



TRIAD CHEMICAL TIMES

Central North Carolina Section American Chemical Society

March CNC-ACS Meeting: Mr. Ernie Hood



We Need to Talk :

Why Communicating Your Science Is More than Just a Good Idea

March Meeting

When:

Thursday March 22, 2012

Where:

Elon University McMichael Science Center

Time:

Social - 6:30 pm (Reception in MCMI 117)

Talk - 7:00 pm (Meeting in MCMI 115)

Directions:

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CNC-ACS Website <http://www.cnc-acssites.acs.org/>



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American Chemical Society
Central North Carolina Section

12th Annual Poster Vendor Night

GREAT FOOD

DOOR PRIZES

STUDENT POSTER AWARDS \$\$\$

TRADE SHOW

NETWORKING

When: Tuesday, April 3, 2012 - 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, 336-632-5899) or Jill Tierney (tierney_j@bellsouth.net, 336-430-8601) for more info. (Additional info available at: <http://cnc-acc.sites.acs.org>)

March Section Meeting Info: BIO

Thursday, March 22, 2012

Elon University McMichael Science Center



Time:

Social - 6:30 pm

Talk - 7:00 pm

Directions:

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Ernie Hood holds a BA in English from Brown University, and an MA in Communications from the University of North Carolina at Chapel Hill. Although not a trained scientist, Ernie has a unique ability to communicate often complex scientific concepts in clear, concise, interesting, and understandable language to both lay and professional audiences.

He developed this talent over the course of a long career in television and video and audio production, during which he wrote, produced and edited countless programs, particularly within the pharmaceutical, medical, health care, information technology, and agricultural sectors. In his more recent experience as a freelance science writer, much of his work has focused on environmental health. Ernie created Radio In Vivo to serve as an information resource to the public about the important, exciting, and innovative scientific work taking place in the Research Triangle area of North Carolina.

Ernie is a member of the National Association of Science Writers, the American Medical Writers Association, and the Society of Environmental Journalists. He is also a Partner in the Collaborative for Health and the Environment, an Affiliate Member of Sigma Xi, The Scientific Research Society, and on the executive board of the Science Communicators of North Carolina. He was recently invited to be the lay community member of the Biomedical Institutional Review Board (IRB) at the University of North Carolina at Chapel Hill.

March Section Meeting Info: ABSTRACT

Thursday, March 22, 2012

Elon University McMichael Science Center



ACS Seminar Abstract

“We Need to Talk: Why Communicating Your Science Is More than Just a Good Idea”

Freelance science writer Ernie Hood is dedicated to improving the flow of accurate information from scientists and researchers to the public. In addition to his writing, editing and podcast production business, he hosts the weekly science interview radio program *Radio In Vivo: Your Link to the Triangle Science Community* on WCOM-FM 103.5 in Carrboro and is President of the Science Communicators of North Carolina (SCONC). Many in the scientific community are reluctant to communicate openly about their work, and avoid opportunities to do so. But now more than ever, it is vital that scientists take full advantage when presented with a channel to communicate with the public, as misinformation is rife in today's feverish media landscape and the scientific enterprise is under open assault from certain political quarters and interest groups. In this program, a variety of illustrative (and entertaining) video clips will be shown, as well as a montage of clips from *Radio In Vivo*, followed by a stimulating discussion of the issues that have been raised. The intent is that each participant will gain useful knowledge about how to effectively communicate with non-scientific audiences.

The Oakley R. Vail Lecturer Series Presents:

WAKE FOREST UNIVERSITY DEPARTMENT OF CHEMISTRY

ROALD HOFFMANN

Frank H. T. Rhodes Professor of Humane Letters Emeritus and Nobel Laureate
Cornell University



Public Lecture: “Chemistry’s Essential Tensions: Three Views of a Science”

Monday, March 19, 2012

7:00 – 8:00 PM

Kulynych Auditorium

Porter B. Byrum Welcome Center

(Post-lecture Reception in Welcome Center Conservatory)

Abstract: In this generously illustrated lecture several views of chemistry will be presented, stressing its psychological dimension and its tie to the arts: First of all, chemistry is, as it has always been, the art, craft, business of substances and their transformations. It is now also the science of microscopic molecules, both simple and complex. And then there are people’s perceptions of chemistry – alternating between seeing the healing and the hurting aspects of this truly anthropic science. The underlying psychological tensions will be explored, as will the strong element of creation or synthesis in chemistry, which brings chemistry close to the arts.

For additional information, please contact Dr. Willie L. Hinze at (336) 758-5509 or hinze@wfu.edu

The Oakley R. Vail Lecturer Series Presents:

WAKE FOREST UNIVERSITY DEPARTMENT OF CHEMISTRY

ROALD HOFFMANN

Frank H. T. Rhodes Professor of Humane Letters Emeritus and Nobel Laureate
Cornell University



Scientific Lecture: “The First Element Under Pressure”

Tuesday, March 20, 2012

4:00 – 5:00 PM

Salem Hall, Rm 10

(pre-lecture refreshments, 3:30 PM in Salem Hall, Rm 210)

Abstract: It’s amazing how much we have to learn about something as simple as H₂ under pressure. At low temperatures, the experimental picture begins with a rotationally disordered solid that transforms to a phase with librational order, that in turn metallizes at a pressure somewhere near 420 GPa. In work with Vanessa Labet and Neil Ashcroft, we have used the results of the best static calculations on the system as a kind of numerical laboratory to get at the physical and chemical mechanisms at work in the system. First we find that metallization occurs before H nearest neighbor and next nearest neighbor distances are equalized. As the pressure is raised the intramolecular distance decreases pretty uniformly, but the intramolecular separation does a little dance with an amplitude of only 0.05 Å - it first decreases, then increases, then decreases again with pressure. With the aid of molecular models we tease apart the workings of the competing effects here. The first is the physical effect of simple confinement, decreasing the H-H separation. The second one is an orbital or chemical one – impingement, therefore interaction with other H₂ molecules depopulates the H₂ σ_g and populates the σ_u*. Of course, this is what happens in the remarkable side-on bonded dihydrogen complexes. At still higher pressures we examine a simple model in which a single parameter takes a molecular solid into a monoatomic one with high coordination and find some indication of a possibly microscopically plastic phase.

For additional information, please contact Dr. Willie L. Hinze at (336) 758-5509 or hinze@wfu.edu



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FEATURING

JERRY BARKER
Founder and President of Ocular Systems, Inc.



speaking on:
“An Eye Toward Innovation”

4:00 PM THURSDAY, MARCH 15, 2012
ARDMORE AUDITORIUM
FORSYTH TECH MAIN CAMPUS
2100 SILAS CREEK PARKWAY
WINSTON-SALEM NC 27103



*To reserve a seat at this event, contact Mona Cofer
at 336.734.7205 or mcofer@forsythtech.edu.*
All lectures are free and open to the public.

Intellectual Property Symposium:

The North Carolina Bar Association Intellectual Property Section will be presenting a symposium, "2012 Laws of Science Symposium," on March 29 at the North Carolina Biotechnology Center in Durham. Organized by the Biotechnology and Chemical Patents Committee of the NCBA IP Section, this Symposium is intended to raise awareness of intellectual property law and related issues (patenting strategies, technology transfer, agreements, company start-ups) to scientists, managers, and attorneys. See <http://www.thelawsofscience.com/> for more information.

ACS - High School Chemistry Grant:

The ACS-Hach High School Chemistry Grant is awarded to teachers interested in enhancing the teaching and learning of high school chemistry. Applicants can receive up to \$1,500 to support ideas that improve classroom learning, foster student development, and reveal the wonders of chemistry. Applications are due on April 1, 2012. Apply for the ACS-Hach High School Chemistry Grant today at www.acs.org/hach!

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Triad Drug Discovery Discussion Group Meeting

Presenter:

Lawrence L. Rudel, Ph.D., Wake Forest University School of Medicine

Title:

ACAT2 and Cholesteryl Oleate: Underappreciated Villians in Atherosclerosis

Date & Time:

Thursday, March 15, 2012 at 6:00 PM

Place:

**UNCG Campus, Department of Chemistry & Biochemistry
Sullivan Science Building, Rm# 435**



Meeting Directions: McMichael Science Building @ Elon

Directions to Elon (McMichael Science Building)

Take I-40/I-85 to Exit 140

If on 40W/85S, turn right off the exit onto University Drive

If on 40E/85N, turn left off the exit onto University Drive Turn right at first light onto Boone Station Rd.

Turn left at first light onto St. Mark's Church Road

Drive 1.4 miles to Haggard Avenue

Note that the road name changes to Williamson as you cross Church Street

You will cross a set of railroad tracks as you enter campus

Turn right onto Haggard Avenue (second street after crossing tracks)

Turn left at the stoplight onto O'Kelly Ave.

Take the first right into the McMichael parking lot.

Reception is in MCMI 117, meeting in MCMI 115.



UPCOMING EVENTS

Event	Date	Location	Comment
March Meeting	March 22	Elon	Ernie Hood: Challenges in Communicating Science
April Meeting	April 3	Syngenta	Poster Vendor Night
May Meeting	May 17	NCATSU	Dr. Daniel Vallero: Ethics in the Practice of Science