



# Baton Rouge Newsletter

Year 26, Number 5

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

January 12, 2016

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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.

## January 2016 Meeting

**Date:** Thursday, January 28, 2016

**Place:** Mezzo Technologies, 10246 Mammoth Ave., Baton Rouge, LA 70809

**Speaker:** **Kevin W. Kelley**, President, Mezzo Technologies

**Topic:** "Microtube Exchangers"

**Agenda:**  
5:30 PM – Social hour as guests arrive  
6:00 PM – Dinner and chapter announcements begin  
6:15 PM – Speaker presentation begins  
7:30 PM – Meeting adjourns

**Cost:** Free to guests. Courtesy of Mezzo Technologies.

### RESERVATIONS

Please make your reservation with chapter secretary, Donna Bryant, **by 5:00 PM on**

**Monday, January 25<sup>th</sup>** at

[donna.bryant@syngenta.com](mailto:donna.bryant@syngenta.com)

*Reservations required for this meeting if you want to guarantee a meal for yourself!*

### 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 2016 Events / Speakers

**01/21:** 4<sup>th</sup> Annual AIChE Industry Panel with LSU AIChE

**02/20:** Tour of Abita Springs Brewery. Joint meeting with New Orleans Section.

*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, William Buck, at [William.Buck@WinkEngr.com](mailto:William.Buck@WinkEngr.com) to schedule a meeting date and time.*

*Whatever you are, be a good one.*

**Abraham Lincoln.**

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## *January Meeting Abstract*

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Mezzo Technologies manufactures heat exchangers that utilize very small tubes (typical outer diameter ranges from 0.5-2 mm). These heat exchangers are being used in high performance racing applications (Formula 1, Indy Car, LeMans LMP1, etc.). Mezzo is currently being evaluated for some applications in military ground vehicles, and aerospace. Mezzo believes there may be potential in a wide range of industrial applications where tube side fouling is not problematic. It should be noted that Mezzo is the world leader in micro tube heat exchanger manufacture. Considerable testing in wind tunnels has been completed at Mezzo's facility. Those test results are incorporated in the Mezzo in-house thermal models that accurately predict performance. Mezzo has had to develop numerous manufacturing approaches that are unique to their product. The tour will give some insights into the infrastructure at Mezzo that is required to make high performance micro tube heat exchangers, and those who attend will be introduced to a new type of heat exchanger.

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## *January Meeting Speaker Biography*

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Kevin Kelly is a co-founder of Mezzo Technologies and has been the President since 2006. Prior to joining Mezzo, he received his Ph. D. in mechanical engineering from the Massachusetts Institute of Technology (1991), and joined the Mechanical Engineering faculty at Louisiana State University in 1993. He left LSU in 2008 to work full time for Mezzo. His expertise is heat transfer, with an emphasis on micro channel heat exchangers. His current focus at Mezzo, in addition to being the President, is business development.

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## *December Chapter Meeting Recap*

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The meeting took place at King's Buffet where we all enjoyed good and plentiful Chinese food. The speaker, Todd Jaco of MYNAH Technologies, presented his topic in a very relaxed and laid-back manner, inviting comments and questions from the audience throughout and presented coffee cups with his company's logo to those whom he thought made worthwhile contributions to the discussion. Todd presented an overview of the process simulation tools available today, their usefulness and their potential for benefitting major projects and general operations. He mentioned steady-state simulation but concentrated on dynamic simulation and how it can be used to train operators, design and evaluate control systems, and improve process operation. One interesting aspect is the interfacing of the simulation module with the process control system and operations consoles to study the control system and train operators. He explained how the simulation can be carried out at the same time as the design of capital projects and aid in every aspect of the design.

*Armando Corripio, Editor*

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## 2015 High School Grants Program Recap

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It was another great year for our high school grants program. Even though the submissions were down from a year ago, we had three schools petition for grants for their high school Chemistry classes. I never get tired of seeing how our section can make a difference in local classrooms and spark greater interest of our profession in high school students. This year Ascension Catholic High School, Bethany Christian School, and Southland Christian Academy were awarded grants totaling \$1425. To date, this means that we have awarded almost \$47,000 to area high schools since inception.

I wish to thank Exxon for the \$500 grant that they provided this year. It is great to see local industry as invested as we are in the promotion of high school students that might one day follow in our footsteps. I also want to especially thank all of the schools that submitted grant applications this year and all of the area Chemistry teachers that dedicate much of their time to their students. I look forward to next year's grant cycle and encourage all the Chemistry teachers to get involved in our grant process.

*Clark Snyder, Vice-Chair*

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### *From the Chapter Chair's Pen...*

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2016 looks to be an exciting year for the Baton Rouge chapter of AIChE. For me, as I transition into my new role as Chair it looks also to be very busy and challenging year ahead. Stephen Reilly has been a great role model in his term as Chair and I am thankful he is staying with us on the executive leadership team. Other changes in officer positions for the local chapter include Clark Snyder assuming the role of Vice Chair and Donna Bryant becoming our secretary for 2016. Armand Melikyan will now join the executive leadership team. Please welcome them and support them in these roles.

The Baton Rouge chapter has some excellent programs that we will continue in 2016. These programs support the chemical engineering profession through community recognition for individual accomplishment. This year we will again present the annual Coates award, the George Lappin Scholarship recognizes an outstanding Junior LSU chemical engineering student. Other programs support the development of Chemistry programs for high schools with our grant awards program. This year we plan to budget at least \$3000 for these grants.

I look forward to meeting many members throughout the upcoming year and ask for all of your support and participation to continue. Participating in your local AIChE chapter is a great way to develop professionally. Our meetings and seminars give opportunity to earn professional development (PDH) credit. The networking opportunity from attending meetings is also valuable to our membership. As always, I am open to member ideas and contributions to help grow our chapter. So do not hesitate to email or call throughout the coming year.

*W.D. Burch*



## 2016 Section Contacts

### **Officers**

**Chair:** William Buck, [William.Buck@WinkEngr.com](mailto:William.Buck@WinkEngr.com)  
**Vice Chair:** W. Clark Snyder, [WClarkSnyder@hotmail.com](mailto:WClarkSnyder@hotmail.com)  
**Secretary:** Donna Bryant, [Donna.Bryant@Syngenta.com](mailto:Donna.Bryant@Syngenta.com)  
**Treasurer:** Oscar Alfaro, [Oscar.Alfaro@Jacobs.com](mailto:Oscar.Alfaro@Jacobs.com)

### **Executive Committee Members**

Glenn Bryson, [BGBryson@BellSouth.net](mailto:BGBryson@BellSouth.net)  
Jimmy Orr, [Jimmy.Orr@Jacobs.com](mailto:Jimmy.Orr@Jacobs.com)  
Noel Ricord, [LCNoel55@aol.com](mailto:LCNoel55@aol.com)  
Stephen Reilly, [stephen.reilly@prosys.com](mailto:stephen.reilly@prosys.com)  
Armand Melikyan, [Armand.Melikyan@WinkEngr.com](mailto:Armand.Melikyan@WinkEngr.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:** (OPEN)  
**High School Grants:** W. Clark Snyder, [WClarkSnyder@hotmail.com](mailto:WClarkSnyder@hotmail.com)  
**Membership:** Glenn Bryson, [BGBryson@BellSouth.net](mailto:BGBryson@BellSouth.net)  
**Newsletter:** Armando Corripio, [Corripio@LSU.edu](mailto:Corripio@LSU.edu)  
**Nominations:** (OPEN)  
**Professional Development:** Randy Goodman, [Randy.Goodman@LA.gov](mailto:Randy.Goodman@LA.gov)  
**Seminars:** Jimmy Orr, [Jimmy.Orr@Jacobs.com](mailto:Jimmy.Orr@Jacobs.com)  
**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.

Advertise your business, post career opportunities, and more here!

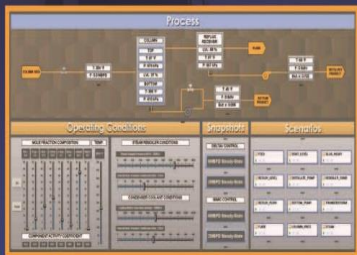
The Baton Rouge AIChE chapter welcomes sponsorships from all industries year-round.

For more information, contact our  
Sponsorship Committee Chair today!

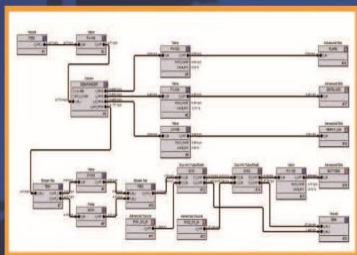


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### NOMINATIONS FOR COATES AWARD

The deadline for nominations for the Coates Award is March 1<sup>st</sup>. If you would like to nominate one of your colleagues please contact [Joseph.Dalferes@Jacobs.com](mailto:Joseph.Dalferes@Jacobs.com). A member of our local section should get the award this year.

The award is given for contributions to the profession, the society, and the community. The nominator must obtain three letters of support from individuals familiar with the nominee's activities in each of the three areas, one letter for each area. A letter summarizing these activities and the nominee's résumé are the other items in the nomination package.



### ON THE LIGHTER SIDE

A preacher tells his congregation, "If you want to go to Heaven move to the front of the church." Everybody moves to the front except one man, so he says it again. The man remains in the back of the church. So the preacher asks him, "Don't you want to go to Heaven when you die?" Then the man says, "Ah, when I die. I thought you were getting a group together to go right now."

