



# The Western Palmetto Informer

American Institute of Chemical Engineers

January 2015

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## Contact Information

Visit our website:

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

Email us at:

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

## Layers of Protection Analysis

### An Overlooked PSM Tool

This month Bruce Stevens, senior process engineer and staff consultant at AMEC Foster Wheeler International and Consulting, will discuss Layers of Protection Analysis (LOPA). HAZOP and other risk assessment tools are widely used in various industries in conforming to the OSHA PSM standard 1910.119. While HAZOPs identify and rank potential risks, they do not assess the adequacy of safeguards which are intended to ensure a safe work environment. LOPA is a tool which assesses and identifies gaps in the adequacy of safeguards. Bruce will present the LOPA process and provide some examples from a variety of industries.

Bruce Stevens joined AMEC in May, 2014, with 30+ years of Process Design, Project Management, Business Development, and Process Safety Management experience. His career has spanned concentrations in Biomass Energy Conversion, Gas-To-Liquids, Coal Gasification as well as Specialty Chemical and Oil & Gas including LNG and Gas Processing. Bruce's previous roles have included Senior Process Design Engineering, Production Plant Management, R&D Technical Management, HAZOP and LOPA Facilitation, Project Management, M&A Management, as well as General Management.

Dinner Details:

We will once again be enjoying a meal with a varied menu from Stax Grill. Please come early to place your menu order, as we will be starting the presentation promptly at 7:00PM. \$10 for members, \$15 for non-members and guests.

**Please RSVP by 5PM - Friday, January 9, 2015**

Email Conny Walker at [sec@wscaiche.org](mailto:sec@wscaiche.org), or use our Facebook Event -

[January 13, 2015 Meeting](#)

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## Dinner Menu Options at Stax

Include your dinner menu selection in your RSVP!

Top Sirloin Steak  
Broiled Fresh Salmon  
Mediterranean Chicken  
Stuffed Flounder  
Tea/Water included

Dessert/drinks may be ordered on an individual basis

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## Thank-you!

Thank-you to Frank Tappen, director of North American sales for DataNet for the November presentation on Statistical Process Control

Thank-you also to Rick Vogel for hosting the remote presentation.

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## January Meeting Information

**TITLE:** Layers of Protection Analysis - An Overlooked PSM Tool

**DATE:** Tuesday, January 13, 2015

**TIME:** 6:00 PM Social, 6:30 PM Dinner  
7:00 PM Presentation

**Note NEW** Stax Grill

**LOCATION:** 850 Woods Crossing Road, Greenville, SC 29601  
864-288-5546  
**Stax Grill Website:** [www.staxsgrill.com](http://www.staxsgrill.com)

**DIRECTIONS:** From I-385N, take exit #39 for Haywood Road  
Turn left (S) on Haywood Rd,  
Turn left at 4<sup>th</sup> light (BK and BB&T on right)  
Pass the Jason's Deli and turn right into parking lot  
Stax Grill is to the left on the SE corner of the shops.

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

## 2014-2015 Officers and Executive Committee

This is YOUR local section of the American Institute of Chemical Engineers.  
If you are member with a desire to serve, please contact any of the Officers or Executive Committee members listed below.

POSITION	NAME	EMAIL	PHONE
Chair	Alan Vibber	alan@vibber.com	864-554-3906
Vice-Chair	Mary Ferris	MaryFerris@charter.net	864-498-3436
Secretary	Conny Walker	sec@wscaiche.org	864-483-2920
Treasurer	Jacob Lindler	jllindler@yahoo.com	704-689-3880
Webmaster	Jacob Lindler	jllindler@yahoo.com	704-689-3880
Historian	David Hine	dhine@fujifilm.com	864-993-8235
Former Chair	Rick Vogel	rvogel1@hotmail.com	864-420-5777
Executive Committee Members	Don Gurney	degurney@charter.net	864-879-7935
	Karl McCaleb	Kmccaleb2@bellsouth.net	843-858-1182

## 2014-2015 Calendar of Events

DATE	LOCATION	TOPIC
13 Jan 2015	Stax Grill, Greenville, SC	LOPA - Bruce Stevens, AMEC
10 Feb 2015	Stax Grill, Greenville, SC	Joint meeting with the Clemson Student Chapter
10 Mar 2015	Stax Grill, Greenville, SC	Topic to be determined
Apr 2015	Inman, SC	Plant Tour - Milliken
May 2015	TBD	Family Social

## 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 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 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 2015 and May 2016.

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 10, 2015.

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 noon on January 18, 2015, 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.