



# Baton Rouge Newsletter

Year 27, Number 7

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

March 1, 2017

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The *AIChE Baton Rouge Newsletter* 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.

**Membership Fee:** \$15.00/yr.

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## March Dinner Meeting

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**Date:** Thursday, March 23, 2017

**Place:** El Magey Mexican Restaurant, 8290 Siegen Lane at railroad overpass.

**Speakers:** **Glenn Young**, Principal, Glenn Young & Associates, LLC

**Topic:** *"Ruggedizing" Safety Instrumented Systems*

**Agenda:**  
5:30 PM – Registration and social (Cash Bar)  
6:00 PM – Dinner  
6:05 PM -- Business  
6:15 PM -- Speaker

**Menu:** Full Mexican buffet, soft drink, coffee or tea.

**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, March 21<sup>st</sup>** at [CBourdon@Hargrove-EPC.com](mailto:CBourdon@Hargrove-EPC.com)

Reservations not required. Bring a friend.

### 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.

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## Other Upcoming 2017 Events / Speakers

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April 20      Tour of the CAMD facility on Jefferson Highway  
May          Coates Award Banquet  
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.*

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## *Glenn Young, March Meeting Speaker*

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Glenn Young is a Certified Safety Professional whom is also an independent safety consultant based in Baton Rouge, LA. Glenn Young & Associates, LLC has operated continuously since 2000. Specializing in Process Safety Management auditing, Process Hazard Analysis facilitation and training, Layers of Protection Analysis, and Safety Instrumented Systems, Young's clients include major chemical manufacturers, refineries, pipeline companies, and pharmaceutical companies. Author of "Background Math for Safety Certification Exams" and "Applied Mathematics for Safety Engineers," Glenn is well-known author and speaker, and is currently working on a new book, "The Art of the PHA – Process Hazard Analysis for the 21st Century." Glenn is a Professional Member of the American Society of Safety Engineers, a former President of the Greater Baton Rouge chapter, a former Louisiana Area Director, a former Chairman of the ASSE's National Leadership Conference, and a former Secretary of Region IV (southeastern USA). Glenn is also a member of the American Institute of Chemical Engineers and has spoken multiple times at the CCPS' Global Conference on Process Safety, most recently in April of 2016. Glenn is a member of the Safety, Health, and Environmental Curriculum Advisory Committee of Southeastern Louisiana University, and co-teaches the senior-level System & Product Safety class.

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## *March Meeting Topic*

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Many processes use safety-instrumented-systems (SIS) to mitigate hazards. When selecting a Safety-Integrity-Level (SIL) for the SIS, or in common terms, a desired reliability, the normal risk-analysis method used is Layers of Protection Analysis (LOPA). One of the major advantages of LOPA is its inherent conservatism in assessing risk. Due to the structure of LOPA, any SIS with a SIL-1 reliability is granted but a single Independent-Protection-Layer (IPL) credit. A SIL-2 design would yield two IPL credits, and a SIL-3, three. This conservatism can make additional IPL credits (via SIS) expensive to design and implement. Further, upgrading a system from one SIL level to a higher level usually involves discarding much if not all of the previous parts and starting over. This talk will focus on ways to slightly "ruggedize" SIS components. By doing this, an additional IPL credit in LOPA can be justified for any of the SIL levels. Further, should future process changes require a higher SIL level, the majority of existing equipment can be reused for considerable economic savings. The talk will also focus on common failures in the field evaluation and maintenance of SIS controls

*If you have only one smile in you, give it to the people you love. Don't be surly at home, then go out in the street and start grinning "Good morning" at total strangers.*

**Maya Angelou**

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## *Recap of the February Meeting*

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We met at Galatoire's Bistro. William Hyatt and Joe Harman of the Louisiana Association of Professional Engineers and Land Surveyors (LAPELS) spoke on the investigating procedures of the Board. The Board investigates complaints on violations of the laws and rules. Complaints can be provided to the Board anonymously. A Complaints Review Committee, comprised of three Board members, reviews violations and can impose fines and publish the names of the offending engineers or companies on the LAPELS web site. Fines are typically about \$1,500 and there is a statute of limitations of five years. There was a heated discussion on the issue of the "Industrial Exemption," by which non-registered engineers in industry can perform engineering work "inside the fence," that is, work that does not affect the public or other entities outside the company's facility. Mr. Harman read a ruling by the Louisiana Attorney General stating that this is allowed provided the non-registered engineer is supervised by a registered engineer. Mr. Hyatt summarized several cases investigated by the Board and their disposition.

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## *Calling all Young (and Young-at-Heart) AIChE Members*

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Come volunteer with the LSU and Baton Rouge AIChE chapters at the Greater Baton Rouge Food Bank! On Saturday, April 22<sup>nd</sup>, from 8 AM – 12 PM, we'll be helping out an integral part of the community that serves those in need by sorting food donations and assembling food boxes at their facility located at 2626 West Dual Street, Baton Rouge, LA, 70815. Afterward, we'll get lunch at a location TBD, so we would love to see you there!

There will also be a carpool to and from the Ceba Lane side of Patrick F. Taylor Hall on the LSU campus meeting at 7:20 AM if you don't wish to drive and/or need a ride there. Also, the Greater Baton Rouge Food Bank requires that all volunteers wear closed-toe shoes in order to comply with onsite safety regulations.

If interested in attending, please RSVP with the LSU AIChE Chapter's Philanthropy Chair, Sean Guillory, at [sguil49@lsu.edu](mailto:sguil49@lsu.edu) by 5 PM on Friday, April 21<sup>st</sup>. Let him know if you are willing to drive others for the carpool within your invitation. Hope to see you there!

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## *From the Chapter Chair's Pen*

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Thanks to everyone that attended the February meeting. We had quite a turnout and William Hyatt and Joe Herman gave a very good presentation on enforcement actions, the code, and the industrial exemption. The last topic, in particular, provided quite a lively discussion and lots of questions. The bottom line is that as engineers, we should all be diligent in understanding our roles, do's and don'ts, and how the regulations/laws bind us. As good citizens and engineers, isn't this always the case? As I am sure that some questions may have yet to be answered, we will have another opportunity to have an ethics hour at our spring seminar, May 19th. I hope you can all take advantage of the opportunity and the lively discussion, especially if you missed the last one. I hope to see everyone at the March meeting. Until then, enjoy the coming of spring and hopefully some georgeous weather.

*Clark Snyder, 2017 Chair*



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# 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**

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## **Committees**

**Awards:** Dal Dalferes, [Joseph.Dalferes@jacobs.com](mailto:Joseph.Dalferes@jacobs.com)  
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**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.

