

# TRIAD CHEMICAL TIMES



Central North Carolina Section American Chemical Society

## Two Big March Meetings



### 13th Annual Poster Vendor Night (PVN)

Dr. Al Hazari

**A Fun (but Educational) History of Chemistry (lecture and a few demos)**

#### Meeting Details:

##### When:

Tuesday March 26, 2013

##### Where:

Syngenta Crop Protection  
Auditorium

**Time: 3 pm to 7 pm**

[Directions : page 8](#)

#### Meeting Details:

##### When:

Thursday March 28, 2013

##### Where:

UNC-G Room 101 Sullivan Science  
Building

##### Time:

**Social: 6:30 pm**

**Meeting: 7:00 pm**

**[Abstract/Bio: page 2](#)**

[Directions : page 8](#)

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### CNC-ACS Officers

Mr. Clifton Bell      Chair      [bellce@wssu.edu](mailto:bellce@wssu.edu)  
Mr. Cale Murray      Chair-Elect      [CMurray@Qualicaps.com](mailto:CMurray@Qualicaps.com)  
Ms. Janice Foushee      Secretary-Treasurer      [jfoushee@ashland.com](mailto:jfoushee@ashland.com)  
CNC-ACS Website      <http://www.cnc-acs.sites.acs.org/>

Newsletter Editor: Bill Eberle      [bill.eberle@syngenta.com](mailto:bill.eberle@syngenta.com)



## ACS Tour Speaker

*Dr. Al Hazari, University of Tennessee, Knoxville*

[ahazari@utk.edu](mailto:ahazari@utk.edu)



*A native of Lebanon, Al received a B.S. degree in Chemistry from the American University in Cairo. He also holds an M.S. degree in Chemistry from Youngstown State University in Ohio and a doctorate in Science Education from the University of Tennessee, Knoxville. Al has taught science and chemistry at the school and the college levels here and overseas. Currently, he is the Director of the Undergraduate Chemistry Labs and a Lecturer in Chemistry at the University of Tennessee, Knoxville. In addition, he regularly teaches science education courses in the College of Education. He has received several grants from government agencies, industry, and various organizations to improve undergraduate chemistry lab instruction and also to support K-16 hands-on science and chemistry outreach activities. He was the 2000 recipient of the ACS Helen M. Free Award for Public Outreach and, in 2011, was named an ACS Fellow.*

*Al is a very active ACS member. He is a former chair of the ACS Committee on Chemical Safety, an ACS tour speaker, and the councilor for the ACS - East Tennessee Section. Recently, he became the President of East Tennessee's Southern Appalachian Science and Engineering Fair. Al is an affiliate of the Institute for Chemical Education and a member of the National and the Tennessee Science Teachers Associations. He has made several presentations and given talks at local, regional, national and international chemical and science education conferences. His book on "Misconceptions in Chemistry" was recently published by Springer.*

### **A Fun (but Educational) History of Chemistry** (lecture + a few demos)

Alex Hailey (the author of "Roots") once said: "Anytime you see a turtle up on top of a fence post, you know it had some help." We surely have come a long way in our knowledge of chemistry since the natural philosophers, the alchemists and the Harry Potter days. Wonder what the father of the modern periodic table Dimitri Mendeleev's favorite toy was? Wonder what Marie and Pierre Curie received as a wedding present? Wonder how Watson and Crick arrived at the determination of the structure of DNA (with the super help of Rosalind Franklin)? In this presentation, these questions and many others will be answered that will surely bring the human side to our

## Upcoming Meetings

March 16th Women's Chemist Committee Event 2-4pm Stonefield Cellars Winery

March 26th Poster Vendor Night 3 to 7 pm; Syngenta Auditorium

March 28 UNC-Greensboro 6:30 pm; Dr. Al Hazari

April 7-11 ACS National Meeting in New Orleans

# Local Section News

## THE 2013 NATIONAL CHEMISTRY OLYMPIAD

Dear Colleague,

As Chairman of the Olympiad Committee of the Central North Carolina Section of the American Chemical Society (ACS), I am pleased to announce that we will be participating in the **2013 U.S. National Chemistry Olympiad (USNCO)**. The primary goals of this program are to stimulate interest and achievement in chemistry among high school students throughout the United States and to provide recognition of outstanding young chemistry students, teachers, and schools.

Students competing in the USNCO are eligible to be selected as members of the United States team for the International Chemistry Olympiad (IChO). Every year since 1984 the U.S. has sent a team of four students to compete with teams from approximately fifty countries in the IChO. The students participate in both theoretical and laboratory examinations over several days. Gold, silver, and bronze medals are awarded to the best performers and the IChO provides students the opportunity to interact with their peers from other countries. This year the 45<sup>th</sup> international event will be held in Moscow, Russia, July 15-24, 2013.

My immediate task is to encourage you and your AP Chemistry students to participate in this program. The identification of the four member U.S. team begins at the local school level. In order to identify these students, we will conduct a preliminary screening of students with a special multiple choice examination prepared by a committee of the ACS. This examination will be administered on **Friday, March 15, 2013 at 2:00 p.m. at Winston-Salem State University (W.B. Atkinson Science Building, Chemistry Department) and will last for two hours**. Each school will be allowed to send 2 AP Chemistry students to take the exam. If there are spots available (for example, if some schools do not send students to take the exam), 2 additional students will be allowed to participate. Please submit 4 names, with the last 2 listed as alternates. There is no fee for taking the exam, but you **must confirm by email and/or return the registration form by March 9, 2013**. If you cannot participate or need to update your contact information, please let me know.

I encourage your school to participate in this academic Olympiad. All students who participate will be recognized and presented with a certificate. The **top 10 students** from the local level will also compete for the national spots by taking a lab practical and an additional, Advanced Placement type test (multiple choice and essay). This competition will be held at another location at the end of April and more details will be announced later to those who are chosen to participate.

Thank you for helping us to promote chemical education.

Sincerely,

Dr. A Bakarr Kanu

Assistant Professor of Analytical/Forensic Chemistry

+1 (336) 750-3199

[kanuabb@wssu.edu](mailto:kanuabb@wssu.edu)

Teachers who are interested in registering their students should contact Dr. Kanu for the official letter to be sent to the parents of the kids selected for the competition. This is very important. We cannot put the parent's letter in the newsletter but teachers interested can contact me directly for the letter. Let me know if you have further questions.

## Judges needed for Poster Vendor Night

We are in need of volunteers to judge graduate and undergraduate posters at Poster Vendor Night. If you are interested in volunteering, please contact Jill Tierney ([tierney\\_j@bellsouth.net](mailto:tierney_j@bellsouth.net)) or Hien Nguyen ([hien.nguyen@syngenta.com](mailto:hien.nguyen@syngenta.com)).



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# METABOLOMICS WORKSHOP

## Keynote Speakers

John Shockcor, PhD, Waters Corporation

David Balshaw, PhD, Metabolomics Program Administrator  
National Institute of Environmental Health Sciences

A series of roundtable discussions  
will be held after the keynote addresses.  
Lunch will be provided.

**Friday, March 8, 2013**  
**9:00 a.m. – 4:00 p.m.**

**RTI International**  
Dreyfus Auditorium  
3040 East Cornwallis Road  
Research Triangle Park, NC 27709

**Register at**  
**[www.rti.org/register-metabolomics](http://www.rti.org/register-metabolomics)**

Co-sponsored by: The NIH Eastern Regional Comprehensive  
Metabolomics Resource Core at RTI International  
([www.rti.org/rcmrc](http://www.rti.org/rcmrc))  
and Waters Corporation ([www.waters.com](http://www.waters.com))

Registration limited to 120 registrants  
Close date February 24th, 2013



# Networking Event

*Co-sponsored by the*  
NC and Central NC Sections of the ACS

## "The Science of Wine"

Robert Wurz, a California native, began making wine at an early age of fourteen in the basement of his parents' home near Calistoga. He followed his passion for wine through college, where he earned a Ph.D. in Wine Chemistry from University of California – Davis. His experience with North Carolina's grapes since 1999 has resulted in excellent wines, even from challenging vintages.

Saturday March 16, 2013

2:00pm-4:00pm

Stonefield Cellars Winery

8220 NC Highway 68 North  
Stokesdale, NC

Wine Tasting \$10.00

*Seating is limited, RSVP [gwebster@guilford.edu](mailto:gwebster@guilford.edu)*

# High School Science Teachers

OSHA has recently issued a new technical amendment to the Laboratory Standard (effective Jan. 22, 2013) regarding Chemical Hygiene Plans. The Science Safety Train-the-Trainer workshop below will address this new amendment as well as the changes in the HazCom program that affect your Chemical Hygiene Plan and training.

How will OSHA's revised Hazard Communication Standard (2012) and amendment to the Laboratory Standard affect your school's Chemical Hygiene Plan?

- ***Labels and warning signs will change!***
- ***Material Safety Data Sheets will change!***
- ***Chemical Classification will change!***

Every school will need to update their Chemical Hygiene Plan accordingly and retrain all of their science, art, graphics and horticulture teachers as well as any other teacher who deals with hazardous chemicals or works in proximity to hazardous chemicals.

With so many teachers who need to update their training and every Chemical Hygiene Plan needing to be revised, the quickest course of action is for us to offer Train-the-Trainer workshops. OSHA only requires that trainers be deemed "capable" by their employer either through education or experience. The Science House offers your teachers the education necessary to conduct training sessions for other teachers along with the sustained support of an experienced safety specialist. Join us or send a representative from your school who is willing to train other teachers in your LEA.

## ***Join us for a Science Safety Train-the-Trainer workshop!***

Come prepared to create or improve upon your school science safety or Chemical Hygiene Plan. Receive free resources and information so that YOU can train other teachers in your school or science department.

**Time:** March 12-13, 2013, 9 am – 3 pm (A Certificate of Completion will be issued for 10 hours of instruction.)

**Location:** The Science House, NC State University, Raleigh, NC

**Instructors:** Gina Barrier, Northwestern Outreach Coordinator, The Science House, NCSU

**Registration Fee:** \$100 / teacher

Checks should be sent to Safety Workshop c/o Scott Ragan, NCSU Box 8211, Raleigh, NC 27695

**Register today at** <http://science-house.org/index.php/open-registration-workshops/348-safetyttt>

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*Gina Morrison Barrier, Director  
Northwestern Outreach Office  
The Science House, NC State University  
@ The Education Center  
1914 Hickory Blvd. SW  
Lenoir, NC 28645  
(828) 728-8407 Ext. 146  
[Gina\\_Barrier@ncsu.edu](mailto:Gina_Barrier@ncsu.edu)*



Dear Chemistry Ambassador,

We have three outreach action items for you to consider this month: share scholarship information, apply for a climate science toolkit grant, and answer Alan Alda's 2013 Flame Challenge question: what is time? Here are the details:

1. With a simple email, put scholarship information into hands that need it, and just maybe have a life-changing impact. Please forward the following information to a high school teacher, counselor, student or colleague in your community. Deadlines are approaching:

**Tell High School Counselors and Students: Apply by March 1 for Minority Scholarships in Chemistry.**

African American, American Indian and Hispanic students planning to major in a chemistry-related field can apply for scholarships of \$2,500-\$5,000 per year through the ACS Scholars program. Apply by March 1 at [www.acs.org/scholars](http://www.acs.org/scholars).

**Considering Teaching as a Second Career? ACS Scholarships Available**

The ACS-Hach Second Career Teacher Scholarship is awarded to professionals in the chemistry field pursuing a Master's degree in education or becoming certified as a chemistry/science teacher. Up to \$6,000 per year. Apply by April 1 at [www.acs.org/hach](http://www.acs.org/hach).

**Know Any Chemistry Undergrad Students Interested in Teaching? This Will Help**

The ACS-Hach Land Grant Undergraduate Scholarship is awarded to undergraduate chemistry majors who attend one of our 72 partner institutions and are interested in teaching high school chemistry. Scholars receive \$6,000 per academic year for up to six years. Contact the partner institution for application and renewal details. [www.acs.org/hach](http://www.acs.org/hach)

**ACS-Hach High School Chemistry Grants for School Teachers in Your Community**

Grants of up to \$1,500 are available to chemistry teachers with innovative ideas that transform classroom learning. Apply by April 1 at [www.acs.org/hach](http://www.acs.org/hach).

Educate your community about climate science. **Grants** of up to \$3000 are available to **ACS Local Sections and Divisions** for proposing and implementing innovative ways to use the ACS Climate Science Toolkit to engage a variety of audiences in dialogue on issues of climate science. Up to 15 grants will be made in 2013. Proposals are due March 8. Awards will be announced April 7 at the ACS Spring Meeting in New Orleans.

"What is time?" That's the question for this year's Flame Challenge, an international contest sponsored in part by ACS that asks scientists to communicate complex science in ways that interest and inform an 11-year-old. Don't let the chemistry perspective go missing! Apply by March 1.

**Nancy McCormick-Pickett**

Manager, Strategic Communications | Office of Public Affairs

1155 16th St., NW | Washington | DC 20036

T 202-872-4381 | F 202-872-4370 | 800-227-5558

[www.acs.org](http://www.acs.org)

## Meeting Directions: UNC-Greensboro and Syngenta



The University of North Carolina at Greensboro  
Location 1400 Spring Garden Street Greensboro, NC 27412  
Mailing Address PO Box 26170, Greensboro, NC 27402-6170  
Telephone 336.334.5000

**From the NORTH/EAST (Raleigh/Durham, Richmond, VA)** From I-40W/85S, keep right to continue on 40W toward Greensboro/Winston-Salem. Take Exit 218B toward Freeman Mill Road/Coliseum Area and follow Freeman Mill Road. Turn left at the first stoplight onto Coliseum Boulevard. Follow for approximately 1.5 miles and turn right at the fourth stoplight onto Walker Avenue. The Walker Avenue Parking Deck will be on your right after Kenilworth Street.

**From the WEST (Winston-Salem, Asheville, Knoxville, TN)** From I-40 East, follow the signs for Greensboro and take the Wendover Avenue East exit (214B). Follow Wendover to the exit for Market Street (3.5 miles). Turn right on Market Street and follow for less than 1 mile. Turn right on Aycock Street South. At the first stoplight, turn left on Walker Avenue. The Walker Avenue Parking Deck will be on your right after Kenilworth Street.

**From the NORTH on Highway 29 (Reidsville, Danville, VA)** From Highway 29 South take the Wendover Avenue West/Hospital exit. Follow Wendover for approximately 2.6 miles and take the Westover Terrace exit. Follow the exit to the right, and merge right, following the Coliseum sign. Stay on Westover as it becomes Aycock Street. Turn left at the second stoplight onto Walker Avenue. The Walker Avenue Parking Deck will be on your right after Kenilworth Street.

**From the SOUTH on Highway 220 (Asheboro, Rockingham)** From Highway 220 North, follow the signs to the Coliseum area. Turn left at the stoplight onto Coliseum Boulevard. Follow for approximately 1.5 miles and turn right at the fourth stoplight onto Walker Avenue. The Walker Avenue Parking Deck will be on your right after Kenilworth Street.

**From the SOUTH (Salisbury, Charlotte, Atlanta, GA)** From I-85 North, follow Business 85 (exit 120A) toward Greensboro, then take the Holden Road exit (exit 34) and turn right on Holden Road. Follow Holden for approximately 4.5 miles and turn right on Market Street. Follow Market Street for approximately 1.5 miles. Turn right on Aycock Street South. At the first stoplight, turn left on Walker Avenue. The Walker Avenue Parking Deck will be on your right after Kenilworth Street.



### Traveling West on I-40 in Greensboro:

- ✚ Take **Exit # 213**.
- ✚ At the top of the exit ramp, go straight through the traffic signal onto **Swing Road**.
- ✚ Follow Swing Rd past the Radisson and turn **left at the "Entrance 2" sign**.
- ✚ **Park in the parking area on the left**.
- ✚ Enter the glass double doors to the right of "E" Building. Check with security and they will direct you to the site auditorium or L-Bldg.

### Traveling East on I-40 in Greensboro:

- ✚ Take **Exit # 213** and follow the exit ramp around to the top.
- ✚ Turn **right at the traffic signal** and pass over I-40.
- ✚ Turn **left** at the very **next traffic signal** onto Swing Road (immediately after crossing I-40).
- ✚ Follow the remainder of directions from the I-40 West directions above.





American Chemical Society  
Central North Carolina Section

# 13th Annual Poster Vendor Night

**GREAT FOOD**

**DOOR PRIZES**

**STUDENT POSTER AWARDS \$\$\$**

**TRADE SHOW**

**NETWORKING**

**When:** Tuesday, March 26, 2013 - 3:00p-7:00p

**Where:** Syngenta Crop Protection, LLC - Auditorium, Greensboro, NC

**What:** Industrial and Academic Posters, Vendors, Latest Products

Please contact Hien Nguyen ([hien.d.nguyen@syngenta.com](mailto:hien.d.nguyen@syngenta.com), 336-632-5899) or Jill Tierney ([tierney\\_ji@bellsouth.net](mailto:tierney_ji@bellsouth.net), 336-430-8601) for more info. (Additional info available at: <http://cnc-acis.sites.acs.org>)

Officer and Committee Head Contacts

Office	Officer	E-mail	Phone
Chair	Cliff Bell	<a href="mailto:bellce@wssu.edu">bellce@wssu.edu</a>	750-2545
Chair Elect	Cale Murray	<a href="mailto:caleacs@gmail.com">caleacs@gmail.com</a>	501-4706
Secretary/Treasurer	Janice Foushee	<a href="mailto:jfoushee@ashland.com">jfoushee@ashland.com</a>	333-2738
Councilor ('13)	Robert Yokley	<a href="mailto:TR6VOL@triad.rr.com">TR6VOL@triad.rr.com</a>	595-7530
Councilor ('15)	Tim Ballard	<a href="mailto:tballard@en-cas.com">tballard@en-cas.com</a>	785-3252
Alternate Councilor ('12)	Paul Weller	<a href="mailto:wellerp@elon.edu">wellerp@elon.edu</a>	278-6225
Alternate Councilor ('12)	Gail Webster	<a href="mailto:gwebster@guilford.edu">gwebster@guilford.edu</a>	316-2486
Director ('13)	Kent Kabler	<a href="mailto:kent.kabler@syngenta.com">kent.kabler@syngenta.com</a>	632-6014
Director ('14)	TJ Mayer	<a href="mailto:tj.mayer@syngenta.com">tj.mayer@syngenta.com</a>	632-6079
Past Chair	Edward Robinson	<a href="mailto:erobinson@lortobco.com">erobinson@lortobco.com</a>	335-6625
Analytical Sub Group	Jeremi Johnson	<a href="mailto:JeremiJohnson@lortobco.com">JeremiJohnson@lortobco.com</a>	335-6624
Awards	Robert Yokley	<a href="mailto:TR6VOL@triad.rr.com">TR6VOL@triad.rr.com</a>	595-7530
Education	Yulia Basova	<a href="mailto:ybasova@yahoo.com">ybasova@yahoo.com</a>	834-2335
* Chemsense	OPEN		
* National Chemistry Olympiad	OPEN		
* Science Center Advisor	Jerry Walsh	<a href="mailto:jlwalsh@uncg.edu">jlwalsh@uncg.edu</a>	334-5672
* UNC-G High School Lab Day	Jerry Walsh	<a href="mailto:jlwalsh@uncg.edu">jlwalsh@uncg.edu</a>	334-5672
Earth Day	Bill Nell	<a href="mailto:williamnell@bellsouth.net">williamnell@bellsouth.net</a>	764-9322
Government Relations	Edward Robinson	<a href="mailto:erobinson@lortobco.com">erobinson@lortobco.com</a>	335-6625
Hospitality	Pat Duffy	<a href="mailto:duffypatriciaj@gmail.com">duffypatriciaj@gmail.com</a>	209-0302
Long Range Planning	Dave MacInnes		254-8453
Membership	OPEN		
Minority Affairs	Julius Harp	<a href="mailto:harpj@ncat.edu">harpj@ncat.edu</a>	285-2239
National Chemistry Week	Dennis Ergle	<a href="mailto:dergle@lortobco.com">dergle@lortobco.com</a>	335-6629
	Cynthia Willard	<a href="mailto:cwilliard@lortobco.com">cwilliard@lortobco.com</a>	335-6729
Newsletter Editor	Bill Eberle	<a href="mailto:bill.eberle@syngenta.com">bill.eberle@syngenta.com</a>	632-7569
Poster Vendor Night			
* Vendor Coordinator	OPEN		
* Poster Coordinator	Jill Tierney	<a href="mailto:tierney_j@bellsouth.net">tierney_j@bellsouth.net</a>	430-8601
Project Seed	OPEN		
Professional Relations	OPEN		
Public Relations & Publicity	OPEN		
Public Affairs	Edward Robinson	<a href="mailto:erobinson@lortobco.com">erobinson@lortobco.com</a>	335-6625
* Science Advisor - Howard Coble	Dave MacInnes		
* Science Advisor - Richard Burr	Liliana Garcia	<a href="mailto:lilianagarcia@live.com">lilianagarcia@live.com</a>	
Student Member Coordinator	Bethany Eaton	<a href="mailto:bethany.eaton@salem.edu">bethany.eaton@salem.edu</a>	366-7596
Student Member Faculty Coord.	Paul Weller	<a href="mailto:wellerp@elon.edu">wellerp@elon.edu</a>	278-6225
Web Page	John Merle	<a href="mailto:merlejo@wssu.edu">merlejo@wssu.edu</a>	750-2237
Womens Chemists	Gail Webster	<a href="mailto:gwebster@guilford.edu">gwebster@guilford.edu</a>	316-2486
Younger Chemists	OPEN		