

## LOUISIANA ENGINEERING FOUNDATION ENDOWED SCHOLARSHIPS

LEF - Civil Engineering Scholarship . . . . .	\$517.50
James and Margaret Mohr Civil Engineering Scholarship . . . . .	\$3,065.00
Waldemar Nelson Scholarship . . . . .	\$1,010.00
Charles L. Eustis, PE Scholarship . . . . .	\$500.00
NSPE Hurricane Katrina Scholarship . . . . .	\$720.00
NSPE Hurricane Rita Scholarship . . . . .	\$720.00
CSRS Scholarship for Minority Student in Civil Engineering . . . . .	\$1,012.50
LES - Alexandria Chapter Scholarship . . . . .	\$1,105.00
LES - Baton Rouge Chapter Scholarship . . . . .	\$500.00
LES - Lafayette Chapter Scholarship . . . . .	\$500.00
Badeaux Engineers Civil Engineering Scholarship-ULL . . . . .	\$500.00
Badeaux Engineers Civil Engineering Scholarship-LSU, BR . . . . .	\$500.00
Dr. Bobby Price, PE Memorial Professional Engineering Scholarship . . . . .	\$500.00
The Shaw Group, Inc. . . . .	\$500.00
LES Scholarship . . . . .	\$500.00
Lazenby & Associates, Inc. Scholarship . . . . .	\$500.00
ASCE Louisiana Section Scholarship . . . . .	\$500.00
LES - New Orleans Chapter Scholarship . . . . .	\$500.00
Albert "Al" Johnson Dunn PE, PLS . . . . .	\$1,000.00
Albert "Al" J., Jerri H., David Scott Dunn . . . . .	\$1,000.00
J Madison "JM" Drake Scholarship . . . . .	\$500.00
Vincent Forte Graduate Fellowship . . . . .	\$2,000.00
Dr. Thomas S. Leary Engineering Scholarship . . . . .	\$500.00
LES - Bayou Chapter Scholarship . . . . .	\$500.00

*Consider contributing to one of the existing Endowed Scholarships or creating one of your own - worthy tax deduction!. Endowed Scholarship application deadline is December 15th.*

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Message from  
the Chairman

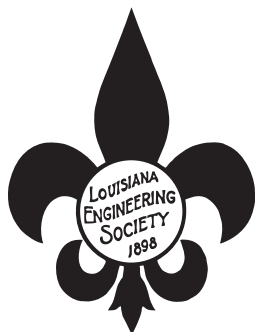
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## Louisiana Engineering Society

9643 Brookline Avenue, Suite 116, Baton Rouge, LA 70809-1488

Telephone: (225) 924-2021, Fax: (225) 924-2049

E-mail: [les@les-state.org](mailto:les@les-state.org)

Website: <http://www.les-state.org>



## American Council of Engineering Companies of Louisiana

9643 Brookline Avenue, Suite 112, Baton Rouge, LA 70809-1488

Telephone: (225) 927-7704, Fax: (225) 927-7779

E-mail: [acecl@acecl.org](mailto:acecl@acecl.org)



## Louisiana Professional Engineering and Land Surveying Board

9643 Brookline Avenue, Suite 121, Baton Rouge, LA 70809-1488

Telephone: (225) 925-6291, Fax: (225) 925-6292

Website: [www.lapels.com](http://www.lapels.com)



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### LES ADVERTISING RATES

SIZE	COST PER ISSUE	COST PER YEAR
Full Page Inside	\$1,200	\$3,840
Full Page Back Cover	\$1,500	\$4,800
1/2 Page	\$700	\$2,240
1/4 Page	\$420	\$1,344

- 1) Prices quoted apply to camera-ready copy. A one-time charge will be added for composition of an ad, art work, or if changes are made during the contact period.
- 2) All ads must be prepaid. Advertisements with payment should be sent to LES by the 15th of the month preceding month of issue.
- 3) Published quarterly, February, May, August and November.

### PUBLICATIONS COMMITTEE

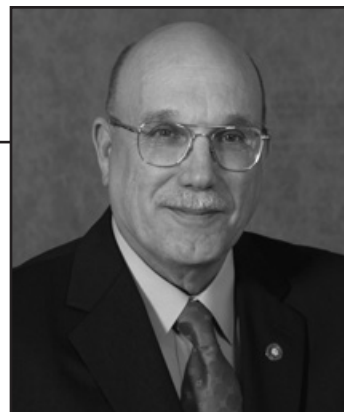
Brenda Gajan, *Managing Editor*

Dan Mobley, *Associate Editor*

The Louisiana Engineering Society, the Louisiana Professional Engineering and Land Surveying Board, and the American Council of Engineering Companies of Louisiana do not guarantee the accuracy of statements made or necessarily concur with opinions expressed in the publication.

# MESSAGE FROM THE CHAIRMAN

Theodore H. Thompson, PE



Theodore H. Thompson, PE  
*Chairman*

"...safeguard life, health, and property and to promote the public welfare...."

As I start the second half of my term, I will continue with my policy of informing you of our board activities. Members and staff of the board attended the National Council of Examiners for Engineering and Surveying (NCEES) Annual meeting in Colonial Williamsburg, this past August. One of the more notable items voted upon was that the Professional Exam for Surveying will be computer based testing beginning in 2016. A motion was passed that required exam question writers hold an active registration/licensure status in their profession and not retired.

At last year's meeting NCEES members voted to remove the BS +30 from the model rules, as a future engineering education requirement. This year we (NCEES members) voted to approve the BS +30 as a position statement, as a goal for the required level of engineering education needed for licensure.

During this year's meeting, our board member Chris Knotts was elected as secretary-treasurer of the Southern Zone of NCEES. If I recall correctly, Chris is the first Louisiana board member elected to an NCEES position, since our board members were restricted to serving only one six-year term. Our congratulations go to Mr. Knotts.

I wish I had more time and space to convey to our registrants and applicants how all of the organizations work together to insure the public is protected. As a board member, adjunct faculty member, and member of two NCEES committees, I

have become more aware of how the universities, the board, NCEES, and ABET interact to protect the public. None of the organizations restrict our profession; but, they work together, to insure that only those that meet minimum competency requirements are licensed.

The amount of exam question reviews, question rechecks, statistical evaluation of exams completed, cut score reviews, exam audit reviews, and procedural reviews that NCEES goes through to insure that accuracy of exams and operational procedures is amazing; far beyond what I have observed in a number of professions that I have worked in.

For those who are interested in serving as a LAPELS board member, the Louisiana Engineering Society and the Louisiana Society of Professional Surveyors receive applicants from prospective candidates and forward a list of five recommendations to the governor for the next vacancy. Please be aware that LAPELS is a working board and each member's time commitment ranges from 50 to 120 hours every two months.

Recent LAPELS board actions include:

A review of:

- 87 EI certification applications
- 58 Firm Applications
- 126 Comity applications
- 46 PE exam applications, includes Part I, Part II and Full Exam Applications
- 16 Reinstatement applications

Board enforcement cases will be covered elsewhere in this issue.

*continued on next page*

## UPCOMING BOARD MEETINGS

**November 16, 2015 – Baton Rouge**

**January 19, 2016 – Baton Rouge**

## Board Members

Theodore H. Thompson, PE  
*Chairman*

Kevin E. Crosby, PE, PLS  
*Vice Chairman*

David L. Patterson, PLS  
*Treasurer*

John W. 'Billy' Moore, PE  
*Secretary*

Terry J. Huval, PE  
Christopher P. Knotts, PE  
Paul N. Hale, PhD., PE

Alan D. Krouse, PE  
D. Scott Phillips, PE, PLS  
Thomas R. Carroll, III, PE, PLS  
Wilfred J. Fontenot, PLS

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## Board Staff

Donna D. Sentell  
*Executive Director*

Richard Savoie, PE  
*Deputy Executive Director*

Tyson Ducote  
*Director of Enforcement*

William Hyatt  
*Board Investigator*

We also initiated the process of a rule change, which will repeal the provision of allowing a waiver of the requirement to take the FE examination, for those applicants that have a PhD in engineering. Board committees are reviewing Rule 1701 regarding personal references, and the CPD committee is reviewing acceptable vendors/hours for renewals.

Our September board meeting was held at Tulane University. Our noon meal for members, faculty and engineering students was served by board members and staff, and cooked by our Deputy Executive Director and Emeritus Member, Richard Savoie. We had a great time interacting with faculty and students. Licensure and education issues were discussed during our meeting with the engineering deans of Louisiana engineering schools.

Future school visits will not be in conjunction with board meetings; however, the visits will continue as special visits by several board members and our Emeritus Cook. We will still be able to interact with faculty and students at these special meetings.

Our next board meeting will be held November 16, at the Engineering Center. (LAPELS and Societies Offices) I encourage you and welcome you to attend our board meetings.

As a television/movie character might say: "Navigate with care, do not use electronic communication devices as you navigate your personal travel conveyance."

## DISCIPLINARY AND ENFORCEMENT ACTIONS

Tyson Ducote, Director of Enforcement



**Tyson Ducote**  
Director of Enforcement

The Board continues to investigate alleged violations of the laws and rules which regulate the practice of engineering and land surveying in Louisiana. Substantiated violations result in disciplinary or enforcement action being taken either through a Consent Order or by Board Decision following a formal hearing at which the respondent is adjudged guilty of one or more violations. Below is a summary of the disciplinary/enforcement actions taken by the Board since the previous issue of the Journal.

### **UNLICENSED OFFER AND/OR PRACTICE OF ENGINEERING OR LAND SURVEYING:**

**Republic National, Inc.**, an unlicensed firm which subsequently became licensed as a professional land surveying firm effective July 30, 2013 (VF-708) and changed its name from "Altamonte Surveying & Platting, Inc." to "Republic National, Inc." on December 10, 2014, was subject to enforcement action by the Board for practicing and/or offering to practice land surveying and using the word "surveying" in its name and in conjunction with its business activities in Louisiana without proper licensure in violation of La. R.S. 37:681 and 37:700(A)(1), (7) and (9), *to wit* LAC Title 46:LXI§2301(B). In January and February of 2013, the firm (a) provided land surveying services in Louisiana in connection with the preparation and issuance to its client of preliminary and final ALTA/ACSM Land Title Survey plats for a project in Louisiana and (b) identified itself on both plats as "Altamonte Surveying & Platting, Inc.". The firm has entered into a Consent Order with the Board, wherein it admitted to the referenced violations of the above laws/rules and agreed to pay a fine of \$2,000; to pay administrative costs of \$583.20; and to the publication of the Consent Order on the Board's website, the printing of a summary of this matter by name in this publication, and the reporting of this matter by name to NCEES.

**Audubon Field Solutions, LLC**, an unlicensed firm which subsequently became licensed as a professional land surveying firm effective August 12, 2015 (VF-742), was subject to enforcement action by the Board for practicing and/or offering to practice land surveying and using the words "survey", "surveys" and "surveying" in conjunction with its business activities in Louisiana without proper licensure in violation of La. R.S. 37:681 and 37:700(A)(1), (7) and (9), *to wit* LAC Title 46:LXI§2301(B). Since at least April 2014, the firm's website for its multi-state business activities did not differentiate its activities within each state and thus it appeared that the firm offered to practice land surveying and used the words "survey", "surveys" and "surveying" in conjunction with its business activities in Louisiana. During said period the firm (a) represented on its website that it offered services which included "a range of mapping, survey, and data services" and specifically listed "professional land survey", "CAD/GIS mapping", "route development", "certified plats", "landowner exhibits/sketches", "preliminary survey", "construction staking", "as-built survey / material inventory", "alignment sheets", "permit drawings", "pipeline and facilities surveys", "mapping", "P/L survey and inspection", "surveying" and "right-of-way", (b) conducted business in Louisiana, (c) maintained offices in Louisiana and (d) employed



individuals in Louisiana. The firm has entered into a Consent Order with the Board, wherein it admitted to the referenced violations of the above laws/rules and agreed to pay a fine of \$2,500; to pay administrative costs of \$444; and to the publication of the Consent Order on the Board's website, the printing of a summary of this matter by name in this publication, and the reporting of this matter by name to NCEES.

**Logical Systems, LLC**, an unlicensed firm which subsequently became licensed as a professional engineering firm effective April 30, 2014 (EF-5516), was subject to enforcement action by the Board for practicing and/or offering to practice engineering in Louisiana without proper licensure in violation of La. R.S. 37:681 and 37:700(A)(1) and (9), *to wit* LAC Title 46:LXI§2301(B). Between November 2013 and March 2014, the firm admittedly provided and/or offered to provide engineering services on five projects in Louisiana. The firm has entered into a Consent Order with the Board, wherein it admitted to the referenced violations of the above laws/rules and agreed to pay a fine of \$2,500; to pay administrative costs of \$647.33; and to the publication of the Consent Order on the Board's website, the printing of a summary of this matter by name in this publication, and the reporting of this matter by name to NCEES.

#### **MULTIPLE LAWS/RULES VIOLATIONS:**

**Tomarco Contractor Specialties, Inc.**, a professional engineering firm (EF-5128), was subject to disciplinary action by the Board for (a) practicing and offering to practice engineering in Louisiana with an expired license in violation of La. R.S. 37:698(A)(9) and (16) and (b) providing engineering services in Louisiana with a firm name which is not the exact firm name contained on the firm's certificate of licensure issued by the Board in violation of La. R.S. 37:698(A)(6), *to wit* LAC Title 46:LXI§2307. The firm's license was in an expired status from April 1, 2013 through September 22, 2013 and during this time period the firm (not realizing that its license was expired) admittedly offered to provide engineering services in Louisiana and provided engineering services on approximately 26 tasks on two buildings in Louisiana. Additionally, in connection with said tasks, the firm provided engineering services in Louisiana under the name of "International Seismic Application Technology", which was the name of one of the firm's divisions. The firm contends that its providing of engineering services in Louisiana under the name of "International Seismic Application Technology" was not knowingly done with an intent to avoid any applicable law or rule or to deceive or mislead anyone. The firm also claims that one of its administrative employees negligently, and contrary to the express instruction of the firm's supervising professional, failed to mail to the Board the materials necessary to renew the firm's license. The firm has entered into a Consent Order with the Board, wherein it did not dispute that its conduct (if proven to be true)

would constitute violations of the above laws/rules and it agreed to pay a fine of \$1,250; to pay administrative costs of \$811.25; to pay past unpaid renewal fees of \$135; to have its supervising professional successfully complete the Board's online Louisiana Laws and Rules Quiz; and to the publication of the Consent Order on the Board's website, the printing of a summary of this matter by name in this publication, and the reporting of this matter by name to NCEES.

**Leonard H. Hirsch, PE**, a professional engineer (PE-31854), was subject to disciplinary action by the Board for (a) gross negligence and/or gross misconduct in the practice of engineering in Louisiana in violation of La. R.S. 37:698(A)(2), (b) approving and sealing design documents which were not safe for public health property and welfare, which were not complete and accurate, which were not in conformity with accepted engineering standards or practice, and/or which did not conform to applicable laws and ordinances in violation of La. R.S. 37:698(A)(6), *to wit* LAC Title 46:LXI§2503(C), (c) sealing, signing or issuing engineering documents not prepared by the licensee or under his responsible charge in violation of La. R.S. 37:698(A)(6), *to wit* LAC Title 46:LXI§2503(C) and (D), 2505(C) and 2701(A)(3) and (d) failing to place the appropriate disclaimer on preliminary documents in violation of La. R.S. 37:698(A)(6), *to wit* LAC Title 46:LXI§2701(A)(4)(b)(i). In 2013, Mr. Hirsch sealed, signed and issued engineering design drawings for the remodeling of an existing building in Louisiana which were submitted to the Louisiana State Fire Marshal for review and which contained material deficiencies. The drawings were prepared by an unlicensed person who was not employed by Mr. Hirsch. Mr. Hirsch did not exercise responsible charge over the preparation of the drawings by the unlicensed person and did not perform any calculations in connection with the drawings. Although Mr. Hirsch claimed that the drawings were only preliminary, they did not contain the requisite preliminary work disclaimer. Mr. Hirsch has entered into a Consent Order with the Board, wherein he admitted to the referenced violations of the above laws/rules and agreed to pay a fine of \$2,500; to pay administrative costs of \$546.78; to successfully complete the Board's online Louisiana Laws and Rules Quiz; to successfully complete the Board's online Louisiana Professionalism and Ethics Quiz; to immediately cease and desist committing any of the violations referenced in the Consent Order; and to the publication of the Consent Order on the Board's website, the printing of a summary of this matter by name in this publication, and the reporting of this matter by name to NCEES.

**Samuel D. Cole IV, PE**, a professional engineer (PE-33204), was subject to disciplinary action by the Board for (a) practicing and offering to practice engineering in Louisiana with an expired license in violation of La. R.S. 37:698(A)(9) and (16) and (b) using any advertising or solicitation which is false or misleading in violation of La. R.S. 37:698(A)(11).

Mr. Cole's license was in an expired status from October 1, 2009 through February 23, 2015 and during this time period he admittedly (a) offered to provide engineering services in Louisiana and provided engineering services for two companies in Louisiana and (b) represented himself on his LinkedIn page as a "PE", "consulting engineer" and "principle engineer" in Louisiana. Mr. Cole has entered into a Consent Order with the Board, wherein he admitted to the referenced violations of the above laws/rules and agreed to pay a fine of \$5,000; to pay administrative costs of \$547; to pay past unpaid renewal fees of \$495; to successfully complete the Board's online Louisiana Laws and Rules Quiz; to successfully complete the Board's online Louisiana Professionalism and Ethics Quiz; and to the publication of the Consent Order on the Board's website, the printing of a summary of this matter by name in this publication, and the reporting of this matter by name to NCEES.

#### **AIDING OR ASSISTING ANOTHER PERSON IN VIOLATING LAWS/RULES OF THE BOARD:**

**Anthony A. Rubalcava, PE**, a professional engineer (PE-37291), was subject to disciplinary action by the Board for aiding or assisting another person in violating the laws and/or rules of the Board in violation of La. R.S. 37:698(A)(12). From April 1, 2013 through September 22, 2013, Tomarco Contractor Specialties, Inc.'s professional engineering firm license was in an expired status and during this period the firm (not realizing that its license was expired) admittedly offered to provide engineering services in Louisiana and provided engineering services on approximately 26 tasks on two buildings in Louisiana. Additionally, in connection with said tasks, the firm provided engineering services in Louisiana under the name of "International Seismic Application Technology", which was the name of one of the firm's divisions. Mr. Rubalcava contends that the firm's providing of engineering services in Louisiana under the name of "International Seismic Application Technology" was

not knowingly done with an intent to avoid any applicable law or rule or to deceive or mislead anyone. Mr. Rubalcava also claims that one of the firm's administrative employees negligently, and contrary to the express instruction of the firm's supervising professional, failed to mail to the Board the materials necessary to renew the firm's license. Mr. Rubalcava failed to verify that "International Seismic Application Technology" was properly identified as a division of the firm where required by Louisiana laws and/or the rules of the Board and failed to confirm that the firm's license renewal was properly completed prior to practicing or offering practice engineering in Louisiana between April 1, 2013 and September 22, 2013. Mr. Rubalcava was an employee and the supervising professional of the firm. Mr. Rubalcava has entered into a Consent Order with the Board, wherein he did not dispute that his conduct (if proven to be true) would constitute violations of the above laws/rules and he agreed to pay a fine of \$750; to pay administrative costs of \$721.25; to successfully complete the Board's online Louisiana Laws and Rules Quiz; to successfully complete the Board's online Louisiana Professionalism and Ethics Quiz; and to the publication of the Consent Order on the Board's website, the printing of a summary of this matter by name in this publication, and the reporting of this matter by name to NCEES.

## **LAPELS ACCOUNTING MANAGER EVELYN MAYEUX RETIRES**

**M**iss Evelyn has close to 35 years of service with the state and has been with LAPELS since 2000. During her time with LAPELS she's worked with many board and staff members and much of her time was spent keeping us all in line reviewing our timesheets, calculating payroll and our expense reimbursements.

She has big plans to fill her time after LAPELS. She and her husband David have 6 children, 12 grandchildren and 2 great

grandchildren, so there are plenty of options to keep her busy.

Congratulations Miss Evelyn. You've been a wonderful employee and friend and we appreciate your years of dedication and service to LAPELS. Enjoy your much deserved retirement.



**Evelyn Mayeux**

# NEW REGISTRANTS

*Congratulations to the following newly licensed and certified for the period of 7/28/15 through 10/15/15*

## LAND SURVEYOR INTERNS

Muonwe, Ugochukwu Anthony, LSI  
Patterson, Stephen Leslie, LSI  
Smith, Barrett Powell, LSI

## SURVEYING FIRMS

Audubon Field Solutions, LLC, VF  
Lester Martin Jr & Associates LLC, VF  
North Louisiana Surveying and Mapping, L.L.C., VF

## ENGINEER INTERNS

Abdelbaqi, Ashraf Jamal, EI  
Abralde, Aydenis, EI  
Abughazleh, Ali Q., EI  
Agar, Justin James, EI  
Aleshire, Monica Leigh, EI  
Alexander, Caleb Allen, EI  
Andrus, Taylor Stone, EI  
Angwafo, Solomon Anye, EI  
Arthur, Paul, EI  
Aucoin, Courtney Paige, EI  
Aymond, Daniel Joseph, EI  
Bakare, Olanrewaju Yusuf, EI  
Barras, Matthew David, EI  
Bauer, Matthew Alan, EI  
Begnaud, Brinn Elliott, EI  
Boiteau, Jacques Robert, EI  
Burgess, Matthew Gil, EI  
Cagle, Samuel A., EI  
Cameron, Michael Howard, EI  
Campbell, Mollie Mikaela, EI  
Cannon, James Allan, EI  
Clesi, Daniel Evan, EI  
Colclough, Brennan O'Brien, EI  
Cook, Christa Lynn, EI  
Costanza, Devon Thomas, EI  
Crnko, Ross Alan, EI  
Curry, Michael Clesi, EI  
Cusimano, Gabriel Michael, EI  
Daigle, Michael James, EI  
Day, Brittany Marie, EI  
De Grau-Vidal, Luis Enrique, EI  
Deaton, Bradley Thomas, EI  
Denny, Rebecca Laine, EI  
Diamond, Erica Paige, EI  
Doucet, Bryan James, EI  
Dupre, Kailey Michelle, EI  
Duran Tapia, Claudia de Lourdes, EI  
Eaves, Cody D., EI  
Fauchaux, Cody Lee, EI  
Frederick, Isaac Paul, EI  
Garcia, Roberto Andres, EI  
Gatson, Anshaun Latrell, EI  
Hammad, Mohammad A., EI  
Hatten, Chad Randall, EI  
Henry, James Hunter, EI  
Hernandez, Michael A., EI  
Herrington, Kelsey Elizabeth, EI  
Hurst, Gregory Thomas, EI  
Iverson, Laura Michelle, EI  
Jarrett, Neil Alan, EI  
Khan, Md Adnan, EI  
Kight, Kyle Ray, EI  
Klare, Robert Wesley, EI  
Koehl, Kimberly Alexandra, EI

Kragle, Tyler Joseph, EI  
Lauga, Trinity Matthew, EI  
Lawson, Pollard Frederick, EI  
Lee, Collin Wen Aw, EI  
Leger, Ethan Pryce, EI  
Lowe, Anais Renee, EI  
Luby, Mark Ethan, EI  
Mace, Phillip Ray, EI  
Marchand, Adam Paul, EI  
Marshall, James Clifton, EI  
McDonald, Aaron Charles, EI  
Michel, Logan Paul, EI  
Moore, Sean Patrick, EI  
Mosquera Castro, Manuel Guillermo, EI  
Nguyen, David Tuan, EI  
Nunez, Eduardo Xavier, EI  
Odenthal, Katherine Sloan, EI  
Ouedraogo, Anasse Razak, EI  
Pollock, Zachary Joseph, EI  
Porpora, Maegan Mary, EI  
Portillo-Ruiz, Alfredo David, EI  
Rayfield, Elizabeth N., EI  
Reed, Charles Taylor, EI  
Regel, Eric Kinsey, EI  
Rhodes, Wesley Paul, EI  
Rincon, Guillermo Jose, EI  
Rogers, Christopher Peter, EI  
Romero, Andre Michelle, EI  
Roniger, Mitchell Dennis, EI  
Sewell, Mitchell Drake, EI  
Sharma, Roshan, EI  
Sigwald, Tyler Franklin, EI  
Slowley, O'Brain Theodore, EI  
Smalley, David Arnold, EI  
Steinbeiser, Krista Marie, EI  
Stevenson, Joshua Lee, EI  
Suberbielle, Brian Gregory, EI  
Tate, Alice Bergeron, EI  
Thurmond, Patrick Andrew, EI  
Todd, Joshua Ryan, EI  
Trahan, Jessica Carolyn, EI  
Tullier, Benjamin James, EI  
Villarrubia, Blake Joseph, EI  
Virgets, Thomas Chase, EI  
Wedig, Paul James, EI  
Wheeler, Zaanah Elijah Winsor, EI  
White, Steven Kelly, EI  
Wiseman, Timothy Patrick, EI  
Wright, Timothy Eric, EI  
Yell, Zachary Caleb, EI  
Yin, Hang, EI  
Zuniga, Claudia C., EI

## PROFESSIONAL ENGINEERS

Abdullah, Ehsan, PE  
Algina, David James, PE  
Atkins, Todd Howard, PE  
Bailey, Jamie Lewis, PE  
Barcus, Brian Scott, PE  
Barrentine, Michael Derek, PE  
Bartok, Blake Alan, PE  
Batten, Thomas J., PE  
Beamon, Daniel Paul, PE  
Beane, Samuel Sidney, PE  
Berry, Steve Eugene, PE  
Bethurum, William Johnson, PE  
Boatman, Andrew Joseph, PE  
Bourg, David Michael, PE  
Brant, Logan Christopher, PE  
Carpenter, Lillie Deloris, PE  
Castille, Brian Gerard, PE  
Cate, Joseph Lorin, PE  
Chang, Andrew Yu-hao, PE  
Chapman, Glenn William, PE  
Chen, Tianyi, PE  
Clark, Michael Dean, PE  
Clark, Shelley Rose, PE  
Clayton, Robert John, PE  
Clendenin, Michel Joseph, PE  
Cole, Perry Richard, PE  
Collier, Matthew Michael, PE  
Collins, Michael Patrick, PE  
Couvillion, Kalan Paul, PE  
Crawford, Stephen Michael, PE  
Crisp, Brian Robert, PE  
Cusimano, Joshua Michael, PE  
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Dehon, Daniel Douglas, PE  
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Dickey, Melanie R., PE  
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Dirham, Thomas Richard, PE  
Etchison, Andrew C., PE  
Farahani, Mohsen Mastari, PE  
Felder, Ryan James, PE  
Fenter, Tommy Dean, PE  
Finch, Chauncey E., PE  
Fisbel, David Charles, PE  
Floyd, Mason Thomas, PE  
Foerg, Wolfgang Michael Marco, PE  
Gentz, Barry Joseph, PE  
Gerges, Rafik Refaat, PE  
Gibbons, James A., PE  
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Hargens, Jeffrey David, PE  
Hemann, Michael John, PE  
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Johnson, Rian Michael, PE  
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Leroy, Paul Garrett, PE  
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Lyon, Lance L., PE

Maldonado, Rachel Hawkins, PE  
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# PRESIDENTIAL PRIVILEGE

Heather R. Klingman, PE

Anyone involved in LES at the state or local level knows that increasing membership is one of our main goals every year. There have been many long discussions at state board meetings about inventive ways to get Engineers involved in the society and pleas made at local chapter meetings for members to get co-workers to attend meetings in hopes of joining. With the seemingly ever decreasing number of students graduating in the engineering field, declining membership is a valid and serious concern. After all, what good can the Society do for our profession if we don't have the members to support the cause?

Over the last year, LES has made great strides towards this end and I would like to take this opportunity to highlight one of the programs that we have put in place to make it easier for government employees to become members of LES, The Affiliate Program.

The Affiliate Program is offered to all governmental agencies and was established as a way for government engineers to further develop and foster communication, networking, and collaboration between public and private sector engineers. Employees of government agencies that join the Affiliate Program enjoy benefits such as electronic correspondence from LES state and local chapters; invitations to local chapter meetings; reduced registration fees to all LES State Conferences; reduced registration fees to all LES sponsored PDH opportunities; and the ability to serve in an advisory capacity on state and/or local chapter committees. All of these benefits come with a reduced annual fee of \$100.00.

We all owe a special thank you to Chris Knotts for his tireless efforts in spearheading this campaign. Chris was

instrumental in kicking off the program last year, and he has continued to market and support the program since then to various governmental agencies. At the 2014 JESC conference, LES was proud to welcome LaDOTD's Secretary, Ms. Sherri LeBas, as an honored guest when she signed LaDOTD on as the first governmental agency to join the Affiliate Program. I would like to take this opportunity to thank Secretary LeBas and DOTD for stepping out as the first agency in support of this great program.

Since LaDOTD signed on in January of 2014, we have had several other agencies join the program that we would also like to give a special thanks to: City of Baton Rouge – Parish of East Baton Rouge, City of Shreveport, Coastal Protection & Restoration Authority, LA Department of Health & Hospitals, Louisiana Department of Environmental Quality, Louisiana Department of Natural Resources, Lafayette Consolidated Government Public Works Department, and the USDA Natural Resources Conservation Service.

I would encourage any engineers interested in joining the affiliate program to visit the LES website at [www.les-state.org](http://www.les-state.org) for additional information and applications. Also, if your agency is not currently in the program, but would be interested in joining, please contact any LES State Board Member or the LES State Office and we will gladly work with your agency through the process.



**Heather R. Klingman, PE**  
*Louisiana Engineering Society President*

## CALENDAR OF EVENTS

### November 2015

- 2 Nominations for LAPELS Board Vacancies begins
- 6 Honors & Awards nominations deadline
- 13 LES Board Meeting & Honors and Awards Meeting – LES State Office

### January 2016

- 15 Deadline for copy, Louisiana Journal February issue
- 19 LES Board Meeting – Lafayette, LA
- 19 LES Board Meeting – Lafayette, LA
- 20-21 20th JESC Conference and Honors & Awards Spring Meeting – Lafayette, LA



## Spread the Word about LES!!!

*Sponsor a new LES Member by inviting your colleagues to join you as a member of the only organization representing the interest of all engineering professionals.*

- Invite them to join you at a chapter event
- Encourage them to visit the LES and NSPE websites
- Send the State Office a list of colleagues you would like to nominate for membership and we will send them membership information.

***We appreciate your participation in membership recruitment!***



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# SOCIETY NEWS

**Brenda Gajan**, LES Executive Director



## WELCOME NEW MEMBERS

### Alexandria Chapter

Jessica L. Vanderlick, EI Associate Member  
Tyler E. Gaspard, EI Associate Member Under 30  
USDA Natural Resources Conservation Service, Affiliate Agency  
Nina C. McDaniel, EI, Affiliate

### Baton Rouge Chapter

Linda Cross, EI Associate Member Under 30  
Ronald A. May, PE Member  
Corey J. Blanchard, PE Member  
City of Baton Rouge – Parish of East Baton Rouge, Affiliate Agency  
Coastal Protection & Restoration Authority, Affiliate Agency  
LA Department of Health and Hospitals, Affiliate Agency  
Louisiana Department of Environmental Quality, Affiliate Agency  
Louisiana Department of Natural Resources, Affiliate Agency

Louisiana Department of Transportation and Development, Affiliate Agency  
Joshua P. Stutes, PE, Affiliate  
Edward M. Knight, Affiliate

### Lafayette Chapter

Matt LeBlanc, PE Member  
Robert W. Willie, EI Associate Member Under 30  
Drew K. Callahan, Student Member

### Lake Charles Chapter

Jiewu Meng, PE  
Beau Hunter Istre, PE, Affiliate

### Monroe Chapter

David Pardue, PE Member

### New Orleans Chapter

Hatch Mott MacDonald, Corporation Sustaining  
Julia B. Guidry, EI Associate Member Under 30

Dinika Singh, Student member  
Margaret B. Hayes, Student Member  
Tiffany J. Lou, Student Member  
Michael T. Kosson, Student Member  
Wilson O. Jeter, Student Member  
Gina M. Goorley, Student Member  
Anthony M. Machan, Student Member  
Max R. Weinerman, Student Member  
Cory R. Simpleman, Student Member  
Sheila S. Wright, Student Member  
Mary K. Hollera, Student Member

### Shreveport

Stephanie Ann Semple, EI Associate Member Under 30  
William R. White, PE Member  
Richard R. Rodgers, PE Member  
Taylor M. Goldman, PE Member  
Christopher S. Ludwig, PE Member

## ALEXANDRIA CHAPTER

By Heath McGuffee, PE

Our year is off to a good start here in the big Town of Alexandria. Our new officers for the year include: Mr. Heath McGuffee, PE, - President, Mr. Kyle Randall, PE – Vice President, Mr. Bill Elliot, PE – 2nd Vice-President, and Mr. Jacob Dillehay, EI – Secretary/Treasurer. Thanks to the new officers for their willingness to serve the profession. We would like to sincerely thank Mrs. Jennifer A. Gemar, PE for her hard work throughout the 2014-2015 year.

Our September meeting jumpstarted the year with a presentation from Mr. John Gagnard, PE of Pan American Engineers. Mr.



Gagnard gave the Alexandria Chapter a presentation/project update on the Fort Buhlow Bridge Project. The Project had encountered multiple hurdles throughout construction, which Mr. Gagnard reviewed in great detail. The finished bridge will provide a new 4-lane bridge to speed up commerce and traffic between Alexandria and Pineville.

For the October meeting, Mr. Billy Moore, PE was present to deliver Certificates to new EI, PE, and PLS in our Chapter area. We would like to congratulate the new registrants state wide. While in attendance, Mr. Moore also gave the annual Ethics presentation. We would like to thank Mr. Moore for taking the time to be here in Alexandria.

As a reminder, the Alexandria Chapter will be hosting the Annual Joint Engineering Society Conference this year, and registration has begun. The conference is in Lafayette on January 20 and 21, 2016. Anyone looking for more information regarding this conference and all the forms needed for anyone interested in speaking, exhibiting, or becoming a sponsor can contact Mrs. Brenda Gajan at the LES main office. This is a great way to earn PDH credits and network with engineers from all over the state. Please mark your calendars for this event and we look forward to seeing you there.



# BATON ROUGE CHAPTER

By Jacob M. Loeske, PE

The cool fronts are beginning, the outdoorsmen are in camouflage, the Fournette show and Heisman watch are in full swing, and the LES Baton Rouge Chapter has had a busy fall with many events consisting of the LSPS/LES-BR joint social and ethics hour, the annual Sporting Clay Tournament, and the License Ceremony and Luncheon. Aside from the two weeks we all call spring, this is my favorite time of year!

Our September luncheon, featuring representatives from Kean Miller Attorneys at Law, provided insight to important provisions in contracts (indemnity, limitations of liability) and recent developments in Louisiana's Public Bid Law. The engineering profession tends to overlook the contractual engagements with eyes on the prize of the next great design. However, every great design project begins with the very important step of contract negotiations and understanding the terminology that will make that project a success.

The LES Baton Rouge Chapter has teamed with the Louisiana Society of Professional Surveyors (LSPS) to host a joint meeting, social, and ethics hour. We thank Mr. Richard



Savoie for wearing two hats at this event, Executive Chef having prepared his world-famous Jambalaya and Deputy Executive Director of LAPELS still having time to present an ethics session.

The LES-BR Chapter also hosted two more events in October. The 4th Annual Sporting Clay Tournament at Hunters Run was a great time with 19 teams competing. Each year the event has become better and better - only wish I could say the same about my shooting! Our October luncheon was held at Juban's Restaurant and consisted of the fall licensing ceremony for all those engineers and surveyors who passed either the Fundamentals or Professional Exam. Congratulations to all as this is a huge milestone in your professional career! Mr. Jeffrey Burst, LADOTD Project Management Director, was our guest speaker presenting an update on the Alternative Delivery Methods.

On November 12th, we will be teaming with the LSU Student Chapter to host the 22nd Annual LSU/Southern Student Function. The LES-BR Chapter will not be hosting a luncheon in November, but are asking that all practitioners attend this event to meet our future engineers in a social setting. There will also be an opportunity to earn an Ethics PDH prior to the social. If you missed the joint meeting with LSPS, luckily you will have a second chance to get a plate of Mr. Richard Savoie's mouth-watering jambalaya! This will be a FREE event for all of the students and LES members. More details can be viewed on our website at <http://www.les-state.org/brchapter/>.



# SHREVEPORT CHAPTER

By Tyler Comeaux, PE

The Shreveport Chapter had its Fall Licensing Ceremony during the October 26, 2015 luncheon. Congratulations to the new licensees in achieving a great step for their professional career! Thanks again to Ali Mustapha for presenting the certificates to the licensees and to everyone who came to the licensing ceremony in support of our new local licensees. In addition to the presentation of licensures, William "Joey" Smith gave a great presentation on the recent changes within the DHH regulations as well as the additional future changes that are expected. The presentation was very informative and generated further discussions after the meeting. For our November 11th chapter luncheon, we will be hosting Dr. Hisham Hegab, Dean of Louisiana Tech's College of Engineering and Science, who will be discussing the past and future news within La Tech's engineering school.

We would also like to welcome anyone wanting to participate in our yearly raffle which provides a scholarship(s) to a local engineering student. This year we will be raffling an Apple iPad and

two (2) yeti 35 quart ice chest. Raffle tickets are \$5 a piece or \$20 for a booklet of five (5) tickets. If you are interested in buying tickets, please contact Tyler Comeaux at [tcomeaux@bkusa.com](mailto:tcomeaux@bkusa.com) or (318) 222-5901. Thanks again to our sponsors, Utiliserve, Pulley Construction, and Compliance EnviroSystems, for providing this year's prizes. The drawing for the raffle winners will be held at our yearly banquet on February 26, 2015 (winner need not be present).





## BAYOU CHAPTER

By Chad Hadaway, PE

Fall has finally arrived! It sure is wonderful to walk outside and have turn around to grab your light jacket for the morning commute.

The Bayou Chapter has completed experimenting with its meeting format during the September and October meetings. First, we moved the chapter meeting to a central location ensuring that the majority of the members have equal travel time. Second, we added regional, elected officials as the program speaker. Third, we moved the evening licensing ceremony to coincide with our lunch chapter meeting. And finally, we adopted an informal meeting agenda unless there are issues to be voted on.

At our September 28th chapter meeting, we welcomed Lafourche Parish President, Charlotte Randolph who presented on the BP settlement funds and its impact on coastal restoration projects. Roughly 30% of the chapter attended which is up 22% from the April 1st chapter meeting.



At our October 19th chapter meeting/fall licensing ceremony, we welcomed State Senator, Norby Chabert who presented on the upcoming 2016 legislature session and the budget issues affecting construction. Also during this meeting, we welcomed LES Executive Director, Brenda Gajan and LAPELS Board Member, Wilfred Fontenot who conducted the Fall Licensing Ceremony with the assistance of LES President, Heather Klingman and LSPS District 2 Chairmen, Gerald Legendre. New registrants congratulated were Will Cenac, PE, Paul Olivier, PE, Jason Chauvin, PE, and Jacob Callais, PLS. Total attendance was up 300% from the Spring Licensing Ceremony.

From the above results, future Bayou Chapter member participation appears to be on the rise and we will continue to experiment with bridging the gap between our experienced members and our newest members. For those of you who attended Philip Zimmerman's presentation "Radically Enhancing Engagement, Productivity and Loyalty of Millennial Generation Employees" at the 12th Annual Multi-State Engineering Conference, we were reminded of the challenges that we face in our profession and in our society. Active engagement is one the keys to our future success.

We will be sending out anonymous surveys before our next meeting to attendees of our last two chapter meeting. Surveys will be sent via email and we ask that you give honest feedback on how we can improve your meeting experience.

## MONROE CHAPTER

By Brad Anzalone, PE

The Monroe Chapter has gotten off to a great start for the 2015-2016 year! We began our monthly membership meetings on September 10, 2015 in Monroe. Andy Brown with D & W Systems gave a presentation on "Certa-Lok Restrained Joint PVC Pipe". We would again like to thank Andy and his company for their continued support of LES.

Our October meeting was held on October 8, 2015. Josh Graham with Compliance Envirosystems gave a presentation on "Sewer System Evaluation Surveys: From Concept to Construction". We thank Josh for this very informative presentation. During our October meeting we also held our licensing ceremony for all the new registrants within the Monroe area to honor and recognize their accomplishments that they have achieved. We had an good turnout with 26 members, registrants, and guests in attendance. Among our guests were new licensees Jeff Kidd, PE, David Pardue, PE, and David Matlock, PE. Scott Philips represented LAPELS and conducted the licensing ceremony. Brenda Gajan was on hand to represent the State LES office.

Our next monthly meeting will be held on November 12, 2015 at Catfish Cabin in Monroe. Clark York with Contech will be our guest speaker. One of our goals of each meeting is to communicate with our chapter members on continuing

education opportunities and other scheduled events hosted by or available through LES. In addition, each meeting includes a technical presentation by a featured guest speaker, and one (1) PDH is awarded for attendance. Fellowship with our chapter members is also something to look forward to at these meetings. So if you missed our recent meetings consider attending in the coming months. Your attendance is important to the success of our chapter. Also, if you know someone that is not currently a member, please invite them to join us at our next monthly membership meeting. Together we can continue our success by increasing our chapter membership and becoming more involved!







## CAPITOL VIEW

**Haynie and Associates**

**H**aynie and Associates is excited for the opportunity to provide professional governmental relations services to the Louisiana Engineering Society. Much like your historic organization, our company is known for setting the bar in ethics and professionalism and we feel confident that we will make your organization proud in the fashion in which we champion your efforts. Throughout the upcoming year, we encourage all of you to engage with your local legislators and work with us throughout the legislative process. It will take time, money, and strong effort - but will be rewarding for your profession, your local communities and the business climate in our state. With Louisiana's budget in continual deficit, the next Governor and Legislature will be tasked with difficult decisions. On January 11th, 2016 a new Governor and Legislature will be sworn in and leadership and committees will be officially chosen during an organizational session. We anticipate at least one special session during January or February following the inauguration to address the ongoing budget deficits. The 2016 general session is set for March 14th through June 6th and is when legislation affecting LES is most likely to be addressed. In addition to helping LES strengthen its Legislative relationships, Haynie and Associates will monitor all filed legislation of interest and will be reporting regularly to your legislative committees and lobbying on your behalf at their direction. Your engagement in this process will strengthen our efforts and greatly enhance the successes of LES. We are thankful for the trust you put in Haynie and Associates and look forward to success!



*Ryan Haynie, 225-336-4143, ryan@haynie.com, www.haynieandassociates.com*



## SCHOLARSHIP COMMITTEE REPORT

**Susan H. Richard, PE, Scholarship Committee Chair**

**T**his spring, LES provided six \$500 scholarships to engineering students from five Louisiana engineering colleges. The scholarship winners were selected based on their financial need, their academic achievements and their participation in student engineering, civic and community service organizations. Funds for these scholarships came from the through dues check off contributions of LES members and individual donations; one was funded through the Louisiana Engineering Foundation scholarship that was established by LES. We commend these individuals for their hard work.



**Susan H. Richard, PE**  
*Scholarship Committee Chair*

Sixteen applications were received from students at five of Louisiana's seven colleges of engineering. The recipients are:

<b>Jeff Boudreaux</b>	<i>Louisiana Tech</i>
<b>Maxwell Wheelock</b>	<i>Louisiana State University</i>
<b>Dorlissia Robinson</b>	<i>Southern University</i>
<b>Aaron Broussard</b>	<i>University of Louisiana at Lafayette</i>
<b>Shawn Puleo</b>	<i>University of New Orleans</i>
<b>Justine Nguyen</b>	<i>University of New Orleans</i>

We ask that all LES members support engineering scholarship funding through the dues check-off on your dues statement. Your contributions help ensure that engineering education continues to thrive in Louisiana.

# Make PLANS NOW!

## 14th Annual Multi-State Engineering Conference

**June 5-7, 2016**  
**Pensacola Beach**

  
**Hilton**  
PENSACOLA BEACH  
GULF FRONT



# Louisiana Engineering Society Presents: 8 Hour PDH Course - Project Controls Seminar



**Presented by: Anthony L. Lowery**

**Golden Nugget Hotel - Lake Charles, LA**

**Friday, January 29, 2016**

**8:00 AM - 4:00 PM**

Lunch will be served & is included in the registration fee

Project controls are, at this moment, evolving to the highest levels of expertise in the international arena. This course covers paramount subject matter that is crucial as personal skills needed by professional Planners and Schedulers. All project managers should also be aware of these skills that are within their reach. I have personally coined the phrase: 75% of professional planning and scheduling is a personal skill set of knowledge, and the remaining 25% is the graphical depiction of this knowledge.

- IGPC (International Guild of Project Control) is nearly complete with the new International standard. The PMI and AACE are waiting to adopt our standard.
- Characteristics of Professional Planners and Schedulers
- The Theory and Science of Scheduling
- The Theory and Science of Planning
- WBS, the backbone of time & cost accuracy
- Dynamic Scheduling
- Risk Analysis and the Register & Excel Template
- Project SOW & MSWord Template file
- Monte Carlo risks analysis
- PERT worksheets & Excel worksheets
- Cost Management
- Resource Management
- PDM
- CPM (Critical Path Method) & CCPM (Critical Chain Path Method)
- Planning software programs
- Scheduling Software Programs, P3, P5, P6, MSPProject
- Several handouts, including MSWord/Excel Templates
- The "Black Swan"

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

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

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Phone Number: \_\_\_\_\_ Email: \_\_\_\_\_

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Card No: \_\_\_\_\_ Exp. Date: \_\_\_\_\_

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

Mail checks and registration to: Louisiana Engineering Society, 9643 Brookline Ave., Ste. 116 Baton Rouge, LA 70809

You may fax your registration to: (225) 924-2049 or email to [les@les-state.org](mailto:les@les-state.org)

For more information please visit our website: [www.les-state.org](http://www.les-state.org)

If you have any questions, please call the LES office at (225) 924-2021.

**Sorry, no refunds will be given after January 15, 2016**

**Seating is limited to 35 participants, so register now!!**

Call Golden Nugget in Lake Charles (2550 Golden Nugget Blvd, Lake Charles, LA 70601) at 844-777-4653 for room reservations



# 8 Hour PDH Course - Project Management Concepts for Engineers & Facilities Managers

**Presented by: Howard Birnberg**

Wednesday, February 17, 2016

8:00 AM - 4:00 PM



LA DOTD Transportation Training & Education Center  
4099 Gourrier Avenue  
Baton Rouge, LA 70808

Lunch will be served & is included in registration fee

Project delivery options have proliferated in recent years. The roles of project managers have grown along with this proliferation of options. Cost control and on time delivery have become paramount. As a result, project managers must have a wide variety of skills and tools at their disposal. This course covers delivery options, project management systems and models, and presents some of the key activities required of project managers. Learn the latest project management techniques and put them to work immediately!

- Case Studies
- Project Management Concepts
- Problems with weak or ineffective project management systems
- Project Delivery Methods
- Project Delivery Systems
- Characteristics of Strong/Effective Project Managers
- Responsibilities of Strong/Effective Project Managers
- How many Project Managers does your Organization need?
- Defining Responsibility & Authority
- Effective Delegation
- Training & Mentoring Project Managers
- Soft Skills for Project Managers
- Project Management Manuals/Project Notebooks
- Additional Forms/Topics
- Managing Project Quality/Risk management
- Controlling Project Design Costs

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

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

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Phone Number: \_\_\_\_\_ Email: \_\_\_\_\_

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Mail checks and registration to: Louisiana Engineering Society, 9643 Brookline Ave., Ste. 116 Baton Rouge, LA 70809

You may fax your registration to: (225) 924-2049 or email to [les@les-state.org](mailto:les@les-state.org)

For more information please visit our website: [www.les-state.org](http://www.les-state.org)

If you have any questions, please call the LES office at (225) 924-2021.

**Sorry, no refunds will be given after January 15, 2016**

**Seating is limited to 99 participants, so register now!!**



# MATHCOUNTS®

## COUNT ME IN!

The MATHCOUNTS Foundation is celebrating its 33rd year. This program offers hundreds of junior high students a two-part workout to strengthen their numerical know-how and polish their polynomial pride. MATHCOUNTS, a nationwide math coaching competition program, encourages and prepares students to pursue mathematics in high school and beyond by making the subject as fun and exciting as a school sports event.

The MATHCOUNTS programs started in September with the free distribution of MATHCOUNTS "coaching" materials to math teachers nationwide. Materials focus on problem solving, analytical thinking, exploration, and teamwork. Next, throughout the fall, teachers use the prepared "warm ups" and "work outs" as supplement classroom material or as an extracurricular activity to spark seventh and eighth graders interest and achievement in math.

MATHCOUNTS really gets underway in February with local competitions around the state. Winning teams and individuals then progress to the State-level competition held in March. The top students from the state-level competition will finally progress to the national-level competition in May.

The MATHCOUNTS Foundation expects 350,000 students to take part in MATHCOUNTS this year. Since the program began in 1983, over three million students have participated in MATHCOUNTS coaching and competition.

Today's children need every opportunity to achieve in MATH to succeed in the new economy. MATHCOUNTS not only engages

students in creative approaches to learning mathematics, but it also **helps to create tomorrow's problem solvers in all areas of society. Help make MATHCOUNTS available to more students in this new school year! Please consider making a contribution to this worthy program. Remember, contributions are tax deductible.**

For more information about MATHCOUNTS or to obtain a free school coaching kit, contact Brenda Gajan at the Louisiana Engineering Society at (225) 924-2021 or email les@les-state.org.

### 2015 MATHCOUNTS Sponsors

Debra Stewart, Shell Oil Company	David Huval, Huval and Associates, Inc.
Brenda Gajan, Louisiana Engineering Society	Wilfred Barry, SJB Group, LLC
Tony Stackpole, Allan J. Harris Co., Inc.	M & E Consulting, Inc.
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D.W. Jessen, Jr., D.W. Jessen & Associates, LLC	Denmon Engineering Co., Inc.
David Huval, Jr., C.E.C., Inc.	D.B. Graff, CGS Engineering, Inc.
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Andy Craig, Mohr and Associates, Inc.	Michael H. Badeaux, Badeaux Engineers, Inc.
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Justin Haydel, Manchac Consulting Group	
Micha P. Duffy, Coyle Engineering Co., Inc.	Bruce Jordan, Stokes & Spiehler

### 2016 Competition Dates

Chapters: January 30–February 29, 2016

State: March 1-31, 2016

National: May 7-10, 2016  
Washington, DC

### \*Where You're on a Winning Team\* Gift Form

You know that you're on a winning team with MATHCOUNTS. You may have supported us in the past years; if, so, we want to say "THANKS" in a big way! Our fund-raising campaign for 2015-2016 is getting underway, and we hope that you will support us this year. Please pick a team position from below and mail it in by December 31, 2015. MATHCOUNTS is an education program of the Louisiana Engineering Society. The LES Education Fund is a nonprofit tax-exempt 501 (c) (3) corporation. Your contribution is tax deductible, and you will receive an acknowledgement.

#### Select a Team Position

- ☐ The Underwriter (\$5,000)      ☐ The Major Sponsor (\$2,000)  
☐ The State Sponsor (\$1,000)      ☐ The Sponsor (\$500)  
☐ The Contributor (\$250)      ☐ A Supporter (\$150)

☐ Check enclosed for \$ \_\_\_\_\_  
 (Please make checks payable to: LES-State Mathcounts)

☐ Credit Card    ☐ Visa    ☐ Mastercard    ☐ Discover

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Signature \_\_\_\_\_

NAME \_\_\_\_\_

TITLE \_\_\_\_\_

BUSINESS \_\_\_\_\_

STREET ADD. \_\_\_\_\_

PO BOX \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

W-PHONE \_\_\_\_\_ FAX \_\_\_\_\_

EMAIL \_\_\_\_\_

Mail to: Brenda Gajan, State Coordinator, Louisiana Engineering Society - State Mathcounts  
 9643 Brookline Ave., Ste. 116, Baton Rouge, LA 70809, Phone: (225) 924-2021, Email: les@les-state.org

**Thank You! We appreciate your support!**

# LOCATING UTILITIES DURING DESIGN WILL SAVE YOUR MUNICIPALITY MONEY

**Glenn A. Turner, PE**, President Elect, Louisiana Engineering Society

**John W. Moore, PE**, Past President, Louisiana Engineering Society

Professional engineers are called upon every day to design projects in and around municipal rights of way. As we do, the biggest challenge is often working around utility facilities. Municipal projects often require digging and finding conflicts, which result in costly change orders. These conflict surprises could be avoided with proper planning and new technologies available.

Years ago, there was plenty of room in rights of way, so little attention was given to working around existing utilities. If conflicts were encountered, they could usually be worked out during construction. As rights of way have become more crowded, closer attention must be paid to avoiding utilities. Plans are much easier to change on paper than on the ground. Most municipalities have seen a situation where a project was delayed or had to be changed because of a conflict with an existing utility. If you were lucky, the new project could simply be rerouted with no additional cost. If you were less lucky, a change order had to be issued to either reroute the new work or relocate the existing utility. If you were really unlucky, the whole project was shut down because the conflict could not be mitigated. The contractor's change order price is nearly always more expensive than the bid price. Louisiana Engineering Society member engineers are generally working for you. When a project is successful for the municipality it is successful for the engineer, so we want to avoid existing utilities if possible. However, in order to avoid those utilities, the engineer needs to know where they are located.

Louisiana One Call (LA One Call) is an indispensable resource, but often not enough. LA One Call was established to locate utilities during construction and a means of assigning liability if a utility is hit. Although engineers routinely call LA One Call when designing a project, that often does not provide us with the comprehensive and/or accurate information we need. Many utility owners, including some natural gas companies, a few telephone companies, and sadly some municipalities will not come out and locate their utilities during design or surveying of a project. However, how can we avoid those existing facilities if we do not know where they are? We ask that all municipalities locate your utilities when requested by an engineer or surveyor for designing a project. We also ask that municipalities require other utility

owners within your rights of way locate their facilities when requested by an engineer or surveyor.

Getting all of the utilities located during design would help very much, but sometimes we have to "dig deeper" than that. Utility locates, as with LA One Call, is often based on maps and use of a locator tool, but there is no way to verify the quality of the information, the accuracy of the one call marks, or the depth of the utility in question. This is where the field of subsurface utility engineering. It is an ironic coincidence that it has the acronym SUE because the goal of subsurface utility engineering is to avoid being SUEd or to avoid having to SUE someone else! In 2002, the American Society of Civil Engineers (ASCE) adopted Standard 38 – *Standard Guideline for the Collection and Depiction of Existing Subsurface Utility Data*. ASCE 38 is now referenced by over 40 state departments of transportation and recognized as a best practice by Federal Highway Administration, American Public Works Association, Federal Aviation Administration, and other agencies. Two states, Pennsylvania and Minnesota, recognize it in their statutes, and it is now referenced in the Engineers Joint Contract Documents Committee engineering contract documents. ASCE 38 establishes four quality levels of the underground utility infrastructure mapping component of subsurface utility engineering:


- 1) Quality Level D consists of mapping existing utilities based on existing maps, old plans, or record drawings. This works great if the maps are accurate and all of the utilities are shown on the maps. Since there is no direct responsible charge oversight of how the utilities were located, the survey and plotting of one-call marks are sealed at Quality Level D.
- 2) Quality Level C uses the existing maps, but also verifies and/or changes the mapped locations by locating surface appurtenances such as manholes and valve boxes.
- 3) Quality Level B adds subsurface geophysical methods to designate the location of the utilities. This raises the confidence of the accuracy of the maps and its comprehensiveness (i.e. can also find unmapped utilities). There is a huge decrease in uncertainty between Quality Level C and Quality Level B.

- 4) Quality Level A uses the processes and tools from the other quality levels, and then utilities are exposed via non-destructive air-vacuum means. Exposed utilities are then surveyed and plotted on site plan. Quality Level A provides elevations, size, condition, materials, and much more precise horizontal positions.

Yes, there may be an extra cost for the underground utility infrastructure mapping component of subsurface utility engineering. In some cases, your engineer can do all the necessary mapping work for a project as part of the normal surveying and design. On projects where the locations of utilities are more critical, it may be an additional service for the engineer for the additional work. Sometimes, the engineer will need to hire a special subconsultant who specializes in subsurface utility engineering, and who has their own liability insurance. Even though it represents an extra cost in design, subsurface utility engineering will often reap much more in savings during construction. A 2005 study of various projects by the University of Toronto showed that for every one dollar spent on subsurface utility engineering, \$3.41 was saved in project costs. A 2000 study of highway projects showed every dollar spent on subsurface utility engineering produced \$4.62 in savings. A more recent 2010 study by the Pennsylvania State University found a \$22 dollar savings for every \$1 spent on subsurface utility engineering.

It should be noted that subsurface utility engineering is a civil engineering discipline, not a particular process or technology. It is a means of reducing uncertainty and managing risks and matching the amount of effort in locating utilities to the amount of risk. For some projects, Quality Level D or C is adequate, while other projects may require Quality Level B or A. Subsurface utility engineering allows owners and engineers to consider the risks of conflicts with existing utilities up front on a particular project and match the level of effort in locating utilities with those risks.





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<p><u><b>NEW ORLEANS</b></u>            6270 Canal Blvd            New Orleans LA 70124            (504) 875-4662            FAX: (985) 674-9822</p>	<p><u><b>MANDEVILLE</b></u>            3 Sanctuary Blvd., Suite 101            Mandeville, LA 70471            (985) 674-9820            FAX: (985) 674-9822</p>	

*ALABAMA—FLORIDA—GEORGIA—KENTUCKY—LOUISIANA—MISSISSIPPI—SOUTH CAROLINA—TENNESSEE—TEXAS*

# 20th Joint Engineering Societies Conference

## January 20 & 21, 2016

Double Tree by Hilton – Lafayette, LA

Earn 12 Professional Development Hours

**Pre-registration deadline is January 8, 2016**

**NO REFUNDS WILL BE GIVEN AFTER THIS DATE**



Registration Fees include meal & event tickets for Wednesday & Thursday Breakfast, Wednesday Awards Luncheon, Exhibitor Meet N' Greet/Cook-Off and Thursday Lunch N' Learn



Check all that you will be attending:

Registration after 1/8/16

Participating Society Member:	\$200 _____	\$250 _____
Non-Member:	\$300 _____	\$350 _____
Student:	\$ 30 _____	\$ 40 _____
Cook-Off Team Entry Fee:	\$100 _____	\$100 _____

Total fees remitted: \_\_\_\_\_

NAME: \_\_\_\_\_ REG.GRADE: PE \_\_\_\_\_ EI \_\_\_\_\_ PLS \_\_\_\_\_

COMPANY NAME: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

CITY/STATE/ZIP: \_\_\_\_\_

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PLEASE CHECK: VISA \_\_\_\_\_ MASTERCARD \_\_\_\_\_ DISCOVER \_\_\_\_\_ CHECK ENCLOSED \_\_\_\_\_ PAYPAL \_\_\_\_\_

(WE DO NOT ACCEPT AMERICAN EXPRESS)

CARD NO.: \_\_\_\_\_ EXP. DATE: \_\_\_\_\_ SIGNATURE: \_\_\_\_\_

Please circle all technical societies you belong to. If any are not listed, please write them in the blanks. No society membership is required to attend.

ACEC/L AEE AIAA AIChE API ASABE ASCE ASHRAE ASME CSI IEEE IES ISA ITE  
LEF LES LSPS SPE SWE NSPE OTHER SOCIETY: \_\_\_\_\_

For overnight accommodations call the Double Tree by Hilton Lafayette at 1-800-222-TREE. The location is 1521 W. Pinhook Rd, Lafayette, LA 70503. The special conference rate is \$129.00 per room. You must state that you are attending the JESC to receive rate.

**Hotel reservation deadline is January 08, 2016.**

Please fill out the registration form and mail with a check to:

**Louisiana Engineering Society**  
**9643 Brookline Ave., Ste. 116**  
**Baton Rouge, LA 70809**

Fax or Email with credit card:

**(225) 924-2049**  
**les@les-state.org**





# 20th Joint Engineering Societies Conference

## Lafayette, LA

### January 20 & 21, 2016



	<b>Tuesday, JANUARY 19th</b>			
6:00 pm—8:00 pm	<b>LES &amp; LEF Board Meetings - Ashland Room</b>			
	<b>Wednesday, JANUARY 20th</b>			
7:00 am—4:30 pm	<b>REGISTRATION</b>			
7:00 am—9:00 am	<b>Continental Breakfast</b>			
8:00 am - 5:00 pm	<b>LAPELS Board Meeting</b>			
	<b>ROOM</b>	<b>SALON B</b>	<b>SALON C</b>	<b>SALON E</b>
				<b>SALON F</b>
8:00 AM— 8:50 AM	<b>Rhett Sloan, RLS</b> Applying the ASCE's Standard Guideline for the Collection & Depiction of Existing Subsurface Utility Data (CI/ASCE 38-02) to Design Projects	<b>Greg Roache</b> Microbial Induced Corrosion Study and Corrosion Protection	<b>Ben Humphries</b> Variable Frequency Drives- Real Life Demonstration	<b>Laura Campa, PE</b> Leadership Skills
9:00 AM—5:30 PM	<b>EXHIBIT HALL OPEN - SALON A &amp; D</b>			
9:00 AM— 9:50 AM	<b>Randy Haynie</b> How to Effectively Communicate with Your Legislator	<b>Brian Felder &amp; Gareth DiBetta, PE</b> HP Storm Drainage/ Stormtech Retention/ Detention Systems	<b>Brandon Lomasney</b> Concrete Waterproofing by Crystallization	<b>Chris White, PE</b> Minimizing Environmental Exposure to Risks During Renovation & Demolition
9:50 AM— 10:10 AM	<b>BREAK IN EXHIBIT HALL- SALON A &amp; D</b>			
10:10 AM—11:00 AM	<b>Wyatt Sanders</b> You Want Me to Sign What?	<b>Sharon Bradshaw, EI</b> Technology of Adhesive Anchors & the Effects of Varying Field Conditions	<b>Brandon Lomasney</b> Protective Linings for Ductile Iron Pipe	<b>Edgar Benoit, PE</b> Comparing and Contrasting Grounding in NEC & NESC
11:10 AM—12:00 PM	<b>Wyatt Sanders</b> You Want Me to Sign What?	<b>Mark Goodson</b> The Softer Side of Resiliency: Becoming More Resilient by Dealing with Everyday Issues	<b>Rod Scott</b> Understanding Active & Passive Flood Proofing Options for Non-Residential Buildings in a Special Flood Hazzard Area	<b>Andy Brown</b> Air Valves in Municipal Piping Systems
12:00 PM—1:30 PM	<b>AWARDS LUNCHEON -VERMILION ROOM</b>			
1:30 PM—2:20 PM	<b>Glenn A. Turner, PE</b> Formation of Disinfection Byproducts in Groundwater - Supplied Public Water Systems in Louisiana	<b>Allen Cox, PE</b> Ductile Iron Pipe for Wastewater Applications	<b>Don Conrad, PE</b> Fundamentals, Design & Installation of Pipelines	<b>Chad D. Danos, PLA</b> Green Infrastructure: The Economic Environmental Benefits
2:30 PM—3:20 PM	<b>Product Demonstrations</b> Exhibit Hall			
3:20 PM—3:40 PM	<b>BREAK IN EXHIBIT HALL - SALON A &amp; D</b>			
3:45 PM—4:35 PM	<b>Ethics</b> Glenn Kent, PLS			
5:00 - Till	<b>EXHIBITOR MEET &amp; GREET &amp; COOK-OFF EVENT</b>			

	<b>Thursday, JANUARY 21st</b>			
7:00 AM—9:00 AM	<b>CONTINENTAL BREAKFAST</b>			
7:30 AM—12:30 PM	<b>REGISTRATION</b>			
7:30 AM—12:30 PM	<b>EXHIBIT HALL OPEN</b>			
	<b>ROOM</b>	<b>SALON B</b>	<b>SALON C</b>	<b>SALON E</b>
				<b>SALON F</b>
8:00 AM— 8:50 AM	<b>Bart Kemper, PE</b> Contracting Engineering and Construction in Contingency Operations	<b>Myron Katz, Ph.D</b> Grow Your Economy by Cutting Carbon <b>PART 1: IDCC</b>	<b>John F. Hawkins, Jr, PE</b> Sound & Noise: Factors Which Affect our Control of & Response to it	<b>Morrice Blackwell</b> How Technology is Changing the Water Utility Industry
9:00 AM— 9:50 AM	<b>Mary Anne Wolf, PE</b> Review of Contracts for Design Services	<b>Myron Katz, Ph.D</b> Grow Your Economy by Cutting Carbon <b>PART 2: CLEP</b>	<b>Terry Huval, PE</b> Lafayette's "World Renowned" Fiber to the Premise System- How it Works & How it Changed Lafayette	<b>Wynn L. White, PE</b> The Perfect Storm - or What They Don't Tell You About Mold Remediation
9:50 AM— 10:30 AM	<b>BREAK IN EXHIBIT HALL - SALON A &amp; D</b>			
10:30 AM—11:20 AM	<b>Ralph Carpenter</b> Installing Ductile Iron Pipe Using HDD	<b>Michael Samueloff</b> Geosynthetic Paving Interlayers-Improving Life Cycle Pavement Performance	<b>Mark Prevost, PE</b> Madison 3 - Circulating Fluidized Bed Technology	<b>Mitch LeBas, PE</b> Backflow Preventer Selection Criteria
11:20 AM - 11:45 AM	<b>BREAK IN EXHIBIT HALL - SALON A &amp; D</b>			
12:00 PM - 1:00 PM	<b>Code of Governmental Ethics</b> Brett Robinson Lunch N' Learn			
1:00 PM—2:00 PM	<b>Public Bid Law</b> Michael Vallan			
2:00 PM - 3:00 PM	<b>LAPELS Panel Discussion</b> Kevin Crosby Thomas Carroll Paul Hale Chris Knotts Billy Moore Scott Phillips Ted Thompson			

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For questions, contact:  
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# THE SPEC SHEET

**Daniel E. Mobley, CAE**, *Executive Director*  
American Council of Engineering Companies of Louisiana



**Daniel E. Mobley, CAE**

The American Council of Engineering Companies of Louisiana members enjoy resources, benefits and access that non-members envy. That may be why Louisiana, despite being one of the smaller states when it comes to the number of engineering firms, has the ninth largest membership of all state ACEC chapters. Here's a summary of what you get when you become a member of ACECL:

## **Legal and Legislative Advocacy**

ACECL General Counsel Stephen Loeb (<http://www.bswllp.com>) is a recognized expert on The Hammett Act and multiple legal issues that affect our member firms. All ACECL members have access to Stephen's expertise, and his advice and guidance have a tremendous impact on our members' profitability. Through Stephen, ACECL provides legal intervention on issues important to our members, including public bid laws, professional standards, the ADA and proposed legislation.

ACECL professional lobbyist Duane Cowart (<http://www.thecowartgroupinc.com>) is a well-respected advocate with more than 30 years of experience at the state capitol. With Duane's help, ACECL monitors dozens of bills every year and is a major player at the state capitol on issues that affect nearly every aspect of the engineering community's business, including professional standards, infrastructure funding, the procurement process and taxes.

For example, ACECL helped pass and rigorously supports enforcement of The Hammett Act, which prohibits Louisiana government agencies from using price as a factor in procuring "design professional services." The Hammett Act also prohibits agencies from even requesting price quotes on such services. ACECL continues to monitor agencies across the state and often intervenes on behalf of our member firms when we find possible violations of the act. In 2014, we were instrumental in strengthening the law to specifically define what a "design professional" is.

ACECL also helped write and pass the Construction Management at Risk (CMAR) delivery method of procuring engineering services on public projects. The CMAR law allows public agencies to design and build large projects on an expedited time frame by using a collaborative process in which the owner, designer and contractor work together

ACECL regularly participates in Washington, D.C. fly-in sessions with members of Congress, where we have emerged as a consistent and valuable voice to lawmakers, who decide on issues of vital importance to our industry. We take positions based on what our member firms say is important to them. Simply stated, when our members talk, public officials listen.

## **Public-Private Partnerships and Professional Involvement**

ACECL has a major voice in the public arena, and we use that voice to further our member firms' interests. Recognizing that DOTD's consultant contracting process needed to be updated, ACECL approached the agency about making improvements. Working side-by-side, private engineers representing ACECL and public officials from DOTD explored every aspect of the process, including procurement, contracting, administration, QA/QC and claims. Many of the recommendations from this exercise have been adopted, and committee members are still engaged in seeking more improvements. This remarkable partnership was possible only because of ACECL's excellent reputation and the trust placed in it by its members and the public sector.

In addition, ACECL literally has "a seat at the table" in many important venues, including the Facility Planning and Control's Engineering Selection Board and engineering selection boards in

East Baton Rouge Parish and Jefferson parishes. ACECL also participates in legislative task forces, including panels that studied CMAR and other alternative delivery methods and the recent Transportation Funding Task Force.

## **Public Relations**

ACECL Public relations consultant Mark Lambert ([www.lambert-media.com](http://www.lambert-media.com)) guides our public outreach efforts and helps communicate our message to the public. A former journalist and DOTD communications director under two administrations, Mark counsels the ACECL Executive Director and Board of Governors on issues concerning public relations, the news media, politics, special events and other matters that impact the public perception of our industry and member firms. Our PR program played a pivotal role in securing and promoting 2015's first gubernatorial debate, which focused on transportation issues, and we continue to provide valuable public relations services to our members through news releases, special events, newsletters and media relations services. ACECL member firms also have access to Mark's expertise and counsel as part of their ACECL membership.

We also maintain a positive community presence by participating in the Zurich Classic PGA golf tournament in New Orleans. ACECL volunteers provide ShotLink services to the tournament, freeing up money for the tournament's children's charity, the ForeKids Foundation. Since 2013, ACECL has donated more than 500 volunteer hours to ForeKids.

## **Education, Networking and Benefits**

ACECL members enjoy opportunities to sharpen their skills, gain continuing education hours and network with colleagues at workshops, conferences, seminars and lunch meetings. Our annual Deep South Convention, usually held in July in Destin, Florida, is a joint conference with ACEC chapters from Louisiana, Alabama, Arkansas and Mississippi and features national leaders in our industry. ACECL also sponsors two statewide conferences each year – the Critical Issues Summit and Project Outlook, both of which offer our members a preview of business prospects and economic forecasts for the coming year.

Our latest educational opportunity, the Emerging Leaders Institute, is a joint venture with the state chapter of AIA that allows individuals to develop their professional and personal leadership abilities. Our first class filled up immediately, and we are looking forward to continuing this opportunity to our members.

ACECL has four active chapters in Baton Rouge, Lafayette, New Orleans and Shreveport that hold regular luncheons with local and regional public officials. These luncheons are a great way for members to stay professionally connected with their colleagues and community.

ACECL members also attend ACEC national events featuring insights, forecasts and nationally known speakers that no other professional organization can offer. Plus, ACECL members have access to a menu of benefits, including Employee Benefits Plans (which include life, retirement and health plans) office supply and opportunities for business development and training.

## **Interested?**

We'd love to talk to you about how you and your firm can enjoy the benefits of ACECL membership. Just contact me at [dmobley@acecl.org](mailto:dmobley@acecl.org) or Janet Tomeny at [jtomeny@acecl.org](mailto:jtomeny@acecl.org), or call us at 225-927-7704.



AMERICAN COUNCIL OF ENGINEERING COMPANIES

# Project Outlook 2015

**When:** Thursday, November 12, 2015

**Cost:** \$195.00 Members  
\$350.00 Non-Members

**Where:** Renaissance Baton Rouge Hotel  
7000 Bluebonnet Boulevard  
Baton Rouge, LA 70810

## SCHEDULE OF EVENTS

TIME	Event/Speaker(s)	Organization	Topic
8:00 a.m. – 9:00 a.m.	<b>Registration/Continental Breakfast</b>		
8:00 a.m. -9:00 a.m.	ACEC Past Presidents Meeting		
9:00 a.m. – 9:30 a.m.	Jim Engster	Louisiana Radio Host	<i>LA Political Outlook</i>
9:30 a.m. – 10:15 a.m.	Secretary Sherri LeBas, P.E.	LDOTD	<i>Statewide Transportation Plan</i>
10:15 a.m. – 11:00 a.m.	Matt Reiffer, Director	ACEC Transportation Programs	<i>Federal Transportation Update</i>
11:15 a.m. – 11:45 am	Senator A. G. Crowe	Louisiana Senate	<i>LA International Gulf Transfer Terminal (LIGTT)</i>
11:45 a.m. – 1:15 p.m.	<b>AWARDS LUNCHEON</b> Treasurer John Kennedy	State of Louisiana Treasury Department	<i>Louisiana's Financial Update</i>
1:15 p.m. – 2:00 p.m.	Justin Ehrenwerth, Executive Director  Kyle Graham, Executive Director	Gulf Coast Ecosystem Restoration Council  CPRA	<i>Allocation of Restore Act Funding</i>  <i>Louisiana's Update</i>
2:00 p.m. – 2:30 p.m.	Mark Moses, P.E.	Office of Facility Planning & Control	<i>Upcoming Projects</i>
2:30 p.m. – 3:00 p.m.	Don G. Briggs, President	LA Oil & Gas Association	<i>State of Oil Industry</i>
3:15 p.m. – 3:45 p.m.	Joe Becker, General Superintendent	New Orleans Sewerage & Water Board	<i>What's Ahead</i>
3:45 p.m. – 4:45 p.m.	Deborah Keller, P.E.	Deborah D. Keller & Partners, LLC	<i>Ethics</i>
5:00 p.m. – 7:00 p.m.	<b>*CLIENT APPRECIATION RECEPTION</b>		<b>*MEMBERS ONLY SEPARATE REGISTRATION REQUIRED</b>

EARN UP TO 5.5 PROFESSIONAL DEVELOPMENT HOURS (PDH) & 1.0 ETHICS  
(Note: Event/Schedule changes may occur due to unexpected conflicts)

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