



American Institute of Chemical Engineers

# *The Western Palmetto Informer*

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## Contact Information

Visit our website:  
[www.aiche.org/wsc](http://www.aiche.org/wsc)

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[sec@wscaiche.org](mailto:sec@wscaiche.org)

## January 10<sup>th</sup>, 2017 - Energy Choices and Consequences

**Abstract:** With the world's population approaching nine billion by the year 2040, achieving a healthy lifestyle for all people on earth will depend, in part, on the availability of affordable energy, especially electricity. This presentation addresses the various options for producing and using electricity, and the consequences associated with each option. The options include fossil, renewables, nuclear, and conservation. All energy options are needed, but some options may be better than others when compared in the following areas: economics, environmental effects, public health and safety, sustainability, and politics.

**Bio:** Dr. H.L. (Lee) Dodds is IBM Professor of Engineering and Department Head, Emeritus, in the University of Tennessee Nuclear Engineering (UTNE) Department. He joined UTNE in 1976 after working for the DuPont Company at the Savannah River Laboratory for six years. He began serving as UTNE Department Head in early 1997 and retired in December 2011. He also previously worked at the Oak Ridge National Laboratory and the National Aeronautics and Space Administration. Dr. Dodds earned B.S., M.S., and Ph.D. degrees in nuclear engineering at UT. He has served as a consultant for the U.S. Department of Energy and several American, Canadian, and Dutch research institutes and companies. He currently serves on the External Advisory Boards for the nuclear engineering programs at The Ohio State University and Virginia Commonwealth University. He is also a past member of the Accreditation Board of the National Academy for Nuclear Training, which is part of the Institute of Nuclear Power Operations, a current member of the National Board of Directors of the American Nuclear Society (ANS), and a past member of the National Board of Directors of the Nuclear Energy Institute (NEI). Dr. Dodds has

received many awards including the ANS Arthur Holly Compton National Teaching Award. He is a Licensed Professional Engineer in Tennessee and a Fellow of ANS.

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## **November Meeting Thank-You**

A big thank you to Dr. Erik Brandon for a very interesting talk on methods of generating and storing energy for interplanetary and interstellar spacecraft, how the mission length and objectives determines the type of energy generation/storage, and future areas of research. Thanks are also due to the American Chemical Society (ACS) who arranged for Dr. Brandon to speak.

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## **Open Officer Positions**

We have a couple of unfilled officer positions for the 2016-2017 season. Take a look at the position descriptions below, and consider if you are able to help out!

### **Secretary**

- Update monthly newsletter
- Send monthly newsletter to distribution list using MailChimp software
- Collect RSVPs received the weekend before next meeting
- List names from RSVPs and forward to Treasurer

### **Webmaster**

- Create meeting announcement on WSCAICHe website
- Post newsletter to WSCAICHe Facebook page
- Keep distribution list up-to-date
- Maintain WSCAICHe domain name (yearly)

## AIChE January Meeting Information

<b>TITLE:</b>	Energy Choices and Consequences
<b>DATE:</b>	Tuesday, January 10 <sup>th</sup> , 2017
<b>TIME:</b>	6:00 PM Social 6:30 PM Dinner 7:00 PM Presentation
<b>LOCATION:</b>	CH2M Offices 200 Verdae Blvd. Greenville, SC 29607 (864) 920-7300
<b>DIRECTIONS:</b>	Take I-385 Exit 37 (Roper Mountain Rd.) From I-385 S: Turn right on Roper Mountain Rd From I-385 N: Turn left on Roper Mountain Rd Continue straight past Woodruff Rd onto Verdae Blvd. Go past Embassy Suites to the 2 <sup>nd</sup> light and turn left into the CH2M parking lot Enter Lobby - Meeting room is on the left
<b>DINNER COST:</b>	\$10 for WSCAICHe members \$15 for Non-members

**To guarantee dinner, RSVP by 5 PM - Monday, January 9, 2017 to: WSCAICHe Secretary - [sec@wscaiche.org](mailto:sec@wscaiche.org)**

The dinner portion of the meeting is not mandatory. Plan to arrive by 7:00 pm if you would like to attend the presentation without dinner. Both the dinner and meeting are open to all interested people - no AIChE membership is required!

**Only RSVP if you plan to dine with us.**

## 2016-2017 Calendar of Events

DATE	LOCATION	TOPIC
13 Sept 2016	CH2M	Project Management - John Brady, CH2M
11 Oct 2016	Clemson University Madren Center	Panel Discussion on Chemical Engineering Careers
15 Nov 2016	Michelin Conference Center	ACS Joint Meeting: Powering the Next Generation of Robotic Space Exploration - Erik Brandon, NASA JPL
Dec 2016	None	Happy Holidays!
10 Jan 2017	CH2M	Energy Choices and Consequences - Prof. H.L. (Lee) Dodds, Univ. of Tennessee
14 Feb 2017	CH2M	TBD - Professor, Clemson University
14 Mar 2017	CH2M	Chemical Process Equipment - RE Mason
11 Apr 2017	Shaw Industries Central, SC	Plant Tour - Shaw Industries
09 May 2017	TBD	WSCAICHe May Social

## 2016-2017 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 are a member who would like to help out, please contact any of the Officers or Executive Committee members listed below:

POSITION	NAME	COMPANY	E-MAIL
Chair	Jacob Lindler	aeSolutions	jllindler@yahoo.com
Vice-Chair	Marty Milne	PinPoint Solutions	martymilne@gmail.com
Secretary	VACANT		
Treasurer	Rick Vogel	Fulcrum BioEnergy	rvogel1@hotmail.com
Webmaster	VACANT		
Historian	David Hine	Fujifilm	dhine@fujifilm.com
Former Chair	Mary Ferris	Michelin	maryferris@charter.net
Executive Committee	Don Gurney	Retired	degurney@charter.net
	Karl McCaleb	Mitsubishi	kmccaleb2@bellsouth.net

## Clemson Scholarship Support to Continue

The Executive Committee has again agreed to support a single student enrolled in Clemson's Chemical and Biomolecular Engineering program with a \$1,000 scholarship. The scholarship is open to all ChBE students who will be graduating between August 2017 and May 2018. The scholarship will be awarded during the February 2017 WSCAICHE - Clemson AIChE joint meeting. The application is attached to this newsletter.

## 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 2017 and May 2018.

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 14, 2017.

Completed applications are due to the Western South Carolina AIChE Section Secretary at [sec@wscaiche.org](mailto:sec@wscaiche.org) by midnight on January 22, 2017, in PDF or Word format. The Secretary will reply by e-mail on receipt of application.

Name of Student: \_\_\_\_\_

Student email address: \_\_\_\_\_ Phone: \_\_\_\_\_

Student ID # \_\_\_\_\_ AIChE Student Chapter Member? Yes \_\_\_\_\_ No \_\_\_\_\_

Expected Graduation Date: \_\_\_\_\_

ChBE Course Name	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.