

The Blue Ridge Chemist

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Lynchburg College hosts March Meeting

<http://www.acs-vbrs.org>

VIRGINIA BLUE RIDGE SECTION AMERICAN CHEMICAL SOCIETY

631st SECTION MEETING

Hosted by Lynchburg College

Tuesday, March 30, 2010

PROGRAM:

6:00-6:30 Social Time, Burton East Foyer

6:30-7:30 Dinner, Burton East Room

7:30-8:30 Meeting, Burton East Room

The social time, dinner, and talk will take place in the Burton East Room at Lynchburg College. The evening's speaker is Jerome Ferrance from the University of Virginia, who will present a talk entitled: "Research with Novel Materials and Methods."

The buffet dinner consists of salad, fresh asparagus, roasted Yukon potatoes, dry aged strip loin of beef, rosemary roasted chicken breast, and assorted deserts. Cost of the dinner will be \$14.00. Students and retired ACS members will be half-price.

Reservations for the dinner must be made by Tuesday, March 23 to William Lokar (434) 544-8631, or by email lokar_w@lynchburg.edu, or by mail to William Lokar, School of Sciences, Lynchburg College, Lynchburg, VA 24501

Dr. Jerome Ferrance
University of Virginia

Dr. Ferrance earned his Ph.D. in Chemical Engineering from the University of Pittsburgh, working on projects as diverse as protein cloning in insect cells to ion channel monitoring, to cell culture media development, to kinetic and thermodynamic modeling of coal liquefaction. Graduating, he worked as an Oak Ridge Associated University postdoctoral fellow at the National Energy Technology Laboratory in



Pittsburgh on coal liquefaction and diesel fuel additive projects. He then returned to the University of Pittsburgh as a postdoc, working with James Landers in the Department of Chemistry on microfluidic devices for DNA analysis. Moving with James to the University of Virginia, he became a Research Assistant Professor in Chemistry continuing work into the development of microfluidic devices and instrumentation for clinical and forensic applications. After consulting for Pettit Applied Technologies (PAT) part time for a few years, he joined the company full time in 2007, while still retaining a part time position at the University. As Director of Scientific Operations for PAT, he established a research laboratory in Charlottesville where he spends his days playing in the lab.

Research with Novel Materials and Methods

When you mix novel materials like quantum dots and carbon nanotubes with DNA and carbohydrate polymers, strange things can happen and research can go off in all kinds of directions. Throw in some proteins and conducting polymers, and you can be addressing problems from cancer diagnostics to fish identification and next generation aircraft. Now add miniaturization and microfluidic devices and the future becomes technologies that allow you to take the lab any where you need it.

This talk will cover a variety of projects that have come about by combining materials that might not normally go together. It will explore experimentation and creativity as ways in which new ideas are developed and new technologies come about. But in the end, it is all about having some fun in the laboratory rather than working for a living.

Chemists Celebrate Earth Day

Earth Day, which was first officially recognized in 1970, again will be held on April 22, which is a Thursday this year. The Virginia Blue Ridge Section will participate in the ACS program of Chemists Celebrate Earth Day (CCED) by distributing Earth Day materials at the April VBRS meeting in Radford. For more information on CCED go to <http://portal.acs.org/portal/Navigate?nodeid=1034>.



18th Annual Undergraduate/High School Poster Session

The Virginia Blue Ridge Section of the American Chemical Society is sponsoring the eighteenth Annual Undergraduate/High School Poster Session as a part of the April 14, 2010 meeting at Radford University. Poster boards will be provided.

If you have a student or students who desire to participate, submit the information below by email to Chris Hermann (chermann@radford.edu) by April 5, 2010. **This is a firm deadline. No poster submissions will be accepted after this time.** All students and faculty will get email confirmation. If you do not get an email reply, then your submission was not received and you cannot present.

Name of Project: _____

Name(s) of Student(s): _____

Affiliation (name of high school, college, or university): _____

Class of Student(s) (freshman, sophomore, junior, senior): _____

Student(s) email address: _____

Advisor's Name, Address, Telephone Number, and email address:

Poster board (48" by 48") with tripod on table or just table will be provided. Please specify what you need.

_____ poster board with tripod on table _____ only table

SEE the Future of Sustainability through Chemistry

The global challenges of providing sufficient and secure energy, clean drinking water, and adequate food, housing, and medical care will require the creative input of all of the planet's scientists. To address these challenges, ACS will host an innovative Sustainability Engagement Event (SEE) during the spring national meeting in San Francisco (www.acs.org/sustainability).

The event will help us to SEE this future. It will focus on collecting, refining, and implementing the ideas of a broad range of stakeholders, and on strengthening their engagement. The goals are to generate excitement about the ACS sustainability efforts; to brainstorm, create, and develop projects that can and will make a difference; and to connect with members of all ages and fields, especially those who are not currently engaged with ACS on a volunteer level.

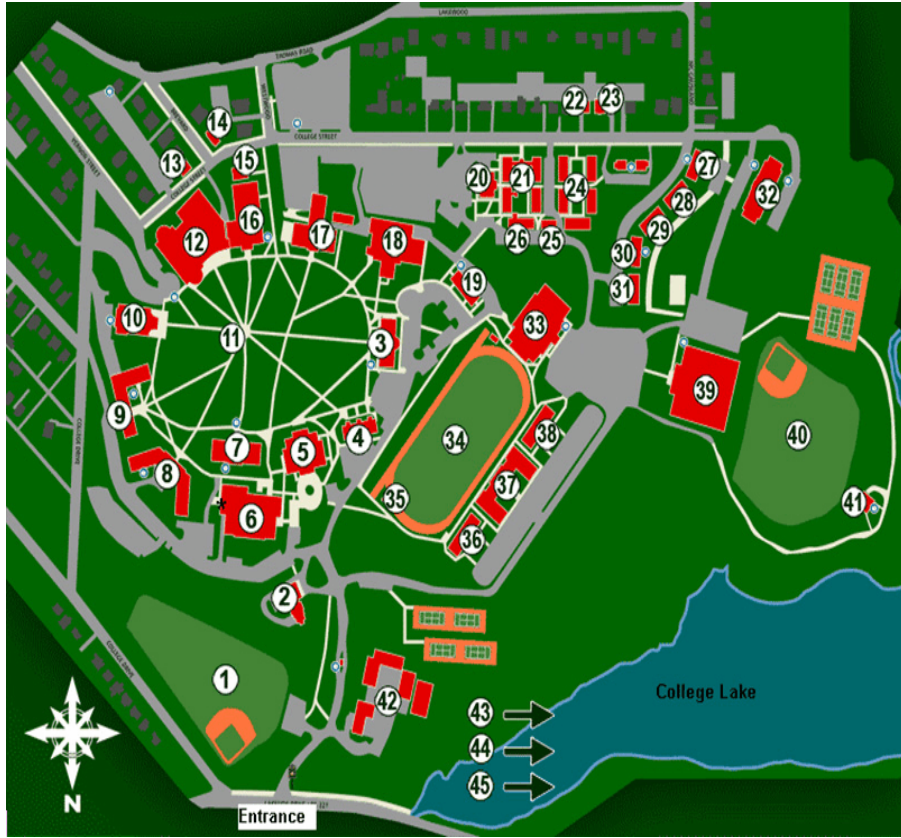
The varied backgrounds and experiences of chemists inspire us in different ways to offer workable solutions at the local, regional, and global levels. Working together, ACS and chemists can identify the solutions that will help us achieve a sustainable future.

All meeting attendees and ACS members are invited to participate in the event forum. Even if you are not planning to be in San Francisco, you are encouraged to share your ideas at www.acs.org/sustainability. The SEE kickoff will take place on Sunday, March 21 from 6 to 8:30 pm in the Expo Hall, and the forum will be on Tuesday, March 23 from 3 to 5:30 pm. Preregistration is requested for the forum, which is quick and easy at www.acs.org/sustainability.

Directions for Lynchburg College

From Roanoke, follow Route 460 East and exit off Route 460 at Candler's Mountain Road. Follow signs to Route 501 North (River Ridge Mall will be on your left, and Wachovia Bank will be on your right). Take the right exit ramp to 501 North. Follow 501 North about 4 miles. At the first intersection (marked by a traffic light and Honda Dealer on the left) turn right onto 221 North (Lakeside Drive) and proceed 2 miles. The campus entrance will be on your right immediately past College Lake. The Meeting will be in Building #6 (Burton Student Center). Enter on the left side.

Map of Lynchburg College



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Return Service Requested

The April meeting will be April 14 at Radford University. The speaker will be Matthew R. Redinbo from the University of North Carolina talking on "From Atomic Structure to Cellular Function: Chemistry in the Biological Realm".