Baton Rouge Section Newsletter

Year 25, Number 2 **October 10, 2014**
Catch us on the Web: www.aiche-br.org

AIChE Baton Rouge Section is published monthly, from September to May, by 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

If we all did the things we are capable of doing, we would literally astound ourselves.
-Thomas Edison

Upcoming Events

11/7 AIChE Fall Seminar at Holiday Inn South

11/20 Mr. Jason Sowels, Business Development Manager of Reagan Power and Compression, at Ralph & Kacoo's

12/18 Mr. John Willis, Vice President of ADCO Companies LTD, at Teppanyaki

Sunset in Baton Rouge, June 2014

October Meeting

Date: Thursday, October 23, 2014

Place: LSU's Tureaud Hall Room 105, located at South Stadium Dr. and Forestry Ln.

Speaker: Mr. Dallas Cooley, CEO, Jeaux's Boys BBQ

Topic: *Engineering Success: The Value of Softer Skills*

There are endless examples of engineers out there who possess solid or even extraordinary technical skills and knowledge, yet never reach their full potential. You may know some of these guys: The Project Engineer with great ideas -- whose projects never get approved because he can't sell his ideas to management. The Process Engineer with intimate knowledge of his area -- yet, never convinces the Operations personnel to embrace his expertise because he lacks interpersonal skills. The Environmental Engineer who is viewed as "Internal Affairs" within his own organization because he can't convey his message without putting his primary audience on the defensive. So many good ideas are lost and so many intelligent people are rendered ineffective… due to their failure to master the "Softer Skills". That's right…the very skills we, as aspiring engineers, considered to be unnecessary in our bright futures of data analyses, calculations, and formulas are the very things that may be blocking our progress. (*Continued on Page 2)*

Agenda: 6:00 – Dinner
6:20 – Speaker
7:00 – Meeting adjourns

Menu: A sampling of Jeaux's Boys BBQ Sauce on some pulled pork sliders, baked beans, and coleslaw

Price per person: $8 (Students free, AIChE Baton Rouge members $3)

RESERVATIONS
Make your reservations with Brian Hoppe by **4:30 PM Tuesday, October 21** at Brian.Hoppe@Willbros.com 225-612-6234

From the Editor's Desk

It was a pleasure for me to see my old friend Charlie Cutler at the September meeting. Charlie was one of the originators of DMC (Dynamic Matrix Control) in the 1970s, a novel idea on multivariable control and real time optimization that is widely used today. His presentation was very pleasant as he made it sitting at the table (see photo below, Charlie is on the far right) and, when he finished he answered questions as we waited for dinner. He reminisced about his early days at Shell as a young engineer, It was all very low key in a relaxed atmosphere. I wish all meetings were like this… and the food was delicious too.

The meeting this month at LSU also promises to be pleasant and the topic looks very interesting. I hope to see you there.

Armando Corripio, editor

September meeting at Drusilla Seafood

Looking to promote an upcoming job opportunity, conference, or other company event? Consider sponsoring the Baton Rouge AIChE chapter to get newsletter and website exposure and recognition, among other chapter benefits! If interested, please send an inquiry to chapter Vice-Chair, Stephen Reilly, at stephen.reilly@prosys.com to find out more.

October Meeting Topic (continued)

Where were the courses to teach us…
* How to Communicate
* How to Sell Ideas and Ourselves
* How to Understand our audience, and
* How to ALWAYS maintain an open mind?

Following the same logic, there are countless examples of really "bad projects" that get approved with little difficulty. You may recall some of these, too. "THAT GUY" gets promoted. Some lame idea gets supported and funded…and you're scratching your head wondering, "Why?" No matter that this person or this team pulled some pathetic plan out the blue…'someone' was able to Sell It! That individual or a member of that team possessed a solid set of "Softer Skills".

It is this softer skill set that can launch an engineer to success within his organization OR can effectively invalidate every push for success. These very same skills can make it possible for a small-time BBQ Sauce Entrepreneur to successfully interact with BBQ sauce manufacturers; communicate effectively with government agencies; and, actually, sell product to customers, stores, and warehouses.

Let's LABEL THE SOFTER SKILLS! (In no particular order….)
* Communicating
* Influencing
* Understanding
* Listening

They may not be "Catchy"….but they ARE EFFECTIVE!

Dallas Cooley

Dallas Cooley is an Area Manager in Operations for CITGO Petroleum Corporation at the Lake Charles Refinery. He also owns a small BBQ sauce business, called Jeaux's Boys, with his three brothers. Mr. Cooley received a Bachelor of Science Degree in Chemical Engineering from McNeese State University in 1994. He has worked in the refining industry for CITGO for 20 years in Engineering, Logistics, Operations Supervision, and Operations Management. He and his brothers have been working on their family BBQ sauce venture for the last year and a half.

Parking for October Meeting

AIChE Baton Rouge Fall 2014 Seminar

Overview of Nuclear Power, Monitoring Control Valve Diagnostics, Electric Motor Protection, Biofuels from Waste Water Treatment

Friday, 7th November 2014
8:00AM – 4:00PM

Location: Holiday Inn South
9940 Airline Hwy Baton Rouge, Louisiana 70816, (225) 924-7021

Earn 7 PDH's! Enrollment is Limited! Sign-Up Early!

REGISTRATION FORM

NEW! Register online at www.aiche-br.org, 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:
(Please check appropriate box)

- ☐ $75/person for Tech/Prof Society Members* prior to 05 Nov 14
- ☐ $95/person for non-Tech/Prof Society Members prior to 05 Nov 14
- ☐ $110/person for all after 05 Nov 14

MAIL COMPLETED REGISTRATION FORM TO:
(Please include check if that is your payment option)
Must be RECEIVED by 05 Nov 14
(Walk-ins welcome space permitting.
Check or cash only, no credit cards on event day.)

Oscar Alfaro (Treasurer)
1124 W Lakeview Dr.
Baton Rouge, LA 70810
Email: Oscar.Alfaro@Jacobs.com
Phone: (818) 642-8003

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

Refund Policy: Advance registration is 100% refundable with notice at least 14 days prior to the date of the seminar. Notice received between 24 Oct 14 and 6 Nov 2014 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 b sent in this event.

Baton Rouge Section 7th November 2014 Seminar

Tentative Schedule

7:00 AM – 8:00 AM: REGISTRATION & BREAKFAST

8:00 AM – 10:00 AM: MORNING SESSION

Nuclear Energy

Alisha Frederickson (Entergy)

- Overview of Nuclear Power
- River Bend Station Basics
- Fukushima Daiichi accident
- U.S. Nuclear Response to Fukushima
- Industry Outlook
- Question and Answers

About the presenter:

Alisha Frederickson is the Emergency Diesel Generator Engineer at River Bend Nuclear Power Station (RBS). She has been at RBS for almost ten years with six years as a Senior Nuclear Equipment Operator after serving in the United States Navy. She has a Bachelor in Marine Engineering from Texas A&M University; she also recently completed a Master of Business Association from the University of Phoenix. Her training and experience assists her in assuring that the Emergency Diesel Generators at River Bend start and perform all emergency functions if they are ever called upon to respond to an emergency.

10:00 AM – 12:00 PM: MORNING SESSION

Implementing valve performance diagnostics in new and old processing plant

Sandro Esposito (Setpoint Integrated Solutions)

- Asset management software myths
- KPIs for online performance analysis of a control valve
- Integrating digital valve positioner data to diagnose control valves
- Improved control valve reliability through continuous self-monitoring
- Case studies
- Questions / Answers

The process control industry can no longer rely on preventative maintenance programs to insure trouble-free operations in between shutdowns, or to lengthen the duration between them. Increased focus on safety and reliability is forcing plant managers to develop and implement new coping strategies and systems. In recent years, the intelligent valve interface has emerged as a key enabling technology — one that helps process plant owner-operators to maintain both reliability and profitability in the face of all of these challenges. With the help of digital protocols such as, HART and Foundation Fieldbus, the transfer of valuable information in a monitoring system for continuous control valve analysis enables predictive maintenance programs. A control valve is the most susceptible equipment to fail which can lead to unsafe or unreliable operations. Therefore, the digital valve positioner is the bridging gap in ensuring reliable operation since it is capable of diagnosing abnormal situations as well as ensuring sustained valve performance, by informing the operation before it is too late. The constant economical pressure and stringent quality programs is forcing most industries to seek avenues to create the “Smart Plant” which will provide higher efficiency of the plant’s assets. The diagnostic data provided with digital valve positioners is the stepping stone to substantial cost saving benefits in control valve maintenance and for higher process yields.

About the presenter:

Sandro Esposito studied in electro-mechanical engineering & instrumentation and controls. He graduated from the Ahuntsic college in Montreal,Canada with a honorary mention from Hewlett Packard for the best academics throughout college. Over the years, he has also completed several courses in various new technologies and business such as marketing, pricing, finance metrics and management from Emerson,Masoneilan, GE and professional university institutes. He started his career 20 years ago with Fisher Controls. In 2001 he was recruited by Masoneilan as sales leader for digital products before being promoted to global marketing manager in 2004 leading Masoneilan's digital products and software while growing the competitiveness and broadening the product portfolio with new products such as SVI II AP, SVI II ESD, SVi1000, VECTOR,DTM software, ValscopePRO and ValVueOVD. He managed global alliances for system integration with partners like Yokogawa, Honeywell and ABB. For 9 years, he commercialized globally all digital products and software solutions, working closely with sales channels and customers at their corporate locations and plant sites, such as Shell, ExxonMobil, Valero, Lyondell, Petrobras, BP, Petronas, and Total. He has published 15 papers in leading industry journals and conventions all around the world and has 6 patents related to valve positioners and valve diagnostics. Sandro has been a key contributor and a member of the HART Foundation, FF Foundations, FDT-DTM organization and ISA. This industry presence and accomplishments make of Sandro Esposito a respected and credible subject matter expert in the industry. Sandro is the now the vice president of the automation division at Setpoint Integrated Solutions, a leading supplier of process control automation in the gulf coast.

12:00 PM – 1:00 PM: LUNCH

1:00 PM – 3:00 PM: AFTERNOON SESSION – Part 1

Electric Motor Protection

Matt Proctor (GE Multilin)

- Fundamentals of induction motor operation and common failures
- Motor ratings and what they mean
- Thermal overload protection using microprocessor-based thermal model
- Applying protective relays for smart asset management
- Questions / Answers

About the presenter:

Matt Proctor is currently a Technical Application Engineer at GE Digital Energy (Multilin) and has been with GE for over four years. Matt began working in the electrical discipline in 1997 as a co-op student at Mississippi Power Company in Biloxi, MS. Matt earned Bachelor of Science in electrical engineering from Louisiana State University in Baton Rouge, LA in 2001 and an MBA from LSU in 2005. He has experience with transmission substation protection and industrial electrical distribution design. His work experience prior to joining GE includes four years at Power & Control Systems in Baton Rouge and four years with Jacobs Engineering in Houston, TX. He specializes in power system studies and protection and control relay applications. Matt lives in Spring, TX with his wife and two children.

3:00 PM – 4:00 PM: AFTERNOON SESSION

Integrating Biofuel Production to Waste Water Treatment

Rafael Hernandez (ULL)

The presentation will describe alternative configurations associated with specific wastewater treatment scenarios that could contribute to generation of sustainable feed stocks to produce fuels and chemicals, and thus, petroleum displacement and energy security. The proposed configurations also integrate the use of other sources of waste, such as municipal solid waste, agricultural residues, and high strength industrial waters to enhance feedstock production rates. For example, results will be presented on the transformation of solid waste and liquid organic fractions into biogas, organic acids, and lipids for biodiesel production.

About the presenter:

Rafael Hernandez has a BS (1993) and MS (1995) in chemical engineering from the University of Puerto Rico, Mayaguez, and a PhD (2002) in chemical engineering from Mississippi State University (MSU), Mississippi State, MS. He worked for the US Army Corp of Engineers Engineering Research and Development Center (1994-1997) on the development, design, and implementation of groundwater treatment technologies. His research activities are focused on the transformation of wastewater treatment facilities into centers of bio-crude for producing biodiesel and renewable diesel. He is interested in developing the scientific and engineering foundations to maximize the production of sustainable feedstock for producing biofuels. His research group has demonstrated that biodiesel can be produced from sewage sludge. He has managed over $15 million dollars in research funding related to biofuels, prepared numerous technical presentations (>150) and peer reviewed publications (>50), and supervised graduate students and research staff. Presently he is Head and Professor of the Department of Chemical Engineering at the University of Louisiana (UL) at Lafayette. He holds the J. Madison Nelson/BORSF Professorship. He is also the Associate Director of the UL Energy Institute.

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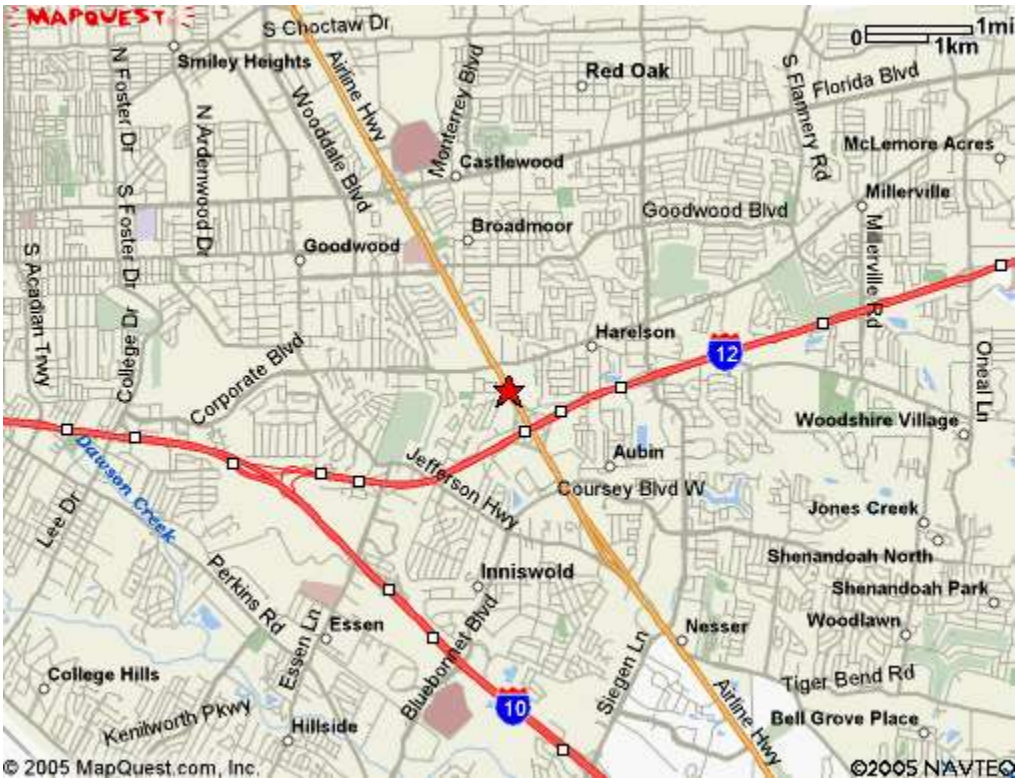
Note: Some topics may change without prior notice.

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 Holiday Inn South (9940 Airline Hwy, Baton Rouge, LA 70816)



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 (A&WMA)

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