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NEWS:

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Louisiana Section Officer Installation, September 21, 2018



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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, and Florida Sections.



President's Message

By Malay Ghose Hajra, PhD, PE

Hello everybody,

Hope you are doing well. I am happy to report that all four Louisiana branches of ASCE are busy with their year-round activities (professional lunch meetings, outreach activities with university student chapters, outreach at local schools etc.).

The individual branches will soon announce and present accolades to the winners of the yearly Civil Engineering awards. It is a great opportunity to honor and celebrate the exceptional accomplishments of some of our outstanding members throughout the state. It is a great feat when your friends and colleagues recognize you for your service to the civil engineering profession and success in your professional and personal undertakings. My heartiest congratulations to all the branch award recipients (in advance). Learning about the amazing undertakings of our outstanding members truly instigates and inspires us to work harder and reach for new professional and personal goals, while giving back to our profession.

ASCE Louisiana section's History and Heritage (H&H) Committee continues to research and prepare applications for ASCE Historical Civil Engineering Landmarks. The History and Heritage committee is currently working on gathering information of multiple Louisiana civil engineering projects (New Orleans street car, New Orleans Pumping System etc.) to submit necessary paperwork to the national H&H committee. If you have suggestions regarding any civil engineering structures (in your area) for consideration of this prestigious award, please contact me.

Jointly hosted by New Orleans branch of ASCE and the Louisiana chapter of ACI, the Louisiana Civil Engineering Conference and Show will be held on September 26-27, 2018 at the Pontchartrain center in Kenner, Louisiana. The host committee is currently finalizing the different aspects of this event. The schedule of presentations will be announced and posted on the conference website. Presentation topics will include general civil, structural, construction, hydraulics, water resources, geotechnical, environmental, coastal, transportation, materials, surveying, building codes, project management, liability, specifications, contracts, and student activity related themes. I encourage all of you to attend this conference and make it a successful ASCE event. For information related to this conference, please visit <https://www.louisianacivilengineeringconference.org/>

You may be aware that in partnership with MacGillivray Freeman Films, and presented by the Bechtel Corporation, ASCE has created a giant-screen film about engineering named **"Dream Big: Engineering Our World."** This film is intended to take viewers on a journey of discovery from the world's tallest building to a bridge higher than the clouds. Along the way, the audience will witness how today's engineers are shaping the world of tomorrow. The Louisiana section of ASCE recently ordered more than 180 DVDs of the Dream Big movie for distribution to middle schools throughout the state for screening at the institutions. Hopefully this will capture the imagination of the young minds and encourage them to consider engineering as a profession. I will work with the branch leadership in

distributing the DVDs to different schools. I also encourage ASCE members to participate during the screening and talk to the school students about (civil) engineering.

On September 30, 2018, my term as President of ASCE Louisiana Section will come to an end. I am confident that Mr. Rudolph Simoneaux, III will be a very effective leader and bring the section to greater heights in 2018-2019. I want to thank you for allowing me to serve our membership as the President for the 2017-18 term. It has been my pleasure as I thank the officers and members who served alongside me.

As you continue your professional and personal progression beyond 2018, I encourage all of you to find a way to become an active participant with your local ASCE branch. Each branch hosts community outreach events, technical institute seminars, college student mentoring, younger member activities, monthly luncheons, and various networking and social happenings. Local student chapters and younger member group are always looking for your mentorship and guidance as they start or advance in their professional and personal undertakings.

If you have any comments/suggestions regarding how we can improve service to our membership, please do not hesitate to contact me (mghoseha@uno.edu) anytime. I look forward to hearing from you and seeing you at a future ASCE event. Thank you for your affiliation with ASCE and hope you have a great rest of summer.

"There's nothing I believe in more strongly than getting young people interested in science and engineering, for a better tomorrow, for all humankind."

— Bill Nye (the Science Guy)

I would like to take this opportunity to invite you to the 2018 ASCE Louisiana Section Awards Banquet and Installation of Officers.

The banquet will be held at 11:30am on September 21, 2018 at the LSU Center for River Studies, which is located on the Baton Rouge Water Campus (100 Terrace Avenue, Baton Rouge, LA).

The event is being catered by Juban's Restaurant. Please contact Rudy Simoneaux if you will attend. Rudy.Simoneaux@LA.GOV



Malay Ghose Hajra, PhD, PE

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

Louisiana Statewide Flood Control

By: Billy Williamson, PE

Introduction

The Louisiana Statewide Flood Control Program has been providing flood reduction benefits across the state for over 30 years. The program, managed by the Department of Transportation and Development’s (DOTD) Office of Public Works and Water Resources, was created by Act 351 of the 1985 Regular Legislative Session. The program bridges the funding gap between large-scale federal projects, state capital outlay projects, and local budgets that are often limited to completing little more than maintenance of existing systems. The program is funded by the Louisiana Transportation Trust Fund. All projects and associated funding amounts must be approved by the Joint Transportation, Highways, and Public Works Committee of the Louisiana Legislature. With major flooding occurring across much of the state in 2016, a renewed focus was placed on the program.

The historic flooding that occurred in March and August of 2016 both exposed weaknesses in flood control systems around the state and demonstrated that even the best systems can be overwhelmed by extreme weather events. Working with limited funding, the Statewide Flood Control Program is often unable to support larger regional projects that would provide wider benefits against less frequent events. Instead, the program focuses on smaller scale projects that are able to reduce repetitive losses caused by more frequent storm events.

Purpose

The primary purpose of the program is to reduce existing flood damages in the state. The program allows local authorities to apply for funding of projects which mitigate localized flooding problems within their jurisdiction. The program is uniquely structured to ensure equitable distribution of funds statewide. All levels of local government, from the largest parishes and cities down to the smallest towns and villages, can compete successfully for funding. Authorities eligible for participation in the program are defined in Revised Statute 38:90.1 as “a parish or municipality, or both, authorized by law to perform governmental functions and any special district created for the purpose of drainage and/or flood control.”

In order to be eligible for participation in the program, proposed projects must reduce existing structural flooding damages. As such, the program does require substantial documentation of the flooding problem. This documentation can include photographs of flooding in



Billy Williamson, PE



Main Willowridge Pump Station Under Construction



Main Eastwood Drainage Improvements

the project area, news reports mentioning the specific project area, National Flood Insurance Program Repetitive Loss data, flood insurance claim data, homeowner statements, etc. Also, projects cannot adversely affect flooding or drainage in upstream or downstream areas and cannot encourage additional development in flood prone areas. Finally, in order to manage the administrative burden on the Department, projects must also have a construction cost of at least \$100,000.

The program is predominantly a cost-shared program. On non-federal projects, the state may provide up to 90% of the eligible construction cost. On projects utilizing federal funding, the state funding is limited to a maximum of 70% of the non-federal participants’ share of the project costs. This non-federal share is usually determined by the agency providing the federal funding. Participation in the program is competitive, with projects evaluated based on potential damage reduction versus the State’s investment in the project. Prospective project sponsors may elect to increase their local share to increase the benefit-cost ratio for a more competitive project.

Application Process

Application for participation in the program is a two-phase process. Prospective project sponsors must first submit a pre-application by

May 30th each year to be considered for the program. The pre-application documents the flooding problem under existing conditions and details the magnitude and frequency of the problem. At this point in the process, the project sponsor should provide a list of possible solutions. The sponsor should also assume responsibility for their share of the project cost, which includes costs associated with right-of-way acquisition, utility relocation, wetland mitigation, operation and maintenance, and local match.

The Statewide Flood Control Program Evaluation Committee will review all pre-applications received by the deadline and determine which projects are eligible to proceed with a full application. The evaluation committee consists of DOTD’s Office of Public Works, the Louisiana Geological Survey, the Division of Administrations Office of State Planning, the Coastal Protection and Restoration Authority, and the United States Department of Agriculture’s Natural Resources Conservation Service. The Evaluation Committee may also seek input from the respective DOTD district office. Along with determining whether the proposed project meets basic program requirements, the committee will also consider the feasibility of the possible solutions listed in the pre-application.

If a pre-application is deemed to meet the basic requirements, a letter will be sent authorizing the sponsor to proceed with a full

application. The application, due October 1st, should further justify the need for the project while analyzing the possible solutions. A specific, cost-effective solution should be selected from the list provided in the pre-application. The sponsor should further develop the selected solution and provide hydraulic calculations for the proposed project. The hydraulic calculations must include modeling of the project area as proposed, as well as under existing conditions. Due to the complexity of developing a project application, sponsoring authorities are allowed to submit their completed application in the 4 consecutive calendar years beginning with the year that the application is authorized.



The application must also include a calculation of the benefits of the project. Benefits are calculated based on a schedule of benefits provided in the program’s Guidelines and Procedures. Damage values are provided for flooded structures on a per square foot basis, roads on a per mile basis, and agricultural land on a per acre basis. Structural damage values are based on structural occupancy and construction types. In order for a structure to be counted in the calculated benefits, the structure must have flooded previously and it must no longer flood based on the hydraulic model. The same requirements apply to flooded roadways and agricultural areas.

All applications received by the October 1st deadline are reviewed by the Evaluation Committee in order to make recommendations to the Joint Transportation, Highways, and Public Works Committee prior to the following Regular Legislative Session. The Evaluation Committee determines which applications meet program requirements and scores each application that does so. Applications are scored based on Benefit-cost ratio and the following 6 criteria:

- 1) Documentation of the flooding problem;
- 2) Local support for the project;
- 3) Technical feasibility of the proposed project;
- 4) Prevention of loss of life and Improved Public Safety;
- 5) Environmental Effects and Impact on Development; and
- 6) Previous recommendation of funding.

Consideration will be given to the distribution of projects across the state.

The Evaluation Committee will select a number of projects based on the availability of program funding. These projects are added to a list of previously approved projects that are not fully funded to become the Recommended Construction Program. This list is presented at a public hearing of the Joint Transportation, Highways, and Public Works Committee. Comments from the hearing are considered and changes may be made at the behest of the legislators. After a public comment period, the Final Recommended Construction Program is presented at an Adoption Hearing before the same committee. Upon adoption of the program, the recommended projects are approved and funding may be allocated to the project.

Funding

The program typically receives an allocation each year authorized by House Bill 2. The funds are distributed on a two-tiered system. Forty-five percent of annual program funds are made available to urban projects. The other fifty-five percent is dedicated to rural projects. Projects in rural areas are further separated into the rural-developed and rural-undeveloped areas, with rural-undeveloped defined by a structural density of 128 or less structures per square mile.

Urban funding is provided for projects in 9 urban areas: Shreveport, Bossier City, Monroe, Alexandria, Lake Charles, Lafayette, Baton Rouge, New Orleans, and Jefferson Parish. Currently, Title 56 of the Louisiana Administrative Code states that “no more than 20 percent of the total amount of funds available to finance projects in Louisiana’s urban areas may be allocated to any signal (sic) urban area.” This limitation often results in the urban program receiving less than 45 percent of funding. Remaining funding is then reallocated to the rural program.



Figure #: Rural Funding Districts

The rural funding is provided for projects in the 5 rural funding districts shown in Figure #. The funding is allocated by district on a pro rata basis using total area and total flood plain area. The funding for each district is further allocated between the developed and undeveloped areas of the respective district. The base funding allocations are shown in Table 1.

Table 1: Rural Funding Distribution

Rural Fund- ing District	Percentage of Rural Funding	Percentage of District Funds	
		Rural-Unde- veloped	Rural-Devel- oped
Northwest	23.1	52	48
Northeast	16.7	73	27
Southwest	15.5	55	45
South Cen- tral	22.6	42	58
Southeast	22.1	29	71

If approved projects in a particular rural category are insufficient to utilize the full allocation for that category, funding may be reallocated to projects in the other rural category within the same district. Likewise, if projects in a rural funding district are insufficient to utilize the full funding allocation, the funding may be reallocated to the other rural districts on a pro rata basis. Finally, if there are insufficient rural projects to utilize the full rural allocation, the funding may be reallocated to projects in the urban program. Unutilized urban funding may also be reallocated to the urban program.

Rural Grant Opportunity

While presenting the program to the Joint Transportation, Highways, and Public Works Committee earlier this year, several state legislators

voiced concern about small, rural parishes and municipalities being unable to participate due to limited funding available to provide match funding. The legislators were concerned that the citizens of these rural jurisdictions have been significantly underserved by the program.

During the 2018 Regular Legislative Session, Senate Bill 372 was passed into law. Becoming Act 384, it created the Rural Grant Opportunity within the Statewide Flood Control Program. The Rural Grant Opportunity allows small local governments without the financial ability to provide the required 10% match to participate in the program with the state providing 100% of the eligible construction cost. Eligibility for participation in this opportunity is limited to rural municipalities with a population fewer than 5,000 and rural parishes with fewer than 50,000. These rural grant opportunity authorities must provide a resolution declaring their inability to provide the required match to be eligible to apply for the Rural Grant Opportunity.

The Department is in the process of updating the Louisiana Administrative Code to reflect these changes. Once the changes are accepted, DOTD will begin updating the program Guidelines and Procedures in time for the 2019 application cycle.

Accomplishments

To date, a total of 118 projects have been completed in 37 parishes, with an additional 37 project phases completed. Additionally, there are 2 projects that have completed construction, but are awaiting final allocation of funding for final reimbursement and closeout. Currently, there are 32 active projects in the program. Since inception, the program has expended over \$251 million, providing over \$2.55 billion in flood reduction benefits.

Billy Williamson, PE is the manager of the Statewide Flood Control Program for the Department of Transportation and Development. Billy received his BS in Mechanical Engineering from Louisiana State University in 2007. Prior to joining DOTD in 2014, he worked in the State Energy Office at the Department of Natural Resources where he managed the Energy Efficiency and Conservation Block Grant Program and assisted in the development and administration of energy efficiency and conservation codes for commercial and residential buildings.



SAVE THE DATE!

Call for Potential Speakers and Exhibitors!
We are proud to announce the dates for the 28th Annual Louisiana Civil Engineering Conference and Show. This event, a joint effort from the New Orleans Branches of ASCE and ACI, is the premiere gathering for the Civil Engineering community in the Greater New Orleans Area. We are in the process of soliciting sponsors and exhibitors and establishing the technical program for the fall conference which will be held on September 26-27, 2018, at the Pontchartrain Center in Kenner, Louisiana.

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

ASCE Region 5 Director's Letter

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



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

July 18, 2018 Update for Region 5

I recently read an article that was talking about the fact that parents only have 18 summers with their children. It seems obvious, because after 18 summers, every human being becomes an adult, in physical age at least, but it is an often overlooked obvious fact. We all have the tendency to get busy and push things back – “next summer we’ll get to the cabin, I promise” and other similar statements have been told by parents in modern times for far too long.

Fortunately, for those of us in the South, summers aren’t the only time that the weather is nice, so we often take advantage of this time to “beat the heat” and slow down a little. We aren’t scrambling in the 6 months of the year that the ground isn’t frozen to install that pipeline and we don’t have 17 hours of sunlight to finish those bridge plans. We’d rather head to the beach and take a load off.

That being said, it is also the time for a number of Sections to have their summer meetings and while we’re relaxing at the beach with family, there is a whole lot of planning going on at the student chapter, younger member group, Branch, Section and, of course, Region level.

At the Society level, we are really taking a look in the mirror. The Society has still not returned to the pre-recession membership and profit levels, despite the economy being hot. For the last couple years, we’ve had great profits on our investment portfolio, but we’ve used those profits to cover holes in the operating budget to balance our annual budget. The Board knows that this isn’t sustainable.

The Board also knows that every project and program that ASCE executes on is very important to some (or all) of our membership. We were asked the fundamental question, why are you an ASCE Member? I, in turn ask you to think about that same question.

The Board knows it needs to take bold action. We are exploring as many options as ideas that originate from the membership. We’ve even created a “bold idea” thread in our Board Collaborate Group to share with senior staff to explore idea viability. If you have a big idea, no matter how off the wall, feel free to send it my way, pmoore@chenmoore.com.

Last Board Meeting Recap

The ASCE Board of Direction met July 12-13, 2018 in Charleston, South Carolina. This was a normal business meeting for the Board

with several valuable topics discussed in the remainder of the report. The concept behind this meeting was to focus on the topic of “Deliver and Increase Member Value”, so a number of the sessions related to this topic and the theme permeated all discussions.

The first day of the Board meeting included a presentation by Jim Newsome III, the President and CEO of the South Carolina Ports Authority. His presentation welcomed us to Charleston and continued on the theme of thinking differently. We also heard from Sarah Sladek, the author of the book, “The End of Membership as We Know It”, who purports that people no longer join professional organizations out of the same obligation they once did – they do it for a membership value proposition. This led to a number of great conversations, eventually in the challenge I mentioned above.

The last business item was a panel discussion on Member Value from three committees (Diversity and Inclusion, Member Communities and Public Policy) as well and the Construction Institute. In each case, the groups discussed the important work that they do and its place in ASCE and in the greater world.

After the business items, the Board was invited on a tour of the Boeing Facility in Charleston. It is the location of the manufacturing of the aft section and the assembly of the final product for the 787 Dreamliner. Here’s a fun fact, Charleston is one of only three locations in the world where wide bodies (more than one aisle) aircraft are assembled! The tour was fascinating of course, but the bigger message was the idea of partnerships – between Boeing and the State of South Carolina for sure – but in a larger sense, from engineering to raw materials to manufacturing to assembly, these are truly global products requiring great communication and understanding. What a fantastic message! After we returned, the Charleston Branch and South Carolina Section hosted a reception for us. I’ll summarize by saying that it may be warm in July, but Charleston is one cool town!

The second day of the Board Meeting was all business including a discussion on Member Value from a Regional Standpoint and a working session on finalizing the Key Process Indicators for the draft Strategic Plan. We received the final report from the Task Committee on Raise the Bar Rebranding and voted to empower the RTB

committee with a marketing budget to assist their efforts. We received an update on publications before the lunch break that prepared us for the real work of the day – passing the annual budget. After a number of amendments came up and failed, we approved the budget recommended by the Program and Finance Committee (with the exception of the aforementioned marketing budget), with the recognition that we needed bold action.

The afternoon concluded more quietly, with a review of Policy Statements from the Public Policy Statements, a recap of President Swallow’s Presidential visit to South America and some additional spirited discussion during open session. As always, the meetings are

interesting, grueling, informative and fun all in one. I look forward to the next meeting in Colorado in conjunction with the Annual Meeting.

Thank you,

Peter M. Moore, PE, F. ASCE, ENV SP, LEED AP
2017-2020 ASCE Region 5 Director

Elward Stanley Willis -1925-2017

Zachary, LA - Willis, Elward Stanley, born March 4, 1925, died at the age of 92 on December 22, 2017 in Zachary, LA. He is survived by: his children Nancy Irene Willis Deason (Edward Harold) of Birmingham, AL, Ellen Coretta Willis Douglas (Carl L. "Mel") of Slaughter, LA, and Stanley Truesdale Willis of Birmingham, AL; grandchildren Ellen Claire Douglas McCrary, Katherine Lynn Deason Burgess (Charles G.), Rebecca Jean Douglas Balestrini (Santiago) and Anna Marie Deason; four great grandchildren. He was predeceased by his wife of 68 years, Emma Jean Truesdale Willis and parents Floyd and Nancy Alma Coughlan Willis. "Willis" had the privilege of being reared in a large gregarious family where he was the only surviving son surrounded by eight equally smart and witty sisters. He graduated from Noxapater High School (MS) before entering college. His schooling was interrupted by his military service. He served with the 86th Division during World War II and saw action in the European and Pacific theaters. He was a veteran of the Korean Conflict. He received an associates degree from East Central Junior College (ECJC) in Decatur, MS. He and his bride, Emma Jean, whom he met at ECJC, moved to Starkville, MS, where in 1949 he earned a bachelor's degree in Civil Engineering from Mississippi State University. He worked in this field until the age of 82 concentrating in the petrochemical industry. He was a life long ASCE member. Highlights of his career were with his employment at Mississippi Chemical Corp. (Yazoo City, MS), Rust Engineering (Birmingham, AL), Michael Baker (Jackson, MS), and Ford Bacon and Davis (Monroe, LA). He and Emma Jean shared the enjoyment of many activities including fishing, gardening, and bridge. He was fond of



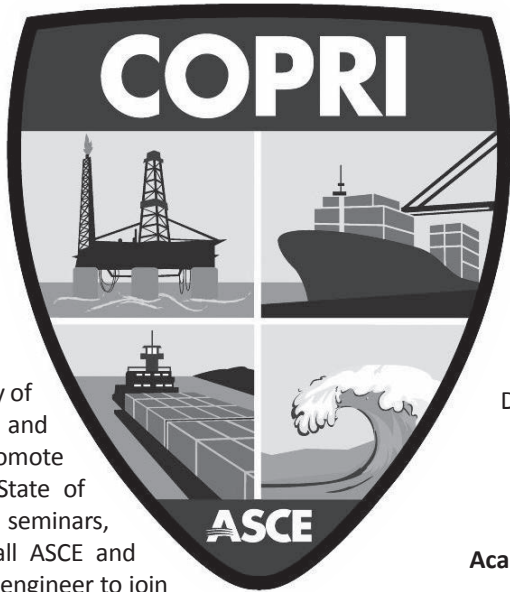
**Elward Stanley Willis
1925-2017**

reading, lived a healthy lifestyle, thrived on problem solving, and had an infectious sense of humor. He was a dedicated and active member of several Baptist and Presbyterian Churches where he taught adult Sunday School classes and served as Elder.



COPRI serves as a multidisciplinary and international leader in improving knowledge, education, development and the practice of civil engineering and other disciplines in the sustainable management of coastal, ocean, port, waterways, riverine and wetlands resources for the benefit of society. For more information on all COPRI conferences, please visit <http://www.asce.org/coasts-oceans-ports-and-rivers-engineering/coastal-engineering-conferences-and-events/>.

The Louisiana Chapter of the American Society of Civil Engineers (ASCE) Coasts, Oceans, Ports, and Rivers Institute (LCOPRI) is continuing to promote membership and visibility throughout the State of Louisiana. The activities of LCOPRI 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 Venu Tammineni, at LCOPRI@yahoo.com.

Board Members

- Chair – Paul Tschirky
- Vice-Chair – Dennis Lambert
- Secretary – Tyler Ortego
- Treasurer – Erin Rooney
- Director of Programs– Andrew Woodroof
- Director of Communications – Venu Tammineni
- Director of Education – Ashly Adams-Tschirky
- YPG Chair – Myriam Bou-Mekhayel
- Past-Chair – Rudy Simoneaux

Academic and Practitioner Advisory Committee:

- Ehab Meselhe
- Nancy Powell
- Clint Willson

ECM Consultants, Inc. appoints new Vice President

ECM Consultants, Inc. is pleased to announce the addition of Chad C. Vosburg, P.E. to the ECM team as Vice President of Construction Services. Mr. Vosburg is a graduate of Louisiana State University with a Bachelor of Science degree in Civil Engineering. He joins ECM following 25 successful years at Louisiana Department of Transportation and Development.

As LADOTD District 61 Administrator, he was responsible for maintenance operations, construction, special projects, and emergency response operations including major weather related events, focusing on the overall operation of the State Highway and Bridge system in the nine parish area that District 61 covers. His education and experience will enhance ECM’s team in continuing to provide planning, engineering, architectural and construction management services to clients.

Mr. Vosburg has strong roots within the community. Chad, his wife Jennifer, and two children are lifelong residents of New Roads, Louisiana. He is a graduate of Catholic High School in Pointe Coupee, serves as Vice President of the False River Waterworks Corporation, and was appointed by Governor John Bel Edwards in 2017 to serve on the Louisiana Professional Engineering and Land Surveying Board.

Mr. Vosburg can be reached at cvosburg@ecmconsultants.com

Office: 225-615-7885 Cell: 225-202-6805

Please join us in welcoming Chad to the ECM Team.

ASCE Government Relations



Geaux Vote: Use Your Voice in the 2018 Election Cycle

There is no better time to get engaged in public policy than election season. It is an opportunity to not only get to know your elected officials better, but also to become a more educated voter. Many candidates will be reaching out to their voters to learn about their concerns for the next legislative cycle and chances are their research may include a call to the Section or the local Branch. This offers ASCE a unique opportunity to educate a potential elected leader and increase their interest and understanding of infrastructure issues. Civil engineers’ voices are respected in the public policy process, so don’t be afraid to share your expertise!

While ASCE, and its Sections and Branches, cannot endorse candidates or make campaign contributions, there are other ways to become engaged. You can host panel discussions or open forums on infrastructure to which you invite all candidates to share their ideas and get feedback from the public and our members. In doing so, it is critically important that your invitation be extended to all candidates in the field – they don’t all have to participate but, they must all be invited. If you want help to plan a panel or open forum, you can reach out to ASCE’s Government Relations department at govwash@asce.org. ASCE has resources to help you in the prepare and plan for an event like this.

If you’re just looking to be a more educated voter, we encourage you to attend panel discussions arranged by another group, such as your local Chamber of Commerce or League of Women Voters. If you’re not a member of a local civic association, you should be able to easily find a public forum - or ask a member if you can attend as their guests. When attending events make sure you do your homework. Similarly to when you are meeting with an elected official, take a few minutes to inform yourself by reviewing the candidate’s website (including their social media channels) to learn a little more about them. Then be sure to pick up the 2017 Report Card for Louisiana’s Infrastructure and the 2017 Infrastructure Report Card and reach out to ASCE’s staff to ask for the latest briefing documents. Download the

Report Card app, *Save America’s Infrastructure*, from iTunes or GooglePlay so that you have the grades at the palm of your hand. Take any opportunity to ask questions, to help inform the discussion and work towards building a stronger community by reminding candidates of the importance of keeping up with our infrastructure needs.

In many states, candidates won’t be the only thing on the ballot. Make sure you’re keeping an eye out for any statewide or local ballot measures (sometimes called referendums or propositions) that relate to infrastructure. In Louisiana, look out for Amendment 4 – “No Dedication of Transportation Trust Fund Revenue to State Police Amendment”. This measure which will appear on the November 6th ballot would end the allocation of Transportation Trust Fund dollars to state police for traffic control. This measure was approved to appear on the ballot by the state legislature in May 2018.

Visit your city or parish board of elections website or start by visiting www.geauxvote.com, to review a sample ballot and educate yourself on the questions which appear on the bottom of your ballot. They can be just as critical to funding our infrastructure as electing the governing body itself.

And, while you’re on the city or parish board of elections, if you’re not yet registered to vote in Louisiana, take a few moments to find out how to complete this process. In Louisiana, like most states, chances are if you have a state issued driver’s license you’re registered to vote. If you’re registered but, have recently moved be sure to update your registration so you can vote in your new precinct. The city or parish board of elections will also tell you where to go to vote on Election Day and whether you’re eligible for early or alternative voting options – like vote by mail or online voting.

We hope that you’ll participate in this year’s Election Cycle and also consider becoming an ASCE Key Contact and make advocacy a year-round habit.

Historic Louisiana Bridge Program Seminar

In the early part of May the T&DI Louisiana Chapter hosted the Historic Louisiana Bridge Program Seminar at the Patrick F. Taylor Hall at LSU in Baton Rouge. This presentation highlighted the efforts and achievements of the LADOTD to implement the state's historic bridge program. As part of this program, LADOTD has narrowed the focus to 150 historic bridges out of the State's inventory of 4,500 bridges. The seminar emphasized how the Program provides clear direction on how to progress with bridges that are historically significant by identifying appropriate rehabilitation methods. Several examples of successful Louisiana rehabilitation bridge projects were also presented. The speaker was John Rathke, PE, SE who is a Senior Project Manager at Meade & Hunt.

Data Driven Safety Analysis Seminar

In mid-May the T&DI Louisiana Chapter, along with the ASCE Shreveport Branch as co-sponsor, hosted the Data Driven Safety Analysis (DDSA) seminar which was presented at the Shreveport Petroleum Club in Shreveport. The seminar was coordinated by T&DI Executive Committee Member Elba Hamilton, PE and Louay Mohammad, PhD, PE. The first part of the seminar overviewed DDSA innovations and practices in applying the latest generation of crash and roadway analysis tools throughout the project development process. The second part of the seminar present the concept of network screening and safety performance functions as utilized by the LADOTD; a development that can optimize highway improvements by helping to allocate limited safety dollars to areas with the greatest needs. The speakers were John Broemmelsiek, PE who serves as the Intelligent Systems and Traffic Operations Engineer for the Federal Highway Administration in the Louisiana Division and Betsey Tramonte who serves as the Highway Safety Specialist for the Federal Highway Administration Louisiana Division office.

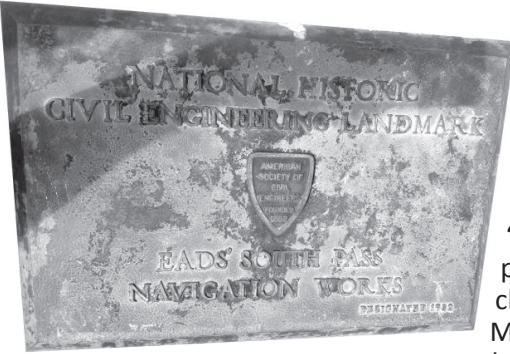


Looking Ahead

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 Bill Temple, PE, at btemple@caal.org 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:

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

History & Heritage - Eads' South Pass Jetties
By Tonja Koob Marking, PhD, PE



In the Rivers and Harbors Act of 1875, Congress authorized James Buchanan Eads of St. Louis, Missouri "to open a wide and permanent deep channel between the Mississippi River and the Gulf of Mexico through South Pass." He was "not simply to secure the wide and deep channel ... but likewise to provide for the construction of thoroughly substantial and permanent works, by which the said channel may be maintained for some time after their completion."

Construction began on June 14, 1875, with provisional works for the East Jetty the first to take shape. By June 26 Eads had extended the work 1,000 feet from land's end and was advancing at the rate of 200 feet per day. The channel first secured a depth of 20 feet and a width of 200 feet in December 1876. By June 1879 it reached a depth of over 26 feet, and less than a month later, it achieved a record depth of 30 feet. Eads maintained that depth with a minimum of failures for twenty years, until the contract with the federal government naturally terminated.

In creating a deep-draft navigation channel through shallow and shoaled South Pass (it had an average depth of 8 feet over the bar before Eads' jetties), Eads proved beyond doubt and over concerted opposition that the construction of parallel jetties and ancillary structures at the mouth of an alluvial river would serve to scour a navigable deepwater channel. Although comparative numbers are not available, it appears that Eads' jetties were the longest on record at the time of their construction: the east jetty was 11,700 feet and the

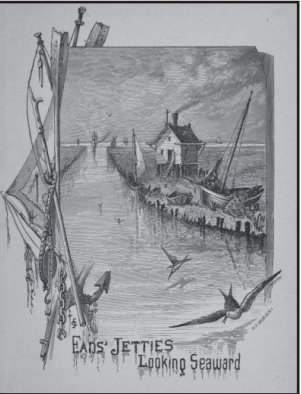
west jetty was 10, 125 feet by 1877. Eads constructed a system of ancillary structures designed to improve scour action and create a navigable channel. At the head of South Pass he built a T-dam and made use of multiple wing dikes perpendicular to the flow to force the current into a narrower cross-section, thus inducing more channel scour. He also placed sill dams across Pass a Loutre and Southwest Pass to force more water down South Pass.

Eads constructed the entire project with private funds furnished by himself and a group of investors. Only if Eads achieved the channel dimensions established in the Rivers and Harbors Act would Congress reimburse him for construction and maintenance of the jetty works.

To the civil engineering profession, Eads' Jetties contributed advancement in hydraulic engineering with knowledge and control of large alluvial, deltaic rivers, control of discharges, and knowledge of bar-formation mechanics. In 1982, the American Society of Civil Engineers designated Eads' South Pass Jetties as a National Historic Civil Engineering Landmark.



Tonja Koob Marking, PhD, PE



Eads Jetties Looking Seaward
Historical Sketch Book and Guide to New Orleans



View of piles for jetty taken from the pile driver, showing Port Eads in the distance.

Eads' South Pass Jetties

- Completed: 1879
- Years in Operation: 20+
- Original Owner: Shreveport Water Works Company
- Engineering Significance: largest jetty system at time of construction; advanced hydraulic knowledge of alluvial, deltaic river systems; opened Port of New Orleans to year-round commerce; eliminated maintenance dredging for 5 years

What Infrastructure Grade is Your Child’s School Receiving?

By Deborah D. Keller, PE

Our nation’s school children are precious to us. They are our future, they are our family and friends and neighbors. From the moment they leave home each school day there is the expectation that they will be safe and properly cared for. That includes the transportation they use, the roads and bridges they cross, and the water, sewerage, drainage and power systems their schools need to operate. For K-12 education, school is the home away from home for students and teachers for nearly two hundred days each year.

Power outages, broken water pipes, flooding, and other infrastructure disruptions can prompt school closures. This is an example of the interconnectedness of our infrastructure. It works as a system. When one part has a failure, other parts get disrupted. Because much of our infrastructure is deteriorating, disruptions happen more frequently. This is costly to the economy, and in the case of schools, to students’ learning.

K-12 educational facilities are not immune to the deterioration that comes from aging infrastructure. Nationally, public school facilities received a “D+” grade because more than half are in need of investments for repairs, renovations, and modernizations to be considered in “good” condition. Schools especially should be able to provide an environment conducive to students learning and teachers teaching. This has been proven to impact student performance. If the HVAC can’t provide a comfortable temperature, or the lighting is poor, or the restrooms don’t work properly, or the equipment is broken, what’s the impact on effective education under those circumstances? Those are visible signs of infrastructure conditions, but what about the not so obvious signs of lead paint, contaminated soil, asbestos tiles, toxic mold, poor drinking water and air quality, deadly bacteria, and building code violations?

A more recent concern that is certainly not obvious is the threat of a random act of violence on campus. Hardening the infrastructure, re-design of entries and exits, etc. require expensive retrofitting in older schools. But what price is paid for daily anxiety that can affect the mental health of both students and teachers in an environment targeted for violence where security is still lax?

U.S. K-12 enrollment is projected to grow by 3% over the next decade. As student population grows, many school systems have to choose between “temporary buildings”, such as portable trailers, or adding students into already crowded classrooms. Both can restrict learning activities when the maximum occupancy is reached. Furthermore, temporary buildings are usually vacated under tornado-like weather, further increasing anxiety and disrupting learning time as teachers rush students to gyms and cafeterias.

The American Society of Civil Engineers’ 2017 Infrastructure Report Card for K-12 schools issued a grade of D+ because it found that approximately 53 percent of schools need improvements to reach even “good” condition. Many school districts had not adopted regular, comprehensive major maintenance, renewal, and construction programs nor preventive maintenance programs due to lack of adequate funding.

ASCE also recognized that “school buildings also serve communities as emergency shelters during man-made and natural disasters. This secondary function has a significant role in public health, safety, and welfare and requires facilities that are maintained to function in emergencies and resilient to quickly recover. Unfortunately, many older school buildings do not have windows that can withstand high winds, structures designed to survive earthquakes, and rooms specifically designed as shelters from tornados.”

Excerpt from the 2017 ASCE National Infrastructure Report Card for Schools – D+

- Our nation’s public schools received a grade of a D+, up from a D in 2013.
- Public schools serve as critical learning environments for the next generation. Recent studies indicate that public schools’ conditions may affect student performance, with quality facilities helping to improve student achievement, reduce truancy, and raise staff morale and retention.
- More than half (53%) of public schools need to make investments for repairs, renovations, and modernizations to be considered in “good” condition.
- While school districts invested as much as \$99 billion per year in school facilities from 2011-2013, it is estimated that the nation should be spending \$145 billion per year to maintain, operate, and renew facilities so they provide healthy, safe, and modern learning environments leaving an estimated \$46 billion annual gap.
- School districts spent \$14 billion on construction projects in 2014. A little more than half of that amount (\$7.8 billion)



Deborah D. Keller, PE

was spent on new schools, while the rest was split between additions to existing buildings (\$3.2 billion) and modernizing existing structures (\$3.14 billion). There’s been essentially no new investment nationally.

- School funding varies widely by state. Five states pay for nearly all of their districts capital costs, 12 states provide no direct support for districts for capital construction responsibilities, and in the remaining 33 states, the levels of support vary greatly. The federal government contributes little to nothing to help alleviate disparities.

The 2017 Louisiana Report Card did not evaluate schools, but we know that like most public infrastructure there is never enough funding in the local school districts and many schools were not designed to meet tomorrow’s demands. Consequently, aging infrastructure is a disadvantage and our children and teachers are at a disadvantage

School closures are an example of the inconveniences that happen because our infrastructure is not meeting our needs. When a school has to close:

- Students’ learning is disrupted for that day and teachers must adjust plans
- Parents need to find alternate childcare—possibly not going to work, and therefore losing wages themselves
- Hourly school employees lose wages
- Repairs may cause more than one lost school day

If you have an interest in serving on the next Louisiana Infrastructure Report Card’s committee for evaluating Louisiana’s public schools, please consider volunteering to serve on a new committee, if we have enough volunteers. It will be a state-wide effort made easiest if we have ASCE members evaluating as many public school districts as possible. We owe it to our children and our teachers.

Branch News

ACADIANA BRANCH

By Jared Veazey, PE, MS Branch President

I hope everyone is having a safe and happy summer with family and friends. As the summer nears the end, the branch will begin the fall activities, the next scheduled meeting will be in September, where the newly elected officers will be installed and begin their new leadership roles. Following the May Luncheon the Acadiana Branch has had no additional Meetings.

At the May Luncheon, elections were held. The ASCE Acadiana Branch Board for 2018 - 2019 will be:

- Will Cenac-President
- Jacob Neu-President Elect
- Algy Semin-Secretary/ Treasurer.

I am looking forward to the new ideas they bring in with them. Please take a moment to meet and thank them for volunteering their time to give back and serve the Acadiana Branch at our September Luncheon.

Also I would like to thank Mr. Venu Tammineni, PE, with S&ME for presenting for his presentation at the Acadiana Branch May Luncheon. Mr. Venu Tammineni presented on Geotechnical Aspects of a Marsh Creation in Costal Louisiana. The presentation was informative and technical in nature.

I would also like thank everyone who attended the Annual ASCE, LES, & IEEE Crawfish Boil. The event was very well attended. This was a great opportunity to mingle with other engineers and introduce engineering students to the professional side of Engineering.

Just a reminder, the fall scholarship applications will be going out to the University of Louisiana at Lafayette and McNeese University. Please follow up with your department head or the ASCE Student Chapter president. Two scholarships are handed out at each university in the fall and spring semesters.

We are also looking for volunteers from our underserved regions to act as liaisons. This person would assist us in serving those regions by hosting meetings in their area on behalf of the Acadiana Branch. If anyone in the Alexandria area would be willing to serve, please contact me or any of the Acadiana Branch officers at asceacadiana@outlook.com.

Branch News, Cont.

BATON ROUGE BRANCH

By Blake Roussel, PE, Branch President

The Baton Rouge Branch stayed busy this past summer, and we are now preparing for a busy fall of 2018. Fall brings with it the end of the branch’s operating year, and the current board of directors will be turning over on October 1, 2018. Having the opportunity to lead such an active membership group as the Baton Rouge Branch President has been inspiring and something that I have not taken for granted. I have to give my sincere thanks to our awesome board for managing all of our activities behind the scenes! Thank you! We assuredly will have a smooth transition, and I can’t wait to see in which direction Ms. Sarah Ollenburger will lead us next year.

Our May luncheon was a joint luncheon hosted by LES at Juban’s restaurant. Mr. Chris Knotts, LA DOTD Chief Engineer, presented to well over 120 attendees. It was a fantastic event and LES did an excellent job hosting.

Our June luncheon was also held at Juban’s restaurant. This luncheon not only served as our Past President’s luncheon, but we also recognized our branch’s newly minted Life Members as well as presented our annual branch awards to a group of well-deserved local engineers. This year’s award winners included:

- ASCE Civil Engineering Wall of Fame – Mr. Ron Rodi, PE
- Outstanding Civil Engineer – Ms. Cindy Hall, PE
- Outstanding Young Civil Engineer – Mr. Ben McArdle, PE
- Outstanding Civil Engineering Educator – Dr. Clint Willson, PE
- Outreach Award – Mr. Stokka Brown, PE

All branch winners were submitted to the LA Section for the Section awards. Good luck!

Although we took the month of July off from our monthly luncheons, we will dive into the fall schedule with Engineer It on August 18 at LASM from 10am – 12pm, our August luncheon at Juban’s on August 23, and then the September luncheon which will serve as an officer installation luncheon for the Branch as well as the Louisiana Section Board on Friday, September 21. Stay tuned for more information regarding the September luncheon. We are working on making it an awesome event! See you there!

If you are interested in helping to volunteer, please email president@ascebr.org.



Photos Courtesy of the Louisiana Arts and Science Museum

NEW ORLEANS BRANCH

By Karishma Desai, PE, Branch President

Like everyone else here in southern Louisiana, we’re counting down these hot, sweaty days of summer. To keep our mind off the heat, we planned events that were fun, informative, and, most importantly, indoors.

Let me tell you what we did this past spring and early summer ...

Deborah D. Keller, PE, of Deborah D. Keller and Partners presented “Engineering – It’s a Risky Business,” on 24 April at the Metairie Country Club for our April luncheon. I hope you all read her article in the Louisiana Civil Engineer, Journal of the Louisiana Section, Volume 26, No. 2, February 2018.

For our May luncheon, we took a road trip to the northshore. The New Orleans Branch collaborated with the APWA Northshore Branch to host the May luncheon. The topic was St. Tammany Parish’s Tammany Trace Project. Rob Delaune, PE, of the ASCE New Orleans Branch spoke at this event on 15 May 2018. Sara Sharp, PE, of the St. Tammany Parish Public Works Department also spoke at the luncheon.

On the same day, Stephanie Bayne, PE, hosted a booth at the Core Element’s Spring STEM Fair at the Baby Cakes game. Of the approximately 8,700 students from the third to the eighth grade in attendance, Stephanie reached out to over 500 of them.

The esteemed Col. Michael Clancy, PE, Commander and District Engineer of the U.S. Army Corps of Engineers, New Orleans District, took time out of his busy schedule to speak at the New Orleans Branch’s June luncheon on June 19. Col. Clancy spoke about the current challenges and opportunities at the USACE.

Another exciting event was the third annual leadership panel/networking event hosted by the New Orleans Branch’s Younger Member group. Sean G. Walsh, PE, of Eustis Engineering L.L.C.; Kyle Galloway, PE, of GIS Engineering, LLC; and Jim Costigan of Modjeski and Masters, Inc., organized the event at the CellarDoor in New Orleans on 21 June 2018. The panel focused on construction and engineering and included Travis Richards of Eustis Engineering, Melissa Gibbs of Gibbs Construction, Brian Frelich of Hayward



Karishma Desai, PE, hands an appreciation trophy to Deborah D. Keller, PE, on 24 April 2018



Stephanie Bayne, PE, second from right, at Core Element’s Spring STEM Fair at the Baby Cakes game with three ASCE members



Col. Michael N. Clancy, PE, accepts an appreciation trophy from Karishma Desai, PE, on 19 June 2018

Baker, and Stephen Greaber of Terracon. We thank Hayward Baker for sponsoring the event.

Our largest and final event was the awards ceremony held on 13 July at the Metairie Country Club when the New Orleans Branch presented its 2017-2018 Life Member, Undergraduate Student Scholarships, Branch and Service Awards. ASCE New Orleans Life Member Awards included Gerald Preau, PE; Zolan Prucz, PhD, PE; Robert Massa, Jr., PE; Tyau-Da Huang, PhD, PE; Herbert Miller, PE; John Griesber, PE; and Kevin Martin, PE.

We also presented student scholarships to three University of New Orleans (UNO) students. Our past president and Chair of the Undergraduate Student Scholarships, Lee Alexander, presented these awards to Tyler Baggett, Renee Poole, and Alexander Vu of UNO.

The New Orleans Branch also presented the following awards:

- Outstanding Young Civil Engineer - Sean G. Walsh, PE, M.ASCE, of Eustis Engineering;
 - Outstanding Civil Engineer - Ronald “Ronnie” L. Schumann, Jr., PE, M.ASCE, of ISLI Engineering;
 - Lifetime Achievement - Richard A. Van Wootten, PE, F.ASCE, of Linfield, Hunter & Junius;
 - Outreach - Stephanie Bayne, PE, M.ASCE, of Stanley Consultants, Inc.; and
 - Wall of Fame - Om P Dixit, PE, F.SEI, F.ASCE, of Dixit Consultants, LLC.
- Congratulations to all the award winners!

This is my final address to you all as the ASCE New Orleans Branch President, as we also installed the 2018-2019 ASCE New Orleans Branch officers on 13 July 2018. I passed the reins to Rob Delaune, PE, of Digital Engineering, Inc., What a great year it has been! I have had the privilege of working with so many amazing engineers, connecting with many new fellow engineers, and making some lifelong friendships. I hope to see you all soon. Have a great summer.

NEW ORLEANS BRANCH, Cont.



The ASCE Younger Members group hosted a leadership panel on 21 June 2018 at CellarDoor in New Orleans



Karishma Desai, PE, presents the life member certificate to Dr. T.D. Huang, PE on 13 July 2018



Karishma Desai, PE, presents the life member certificate to Gerald Preau, PE, on 13 July 2018



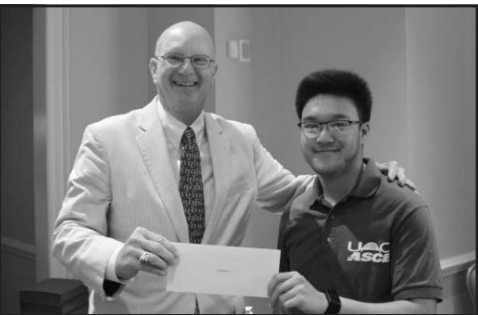
Karishma Desai, PE, hands the life member certificate of Dr. Zolan Prucz, PE, to his colleagues, Cullen Ledet and James Costigan of Modjeski and Masters, Inc., on 13 July 2018



Lee Alexander, PE, hands Tyler Baggett, a rising UNO senior, a scholarship check for \$500 on 13 July 2018



Lee Alexander, PE, hands Renee Poole, a rising UNO senior, a scholarship check for \$500 on 13 July 2018



Lee Alexander, PE, hands Alexander Vu, a UNO junior, a scholarship check for \$500 on 13 July 2018



Karishma Desai, PE, presents the Outstanding Young Civil Engineer Award to Sean G. Walsh, PE, on 13 July 2018



Karishma Desai, PE, presents the Outstanding Civil Engineer Award to Ronnie Schumann, PE, on 13 July 2018



Karishma Desai, PE, presents the Outstanding Outreach Award to Stephanie Bayne, PE, on 13 July 2018



Karishma Desai, PE, presents the Lifetime Achievement Award to Richard Van Wootten, PE, on 13 July 2018



Karishma Desai, PE, presents the Wall of Fame Award to Om Dixit, PE, on 13 July 2018

NEW ORLEANS BRANCH, Cont.



Karishma Desai, PE, presents the Outstanding Service Award to Erin Rooney, PE, on 13 July 2018.



Karishma Desai, PE, presents the Outstanding Service Award to Andrew Woodroof, PE, on 13 July 2018.



Karishma Desai, PE, presents the Outstanding Service Award to Rob Delaune, PE, on 13 July 2018.



Karishma Desai, PE, passes the gavel to our 2018-2019 ASCE New Orleans Branch President, Rob Delaune, PE, on 13 July 2018.



The 2018-2019 ASCE New Orleans Branch Board includes, top, from left: Secretary Stephanie Bayne, PE; Director-at-Large Clay Worley, EI; Past President Karishma Desai, PE; Director-at-Large Kyle Galloway, PE; and Director-at-Large Erin Rooney, PE. Bottom, from left: President-elect C. Dean Nicoladis, PE; President Rob Delaune, PE; and Vice President and Treasurer Andrew Woodroof, PE.

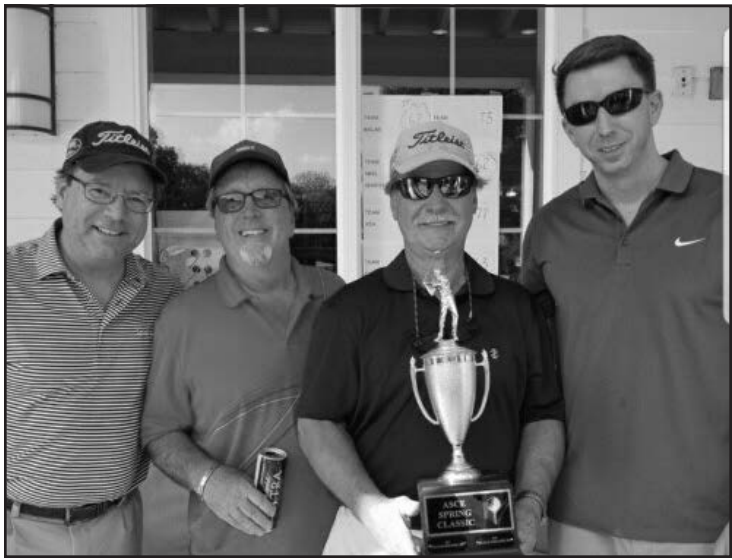
SHREVEPORT BRANCH
By Tim Wright, EI, Branch President

The Shreveport Branch kicked off the beginning of summer with our annual Spring Classic Golf Tournament. This time, we took our members to Querbes Park, one of the oldest courses in Shreveport. We had a blast, as 40 of our members came to play and compete on the golf course. A few of us even got to play with Louisiana Tech students, of which we had five make the trip from Ruston Louisiana.

After a tasty lunch, our tournament was very competitive, as several teams were trying to beat out Raley and Associates, who had quite the streak going after the last few golf tournaments. Indeed, with new players at the golf tournament we had new teams in the top three spots. Balar and Associates came out on top, and we congratulate them for a great day at the golf course!



As we take a break from our monthly meetings for the summer, we look forward to what the fall has in store. We've already got a few speakers lined up, as well as more opportunities to fundraise for our activities like the Section Conference next Spring and involving the LA Tech student branch in activities.



ASCE-SEI New Orleans Chapter News

By Om Dixit, PE, FASCE, F-SEI



The ASCE SEI New Orleans Chapter has been very busy hosting and planning seminars and workshops and volunteer efforts. SEI NO hosted the following seminars during the past quarter:

The annual David Hunter Lecture for 2018 “Hanging by a Strand: The Challenges of Aging Suspension Bridges” was presented by Barney Martin, PhD, PE (former CEO, Modjeski and Masters, Inc., Mechanicsburg, PA) on May 9 2018 at University of New Orleans. Approximately 30 bridges with aerially spun parallel wire cables were erected by the end of the twentieth century. Today most of these bridges are over 70 years old and some are more than 100 years old. Starting as early as the middle of the 20th century, some inspectors began to “peek” inside these cables to ascertain their condition. This led to an interest in, and development of, methods to establish the condition of the cables and their remaining strength. Dr. Martin presented the historical evolution of the suspension bridge, the terminology used when describing the components of a suspension bridge, the construction procedures used to spin the cable and erect the bridge, the design methods used over time, and the problems experienced by suspension bridges leading to the present methods of cable assessment. A case study of cable assessment was presented using one of the oldest on-going cable inspections in the world. The Annual David Hunter Lecture was cosponsored by Linfield Hunter Junius and Department of Civil Engineering at University of New Orleans. It was attended by 51 members.

Another SEI NO seminar “UNRECOGNIZED KNOWLEDGE: RECURRING STRUCTURAL FAILURES” was presented by Dr. Julie Mark Cohen, PE, SECB (Consulting Structural and Forensic Engineer, Latham, New York) on June 7, 2018 at University of New Orleans. Since the 1960s, forensic investigators of structural failures have primarily sought out quantifiable errors and omissions. Underlying causes of too many of these failures have gone unnoticed, thus not offering information to develop “feedback loops” to correct deficiencies and inadequacies in structural engineering practice. Consequently, unnecessary structural failures have not only continued, but have recurred. From a broader design- and systems-based perspective, Dr. Cohen has examined hundreds of failures. She further identified and substantiated nine areas in which structural engineers have been making design decisions without using available, pertinent knowledge from related engineering fields and even from structural engineering. Three areas were the focus of this seminar. Using three case studies, overviews were given on structural engineering design decision making in the context of history. The first one was fracture due to hydrogen embrittlement of galvanized high-strength hard steel bolts and threaded rods. The second was the February 2017 failure of the Oroville Dam Spillway. The third includeed structural failures that have resulted from the (mis)use of the terms “design” and “systems



thinking.” Dr. Cohen stated that relevant knowledge was available but was not recognized and utilized during conceptual and schematic design. Structural failures impose risks to society (deaths, injuries, financial loss). The seminar was attended by 57 members.

SEI NO was also busy in arranging the Annual Herbert J Roussel, Jr. Lecture, “When It All Goes Wrong: Responding to Bridge Member Failures”, for 2018 Louisiana Civil Engineering Conference to be held on September 26-27 at Pontchartrain Convention Center in Kenner. This year the HJR Lecture will be delivered by Dr. Thomas Murphy, PE. (Chief Technological Officer, Modjeski and Masters, Mechanicsburg, PA).

Besides the HJR Lecture Other structural topics are “Buoyant Tower Offshore Platform – Innovative Concept and Design”, “NOLA Concrete: Restoring the Past, Building the Future”, “Changes to 2018 NDS® for Wood Construction”, “ACI 318 Requirements for Controlling Cracking in Structural Concrete”, “Mathews Bridge Emergency Repair” and “Conserving Ancient Sites from the Empire of Alexander the Great”. The detailed program for the 2018 LCECS can be viewed at www.louisianacivilengineeringconference.org .

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 asceseinola@gmail.com. For adding your name to our mailing list, please visit ASCE New Orleans Branch website at www.asceneworleans.org and add name to the email list. Members will be directed to registration page for preregistration to the event. Members could also follow the activities and news of SEI-NO on Facebook @SEINCHAPTER.



Barney Martin, PhD, PE (Left) and Om P Dixit, PE, (Seminar Coordinator) at SEI NO Chapter Annual David Hunter Lecture on May 9 2018 at University of New Orleans



Julie Mark Cohen, PhD, PE, (Left) and Zolan Prucz, PhD, PE, (Seminar Coordinator) at SEI NO Chapter Seminar on June 7 2018 at University of New Orleans

Student Chapter News

LOUISIANA STATE UNIVERSITY

by Lauren Mills
LSU ASCE Secretary

Over the course of the summer, the LSU ASCE chapter has been preparing to host its first annual Bayou Region Career Fair. Many of our officers have been working diligently to assemble information packets that will be sent to over 600 engineering firms from in-state to all around the United States. They are being sent to companies ranging from small to mega engineering firms. Our goal is to have 50 or more companies attend our event. Our chapter is personally inviting students from other chapters including McNeese State University, University of New Orleans, Southern University, and

University of Louisiana at Lafayette. We are currently spreading the word through our social media platforms to ensure that each and every civil or environmental engineering student hears about the opportunity that is being presented to them. Our chapter believes that everyone deserves to find a job before graduation comes around, so we are hoping for a big turnout. We cannot wait to get back to campus this fall to enjoy listening to great speakers at our weekly meetings! Geaux ASCE!

— CALENDAR OF EVENTS —

AUGUST 2018

August 3-5, 2018	Younger Member Leadership Symposium – Reston, VA
September 5-7, 2018	Mississippi Section Meeting – Vicksburg, MS
September 21-22, 2018	Leader Orientation Training – Reston, VA
September 23-24, 2018	President’s and Governors Forum – Reston, VA
September 26-27, 2018	28th Annual Civil Engineering Conference - Kenner, Louisiana
October 11-15, 2018	Society Convention and Board of Direction Meeting – Denver, CO
January 25-26, 2019	MRLC Regions 1, 2, 4, & 5 – Orlando, FL

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

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:





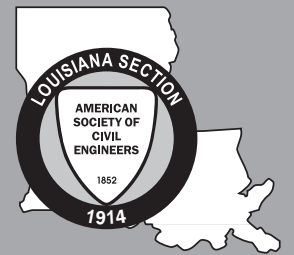




1. SLFPA –East Board: One (1) Vacancy. A Non-Resident for the East Board means anyone who resides in the State of Louisiana or the United States; but, does not reside in either Jefferson or Orleans Parish in that respective portion of these Parishes that is located on the East side of the Mississippi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

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