



American Institute of Chemical Engineers

The Western Palmetto Informer

November 2017

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Contact Information

Visit our website:
www.aiche.org/wsc

E-Mail us at:
sec@wscaiche.org

November 14th, 2017 -

Advances in real-time trace gas analysis: How SIFT-MS is disrupting the analytical industry

This month, we will, once again, be having a joint meeting with the American Chemical Society. The presentation will focus on the real-time, high-sensitivity, direct sampling technique called



Selected Ion Flow Tube Mass Spectrometry (SIFT-MS). This is a powerful tool for material emissions analysis, health and safety, food and flavor, and environmental monitoring. It allows simultaneous, instant analysis of compounds as diverse as aldehydes, sulfur compounds, nitrogen compounds, hydrocarbons, and aromatics. The presentation will review the theory behind the technique, it will include key examples of where the technique is utilized and show how SIFT-MS is changing the way

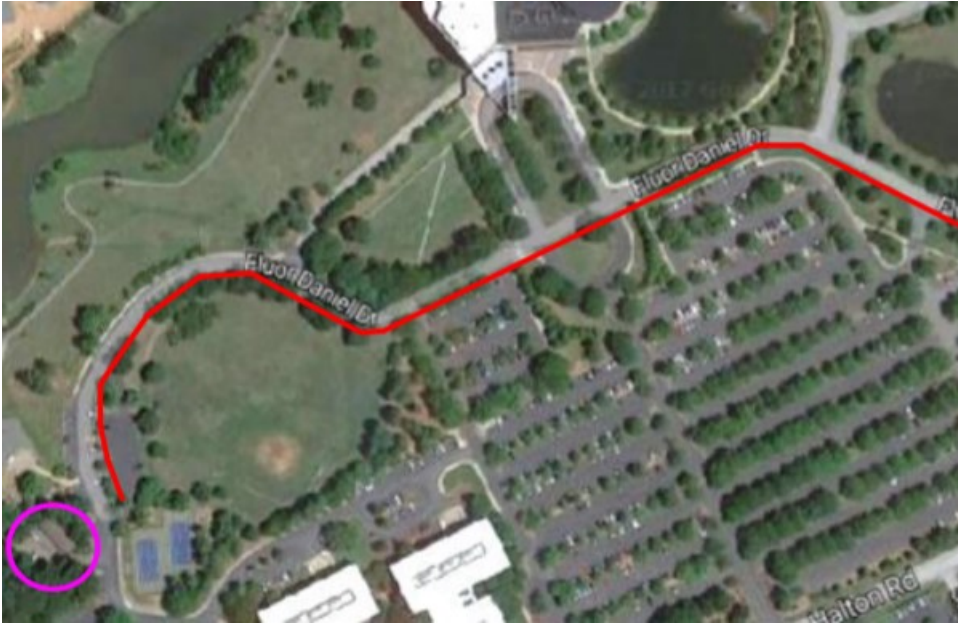
chemical analysis is performed

The speaker will be Billy Mills who works on developing new applications and relationships with customers, and introducing the technique to new industry areas with Syft Technologies.

November Meeting Thank-you

WSCAICHE would like to extend a thank you to Olivia Layman and the Clemson University staff and students for hosting our meeting and providing the tour of the steam plant on October 10, 2017.

November Meeting Information

TITLE:	JOINT ACS/AIChE Meeting Advances in real-time trace gas analysis: How SIFT-MS is disrupting the analytical industry
DATE:	Tuesday, October 14, 2017
TIME:	6:00 PM Social 6:30 PM Dinner 7:00 PM Presentation
LOCATION:	Management Training Center Fluor Daniel Drive, Greenville, SC 29607
DIRECTIONS:	From 85, exit 385 towards Greenville Stay right as you merge and take exit #37 (2 lanes exit, use left) Turn left onto Roper Mountain Road Turn right onto Woodruff Road Turn right onto Mall Connector Road Turn left onto Fluor Daniel Drive Follow to the end of the road, building will be on the left 
DINNER COST:	\$10 for WSCAICHe members \$15 for Non-members

**Please RSVP by 5 PM - Sunday, November 12, 2017 to:
Secretary - sec@wscaiche.org**

Note that the dinner portion of the meeting is not mandatory.

Both the dinner and tour are open to all interested people - no AIChE or ACS membership is required!

Only RSVP if you plan to dine with us.

Open Officer Positions

We have a couple of unfilled officer positions headed into 2017-2018. 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

Historian

- Take pictures during meetings
- Update pictures on the website

2017-2018 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	Marty Milne	PinPoint Solutions	martymilne@gmail.com
Vice-Chair	Mary Ferris	Michelin	maryferris@charter.net
Secretary	VACANT		sec@wscaiche.org
Treasurer	Rick Vogel	Fulcrum BioEnergy	rvogel1@hotmail.com
Webmaster	Conny Walker	GCSD	sec@wscaiche.org
Historian	VACANT		
Former Chair	Jacob Lindler	aeSolutions	jllindler@yahoo.com
Executive Committee	Steve Sferra	Century3	stevesferra@verizon.net
	Karl McCaleb	Mitsubishi	kmccaleb2@bellsouth.net

2017-2018 Calendar of Events

DATE	LOCATION	TOPIC
19 Sept 2017 Part A - REWA Tour	3:15 PM at ReWa in Mauldin	Technical challenges in Operation - Randy Boyette, ReWa
Part B - REWA Speaker	6:00 PM at CH2M Offices	Technical challenges and Tunnel Project - Graham Rich, ReWa
10 Oct 2017	Earle Hall at Clemson University	Clemson University - Central Steam Plant Operations and Tour - Tony Putnam, Director of Utility Services
14 Nov 2017	Fluor Management Center	ACS Joint Meeting - SIFT-MS (Selected Ion Flow Tube - Mass Spectroscopy) -
Dec 2017	None	Happy Holidays!
16 Jan 2018	CH2M	Static Electricity (STS) - Elizabeth Matthews, NewsGale
13 Feb 2018	CH2M	TBD - Professor, Clemson University & Announce Scholarship Winner
13 Mar 2018	CH2M	Total Tank Management and Monitoring - Travis Lunn, RE Mason
10 Apr 2018	CH2M	Process Safety Management Auditing - Bruce Stevens, AMEC
Saturday, 12 May 2018	Sierra Brewery in Asheville	WSCAICHe May Social - Sierra Brewery Tour and Brunch (Since we'll be there, maybe canoe/kayak the French Broad River if anyone wants?!)

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 2018 and May 2019. The scholarship will be awarded during the February 2018 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 2018 and May 2019.

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 13, 2018.

Completed applications are due to the Western South Carolina AIChE Section Secretary at sec@wscaiche.org by midnight on January 26, 2018, 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: _____

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.