

The Blue Ridge Chemist

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Virginia Blue Ridge Section, American Chemical Society



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<http://en.wikipedia.org/wiki/File:Floyd-landis-toctt.jpg>
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Ferrum College Hosts October Meeting

<http://membership.acs.org/v/vbr>

VIRGINIA BLUE RIDGE SECTION AMERICAN CHEMICAL SOCIETY

627th SECTION MEETING

Hosted by Ferrum College

Monday, October 19, 2009

PROGRAM:

- 5:00-6:00 Social Time, Blue Ridge Mountain Room
- 6:00-7:00 Dinner, Blue Ridge Mountain Room
- 7:00-8:00 Talk, Blue Ridge Mountain Room

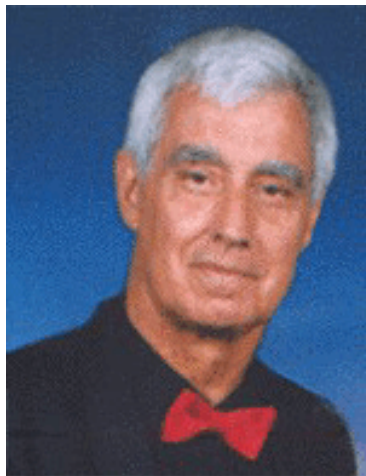
The social time, dinner, and meeting will all take place in the Blue Ridge Mountain Room in Franklin Hall. (See the map on page 7.) The speaker will be Robert Blackledge with the talk entitled "The Floyd Landis Sports Doping Case as Evaluated by a Forensic Analytical Chemist".

The meal will be catered by Ferrum College Food Service and will include Caesar salad and a buffet consisting of Maryland crab cakes, chicken francise, duchess sweet potatoes, fresh vegetable medley, oven-baked rolls, and a dessert table with chocolate layer cake, cheesecake, and fruit pie. Wild mushroom ravioli is available as an individually plated vegetarian option upon request. The dinner is \$14, with students and retired members being half price.

Reservations for the meal must be made by Friday, October 9 to Jason Powell at jpowell@ferrum.edu, (540)365-4376, or by mail at 80 Wiley Drive, Ferrum, VA 24088.

Mr. Robert D. Blackledge **Naval Criminal Investigative Service, RFL -retired**

Robert (Bob) D. Blackledge received his BS (chem.) from The Citadel in 1960 and his MS (chem.) from the University of Georgia in 1962. Starting with the Florida Department of Law Enforcement's Tallahassee Crime Lab in 1971, Bob has worked in forensic science for more than thirty years. Stops along the way included eleven years with the U.S. Army Criminal Investigation Laboratory-Europe, back during the Cold War when we had a crime lab in Frankfurt, Germany. Bob's



final stint was as the Senior Chemist with the Naval Criminal Investigative Service Regional Forensic Laboratory-San Diego from 1989 to 2006. The author or coauthor of roughly forty journal articles and book chapters, his interests are wide-ranging but his special passion is trace evidence. Reports of his research have been published in the FBI's Law Enforcement Bulletin, the FBI's Crime Laboratory Digest, the Journal of Forensic Sciences, Science & Justice, Forensic Science International, Forensic Science Review, Microgram Journal, and Analytica Chimica Acta. He is the editor of Forensic Analysis on the Cutting Edge: New Methods for Trace Evidence Analysis Wiley-Interscience, 2007.



The Floyd Landis Sports Doping Case **as Evaluated by a Forensic Analytical Chemist**

Floyd Landis, a professional bicycle racer from Murrieta, California, won the 2006 Tour de France. However, not many days after the race's conclusion, the Laboratoire National de Dépistage du Dopage (LNDD) "announced" (actually the information was leaked to the press) that a urine sample obtained from Floyd after stage 17 had been found to be positive for a form of synthetic testosterone. If this finding were to be upheld, Landis would be stripped of his title and also banned from participation in the sport. Landis denied any sports doping and his strategy in fighting these charges has been to try to generate public support and to make all of the documentation of the LNDD tests available to the public. GC/MS is used by LNDD for preliminary sample screening, and carbon stable isotope ratio mass spectrometry is used for final confirmation. From the standpoint of a forensic analytical chemist with experience in forensic laboratory accreditation standards, this presentation will examine the analytical data and correspondence from the Landis case in terms of: chain of custody requirements; World Anti-Doping Association (WADA) guidelines and LNDD SOP; and reasonable standards of good laboratory practice.

Want to Support Your Local Chemistry Teachers? **Need Materials for a High School Event?**

Consider the ChemMatters publication. ChemMatters is a bimonthly magazine for high school students published by the ACS Education Division, and its mission is to help students find connections between the chemistry they learn and the world around them. Each issue brings intriguing stories informing readers about creative applications of chemistry or real-life mysteries solved by chemistry. A free,

web-based Teacher's Guide contains background information, follow-up hands-on activities, classroom demonstrations, and other resources allowing teachers to incorporate ChemMatters into their instruction, or assign it as supplemental reading. A 25-year archive of the ChemMatters magazine is now also available on CD.

Support high school teachers and students in your area and present them with a gift of a ChemMatters subscription (only \$14) or ChemMatters CD (\$30). For more information about these great resources visit www.acs.org/ChemMatters. To receive a limited number of free copies of ChemMatters contact Marta Gmurczyk at m_gmurczyk@acs.org or 202-452-2105.

National Chemistry Week

The theme of this year's National Chemistry Week is "Chemistry—It's Elemental!". The year 2009 marks the 22th anniversary of NCW. The mission of NCW is to reach the public, particularly students, with positive messages about chemistry and to provide a means of effectively mobilizing ACS local sections.

When former ACS President, George Pimentel, conceived the idea of celebrating National Chemistry Day in 1987, he never could have predicted where his idea would lead. From a one-day celebration, National Chemistry Day grew into National Chemistry Week. From a biennial celebration, the celebration became an annual event in 1993. The program has been the recipient of several prestigious public relations and association awards.

Join with ACS this October 18-24, in this 22th anniversary year of National Chemistry Week to celebrate "Chemistry—It's Elemental!".

Undergraduate Students Can Now Participate in Local Sections

Effective June 2009, all ACS Student Affiliates are now Student Members. Last fall, the ACS membership voted to change the Society bylaws to grant all undergraduates the rights of full membership as Student Members, including membership in ACS Local Sections. For further details regarding the membership categories changes, please refer to the June 15, 2009 article in Chemical & Engineering News.

ACS is now actively recruiting undergraduates to become members of the ACS. Undergrad.ACS.org is the primary recruitment tool staff members have developed for this audience. Please refer students to this Web site if they are interested in joining ACS. The site describes all of the benefits of ACS membership geared specifically for undergraduates. We hope that by bringing in new undergraduate student members, ACS Local Sections will benefit from an increase in participation and contributions from the next generation of chemical scientists.

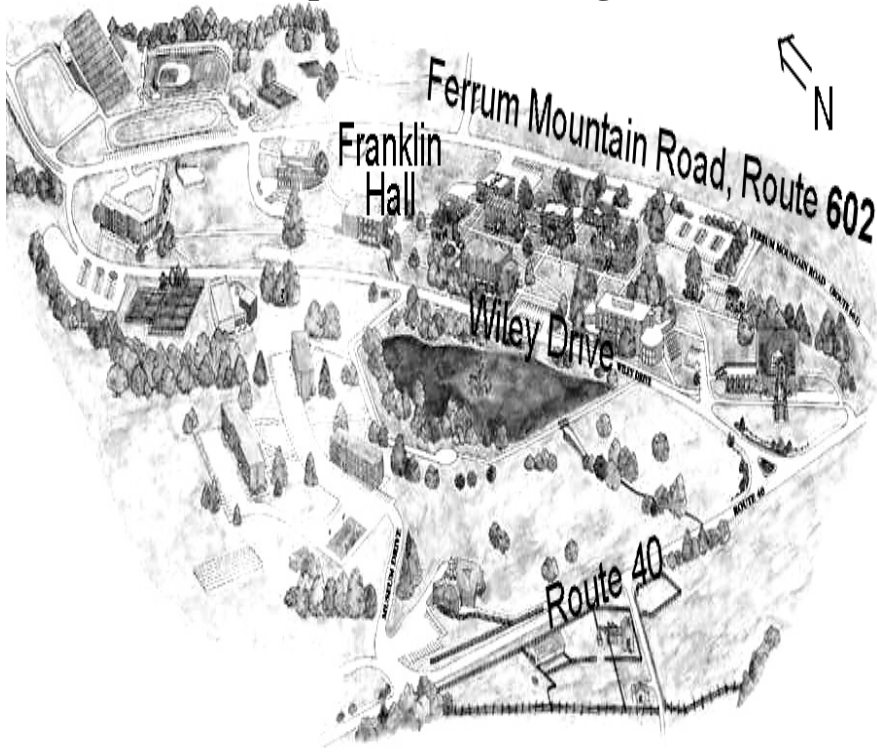
Don't forget, every new student member you recruit also applies toward your local section commission claim and the 2009 ACS President's Challenge. Just be sure to have the student select your local section as the referral on the online membership application found on undergrad.ACS.org.

We encourage you to reach out to this audience of new members and welcome them into your local sections. Additional information can be found at <http://undergrad.ACS.org>. Feel free to send any questions to ACS Membership Marketing by clicking on "Contact Us," which is found at the bottom of every page on the Web site.

Directions to Ferrum College

Directions to Ferrum College from Roanoke: Take Interstate 581 South which turns into Route 220 South. Stay on Route 220 through Boones Mill to Rocky Mount. Take the second Rocky Mount exit to Route 40 West. Ferrum is 10 miles beyond Rocky Mount on Route 40 West. Pass Ferrum Mountain Road (Route 602) on your right, then take the next right into the college's main entrance. You will pass Garber Hall (with the greenhouse) on the right, then Stanley Library and Schoolfield Hall. The next building on the right is Franklin Hall, and parking is available below Franklin Hall across from the Fitness Center. The Blue Ridge Mountain Room is located on the upper level of Franklin Hall.

Map to Ferrum College



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Return Service Requested

The November meeting is scheduled for Lynchburg College. Look for the details in the next BRC. The contact person is Bill Lokar.