



The Western Palmetto Informer

American Institute of Chemical Engineers

November 2013

Volume 13, Issue 3

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Contact Information

Visit our website:

<http://wsc.aiche.org>

Email us at:

sec@wscaiche.org

NEXT MEETING - November 12, 2013

Development of a Non-Pneumatic Wheel

A non-pneumatic wheel or Tweel[®], meaning the integration of the tire and wheel, is a recent invention of engineers at Michelin Research in Greenville, SC. This talk examines the characteristics of the pneumatic tire that have made it so successful and unchallenged for the last 125 years. A non-pneumatic structure is proposed that exhibits the same critical characteristics as the pneumatic tire. Additional benefits, challenges, and applications will be discussed.

The talk will be presented by Tim Rhyne, Michelin researcher, and adjunct professor at Clemson University ICAR (International Center for Automotive Research). Tim is a runner and car enthusiast and has received four best paper awards from the Tire Society and is an associate editor for the journal, Tire Science and Technology. He was honored to give the plenary lecture for the Tire Society Conference. Tim holds numerous patents in tire technology and has published many papers on tire related subjects.

Tim began work at Michelin's research and development center in Greenville SC in 1978 in the machine design group. He has worked in tire development since 1986, primarily designing replacement market tire lines and introducing new technology in Michelin tires. In 1996 he began work in tire research exclusively. For the last 16 years he has worked with a team conceiving and developing new concepts in mobility.

Links to the complete abstract for this meeting may be found on our website and may be updated upon completion of the presentation.

We look forward to seeing you there!

NOVEMBER Meeting Information

TITLE: Development of a Non-Pneumatic Wheel
Presented by Timothy B. Rhyne

DATE: Tuesday, November 12, 2013

TIME/PLACE: Hilton on Haywood Road

6:00 PM Social
6:30 PM Dinner
7:00 PM Presentation

DIRECTIONS: I-85 to I-385 N towards Greenville
Exit 35, Haywood Road
TURN Right off of exit ramp,
TURN Left at first light (have to cross 3 lanes of traffic)
Hotel is on the left behind/next to the Bank of America

COST: \$10 for Members, \$15 for Non-members
Free to Attend Presentation Only

**Please RSVP by 2PM - Friday, November 8th, 2013 to
Secretary - Conny Walker at sec@wscaiche.org**

Clemson Scholarship

The Executive Committee has again agreed to support Clemson's Chemical and Biomolecular Engineering program with a \$1,000 scholarship. The application is attached to this newsletter.

Science & Engineering Fair Support Continues

Our section will continue to assist in judging student projects and providing monetary awards at the South Carolina Regional Science & Engineering Fair in 2014. Please contact Conny Walker, at sec@wscaiche.org if you or your company is interested in sponsoring judges or special awards for this endeavor.

2013 - 2014 Upcoming Events

DATE	LOCATION	TOPIC
12 Nov 2013	Greenville Hilton	Mr. Tim Rhyne, Michelin - Michelin's Newest Technology "Tweel"
14 Jan 2014	Greenville Hilton	Mr. Kendall Oliphant, Horsehead Metal Products, Inc.
11 Feb 2014	Greenville Hilton	TBA - Clemson University Provided Speaker
11 Mar 2014	FUJIFILM Greenwood, SC	Plant tour - FUJIFILM Water Recycling System
Mar 2014	Carolina First Center	Science Fair Judging for the Greenville County Science Fair
08 Apr 2014	ASHLAND, INC. Piedmont, SC	Plant tour - ASHLAND
May 2014	TBD	Family Social

2013-2014 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	Rick Vogel	rvogel1@hotmail.com	864-420-5777
Vice-Chair	Mary Ferris	MaryFerris@charter.net	864-498-3436
Secretary	Conny Walker	sec@wscaiche.org	864-483-2920
Treasurer	Alan Vibber	alan@vibber.com	864-554-3906
Webmaster	Jacob Lindler	Jlindler@yahoo.com	704-689-3880
Historian	David Hine	dhine@fujifilm.com	864-993-8235
Former Chair	Karl McCaleb	Kmccaleb2@bellsouth.net	843-858-1182
Executive Committee Members	Don Gurney	degurney@charter.net	864-879-7935
	Mike Thompson	mike.thompson@fluor.com	864-281-6791
	Jeremiah Batiste	Jeremiah.Batiste@fluor.com	864-281-4568

WESTERN SOUTH CAROLINA AIChE SECTION SCHOLARSHIP

The Western South Carolina Section of the American Institute of Chemical Engineers is pleased to support the Chemical and Biomolecular Engineering program at Clemson University by offering a \$1,000 scholarship. This scholarship is to be awarded to a returning Chemical and Biomolecular Engineering student with a projected graduation date between August 2014 and May 2015.

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 11, 2014.

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 noon on January 19, 2014, 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.