



# Baton Rouge Newsletter

Year 27, Number 8

[www.aiche-br.org](http://www.aiche-br.org)

April 1, 2017

April meeting—CAMD tour	2	The <i>AIChE Baton Rouge Newsletter</i> is published monthly, from September to June, by the AIChE Baton Rouge Section, 110 Chemical Engineering, LSU, Baton Rouge, LA 70803. It is distributed free of charge to members of the Baton Rouge Section of the American Institute of Chemical Engineers.
Recap of March dinner meeting	3	
From the Chapter Chair's Pen	4	
2017 Section Contacts	6	
May 19 Seminar information	7-14	
		<b>Membership Fee:</b> \$15.00/yr.

## *April Dinner Meeting*

- Date:** Thursday, April 20, 2017
- Place:** CAMD, 6980 Jefferson Highway
- Topic:** *Tour of LSU's Center for Advanced Microstructures and Devices*
- Agenda:** 5:30 PM – Registration  
6:00 PM – Tour  
7:00 PM -- Dinner
- Menu:** Box lunch.
- Cost:** \$20 Per person (Members \$15, Students \$10, Flood victim members free)

### RESERVATIONS

Please make your reservation with chapter secretary, Chelsea Bourdon, **by 5:00 PM on Tuesday, April 18<sup>th</sup>** at [CBourdon@Hargrove-EPC.com](mailto:CBourdon@Hargrove-EPC.com)

Reservations required. Tour limit: 30.

### Professional Engineering Certification

The subject of this meeting is an acceptable activity for continuing Professional Development as defined by LAPELS and is **approved for one (1) PDH unit**.

The Baton Rouge AIChE chapter is NOT responsible for individual record keeping of PDH credits. Certificates must be obtained at the meeting by the individual.

## *Other Upcoming 2017 Events / Speakers*

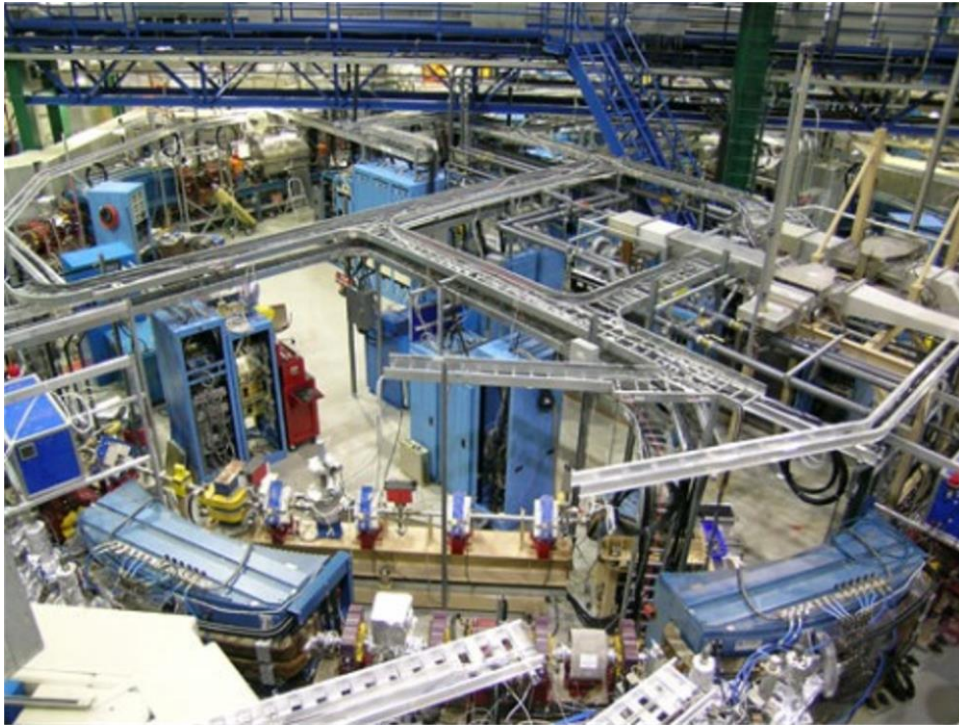
- May Coates Award Banquet
- May 19 8-PDH Seminar: Venting, Tank Protection, Ethics. Oak Lodge Center. 8 AM to 4:30 PM.
- September 16 Tour of the LIGO facility in Livingston, LA

*If you or your colleague(s) would like to give a technical presentation at an upcoming chapter meeting for 2 professional development hours (PDHs), please contact Chapter Chair, Clark Snyder, at [WClarkSnyder@hotmail.com](mailto:WClarkSnyder@hotmail.com) to schedule a meeting date and time.*

---

## *April Tour of LSU's CAMD*

---



The J. Bennet Johnson Center for Advanced Microstructures and Devices (CAMD) is a synchrotron radiation research center at Louisiana State University in Baton Rouge. The mission of CAMD is to provide infrastructure for research and education in synchrotron-based science and technology. The facility was built with a \$25-million grant from the U.S. Department of Energy and is currently operating with an annual state-provided budget of \$4 million. The heart of the facility is a 1.5 GeV electron storage ring that was built exclusively to provide synchrotron radiation. Research in basic sciences and microfabrication is conducted by scientist and engineers from Louisiana universities, along with distinguished scientists from national and international institutions. - See more at:

<http://www.lsu.edu/camd/about/index.php#sthash.dzrsltpE.dpuf>

CAMD is the only state-funded synchrotron facility in the U.S. The spirit of the state appropriation is that LSU operate CAMD to benefit researchers in Louisiana in the areas of basic and applied sciences, particularly in developing technologies associated with microstructures and devices. By providing X-rays and equipment, as well as a principal part of the technological expertise, CAMD forms a nucleus for the development of strong programs in microfabrication, materials science and other targeted areas of scientific and technological exploration. This nucleus attracts scientists and engineers from Louisiana, across the U.S. and nations around the world. These individuals, along with the CAMD staff, provide the base of expertise necessary for technological development.

The centerpiece of the CAMD facility is a normal-conducting electron storage ring optimized to produce soft X-rays. The machine is a low-energy-injected (200 MeV) Chasman-Green lattice designed to operate in the range of 1.2 - 1.5 GeV. The ring includes eight bending magnets with a radius of 2.928m. The dipole magnet chambers have two ports emitting > 70 mrad of synchrotron radiation each. Two straight sections are available for insertion devices, with one currently occupied by a superconducting wiggler.

***Virtue is its own reward.***

**Cicero**

---

## Recap of the March Meeting

---



We met at El Magey Mexican Restaurant. Glenn Young gave an excellent presentation on Safety Instrumented Systems (SIS). He explained each of the elements of an SIS, the sensor, the logic device and the actuated element, has a safety Integrity Level (SIL) Rating. An element rated SIL-1 must fail no more than once every 100 demands, SIL-2 no more than one failure every 1,000 demands, SIL-3 no more than once every 10,000 demands, and so on. Ruggedization can add one SIL credit to an installation by (1) adding redundancy, (2) increasing reliability, (3) more frequent testing and calibration. Ruggedization can achieve higher SIL levels at lower costs.

The actuating device is the element most likely to fail. For example, to have a system earn 3 SIL credits one can use SIL-3 sensor and logic devices and a SIL-4 actuated element. Verifying that an element will not fail on demand is difficult because the reliability on the field can be quite different from that determined by bench scale testing.

---

## Meeting of the Air and Waste Management Association

---

The Louisiana Section of the Air and Waste Management Association (AWMA) has invited members of our section to join them at their May meeting on Thursday, May 18, at Middendorf's in Manchac. The AWMA members include environmental staff from chemical plants and refineries, environmental consultants, LDEQ staff, and attorneys. Many chemical engineers are members. They have this meeting annually at Middendorf's as a "fun" event. Usually at least 60 people in attendance. They are willing to handle the registrations and payments, which are done in advance via credit cards. They would not have any profit or loss for this meeting. Middendorf's Restaurant is at 30160 US 51, Akers, LA. For more information contact Michael O. Waguespack, at [Michael.Waguespack@WSNelson.com](mailto:Michael.Waguespack@WSNelson.com).

---

## *From the Chapter Chair's Pen*

---

The time is moving fast and Spring is in full swing. I am looking forward to hotter weather and higher humidity. Rebuilding of flood damaged homes and businesses has been almost completed for many, but is far from over for others. I would like to remind the engineers in our community that we are still subsidizing flood victims at our monthly meetings and we will continue to do so until the grant goes dry (no pun intended). The Spring seminar will be here before we know it in just 6 short weeks or so. Armand Melikyan has done a great job putting together a wide variety of topics, ethics being one of those at the seminar. Besides offering PDH opportunities, AIChE offers a great opportunity to network with other chemical engineers in the area. We have a top-notch group in the local section and it is my pleasure to volunteer alongside of them. I encourage everyone to come to the local meeting and introduce yourself. It is well worth your time!

*Clark Snyder, 2017 Chair*





<http://www.prosys.com/careers>

[resume@prosys.com](mailto:resume@prosys.com)



## Now Hiring Experienced Engineers!

Senior Engineers at ProSys provide top notch engineering solutions and innovative technologies to our worldwide customers in the petrochemical and refining industries. They utilize modern control system technologies to design and implement control systems that successfully help our customers meet their operating objectives.



View job details and apply at [www.prosys.com/careers](http://www.prosys.com/careers). Become part of our group of talented, experienced and highly motivated individuals who combine engineering and technical expertise with the ability to be dynamic, innovative team members and leaders.

[resume@prosys.com](mailto:resume@prosys.com)



# 150 years

The BASF logo consists of a blue square with a white square inside, followed by a small blue square and the word "BASF" in a bold, white, sans-serif font.

**BASF**

We create chemistry

# 2017 Section Contacts

## Officers

**Chair:** W. Clark Snyder, [WClarkSnyder@hotmail.com](mailto:WClarkSnyder@hotmail.com)  
**Vice Chair:** Donna Bryant, [Donna.Bryant@Syngenta.com](mailto:Donna.Bryant@Syngenta.com)  
**Secretary:** Chelsea Bourdon, [CBourdon@Hargrove-EPC.com](mailto:CBourdon@Hargrove-EPC.com)  
**Treasurer:** Jimmy Orr, [Jimmy.Orr@Jacobs.com](mailto:Jimmy.Orr@Jacobs.com)

## Executive Committee Members

Glenn Bryson [GBBryson@BellSouth.net](mailto:GBBryson@BellSouth.net)  
Noel Ricord [LCNoel55@aol.com](mailto:LCNoel55@aol.com)  
Armand Melikyan [AMelikyan@Hargrove-EPC.com](mailto:AMelikyan@Hargrove-EPC.com)  
William Buck [William.Buck@WinkEngr.com](mailto:William.Buck@WinkEngr.com)  
Stephen Reilly [Stephen.Reilly@Prosys.com](mailto:Stephen.Reilly@Prosys.com)

## Committees

**Awards:** Dal Dalferes, [Joseph.Dalferes@jacobs.com](mailto:Joseph.Dalferes@jacobs.com)  
**Communications:** Brandon Lithgoe, [BLithgoe@Yahoo.com](mailto:BLithgoe@Yahoo.com)  
**Education:** Erick Flores, [EFlore5@LSU.edu](mailto:EFlore5@LSU.edu)  
**High School Grants:** W. Clark Snyder, [WClarkSnyder@hotmail.com](mailto:WClarkSnyder@hotmail.com)  
**Membership:** Glenn Bryson, [GBBryson@BellSouth.net](mailto:GBBryson@BellSouth.net)  
**Newsletter:** Armando Corripio, [Corripio@LSU.edu](mailto:Corripio@LSU.edu)  
**Nominations:** Parul Patel, [Parul\\_Prpatel@yahoo.com](mailto:Parul_Prpatel@yahoo.com)  
**Professional Development:** Randy Goodman, [Randy.Goodman@LA.gov](mailto:Randy.Goodman@LA.gov)  
**Seminars:** open  
**Sponsorship:** Stephen Reilly, [Stephen.Reilly@Prosys.com](mailto:Stephen.Reilly@Prosys.com)

## Why Should You Join the Local AIChE Chapter?

1. It is a welcoming presence to new chemical engineers in the area.
2. It provides a neutral ground mentorship toward career directions and other life topics.
3. It facilitates a better understanding of local, state, and federal policies related to our professions.
4. It offers a smooth transition for graduating chemical engineers from LSU, ULL, and other nearby universities who start working in the area.



# AIChE Baton Rouge Spring / 2017 Seminar

**Tank University: Tank Venting Fundamentals, API 2000 Overview, Normal & Emergency Venting Devices, Forward & Back-Pressure Regulators, Tank Blanketing Systems, Overfill Protection & API 2350 Guidelines, Safeguarding of Low Pressure Storage Tanks, and Presentation of Design Alternatives Engineering Ethics Overview**  
Friday, May 19, 2017  
8:00AM – 4:30PM

**Location: Oak Lodge Reception & Conference Center** (new)  
2834 S. Sherwood Forest Blvd. Suite E-1 Baton Rouge, Louisiana 70816, (225) 291-6257

**Earn 8 PDH's! Enrollment is Limited! Sign-Up Early!**

## **REGISTRATION FORM**

**NEW!** Register online at [www.aiche-br.org](http://www.aiche-br.org) and pay by credit card using PayPal, or mail this completed form with payment to the address below.

**NAME:** \_\_\_\_\_

**MAILING ADDRESS:** \_\_\_\_\_

**CITY:** \_\_\_\_\_ **STATE:** \_\_\_\_\_ **ZIP:** \_\_\_\_\_

**COMPANY:** \_\_\_\_\_

**EMAIL:** \_\_\_\_\_ **PHONE:** \_\_\_\_\_

**TECHNICAL/PROFESSIONAL SOCIETY MEMBERSHIP\*:** (must indicate) \_\_\_\_\_

**COST:**  \$85/person for Tech/Prof Society Members\* prior to 14-May-17 (Please check appropriate)  
 \$95/person for non-Tech/Prof Society Members prior to 14-May-17  
 \$110/person for all after 14-May-17

MAIL COMPLETED REGISTRATION FORM TO:  
(Please include check if that is your payment option)  
Check or cash only, no credit cards on event day  
Walk-ins welcome space permitting.

**Jimmy Orr (Treasurer)**  
1729 Roseneath Dr.  
Baton Rouge, LA 70806  
Email: [jimmy.orr@Jacobs.com](mailto:jimmy.orr@Jacobs.com)

**Phone:** (225) 540-5154

\*The AIChE supports membership in Professional and Technical Societies (see list below)

Refund Policy: Advance registration is 100% refundable with notice at least 12 days prior to the date of the seminar. Notice received between 09-May-2017 and 18- May-2017 is 50% refundable. No refunds on day of the seminar.

Cancellation: AIChE reserves the right to cancel this seminar if low attendance is projected. A full refund will be sent in this event.

**EVENT: Tank University Seminar (7 PDHs); Engineering Ethics (1 PDH)**

**DATE: May 19th, 2017**

**PROPOSED AGENDA:**

**7:30 A - 8:00 A Breakfast**

**8:00 A - 11:30 P**

**11:30 P -12:00 P Lunch (provided by AIChE)**

**12:00 P - 4:30 P**

### **TANK UNIVERSITY**

#### Presenters:

Ken Ludvigsen – Emerson, Regional Manager (Regulator Technologies)

Daniel Baldwin – Emerson, South Regional Sales Manager (Emerson Rosemount Tank Gauging Systems)

Michael Calaway– Emerson Enardo, Business Development Manager (Regulators/Low Pressure Tank Venting Devices & Systems)

#### Representatives:

Rob Mistretta – JHC, Business Manager (Regulators/Low Pressure Tank Venting Devices & Systems)

Joey Breaux – JHC, Director of Tank & Terminals (Overfill Protection Specialist)

**The presentation will cover the fundamentals and latest design alternatives for tank venting, API 2000 overview, normal & emergency venting, forward and back-pressure regulators, tank blanketing systems, overfill protection and API 2350 guidelines, safeguarding of low pressure storage tanks, and presentation of design alternatives. An overview of the presentation includes the following topics:**



- **Tank Venting Standard (API 2000)**
- **Relief & Emergency Vent Valves- Discussion of Normal and Emergency Venting systems and devices; Proper Venting Design per latest API 2000 Standard.**
- **Regulators & Tank Blanketing- The various design options for tank blanketing systems will be covered –Supply-Backpressure Regulators; Low Pressure Gas Blanketing Regulators.**
- **Tank Level Measurement-The latest level measuring devices including transmitters and the latest available technologies.**
- **Overfill Protection Guidelines (API 2350)-Overfill Protection and the latest methodologies and industry trends to be discussed.**
- **Flame Protection & Arrestors-Detonation & Deflagrations; Flame Front Theory & Fundamentals.**

- 

[About the presenters:](#)

Ken Ludvigsen – Regional Manager for the past 13 years who has worked with our Local Business Partners to provide product support, training, and application solutions. Ken is a certified Emerson instructor leading schools and conferences at the corporate headquarters in McKinney, TX. He has presented various topics concerning pressure regulator and relief valve function, application, and troubleshooting at ASGMT, AGMSC, ANGA, SGA, Emerson Exchange and Tank University.

Daniel Baldwin – South Regional Sales Manager responsible for Rosemount Tank Gauging products. Daniel started with the company in 1997. In his 20 years with the company, Daniel has held multiple positions, Senior Service Technician, which included the installation, commissioning, and repaired of the Saab/Rosemount Tank Gauging equipment. Direct Sales covering the greater Houston area and now the South Regional Manager for the Tank Gauging business unit of Rosemount.

Michael Calaway – Director of Marketing responsible for the Emerson Enardo Product Line. Michael joined Emerson 3 years ago as a Business Development Manager focused on pressure control applications for refineries and chemical plants. Prior to joining Emerson Michael spent 8 years in the refining industry holding multiple positions including Instrument Engineer, Maintenance Supervisor, and Process Supervisor.

## **Engineering Ethics Overview**

Richard Savoie, P.E. (**LAPELS Deputy Executive Director**)

**LAPELS Board and Staff**

**Enforcement & Compliance**

**Ethical Issues**

## Quiz

### Supervising Professionals

#### Common Questions

##### [About the presenter:](#)

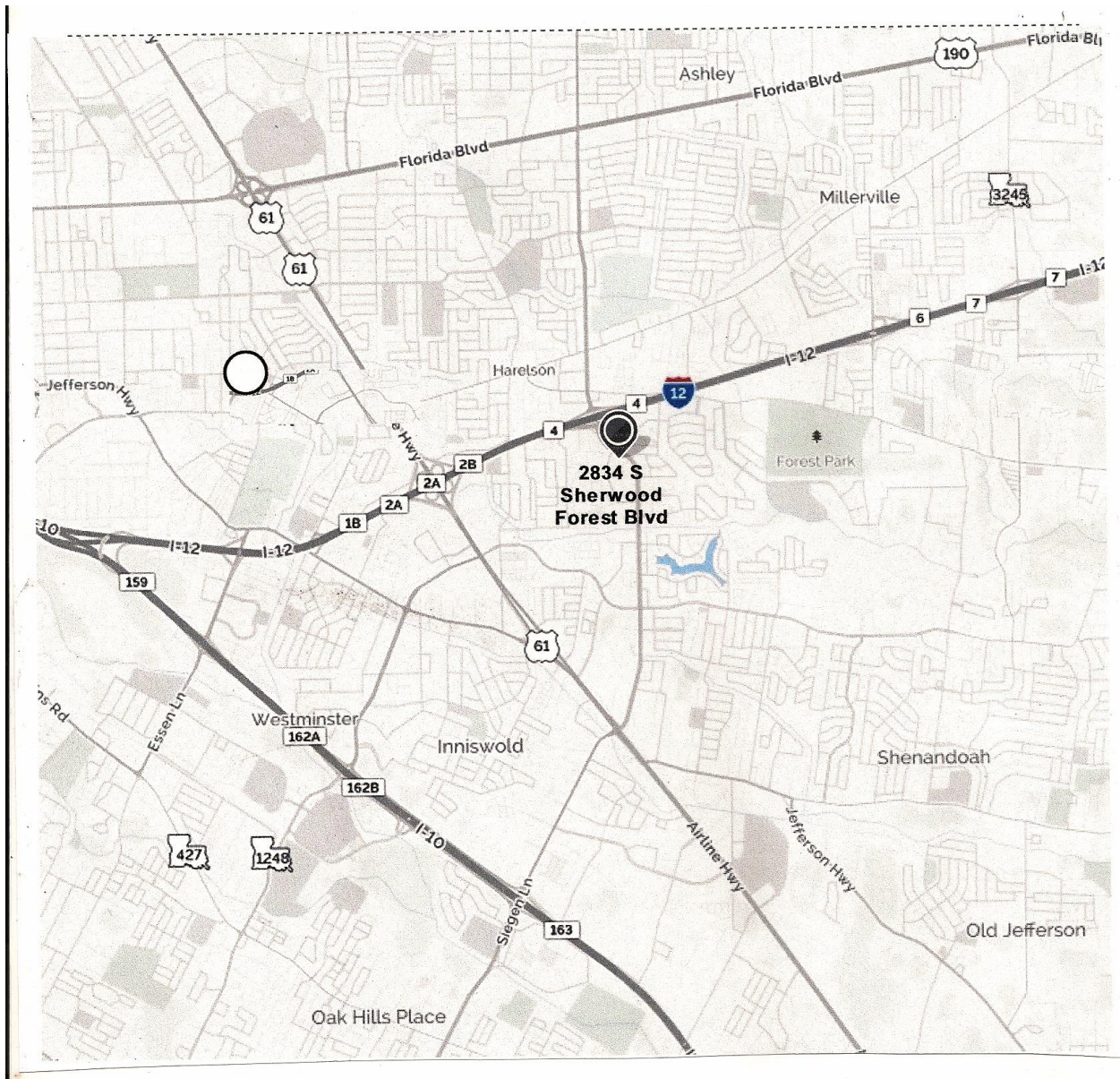
Richard Savoie – Deputy Executive Director for the Louisiana Professional Engineers and Land Surveyor's Board (LAPELS). He has served in the position since April 2015. He also served one term as a Board Member from 2007 to 2013.

**Note: Some topics may change without prior notice.**

**Notice: Full day registration only. Registration fees will not be reduced for half day attendance. Attendance signatures will be required at the beginning of each presentation. PDH (Professional Development Hour) certificates will be issued based upon attendance list signatures, with Hours reflecting actual attendance. Fees will not be reduced or partially refunded for partial attendance.**

**\*\*\*Morning and Afternoon Sessions each to include two or three 10 min. breaks (not shown) \*\*\***

**(Map to Oak Lodge (2834 S.Sherwood Forest Blvd. Baton Rouge, LA 70816))**



**“Oak Lodge” is a little bit hard to find**

**Please Reference the next Map to Find “Oak Lodge” in the Local Area**

**I**

**V**

**Local Area Map**



To I-12

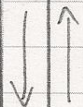
Shell Station

Sherwood Forest Plaza

Potwilt's BBQ

Duncan Daiquiri  
Deeghuid's CAFE

Auburn



S. Sherwood Forest

Citizen Bank

Brickson Ave

Mid South Bank

To Coarsely

Aveda Inst

Baskin Robbins

BURK BATH

CubeSmart STORAGE

West Fork Dr.

Mason Deville

Offices

Route 1

Route 2

Route 3



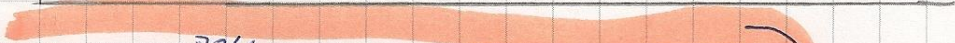
PARKING

PARKING

OAK Lodge

STRIP MALL

W. BRICKSON AVE



## Local Professional Societies

---

- Louisiana Engineering Society (LES)
  - Louisiana Society of Professional Surveyors (LSPS)
- 

## National Technical Societies

---

- America Academy of Environmental Engineers (AAEE)
- American Institute of Architects (AIA)
- American Institute of Chemical Engineers (AIChE)
- American Institute of Electrical Engineers (AIEE)
- American Consulting Engineers Council (ACEC)
- American Concrete Institute (ACI)
- American Institute of Steel Construction (AISC)
- American Management Association
- American Iron and Steel Institute
- American Society of Mechanical Engineers (ASME)
- American Plywood Association (APA)
- American Society of Civil Engineers (ASCE)
- American Society of Engineering Education (ASEE)
- American Society of Heating, Refrigerating, and Air-Conditioning Engineers (ASHRAE)
- American Society of Safety Engineers (ASSE)
- American Wood Council (AWC)
- Earthquake Engineering Research Institute (EERI)
- Institute of Transportation Engineers
- Institute of Electrical and Electronics Engineers (IEEE)
- Instrumentation Systems and Automation Society (ISA)
- National Council of Examiners for Engineering and Surveying
- National Design Specification (NDS)
- National Society of Architectural Engineers
- National Society of Professional Engineers (NSPE)
- Society of Petroleum Engineers (SPE)
- Society of Petroleum Evaluation Engineers (SPEE)
- Society of Professional Well Log Analysts (SPWLA)
- Society of Women Engineers (SWE)
- Air & Waste Management Association (AWMA)