



# *The Western Palmetto Informer*

American Institute of Chemical Engineers

September 2012

Volume 12, Issue 1

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## Contact Information

Visit our website:

<http://wsc.aiche.org>

Email us at:

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

## Message from the Chair

I would like to say hello and welcome to all WSCAICHE members and professional friends as we enter another season of local AICHE chapter meetings and activities. I look forward to serving the local chapter along with this year's officers and executive committee members, which represent the wide range of fields where Chemical Engineers are working in our section of the state, i.e. engineering design & service, academia, and the manufacturing industries -

Chair	Karl McCaleb, P.E.	Sr. Process Engr., Mitsubishi Film
Vice-Chair	Mary Ferris	Industrial Methods Engineer, Michelin
Secretary	Jeremiah Batiste	Process Engineer, FLUOR
Treasurer	Alan Vibber	Chemical Engineer, FUJIFILM
Former Chair	Don Gurney, Sc.D., P.E.	Adjunct Professor, USC Upstate
Executive Committee Members	Rick Vogel	Process Engineer, Fulcrum BioEnergy
	Mike Thompson	Process Engineer, FLUOR

We have some very interesting programs planned for this year, which include two joint meetings with the ASME & ACS local chapters. This initiative has added additional resources and more variety of topics along with a larger networking base with other professional societies in the upstate area.

Professional Development Hour certificates of (1) PDH credit per meeting will be provided again this year for attendees needing them for their continuing educational requirements.

We appreciate your continued interest and support of our local AICHE chapter, Western South Carolina Section.

In high regards,  
Karl D. McCaleb, P.E.

## NEXT MEETING - September 20, 2012

### “Importance of Water Quality to the Steam Cycle”

Please join us for Dennis McBride’s presentation on the “Importance of Water Quality to the Steam Cycle.” Steam is an integral part of many industrial operations. It is used for anything from being a heat source to being a means of converting one energy source (e.g. natural gas, coal, nuclear, etc.) to another (e.g. electricity). Water quality is a vital consideration in all steam cycle applications. The allowable amount of solids varies widely depending on the application. This presentation will discuss;

- The difference between water quality and water purity
- Why water quality is important
- Defining water quality
- Achieving and maintaining the necessary water quality

Mr. McBride has over 30 years of water treatment experience. This experience spans a range of industries including power, semiconductor manufacturing, oil production and refining, chemical plants, and primary metals. He is experienced in many areas of water treatment including pretreatment, purification, waste treatment, and chemical treatments. He has specialized in water conservation and reuse for much of his career and was responsible for the initial development work for the HERO® technology.

He has written, or co-authored, seven papers covering topics including water conservation, corrosion, energy/water nexus, and water system modeling. He has made presentations for the International Water Conference (IWC), National Association of Corrosion Engineers (NACE), and the American Boiler Manufacturers Association (ABMA). He has also been published twice in Ultrapure Water Magazine. Mr. McBride also presents an annual introduction to water treatment workshop at the IWC titled “Water Treatment 101”.

Mr. McBride has a BS degree in Metallurgical Engineering from the University of Texas- El Paso. He is the current General Chair for the International Water Conference and a member of both the ASME and AIChE. Mr. McBride is a Principal Process/Specialty Engineer and has been designated a Fellow for Fluor Enterprises, Inc. with the specialty of water and wastewater treatment.

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## SEPTEMBER Meeting Information

- TITLE:** Importance of Water Quality to the Steam Cycle  
(Joint meeting with ASME)
- DATE:** THURSDAY September 20, 2012  
6:00 PM Sign-in / Social
- TIME:** 6:15 PM Dinner  
7:00 PM Presentation
- LOCATION:** **Greenville Tech Activities and Registration Center  
(formerly McAlister Square)**  
225 S Pleasantburg Drive  
Greenville, SC 29607
- DIRECTIONS:** I-385 @ N Pleasantburg Dr. Exit # 40B
- COST:** \$10\* for Members  
\$15\* for Non-members  
\*WSCAICHE will make up difference in cost with our ASME hosts.  
Free to Attend Meeting Only

**Please reply by Tuesday, September 18, 2012 to Secretary -  
Jeremiah Batiste at [sec@wscaiche.org](mailto:sec@wscaiche.org)**

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.**

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## 2012-2013 Calendar of Events

DATE	LOCATION	TOPIC
20 Sep 2012	McAlister's Square	Importance of Water Quality to the Steam Cycle - Dennis McBride, Fluor, (ASME Joint Meeting)
09 Oct 2012	Clemson University Madren Center	Filter Types & Specifications for Process Filtration - Drew Willoughby, 3M Purification
13 Nov 2012	Greenville Hilton	Project & Risk Management - Tom Moran, Fluor, Corporate Risk Group
08 Jan 2013	Michelin Donaldson Center	TBA - (ACS Joint Meeting)
12 Feb 2013	Greenville Hilton	TBA - Clemson University Provided Speaker
12 Mar 2013	Greenville Hilton	Automation Trends - Bud Blankenship, Mustang Engineering
Mar 2013	Carolina First Center	Science Fair Judging for the Greenville County Science Fair
09 Apr 2013	TBA	TBA
09 May 2013	Roper Mountain Science Center	Planetarium / Family Social - Valerie Mosher, RMSC Curator of Engineering and Technology

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### Clemson Scholarship Support to Continue

The Executive Committee has again agreed to support Clemson's Chemical Engineering program with a \$1,000 scholarship. Details regarding the application process will be available at our October meeting.

## 2012-2013 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	NAME	EMAIL	PHONE
Chair	Karl McCaleb	kmccaleb@bellsouth.net	843-858-1182
Vice-Chair	Mary Ferris	MaryFerris@charter.net	864-498-3436
Secretary	Jeremiah Batiste	sec@wscaiche.org	864-281-4568
Treasurer	Alan Vibber	treasurer@wscaiche.org	864-554-3906
Webmaster	Eugene Gill	eugene@eugenegill.com	864-281-8627
Historian	David Hine	dhine@fujifilm.com	864-993-8235
Former Chair	Don Gurney	degurney@charter.net	864-879-7935
ECM*	Rick Vogel	rvogel1@hotmail.com	864-420-5777
	Mike Thompson	mike.thompson@fluor.com	864-281-6791

(\* Executive Committee Member)

# 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 2013 and May 2014.

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 12, 2012.

Applications are available at <http://wsc.aiche.org>. Completed applications are due to the Western South Carolina AICHE Section Secretary at [sec@wscaiche.org](mailto:sec@wscaiche.org) by midnight on January 19, 2013, in PDF or Word format. The Secretary will email reply receipt of application.

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

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

Student ID # \_\_\_\_\_ 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.