



The Western Palmetto Informer

American Institute of Chemical Engineers

January 2011

Volume 10, Issue 4

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Contact Information

Visit our website:

<http://wsc.aiche.org>

Email us at:

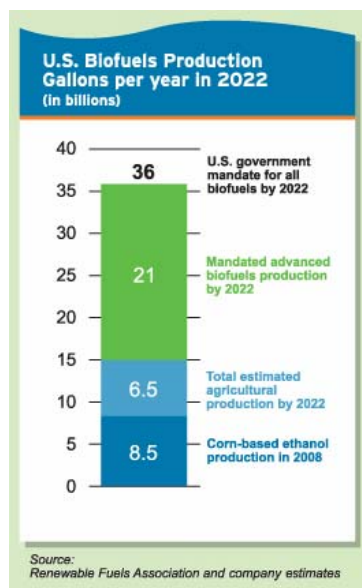
sec@wscaiche.org

November Meeting Thank You

WSCAICHE would like to extend a thank you to John Corcoran of Custom Equipment Solutions for his wonderful presentation on "Optimizing Efficiency with Heat Exchanger Technology Selection". John's presentation focused on the recent developments of non-tubular and enhanced tubular heat exchangers and it was enjoyed by all.

NEXT MEETING

January Meeting: "Producing Ethanol from Garbage: Ready for Commercialization"



Fulcrum BioEnergy has designed a process, using thermochemical methods, to convert post-sorted municipal solid waste (MSW) into fuel grade ethanol. The process uses two new technologies to synthesize the ethanol, partial oxidation of the MSW in combination with a plasma arc unit and a new ethanol synthesis catalyst. These two technologies have been tested and proven in two process development units (PDU). The path to commercialization has been going on for over three years; the site is selected, the State of Nevada air permit is approved, the EPC contractor is selected, and Fulcrum BioEnergy has been selected by the DOE for inclusion in their loan guarantee program.

Lewis Lee Rich, Vice President of Engineering, Construction and Operations. Lee brings to Fulcrum a unique perspective on engineering, acquired from more than 30 years of domestic and international experience in the chemical and energy industries. Lee has a B.S. in chemical engineering from the Georgia Institute of Technology. He holds an M.B.A. from the University of Tulsa and an M.A. in interdisciplinary studies from the University of Houston.



A Rendition of a Fulcrum BioEnergy MSW to Ethanol Plant.

JANUARY MEETING SUMMARY

- TOPIC:** Producing Ethanol from Garbage: Ready for Commercialization
- SPEAKER:** Mr. Lewis Lee Rich, Fulcrum BioEnergy
- DATE:** Tuesday, January 11, 2011
- TIME:** 6:00 PM Social
6:30 PM Dinner
7:00 PM Presentation
- LOCATION:** **Hilton, Greenville**
45 West Orchard Park Drive
Greenville, SC 29615-3548
- DIRECTIONS:** I-385 @ Haywood Road Exit #39.
- COST:** \$10 for Members
\$15 for Non-members
Free to Attend Presentation Only

Please reply to Secretary Alan Vibber at sec@wscaiche.org by Friday, January 7, 2011.

Note that the dinner portion of the meeting is not mandatory. Arrive by 7:00 pm if you want to attend the presentation without dinner.

Only RSVP if you plan to dine with us.

Farewell to Austin Crooks



As some of you may already know, Austin has accepted a position in Charleston, SC and has stepped down as Treasurer. Beginning January 2011, Michael Thompson will be assuming his responsibilities for the remainder of this year.

Over the last three years, Austin has served WSCAICHe as Vice-Chair, Chair and Treasurer. We will miss him in the Upstate. **BEST WISHES AUSTIN!**

Cheap First Time Memberships to AIChE!!

Stumped for what to give a colleague or close friend? Give the gift of membership in the Institute to a deserving engineer at a special price of only \$49. Share the benefits of AIChE membership with a colleague, an outstanding employee, a rising star in your company, a niece or nephew entering the workforce -- anyone who wants to reach the peak of their profession. This offer is reserved exclusively for new members of AIChE, defined as someone who hasn't been a member in the last 3 years. See details at <http://www.iche.org/joinnow/gift.aspx>.

2010-2011 Calendar of Events

DATE	LOCATION	TOPIC
11 Jan 2011	Hilton	<i>Lewis Lee Rich</i> - "Producing Ethanol from Garbage: Ready for Commercialization"
8 Feb 2011	Hilton	<i>John Warner III</i> - Developing South Carolina's knowledge economy and the role that education plays.
12 Feb 2011	Roper Mountain Science Center	Second Saturday - Kids Engineering Day
8 Mar 2011	Hilton	<i>Dr. Fred Weber</i> - "Wicked Cool Excel Magic Tricks and Macros"
12 Apr 2011	TBA	Plant Tour
TBA - May 2011	Fluor Field	Greenville Drive Baseball Game Social

Active participation in professional societies as well attending our professional and technical presentations count towards Continuing Professional Competency requirements for Licensed Professional Engineers. Upon request, the Section Secretary can provide attendance verifications for this purpose to our members.

2010-2011 Officers and Executive Committee

This is YOUR local section of the American Institute of Chemical Engineers. If you have ideas or concerns regarding operation of the WSCAICHe OR if you're a member with a desire to serve, please contact any of the Officers or Executive Committee members listed below.

POSITION			
Chair	NAME	EMAIL	PHONE
Chair	Rick Vogel	rvogel1@hotmail.com	864-254-6474
Vice-Chair / Treasurer	Mike Thompson	michael.thompson@dayzim.com	864-940-6464
Secretary	Alan Vibber	sec@wscaiche.org	864-554-3906
Webmaster	Mohammad Fatayerji	mohammad.fatayerji@fluor.com	864-281-6639

Other Executive Committee Members are: Mary Ferris, Eugene Gill, David Harshbarger & David Laursen.

Annual WSCAICHe's \$1000 Clemson Scholarship

Calling all you Clemson Chemical Engineering Seniors and Juniors with projected graduations between August 2011 and May 2012. Fill out the attached scholarship form and email it the section secretary by midnight January 29th to apply for the WSCAICHe \$1000 Clemson Chemical Engineer Scholarship. The award presentation will be made during the February 12th Meeting.

WESTERN SOUTH CAROLINA AICHE SECTION SCHOLARSHIP

The Western South Carolina Section of the American Institute of Chemical Engineers is pleased to support the Chemical Engineering program at Clemson University by offering a \$1,000 scholarship. This scholarship is to be awarded to a returning Chemical Engineering student with a projected graduation date between August 2011 and May 2012

The \$1,000 award will be presented at the joint meeting between the Clemson Student Chapter and the Western South Carolina AICHE Section on February 8, 2011.

Applications are available at <http://wsc.aiche.org>. Completed applications are due to the Western South Carolina AICHE Section Secretary at sec@wscaiche.org by midnight on January 29, 2011, in PDF or Word format. The Secretary will email reply receipt of application.

Name of Student: _____

Student email address: _____ Phone: _____

AICHE Student Chapter Member? Yes No

Expected Graduation Date: _____

Chemical Engineering Courses Completed	Semester Course was completed	Credits	Grade
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Calculate the average of *only the courses listed above* to determine your chemical engineering GPA: _____

List extracurricular activities and describe special duties (e.g., offices held, etc.)

Attach two written essays (250 words maximum per essay, typed):

- 1) Describe your career goals as a chemical engineer.
- 2) Describe (in words that a freshman engineering student could understand) what a practicing chemical engineer does.