the design module envelope was 50'W X 50'H X 200'L with an average module weight of 1,000 tons. A few special design modules were considered including 2 modules greater than 50' in width, 8 modules greater than 50' in height, and one module that was approximately 317' in length. Coupled with the geometric envelope exceedance, several weight exceptions also existed. This included over 50 modules greater than 1,000 tons and one module exceeding 3,000 tons.

In order to optimize the design while minimizing impacts to the sensitive areas along the route, Mammoet, the heavy haul contractor, worked with lead Heavy Haul Route designer, C. H. Fenstermaker and Associates, L.L.C. (Fenstermaker) along with other members of the design team to provide input on module transport vehicle capacity. Once the wheel configurations and turning radii were established for the design and the specialty

Sasol's LCCP Heavy Haul Route on



Milestone Tracker | Ethane Cracker & Derivatives Project | Heavy Haul Route



https://www.youtube.com/watch?v=jHM2_xA62fA

Milestone Tracker | Ethane Cracker & Derivatives Project | Heavy Haul Route Mast Arms



https://www.youtube.com/watch?v=_hbxaclBmOE

First Heavy Haul Transport for Sasol's US Mega Project



https://www.youtube.com/watch?v=_BTeCh3E8LM

Milestone Tracker | Ethane Cracker & Derivatives Project | Ethylene Oxide Wash Tower Update



https://www.youtube.com/watch?v=cbtwMi1hFyI

modules, the design team began the preliminary layout of road widening requirements. The design and layout of the widening required multiple meetings with LADOTD Headquarters, LADOTD District 07, Sasol, the design team, and other stakeholders in the area. Ultimately, it was determined that a minimum roadway width of 36' was required along the route. There were three major turns along the route that required between 60' and 125' of pavement. This additional pavement was required not only to accommodate the maximum 456' turning radius but also the superelevation within the curve.

The road widening for the project also supported the District's planned use for this road—to accommodate growth in the area. The required pavement structure for the road in support of the modules was just as important as the geometric configurations. In order to provide an adequate pavement structure for the modules and design traffic volumes, a detailed pavement analysis was performed. Advanced Material Services, LLC (AMS) selected the location of several roadway cores and performed a falling weight deflectometer (FWD) analysis of the pavement structure. Resulting from the FWD analysis along with the predicted module transport axle loads, several pavement upgrades were recommended, including a full-depth reconstruction for approximately 2,700' of the 2.4 mile Heavy Haul Route.

With the numerous heavy haul transports, it was not a reliable and cost-effective method to remove the traffic signals at the intersection of LA Hwy 378 and LA Hwy 379 during module transport. Therefore, as part of this project, rotating mast arms were proposed and approved through a LADOTD permit. These 45' to 55' long and 22' tall rotating mast arms are very significant in that they are the first of their kind in the state of Louisiana. As such, the mast arms required special permitting by LADOTD Headquarters as they did not conform to existing LADOTD standards. Rotating mast arm signal poles do not require any electrical components to be disconnected during operation and can be returned to a fully operational system within minutes of the module clearing the intersection. This efficiency results in a shorter down time of the signal and minimizes the impact to the surrounding community. This was especially important for this project considering that over 200 modules required the signals to be moved during module transport, with several occurring over any given week.

Utility relocation was also a significant requirement for this project. Overall, 17 public and private utility companies were involved with 32 various utilities that had to either be relocated or protected. These included utilities such as water, sewer, electrical, high pressure gas pipelines, and communications. Almost the entire length of the Heavy Haul Route was lined with overhead electric lines which could present a safety hazard during module transport. In order to capture all utilities along the route, various class SUE investigations were performed by the design team. The result of these investigations included the raising of several power transmission lines to 192' to provide vertical clearance along with the relocation of power and natural gas distribution lines. Additionally, Lancon Engineers, Inc. (LE) designed the relocation of several miles of water distribution and sewer collection infrastructure. Fenstermaker used laser scanning and UAV technologies to inspect several existing sewer manholes and collection lines. This infrastructure was then structurally retrofitted where it could not be practically relocated. Fenstermaker also inspected several drainage systems using submersible robotic video equipment. Several perpendicular pipeline crossings, which were previously permitted by LADOTD, existed along the route. Through this project and the associated FWD testing, the pipeline owners were able to analyze the infrastructure with predicted axle loadings to ensure that increased loading on the pipe did not exceed the design requirements as stipulated by the owner, LADOTD, and Title 70 of the Louisiana Administrative Code.

In addition, the design included the upgrading of over 2.8 miles of drainage system. The existing system was inspected utilizing subsurface robotic technology to identify current conditions. Detailed hydrologic and hydraulic modeling was also completed to identify local flood conditions. The Heavy Haul Route design brought the existing system up to current design standards along the route.

Equal in importance to the geometric and pavement configurations of the HHR was the mitigation of increased traffic in the area due to craft labor and delivery vehicles. The mitigation was accomplished through several intersection improvement projects and the design and installation of an adaptive traffic management system by Intelligent Transportation Systems (ITS). This adaptive traffic management system is also the first of its kind in Louisiana and provides a system that adjusts signal timing and sequencing at multiple intersections simultaneously. The innovation of the system is that the signal timing and sequencing is performed as a response to changing traffic patterns throughout the course of the day. The system collects data through pucks and video detection at various intersections and then adjusts signal timing to minimize traffic congestion. Since traffic patterns vary in this area due to the Sasol project as well as neighboring plant operations, this system provides continuous optimization without demanding significant resources from the District 07 Traffic Operations Engineer (DTOE).

In order to receive approval for the construction of the Heavy Haul Route, approximately 35 permits (*4 Project, 1 Vegetative Maintenance, 7 Traffic Signal, 13 Access Connection, and 10 Utility*) were secured for roadway construction, driveway installation, utility crossings, tree trimming and clearing, as well as the rotating mast arm signal poles and adaptive traffic management signal system. In addition to the construction permits, over 200 heavy haul permits were submitted and approved for each module transport. Amidst the project complexities and environmental constraints, the design team was successful in designing and constructing a project that met Sasol's needs while providing infrastructure acceptable to LADOTD. Because of the combined efforts of the entire team, it should be noted that only two design exceptions and one waiver were required for this project and each were minor in nature.

In addition, with the Heavy Haul Route being a state route and a primary collector for the City of Westlake, traffic mitigation along with functionality for the permanent use of the roadway were given careful attention during the design, such that the final road provided an overall benefit to the surrounding community. Upon its completion, the Heavy Haul Route provided at a minimum, 36' of pavement, sufficient for a three-lane section allowing for a continuous turn lane. Significant existing utility infrastructure was removed from the LADOTD right of way and relocated within utility servitudes and an under-capacity drainage system was improved

"In partnership with Sasol, that's making a huge investment here in Louisiana, they came to the table not only interested in working with us to build a Heavy Haul Route, but to do something *innovative* in the system...and that is our State's *first* adaptive traffic signal. That's going to provide tremendous benefit for the travelling public."

Dr. Shawn Wilson, Louisiana DOTD Secretary

Construction and CE&I

Initially, the Heavy Haul Route might appear to be a standard LADOTD permit project, but upon further consideration, this project was an upgrade of 2.4 miles of an existing State Route. As such, District 07 required that the road construction follow the same specifications and procedures required for typical LADOTD construction projects, with the exception that this road was being funded by a private entity. As with every other phase of the project, construction required a high level of partnership between the Department, Sasol, the design team, and the construction team led by Barriere Construction.

During the initial letting of the project, contractors submitting bids were informed that the typical LADOTD construction, engineering, and inspection protocols would be implemented on this project permit. This required the contractor to fully understand the submittal and RFI process as well as retain a QC lab for their portion of the project. In addition to the standard LADOTD policies and procedures, the contractor was required to follow the EPC's project-specific safety program. At construction completion of the Heavy Haul Route, 192,700 man hours were worked without a single lost time incident—a significant accomplishment on a project of this magnitude, especially considering its complexity and the pace of construction.

Project Awards Received:

2020 ACEC National Recognition Award - Industrial & Manufacturing Process

2019 ACEC/LA Engineering Excellence Grand Award - Industrial & Manufacturing Process

2018 LA Transportation Excellence Award- Use of Innovative Product or Technology

2018 LA Transportation Excellence Award- Roadway/ Bridge Construction >\$10 million

2017 ABC National Excellence in Construction Pyramid Award

2018 ABC Bayou's Excellence in Construction Award

2018 ABC Pelican's Excellence in Construction Award

2018 Greater New Orleans Business Roundtable – Excellence in Construction Award

Paramount to the success of this project was the commitment from all participants in construction to the weekly call-in meetings. These weekly call-ins relied on the use of teleconferencing to decrease lost time due to travel. During these meetings, a formal agenda was presented at the beginning of the meeting and within 48 hours of the conclusion of each meeting, minutes and action items were distributed. For this project, over 110 sets of meeting minutes with action items were generated. This systematic collaboration and distribution of responsibilities led to the overall success of the project. These meetings provided an opportunity for each member of the team to identify concerns, discuss submittals, inspection, and testing reports as well as plan for upcoming module transports.

As with any construction project, responses to submittals and requests for information need to occur in a timely manner. The commitment by all members of the project team, including the Department, Sasol, the Designers and the Contractor, was unparalleled based on experiences from other projects of similar magnitude. Considering the delivery of the first heavy haul module set the schedule for this project, it was essentially managed as a hard date project. Impacts due to weather or other unforeseen conditions were mitigated through weekend and overtime work to keep the project on schedule. At the conclusion of the project, over 100 submittals were reviewed and approved as well as almost 200 RFI's. This project also required the use of multiple LADOTD certified inspectors (Fenstermaker), LADOTD certified testing labs (Terracon), and various construction trades.

The Heavy Haul Route construction activities included the installation of 47,017 square yards of soil cement, 30,053 tons of asphalt, and 2,131 cubic yards of concrete. Throughout the construction phase of the project, there were many challenges along the way. One of the biggest challenges was the sheer magnitude of utilities. It seemed that every time an excavation occurred, the contractor would discover another utility line. In addition, many of the utility companies were working simultaneously with the contractor to relocate and/or abandon their lines.

In addition, complex construction elements were completed in order to meet LADOTD and Sasol needs, such as a 120" jack and bore of a steel pipe located 5' below LA 379. This was completed in order to maintain traffic along the route at all times, as well as avoid any delay of the paving work. This bore took approximately 7 days of around-the-clock construction activities. The headwall and final finishing work lasted several weeks.

During the summer of 2017, final closeout of the project began with the submittal of Form 2059 to LADOTD for review and approval. The 5 volumes of 5" three ring binders were submitted to District 07 by Fenstermaker for review and approval along with completed punch list items. District 07 completed their review and issued the letter of final inspection for the completion of the project's construction portion. The road construction project is complete and in full use by the Department, Sasol and the surrounding community. The project is in the final stages to be turned over to LADOTD, and the transfer of all right of way has occurred.

The Heavy Haul Road Project serves as an excellent example of the progress that can be made when a cooperative public-private partnership exists. The magnitude of improvements implemented in a very compressed schedule is a testament to the entire team from the owners and LADOTD to the design team and contractors. This has been recognized by LADOTD and several engineering and construction associates, as the project has been the recipient of several awards for its complexity, innovation and use of new technologies, private-public partnership, and other special factors that were critical to the success of the project. As the surrounding area continues to experience a population growth associated with the expansion of the petrochemical industry in the region, this completed project has left a lasting impact. The construction of the Heavy Haul Route today serves not only Sasol, but also will continue to serve the City of Westlake and the Citizens of Louisiana long into the future.



Sasol wash tower (approximately 317' long) making a turn along the heavy haul route during transport.



Ethane Reactor – Preparing for Site Installation. This was one of the modules transported via Heavy Haul Route.



Organizational chart of key participants in the Heavy Haul Route planning, design, and construction.



Layout of Heavy Haul Route turn to be widened. In this particular area the roadway was widened to 60' of pavement. Additional pavement was utilized for a permanent dedicated right turn lane at the intersection.



Base course preparation for pavement widening along Sampson Street at one of the intersections along the Heavy Haul Route.



Contractors rotating the 55' first of its kind hinged rotating mast arms for the transport of heavy haul module.



The headwall construction finalization with the 96" and 97" steel pipe along with the 60" steel pipe.



This section of the roadway required innovative design utilizing a modified barrier curb. After construction was complete, the barrier curb had to be added due to Sasol being unable to purchase the necessary right of way to meet clear zone requirements. The curbing would've fallen on two utility manholes that still needed to be accessed, so a removable steel curb section was utilized over this area.

Jeanne Arceneaux Hornsby, MS, PE, CFM: Mrs. Hornsby is an Engineering Director at C. H. Fenstermaker & Associates, LLC. with fourteen years of engineering and project management experience. Her main responsibilities include managing the resources and operations of multimillion-dollar projects that range from roadway design and construction to coastal and stormwater management for both the public and private sector. Hornsby served as the Deputy Program Manager and a design engineer for the Sasol Chemicals (USA) LLC – Lake Charles Chemicals Project Heavy Haul Road.

Anna Wyble Doucet, PE: Doucet is a graduate of the University of Louisiana at Lafayette and a member of the C. H. Fenstermaker & Associates, LLC engineering team. She has experience designing large-scale roadway and drainage projects, as well as with construction and project management. Doucet served as the construction manager for the Sasol Chemicals (USA) LLC – Lake Charles Chemicals Project Heavy Haul Road and is currently managing all open Sasol project permits with LADOTD.

ASCE Region 5 Governor's Report

By Rudolph A. Simoneaux, III, PE, Region 5 Governor



Ali Mustpaha, PE, F. ASCE

As the newly elected Louisiana Governor for Region 5, it is my honor to dedicate this update to my predecessor, Ali Mustpaha, PE, F. ASCE. Ali has served in every capacity possible for the Shreveport Branch and Louisiana Section of ASCE, culminating in the 2008-2009 term as the Louisiana Section President. Additionally, he recently completed his second term as Louisiana's Governor for Region 5, having been first elected to that position in 2014. Ali was the

2003-2004 Louisiana Engineering Society President and served as a member of the LAPELS Board from 2006 to 2012. He also recently started a Louisiana Chapter for ASCE's Utility Engineering and Survey Institute. He's won multiple engineering awards including the 2000 ASCE Louisiana Section Outstanding Government Civil Engineer and the 2001 Outstanding Civil Engineer. He was also the recipient of the NSPE's PEGASUS Award (Professional Engineer in Government Award Service in the United States) in 2008. In addition to these positions and accomplishments, Ali has also been highly involved in Civil Engineering student engagement at Louisiana Tech University having served as Chairman of the Civil Engineering and Civil Engineering Technology Programs Advisory Board, a member of the Civil Engineering Technology Industrial Advisory Board and Vice Chairman of the Trenchless Technology Center Industrial Advisory Board.

I have provided a shortened version of Ali's bio for the sake of brevity, but there are certainly many more accomplishments and accolades that could be mentioned. But most important of all, Ali has served as a mentor to me and many other current and past ASCE Board members. I would not have been a successful Section President, or

The 2020 ASCE Virtual Convention was held on October 28-30, 2020. The Louisiana Section was represented by Section President Joe E. "Butch" Ford, Jr. The theme "The Convention is the Society's premiere membership event. It is the single annual opportunity where the entire society joins together reflecting the diversity that ASCE encompasses. The Convention Program is designed to have integrated, multi- disciplinary, technical, and educational components to the meet the needs of the profession."

Thursday October 29th new ASCE President Jean-Louis Briaud of Texas along with Dennis Traux (President Elect) and five new Board Directors were sworn in during the Virtual Annual Meeting. A new Code of Ethics, fully revised for the first time since 1974 was approve by the Board of Directors. even have been considered a candidate for Region 5 Governor if not for his guidance and advice. The knowledge he has shared on ASCE policy, protocols, and procedures has been invaluable to many of us that have served in Branch, Section, and Region leadership roles. On behalf of the entire



Rudolph A. Simoneaux, III, PE

Louisiana Section, I'd like to thank Ali for his career of service to ASCE and many other professional organizations, and for his dedication to improving the Civil Engineering profession! Note that this is a message of gratitude, but not a farewell. We all know that Ali will still be around to provide advice and input when needed.

In other Region 5 news, the 2020-2021 Board of Governors was installed on September 11th, 2020 at the Presidents and Governors Forum. This annual event was held in virtual format this year, with multiple sessions and breakouts. I'm looking forward to serving on behalf of Louisiana with our At-Large Governor, Mr. Ronnie Schumann, PE, M. ASCE. We held our first monthly meeting on October 21, 2020. The Board Officers (Chair, Vice Chair, Secretary, and Treasurer) were approved, and Committees Chairs for Awards, Grants, Newsletter, Nominations, and Website were selected. The Board also continued discussions on initiating a Former Governors Advisory Council as well as a Life Member Advisory Council. A new Louisiana representative for the Region 5 Younger Member Advisory Panel was also recently selected. Anna Paddock from the Acadiana Branch will begin serving on this committee with Jim Constigan from New Orleans.

Approved by the ASCE Board of Direction on October 26, 2020

CODE OF ETHICS THE AMERICAN SOCIETY OF CIVIL ENGINEERS

PREAMBLE

Members of The American Society of Civil Engineers conduct themselves with integrity and professionalism, and above all else protect and advance the health, safety, and welfare of the public through the practice of Civil Engineering.

Engineers govern their professional careers on the following fundamental principles:

- create safe, resilient, and sustainable infrastructure;

Continued on next page.

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- treat all persons with respect, dignity, and fairness in a manner that fosters equitable participation without regard to personal identity;
- consider the current and anticipated needs of society; and
- utilize their knowledge and skills to enhance the quality of life for humanity.

All members of The American Society of Civil Engineers, regardless of their membership grade or job description, commit to all of the following ethical responsibilities. In the case of a conflict between ethical responsibilities, the five stakeholders are listed in the order of priority. There is no priority of responsibilities within a given stakeholder group with the exception that I a. takes precedence over all other responsibilities. 1

CODE OF ETHICS

1. SOCIETY

Engineers:

- a. first and foremost, protect the health, safety, and welfare of the public;
- b. enhance the quality of life for humanity;
- c. express professional opinions truthfully and only when founded on adequate knowledge and honest conviction;
- d. have zero tolerance for bribery, fraud, and corruption in all forms, and report violations to the proper authorities;
- e. endeavor to be of service in civic affairs;
- f. treat all persons with respect, dignity, and fairness, and reject all forms of discrimination and harassment;
- g. acknowledge the diverse historical, social, and cultural needs of the community, and incorporate these considerations in their work;
- consider the capabilities, limitations, and implications of current and emerging technologies when part of their work; and
- i. report misconduct to the appropriate authorities where necessary to protect the health, safety, and welfare of the public.

2. NATURAL AND BUILT ENVIRONMENT

Engineers:

- a. adhere to the principles of sustainable development;
- consider and balance societal, environmental, and economic impacts, along with opportunities for improvement, in their work;
- c. mitigate adverse societal, environmental, and economic effects; and
- d. use resources wisely while minimizing resource depletion.

3. PROFESSION

Engineers:

- a. uphold the honor, integrity, and dignity of the profession;
- b. practice engineering in compliance with all legal requirements in the jurisdiction of practice;
- c. represent their professional qualifications and experience truthfully;
- d. reject practices of unfair competition;
- e. promote mentorship and knowledge-sharing equitably with current and future engineers;
- f. educate the public on the role of civil engineering in society; and
- g. continue professional development to enhance their technical and non-technical competencies.

4. CLIENTS AND EMPLOYERS

Engineers:

- a. act as faithful agents of their clients and employers with integrity and professionalism;
- b. make clear to clients and employers any real, potential, or perceived conflicts of interest;
- c. communicate in a timely manner to clients and employers any risks and limitations related to their work;
- d. present clearly and promptly the consequences to clients and employers if their engineering judgment is overruled where health, safety, and welfare of the public may be endangered;
- e. keep clients' and employers' identified proprietary information confidential;
- f. perform services only in areas of their competence; and
- g. approve, sign, or seal only work products that have been prepared or reviewed by them or under their responsible charge.

5. PEERS

Engineers:

- a. only take credit for professional work they have personally completed;
- b. provide attribution for the work of others;
- c. foster health and safety in the workplace;
- d. promote and exhibit inclusive, equitable, and ethical behavior in all engagements with colleagues;
- e. act with honesty and fairness on collaborative work efforts;
- f. encourage and enable the education and development of other engineers and prospective members of the profession;
- g. supervise equitably and respectfully;
- h. comment only in a professional manner on the work, professional reputation, and personal character of other engineers; and
- i. report violations of the Code of Ethics to the American Society of Civil Engineers.

1This Code does not establish a standard of care, nor should it be interpreted as such.

The 3 day virtual event included concurrent sessions of various topics including "Inclusion: Become a Change Agent to Rise Together", Hurricane Lessons Learned: Response, Recovery, and Policy, Public or Private; Small or Large, and CE Ethics in Professional Practice and Conduct.

The 2021 Convention will be held October 6, 2021 in Chicago, Illinois.

2020 ASCE Louisiana Section Awards and Officers Installation Meeting

The 2020 Louisiana Section Awards and Officers Installation Meeting was held on September 18, 2020 on Zoom conferencing video as a result of the COVID-19 social distancing. President Beau Tate was unable to attend the installation. Section President Elect, Joe E. "Butch" Ford, Jr., PE, called the meeting to order, gave the invocation, and welcomed everyone to the meeting. Section President Elect, Ford made the opening remarks and introduced Brant Richard, Section Awards Committee Chair.



The world is used to Zoom meetings now. First row: Nedra Hains, Jared Veazey, Butch Ford; second row: Jacob Neu, Ronnie Schumann, Dennis Lambert; third row: Brant Richard, Alicia Sellers, Erin Rooney; fourth row: Ali Mustapha, Gavin Gautreau, Algy Semien; fifth row: Rudy Simoneaux, Andrew Woodroof, Norma Jean Mattai, and many more without cameras on.



Brant Richard, PE

Continuing the presentations, Louisiana Section Awards Committee Chair Brant Richard, PE opened the awards ceremony.

The ASCE Louisiana Section Awards were instituted to recognize the outstanding contributions of Louisiana civil

engineers for service to their profession and ASCE. He thanked the branches for nominating an outstanding slate of candidates for consideration for each award. The quality of the nominees for the various awards made the awards committee's task to determine this year's award recipients very difficult. Brant also thanked the awards committee for their efforts in reviewing the numerous nominations and assisting in selecting this year's recipients.

This year's Section Award recipients were: Alicia Sellers, PE – Outstanding Young Civil Engineer Rudolph A. Simoneaux III, PE – Outstanding Civil Engineer Anna Doucet, PE – Outreach Award Norma Jean Mattei, PhD, PE– Educator Award Charles W. Nelson, PE – Lifetime Achievement Award James C. Webb, PE – Wall of Fame Oliver Delery, PE (d) – Wall of Fame Thomas R. Carroll III, PE – Wall of Fame

After Brant presented the Section Awards, President Elect, Ford announced the final award of the ceremony on behalf of President Beau Tate, the President's Medal, to Jacob Neu, PE. This award was given to Jacob because of his hard work on the conference in Lafayette.



Jacob Neu, PE – President's Medal

Ali Mustapha, PE, Region 5 Governor installed the officers for the Louisiana Section of the American Society of Civil Engineers.

The outgoing Governor Ali Mustapha, PE introduced Rudy Simoneaux III, PE as the new Region 5 Governor.

Joe E. "Butch" Ford, Jr., PE the new Section President then congratulated the new board. Ford closed the meeting by presenting his goals for his upcoming presidency and thanked everyone for attending.



Jacob Neu, Tom Carroll, and Todd Vincent zoom into awards meeting, for Tom to accept his Wall of Fame award



Butch Ford zooms in for meeting

2020 Louisiana Section Awards



Alicia Sellers, PE Outstanding Young Civil Engineer



Charles W. Nelson, PE Lifetime Achievement Award



Rudolph A. Simoneaux III, PE Outstanding Civil Engineer



James C. Webb, PE Wall of Fame



Anna Doucet, PE Outreach Award



Oliver Delery, PE (d) Wall of Fame



Norma Jean Mattei, PhD, PE Educator of the Year Award



Thomas R. Carroll III, PE Wall of Fame

ASCE LA Section 2020-2021 Officers:

Joe E. "Butch" Ford, Jr., PE, President Tonja Koob Marking, PhD, PE, President Elect Kirk Lowery, PE, Vice President Will Cenac, PE, Secretary-Treasurer Beau Tate, PE, Past President

The Board of Directors are:

Branch Directors

Algy Semien, PE, Acadiana President Mary "Molly" Bourgoyne, MS, PE, Baton Rouge President Andrew Woodroof, PE, New Orleans President Ranadeep Ravula, EI, Shreveport President

Assigned Branch Directors

Jared Veazey, PE, Acadiana Director Danielle Welborn, PE, Baton Rouge Director Erin Rooney, PE, New Orleans Director Linsey Brooke Olivier, EI, Shreveport Director

Directors-at-Large

Brant Richard, PE, *Baton Rouge Director* Karishma Desai, PE, *New Orleans Director*

> **Regional Governor** Rudolph Simoneaux III, PE

Regional Governor At Large Ronald Schumann, Jr., PE

2020-2021 ASCE Louisiana Section Officers



Joe E. "Butch" Ford, Jr., PE President



Tonja Koob Marking, PhD, PE President-Elect



Kirk Lowery, PE Vice-President



Will Cenac, PE Secretary-Treasurer



Beau Tate, PE Past President

2020-2021 ASCE Louisiana Section Board of Directors



Algy Semien Acadiana Branch Director



Brant Richard, PE Director-at-Large Baton Rouge Director



Erin Rooney, PE Assigned Branch Director New Orleans Director



Molly Bourgoyne, PE Baton Rouge Branch Director



Karishma Desai, PE Director-at-Large New Orleans Director



Linsey Brooke Olivier, El Assigned Branch Director Shreveport Director



Andrew Woodroof, PE New Orleans Branch Director



Jared Veazey, PE Assigned Branch Director Acadiana Director



Rudolph Simoneaux III, PE Regional Governor



Ranadeep Ravula, El Shreveport Branch Director



Danielle Welborn, PE Assigned Branch Director Baton Rouge Director



Ronald Schumann, Jr., PE Regional Governor At Large

ASCE

ASCE-COPRI Louisiana Chapter News

OPRI

ASCE

By Victoria Curto, PE, Director - Communications



ASCE-COPRI Louisiana Chapter News

Gerald Songy, PE, Communications Director

The Louisiana Chapter of the American Society of Civil Engineers (ASCE) Coasts, Oceans, Ports, and Rivers Institute (L.COPRI) is continuing to promote membership and visibility throughout the State of Louisiana during the COVID-19 pandemic by conducting virtual webinars free of charge. The chapter is committed to continuing to provide professional development hours by hosting technical webinars throughout the pandemic and will consider hosting an in-person seminar once conditions improve.

L.COPRI Spring Webinars (since June 2020)

The COPRI-Louisiana Chapter has remained active throughout the COVID-19 pandemic and has hosted three technical webinars since June 2020. The following webinars were hosted with attendee numbers ranging from 60 to 130:

Port of New Orleans Master Plan Update by Amelia Pellegrin (Port of New Orleans)

A Review of the 2018-2019 Mississippi River Flood by Suzanne van Cooten (National Weather Service)

Open Ocean Aquaculture: Big Water, Big Challenges, and Big Opportunities by Matthew Campbell (NOAA)

New and Upcoming events

The chapter is currently planning another webinar for early December by Patrick Banks (LA Dept. of Wildlife and Fisheries) on the Louisiana Oyster Management and Rehabilitation Plan update. Please stay-tuned for a meeting invite if you are a member of our COPRI email list.

Officer Update

The COPRI-Louisiana Chapter has updated officer and director roles for 2020-2021 which are provided below.

<u>Officers:</u> Chairman – Tyler Ortego, PE

Vice Chairman – Erin Rooney, PE

Secretary - Andrew Woodroof, PE

Treasurer - Myriam Bou-Mekhayel, PE

Communications Director – Gerald Songy, PE

Other Information

The activities of L.COPRI will include seminars, workshops and other activities to benefit all ASCE and COPRI members. One does not have to be an Engineer to join COPRI. These Institutes 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. If you have any questions or to add your name to our mailing list, please contact Gerald Songy, at LCOPRI@yahoo.com.



When you join ASCE, you become part of the largest professional civil engineering network in the world. As a part of our community, you have access to our industry's most comprehensive communication, networking, and learning resources.

Not an ASCE member yet?

Already a member?

Graduating Student member?

Join/Renew/Update Your Membership Today: https://www.asce.org/member-benefits/

ASCE Government Relations



2022 Louisiana Report Card Planning

In 2012, Louisiana Section of American Society of Civil Engineers' (ASCE) very first *Report Card for Louisiana's Infrastructure* started with the following statement:

LOUISIANA'S INFRASTRUCTURE NEEDS IMMEDIATE ATTENTION.

In 2017, the Louisiana Section said it again in the report card update, Louisiana's infrastructure needs immediate attention: GPA: D+. Today, almost 4 years later, this overarching conclusion remains more valid than ever. An expert team of more than 50 civil engineers were assembled to evaluate and study 11 major components of Louisiana's infrastructure for more than 18 months. Their results have been reviewed not only by independent experts locally, but they also have been scrutinized by ASCE's team of national experts.

Infrastructure Wins on the Ballot

Election Day made it clear infrastructure investment remains a priority for voters.

After some uncertainty over whether the COVID-19 pandemic would affect plans for infrastructure investment ballot measures, many states and localities did stick with their plans to bring many of these initiatives before voters on Election Day. As has historically been the case, a majority of state and local infrastructure measures did pass this week, once again demonstrating that voter's support making investments that will improve our infrastructure, grow the economy, and improve quality of life. In fact, in the transportation sector 94 percent of the 322 ballot measures voted on this week passed, which will generate \$14 billion for projects in the upcoming years.

Notable measures that passed by Louisiana's neighbors this year include:

- In Arkansas voters approved a constitutional amendment that will permanently extend the state's 0.5% sales tax for roads and highways. The measure is expected to raise nearly \$300 million annually, of which 70 percent would be directed to state highways, and 15 percent each for county and city transportation.
- Austin, Texas and 8.75 cent property tax measure to help fund a major expansion of Austin's public transportation system, officially referred to as <u>Project Connect</u>. The revenue from Proposition A will be used as the local match for the initial \$7.1 billion investment in Project Connect, of which 45 percent is expected to be covered through Federal funding.

Additional measures passed include

- **Georgia** approved a constitutional amendment to dedicate any tax or fee revenue to the public purpose for which the taxes or fees were imposed.
- Georgia's Gwinnett County approved a penny-sales and use tax to raise revenue for school infrastructure and modernizing school technology. This measure is expected to raise \$985 million over five years.

To view the 2017 report card: https://www.infrastructurereportcard. org/state-item/louisiana/.

The conclusion is not a surprise but more an alarm that over the course of the last eight plus years, the system has detreated further. Our infrastructure is poorly maintained, inadequately funded, and not designed to meet tomorrow's demands. Consequently, the state is at a disadvantage and will continue to lose its economic competitiveness.

It is once again time to update the Louisiana Report Card. In order to release a 2022 report card, we must start the process now. VOLUNTEER TODAY!

To volunteer your expertise and services toward this important endeavor, please contact the Government Relations Committee Chair, Jan Evans at jan.evans@volkert.com.

- **Denver, Colorado** voters approved a 0.25% sales tax on goods in order to fund infrastructure investments and incentives that will make buildings and streets more energy-efficient. The tax is being labeled a climate change sales tax and is expected to bring in \$36 million annually.
- Michigan approved an amendment to the state constitution that changes how revenue in the state's park related funds can be spent and would require at least 20 percent of annual interest and earning from the State Parks Endowment Fund to be spent on state park improvements.
- Of course, not all measures passed with notable exceptions including:
- **Georgia's Gwinnett County** failing to pass a 30-year, one percent local option sales tax. This measure was expected to raise nearly \$13 billion in new investment for 82 major public transit projects.
- **Portland, Oregon** voters also rejected a payroll tax of up to 0.75 percent on employers with more than 25 employees to fund 150 transportation projects along 17 primary travel corridors.

ASCE is additionally starting to look at committee leadership for the 117th Congress. While Democrats are likely to maintain control of the House, control of the Senate remains less certain with two Georgia Senate races going to a run-off in January. In the House, both the Chair and Ranking Member of the House Transportation and Infrastructure Committee, Peter DeFazio (D-OR) and Sam Graves (R-MO) won their races and are expected to continue in their positions. However, the Senate Environment and Public Works Committee could see some changes. Senator Barrasso (R-WY) may seek the Chairmanship of the Energy Committee, leaving Sen. Shelley Moore Capito (R-WV) the likely successor.

For a full discussion about how the 2020 elections impact infrastructure, join ASCE Government Relations on <u>Tuesday, November 17th at 2:00</u> pm ET / 1:00 pm CT. To keep up with the latest on ASCE's public policy efforts consider becoming an <u>ASCE Key Contact</u> and be sure to visit our <u>Letters, Comments & Statements</u> page.

ASCE-T&DI Louisiana Chapter News

By Michael Paul, PE - Newsletter Editor



LOUISIANA CHAPTER

UTILITY ENGINEERING

LOUISIANA CHAPTER

& SURVEYING INSTITUTE

Election of New Officers

The Chapter would like to acknowledge the contributions of our 2019-2020 officers. For the 2020-2021 fiscal year, Joffrey Easley has assumed the Chair position; Roy Payne will serve as Vice Chair; Jim Simmons will continue to serve as Treasurer: and Michael Paul will continue to serve as Newsletter Editor.

Louisiana T&DI Scholarship Program

One of the long-term goals of the T&DI Louisiana chapter was to start and sustain a scholarship program. That goal was achieved during 2012 fiscal year with the formation of a scholarship subcommittee. For the ninth year in a row T&DI plans to award two \$500 scholarships; the funding is provided by using a portion of our seminar proceeds. The first announcement has been issued to various university civil engineering department heads across the state and the application due date is November 20, 2020. Applications will be reviewed by the Executive Committee and awardees will be announced in the next Newsletter issue.

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 Joffrey Easley jeasley@forteandtablada.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 area but have recently gone virtual. 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:

- Element of Bus Rapid Transit
- New Mississippi River Bridge P3 Financing and Tolling
- Asset Management for Agencies
- **Mitigation Banking**

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- Green Infrastructure: Integrating Infrastructure Needs
- Bicycle Lanes / Complete Streets
- New Orleans Armstrong Airport
- **Pervious Concrete**

ASCE-UE&S Louisiana Chapter News By Ali Mustapha, PE, F. ASCE - Newsletter Editor

The Louisiana Section of ASCE approved the establishment of the Utility Engineering and Surveying Institute - Louisiana Chapter ("UESI-LA") by approving the Chapter's Bylaws at January 24, 2020 Section's Board meeting in Lafayette. With the establishment of this ASCE Institute, Louisiana Section will have four (4) active ASCE Institute Chapters in the State, T&DI, COPRI, UESI, and SEI-New Orleans Chapter.

Due to the ongoing COVID-19 Pandemic, the Chapter has ASC not been able to hold any in-person meetings and conduct official election of officers. The Advisory Committee has appointed Dr. John Matthews, PhD, Director of the Trenchless Technology Center at Louisiana Tech University as Chair, Suzanne McCain, PE, Branch Manager - T2 Utility Engineers as Vice Chair and Ali Mustapha, PE, F.ASCE, Executive Director – Caddo Levee District as Secretary/Treasurer.

The Chapter is developing a plan to conduct Quarterly virtual meetings (seminars) and is asking interested ASCE and UESI members



Respectfully Submitted, Ali Mustapha, PE, F. ASCE, UESI-LA Chapter

Chapter Officers as of November 2020

Dr. John Matthews, PhD, M. ASCE, Matthews@latech.edu Chair

Suzanne McCain, PE, LSI, M. ASCE, Suzanne.mccain@T2ue.com Vice Chair

> Ali Mustapha, PE, F. ASCE, alimm@bellsouth.net Secretary/Treasurer

Branch News



ACADIANA BRANCH By Algy Semien, PE, Branch President

I would like to take a moment to thank and recognize last year's Acadiana Branch Board for their tireless dedication to branch duties through the Covid-19 pandemic, which fundamentally changed the way our organization engages with

its membership. Special thanks to Past President Jacob Neu for his leadership. I look forward to his counsel in the upcoming year.

As many of you know, our Branch was scheduled to host the Louisiana Section Spring Conference in 2020; due to in person meeting restrictions related to Covid-19, we were unable to hold this conference. However to provide our membership with PDH credits, we hosted a Webinar Series that provided the opportunity to obtain up to 12 PDH credits. I want to thank all of the speakers that presented their research and shared their expert experience. Without them, we could not have provided this webinar series. Additionally, I would like to thank all of our attendees and express gratitude for being patient through the rescheduling of events and technical difficulties that are inherent with virtual meetings. The Acadiana Branch Board plans to continue offering virtual webinars

monthly to provide an opportunity to earn PDH credits with reduced physical contact.

The ASCE Acadiana Branch Board as previously elected is: President – Algy Semien, PE President Elect – Grant Besse, PE Secretary – Carolyn Chapman, El Treasurer – Katherine Werther, El Webmaster – Jared Veazey, PE (not pictured below) Newsletter Editor – Rhett Hebert, El Public Relations/Outreach Coordinator – Jerry Outlaw Calcasieu Parish Representative – Jacob Blackmer, El Past President – Jacob Neu, El

Congratulations to the Acadiana Branch Members who the Louisiana Section awarded as follows: Thomas R. Carroll, PE (Wall of Fame), Anna Doucet, PE (Community Outreach), Jacob Neu, EI (President's Medal)

Finally, I would ask that we all keep our fellow Louisiana citizens in our thoughts and prayers as they continue recovery efforts in the aftermath of this hurricane season.



Algy Semien, PE President



Grant Besse, PE President Elect



Rhett Hebert, El Newsletter Editor

Jerry Outlaw Public Relations/ Outreach Coordinator



Carolyn Chapman, El Secretary



Jacob Blackmer, El Calcasieu Parish Representative



Katherine Werther, El Treasurer



Jacob Neu, El Past President



BATON ROUGE BRANCH

By Mary "Molly" Bourgoyne, PE, Branch President

As incoming President, I would like to commend our new Past-President, Jarret Bauer, on his excellent leadership in continuing providing benefits to our membership during the extraordinary circumstances we all find ourselves

in this year. Under his leadership and the exceptional efforts of the Director of Programs, Robb Jewel, ASCE Baton Rouge Branch held five regular luncheon-style events as Facebook Live events, three of which were both luncheons and Facebook Live events. Our September Luncheon was hosted at Drusilla Restaurant in conjunction with LES. We enjoyed a wonderful presentation from DOTD Secretary Wilson, and the meeting included the installation of the Baton Rouge Branch 2020-2021 Officers by newly appointed Region 5 Governor, Rudy Simoneaux.

The new 2020-2021 Board for the Baton Rouge Branch of ASCE is:

President – Mary "Molly" Bourgoyne, PE President-Elect – Tyler Branch, PE Vice President – Venu Tammineni, PE Secretary – Alicia Sellers, PE Treasurer – Robb Jewell, PE Past President – Jarret Bauer, PE Programs Director – Jack Koban, PE, PG Education Director & Younger Member Chair – Josh Olivier, EI Membership Director – Matt Salmon, PE LSU Practitioner Advisor – Denzel Flores, EI SU Practitioner Advisor – Taylor Brignac, EI

September 24 the LSU Chapter hosted the Bayou Regional Career Fair here locally, and many of our local companies supported this

fantastic event! The Baton Rouge Branch wants to commend the LSU students for all of their hard work in this effort, it was truly a great success!

Our upcoming events include a Luncheon on October 15th, with a corresponding virtual option. We will be switching platforms, so please look for the updated instructions! For the November Luncheon we are planning a site visit/field trip with box lunches, probably to go.

Our Annual Christmas Party is typically at Bocage on the first Friday in December with a Younger Member Social after the Christmas

Party. Due to concerns with COVID-19, we are assessing how to provide this wonderful event to our membership. Modifications are being evaluated, and a survey will be released as soon as possible. Please watch out for the survey and help us accommodate your needs!

I am honored to be serving as President for the coming year, and look forward to interacting with you in that capacity as we hopefully conquer COVID-19 and find a new normal in our ever-changing world!



DOTD Secretary Dr. Shawn Wilson speaks at the September Luncheon



Rudy Simoneaux III Regional Governor swears in new 2020-21 Baton Rouge Branch Board: Molly Bourgoyne, Alicia Sellers, Jack Koban, Robb Jewell, Josh Olivier, Venu Tammineni, Taylor Bignac, Jarret Bauer & Matt Salmon (Tyler Branch not pictured)

Baton Rouge Branch, continued on next page

ASCE



2020-21 New Baton Rouge Branch Board, (left to right): Molly Bourgoyne, Alicia Sellers, Jack Koban, Robb Jewell, Josh Olivier, Venu Tammineni, Taylor Bignac, & Jarret Bauer (Matt Salmon and Tyler Branch not pictured)



Rudy Simoneaux III facilitates the exchanging of gavel and past president's pin - Molly Bourgoyne receives the gavel and Jared Bauer the past president's pin

Outgoing President Jarret Bauer congratulates James C. Webb, PE on his Wall of Fame Award

ASCE



NEW ORLEANS BRANCH By Andrew Woodroof, PE, Branch President

The ASCE New Orleans Branch has been hard at work to continue to engage our membership and deliver value to our members despite COVID-19 challenges. As the new board begins their term, we are especially focused on fulfilling

ASCE's mission of delivering value to our members, advancing civil engineering, and protecting the public health, safety, and welfare.

Our board election was held online in July, and we introduced the following leadership to our members: President – Andrew Woodroof, PE President Elect – Stephanie C. Bayne, PE Vice-President – Kyle Galloway, PE Treasurer – Erin Rooney, PE, CFM Secretary – Clay Worley, PE Director At-Large – Robert Rousset, PE Director At-Large – Ayan Mehrotra, PE Director, Past President – Dean Nicoladis, PE

We have resumed our monthly luncheons in webinar format. On September 22nd we welcomed Ehab Meselhe, PhD, PE, Professor in the Department of River-Coastal Science and Engineering at Tulane University to present on Data and Modeling for the Louisiana Watershed Initiative. On October 27th we welcomed Kristi Trail, PE of the Pontchartrain Conservancy, formerly the Lake Pontchartrain Basin Foundation. In November we will have a presentation by Tonja Koob, PhD, PE and Miles Bingham, PE to discuss ASCE's History and Heritage program and provide an overview of Civil Engineering Landmarks throughout Louisiana.

The Louisiana Civil Engineering Conference and Show (LCECS), a joint conference produced by ASCE New Orleans and ACI Louisiana, was held virtually on October 7th and 8th. With the use of an online conference platform, we were able to host over 500 attendees at the virtual conference which included an online exhibit hall and networking rooms. The Branch greatly appreciates our members' support of this event, as revenue from the conference allows our Branch to support the Civil Engineering community in numerous ways including events for our members, sponsoring STEM events for students, and scholarships for students in the UNO Civil Engineering program.

We are in the planning stages of future events including monthly webinars, young member and leadership events, and in-person events when we are able to do so. We greatly appreciate the support of our members, and I encourage all of you to keep up with the New Orleans Branch through our website, Facebook or by contacting our board directly.



SHREVEPORT BRANCH By Ranadeep Ravula, El, Branch President

As the newly installed Shreveport Branch President, I am excited to begin a new fiscal year. I would like to thank our past president, Linsey Olivier, for her dedication to our Shreveport Branch.

The newly installed officers for the 2020-2021 year are as follows: President – Ranadeep Ravula, El President Elect/Vice President – Omar Dawud Treasurer – Luke Haney, El Secretary – Josh Walker, PE Past President – Linsey Brooke Olivier, El

We did not host the meetings in August and September, due to the spring conference hosted by Acadiana Branch. We also thank the Acadiana Branch for hosting the conference virtually and doing such

great job. We are currently contacting local businesses to support our branch by offering business card advertisements in the monthly newsletter. This will help us generate revenue since we were unable to host the annual golf tournament and have been hosting luncheons virtually. We are planning to have our October Luncheon virtually as well. Hopefully, in December we are planning to return to the Petroleum Club to have our luncheons in person.



Josh Walker, PE



From left to right: Omar Dawud, EI; Ranadeep Ravula, EI; Linsey Olivier, EI; and Luke Haney, EI

ASCE-SEI New Orleans Chapter News By Mark Castay, PE



Another great quarter has ended for the New Orleans Chapter of ASCE-SEI. The Chapter presented the 2020 David Hunter Lecture on September 15,2020. The session is to honor the late David Hunter who was one of the founding members of the ASCE Structural Committee of the New Orleans Branch and served on its Executive Committee 1991-1999. Since 2000 each year a distinguished presenter is selected by the Structural Engineering Institute Chapter of New Orleans to deliver this lecture. The **ASCE** lecture was presented by John Tawresey S, F.SEI, F.TMS, Hon. M.TMS, Dist. M. ASCE. titled "Lessons Learned-Sharing Claims Experiences to Become Better Engineers". John Tawresey is an adjunct professor at the University of Washington with 40 years of experience as a structural engineer. He was the Chief Financial Officer at KPFF Consulting Engineers for 35 years and has extensive experience defending claims. He presented several case studies that he encountered that resulted in litigation and he explored lessons learned from the actual occurrences. The presentation discussed risk management, the limits of responsibility for the structural engineer, and important differences between business practice and professional practice. The session also highlighted accomplishments of the Committee on Claims Reduction and Management (CCRM) and introduced the audience to the Confidential Reporting of Structural Safety (CROSS-US) system.

The next seminar for this quarter will be titled "Performance-Based Design is the Future" presented by Donald Dusenberry, PE, SECB, F.SEI, F.ASCE on November 11,2020 (12pm-1pm). Don Dusenberry serves as a Consulting Principal at Simpson,Gumpertz & Heger where he joined the Engineering Mechanics Division in 1975. Presently he chairs a committee that it charged to develop a course to advance the profession from prescriptive to performance-based design practice. Don has written extensively on failure investigations and topics such as structural performance under extreme events including blast, fire, and disproportionate collapse.

This seminar is co-sponsored with the SEI FUTURES FUND/ASCE FOUNDATION to increase SEI membership and participation at the local level, promote opportunities to get involved in the SEI standards development and inform local members about the standard development process and future of performance-based codes. SEI New Orleans is proud to have been selected by SEI National to host this seminar and be selected amongst other local and regional branches throughout the nation.

In this presentation, Don will discuss how performance-based design will impact the design profession and initiatives underway to encourage a transformation from prescriptive to performancebased approaches. Performance-based design is founded on the premise that structural systems must meet specific performance objectives. Performance expectations are set for the completed design, and processes are prescribed in minimal terms. Performance-based design therefore reverses the design process by defining the end goal as the starting point. The engineer then engages creativity and innovation employing science and principles of structural and material mechanics, unencumbered by unnecessary and in many cases counterproductive prescriptive requirements, to identify optimal solutions to multiple, and sometimes competing objectives. The design is completed by demonstrating complying performance through analysis, simulation, testing, or a combination thereof.

The Structural Engineering Institute Chapter of New Orleans (SEI NO) also participated in recruiting speakers for this years Louisiana Civil Engineering Show & Conference. Every year the committee selects a distinguished speaker for the Herbert J. Roussel, Jr. Lecture. This lecture is to honor the late Herbert J. Roussel, Jr. who was one of the founding members of ASCE Structural Committee of New Orleans Branch and served on its Executive Committee 1991-2005. Since 2006 each year a distinguished presenter is selected by SEI NO to deliver this Lecture. The 2020 HERBERT J. ROUSSEL, JR. LECTURE was delivered by Robert J. Frosch, PhD, PE, FACI, FASCE Professor of Civil Engineering and Senior Associate Dean of Facilities & Operations in the College of Engineering Purdue University, Lafayette, IN. The lecture titled "Evolution of the Structural Concrete Building Code: Reinforcing Bar Development" was delivered by Dr. Frosch on October 7,2020 at the conference. For more information please visit the Louisiana Civil Engineering Conference and Show link at https:// www.louisianacivilengineeringconference.org/



John G. Tawresey, SE, F.TMS, F.SEI, Dist. M.ASCE presented "Lessons Learned – Sharing Claims Experiences to Become Better Engineers" at the online seminar for ASCE-SEI New Orleans Chapter held on September 15,2020. For more details visit SEI NO Chapter on www.asceneworleans. org/events/.

John G. Tawresey, SE, F.TMS, F.SEI, Dist. M.ASCE

ASCE

Student Chapter News

LOUISIANA TECH UNIVERSITY By Sydney Bratton, ASCE Student Chapter President

The Louisiana Tech ASCE chapter has had a great start to the year! Although we have been unable to hold meetings and events in person, we have had several virtual events. We held our first virtual general body and concrete canoe meetings and attended virtual organization browses as well. We have had several new members join our student chapter that are looking forward to getting involved with ASCE. Last year, we held our first ever Civil Engineering Week on Louisiana Tech's campus. During Civil Engineering Week, we hosted several industry meetings to give students a chance to see what some of the possibilities and career options that are available with a Civil Engineering degree. This year we are holding Civil Engineering week virtually, and we are excited to have this event again!

We are also excited to see the progress we have made so far with our concrete canoe team. We have had canoe meetings to discuss this year's canoe and set a plan in place for this year's competition.

MCNEESE STATE UNIVERSITY By Breanna Cross, McNeese Student Chapter President

Our plans were to begin designing and testing a new mix for our concrete canoe using charcoal. Unfortunately, due to hurricane Laura our construction lab was completely destroyed along with restrictions of on campus activities; therefore, we have been unable to do much of anything. As recovery from both storms is still underway, we most likely will not be participating in any ASCE conferences. But on a positive note, our ASCE leaders are currently

UNIVERSITY OF NEW ORLEANS By Andrey Romanov, Student Chapter Secretary

In the first half of this semester, ASCE UNO has witnessed a slow start. On-campus restrictions have made it hard to move the club's activities forward. Without in-person classes and less on-campus activity, it is difficult to get the word across about ASCE's activities.

Despite all difficulty, we successfully hosted our first General Meeting on Friday, September 18th. The Board met on-campus, with rules about social distancing and masks in place. A usual meeting was held, except the other ASCE members were on Zoom. After the new Board members were introduced, our president, Weston Mitchell, went over the activities and competitions that ASCE UNO usually participates in. The meeting was concluded by our guest speaker Sam Z. Scandaliato. Throughout his informative and elaborate discussion Scandaliato touched on the subjects of building a career as a Civil Engineer, what brought him to starting his successful company SZS Consultants, and general tips on being a good Civil Engineer. We greatly appreciate Scandaliato for giving

Later this fall, members of ASCE are attending the virtual Asphalt Road-eo. The team members will review and analyze a case of pavement failure and prepare a presentation on their analysis findings. Although the beginning of this school year has looked a lot different than others, we have had such a great start and are looking forward to the rest of this year!

2020-2021 Louisiana Tech ASCE Chapter Officers President – Sydney Bratton Vice President – Mallory Mankins Secretary – Charity Durr Treasurer – Rose Emery Marshal – Jacob Hampton Social Chair – Noah Savoie Conference Chair – Katya Opel Concrete Canoe Captains – Eddie Landry and Joseph Brown

working on a small event to bring our members together for a day of fellowship and fun.

McNeese's 2020-2021 ASCE Officers are as follows: President – Breanna Cross Vice President – Savon Price Secretary – Andre Ange

us this opportunity and are looking forward to hearing from other speakers in our forthcoming meetings.

Next, we are planning to host an Outdoor Social for members and prospective members. Students will have the opportunity to meet the ASCE Board and some faculty members, enjoy some food and games, all at a socially distanced event. The event will be hosted over a couple of hours to limit the amount of people present at a given moment. During the event we also hope to boost recruitment for the Concrete Canoe, Steel Bridge, and Surveying competitions.

UNO 2020-2021 ASCE Student Chapter Officers are as follows: President – Weston Mitchell Vice President – Austen Dooley Secretary – Andrey Romanov Treasurer – Kyle Knighten Conference Chair – Karena Grigenas Social Chair – Alexis Hornsby

UNIVERSITY OF LOUISIANA LAFAYETTE

By Peyton Bailey, UL Student Chapter President

On October 14, our chapter held our first general meeting of the fall semester. The meeting was held in-person in Stokes Hall, a civil engineering lab where we prepare for the Deep South competitions. It was challenging to meet all of the university's guidelines and policies in place because of the ongoing pandemic, but we successfully held the meeting in a manner that was safe for all participants. At the meeting we discussed the upcoming events and recruited new members for our various teams. We are excited to get started on the projects! Last Spring, UL's ASCE Student Chapter held officer elections via Zoom.

Unfortunately, since last semester's Deep South Conference was canceled, our team captains were unable to complete their projects, so many of the team captains have continued leading this year. We are excited that the upcoming conference is continuing as planned, and we are already preparing for the upcoming competitions.

Despite the challenges that COVID-19 creates, our chapter is planning to hold several chapter meetings and complete various fundraising and volunteering events this schoolyear.

We are excited to see where the semester takes us!

UL's 2020-2021 ASCE Student Chapter Officers are as follows:

President – Peyton Bailey Vice President – Madison Terro Secretary - Jasmin Remedio Treasurer – Fahad Bux LES Coordinator – Jeanne Vidrine Public Relations Chair – Micaela Johnson Deep South Coordinator - Aaron Enlund Fundraising Chair – Bailey Bergeron Sports Coordinator – Josh Fontenot Concrete Canoe Co-Captains – Joshua Hoffpauir and Jasmin Remedio Sustainable Solutions Captain – Jeanne Vidrine Steel Bridge Captain - Josh Fontenot



Photo of new officers from 2020-2021 Officer Elections

- CALENDAR OF EVENTS -

2020

ENGINEERS WEEK ENGINEERS: INSPIRING WONDER - FEBRUARY 21-27, 2021

asce.org/event/2021/engineers-week/

ASCE partners with DiscoverE (formerly the National Engineers Week Foundation) to shine a spotlight on engineering. Engineers Week is a time to: Celebrate how engineers make a difference in our world Increase public dialogue about the need for engineers Bring engineering to life for kids, educators, and parents.

Visit the ASCE Outreach Catalog to order grade appropriate materials https://www.asce.org/pre-college-resources/

Visit DiscoverE's online shop http://shop.eweek.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 Acadian events please see online: http://branches.asce.org/acadiana/events

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 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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