

The Blue Ridge Chemist

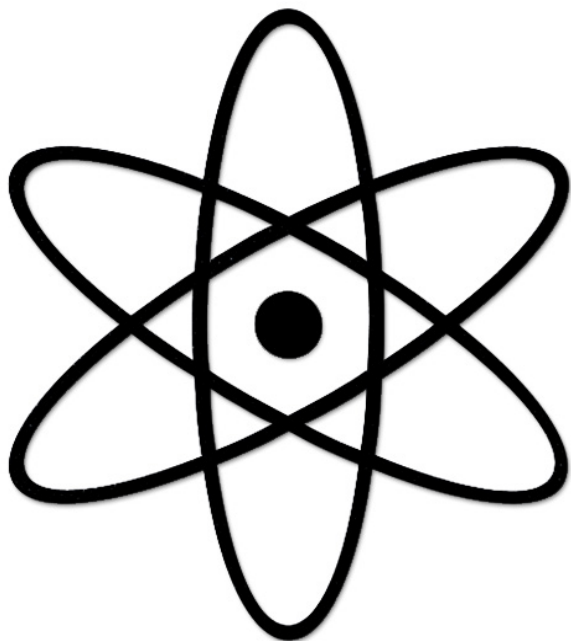
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Hollins University hosts November Meeting

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

VIRGINIA BLUE RIDGE SECTION AMERICAN CHEMICAL SOCIETY

636th SECTION MEETING
Hosted by Hollins University
Wednesday, November 17, 2010

PROGRAM:

- 5:30-6:00 Social time, Ballator Gallery, Moody Center
- 6:00-7:00 Dinner, Ballator Gallery, Moody Center
- 7:00-8:00 Talk, Ballator Gallery, Moody Center

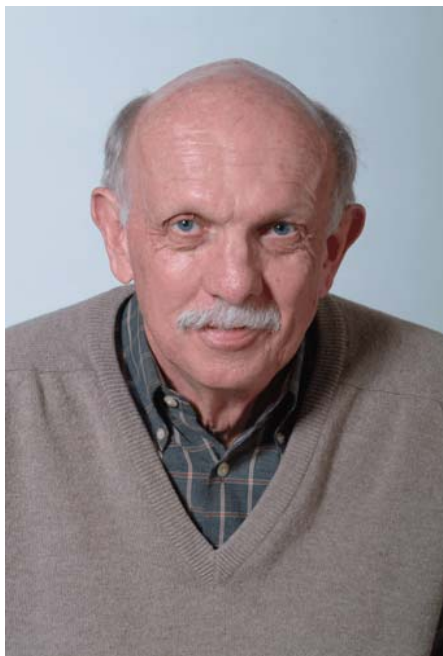
The social time, dinner, and presentation will all take place in the Ballator Gallery in the Moody Center at Hollins University. The speaker will be Frank Settle, talking on "The Chemistry of the Nuclear Fuel Cycle".

The meal will be chicken cordon bleu, vegetable Napoleon, rice pilaf, green beans and almonds, tossed salad, rolls, and apple pie. The dinner is \$14, with students and retired members being half price.

Reservations for the meal must be made by WEDNESDAY, NOVEMBER 10, SEVEN DAYS BEFORE THE MEETING, by phoning Dan Derringer at 540-362-7433, or by e-mail to dderringer@hollins.edu, or by mail to Dan Derringer, Hollins University, Department of Chemistry, P.O. Box 9578, Roanoke, VA 24020

Dr. Frank Settle
Washington and Lee University

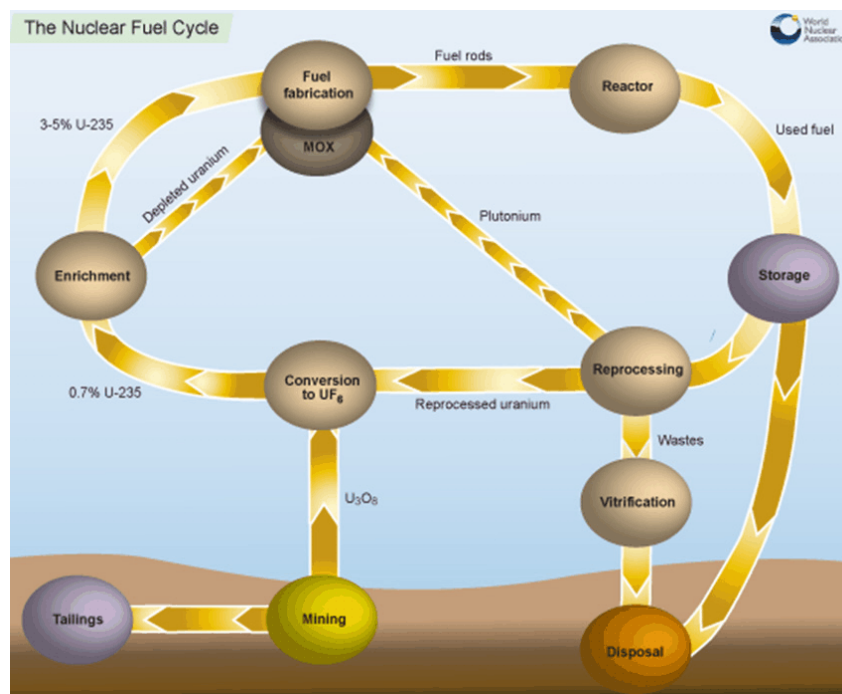
For 28 years Dr. Frank Settle was professor of chemistry at Virginia Military Institute, Lexington, VA. During this time he received several local and state awards for teaching and undergraduate research in analytical chemistry. Since that time he has been a consultant to the Department of Energy and a program officer in the Division of Undergraduate Education at the National Science Foundation. He currently is visiting professor of Chemistry at Washington and Lee University where he directs the Alsos Digital Library for Nuclear Issues (<http://alsos.wlu.edu>) and teaches interdisciplinary courses on the nuclear age, the role of nuclear power in the global energy portfolio, and the science and politics of weapons of mass destruction. Most recently he has worked with the National Energy Education Development (NEED) program in conducting workshops for middle and high school teachers on nuclear energy. Dr Settle obtained a BS in chemistry from Emory and Henry College and a PhD in chemistry from the University of Tennessee, Knoxville. He received the J. Calvin Giddings award for excellence in education from the Division of Analytical Chemistry in 2005.



The Chemistry of the Nuclear Fuel Cycle

The nuclear fuel cycle consists of a series of industrial processes that produce fuel for the production of electricity in nuclear reactors, use the fuel to generate electricity, and subsequently manage the spent reactor fuel. While the physics and engineering of controlled fission are central to the generation of nuclear power, chemistry dominates all other aspects of the nuclear fuel cycle. An understanding of this chemistry is necessary to address the economic, environmental, safety, and proliferation issues which are essential to any substantive evaluation of nuclear power's contribution to the global energy portfolio. This paper describes the role of chemistry in each component of the cycle from the metallurgy of uranium to the disposition of spent reactor fuel. It also addresses the economics of the components of the cycle and the costs of nuclear power relative to other sources of energy.

Graphic from World Nuclear Association



Ballot, Blue Ridge Section, ACS, for 2011

The Nominating Committee has prepared the following slate of nominees for the election at the November meeting. All have agreed to serve if elected. Other nominees will be accepted from the floor at that meeting. If you would like to nominate someone, please check with that person about his or her willingness to serve.

Chair	_____	Dwight Williams, Lynchburg College	_____
Chair-elect	_____	Kim Lane, Radford University	_____
Secretary	_____	Natalia Smelkova, Ferrum College	_____
Treasurer	_____	Vernon Miller, Roanoke College	_____
Recorder	_____	Gary Hollis, Roanoke College	_____
Newsletter Editor	_____	Vernon Miller, Roanoke College	_____
Councilor	_____	Ben Huddle, Roanoke College	_____
Alternate-councilor	_____	Gwen Sibert, Roanoke Valley Governor's School	_____

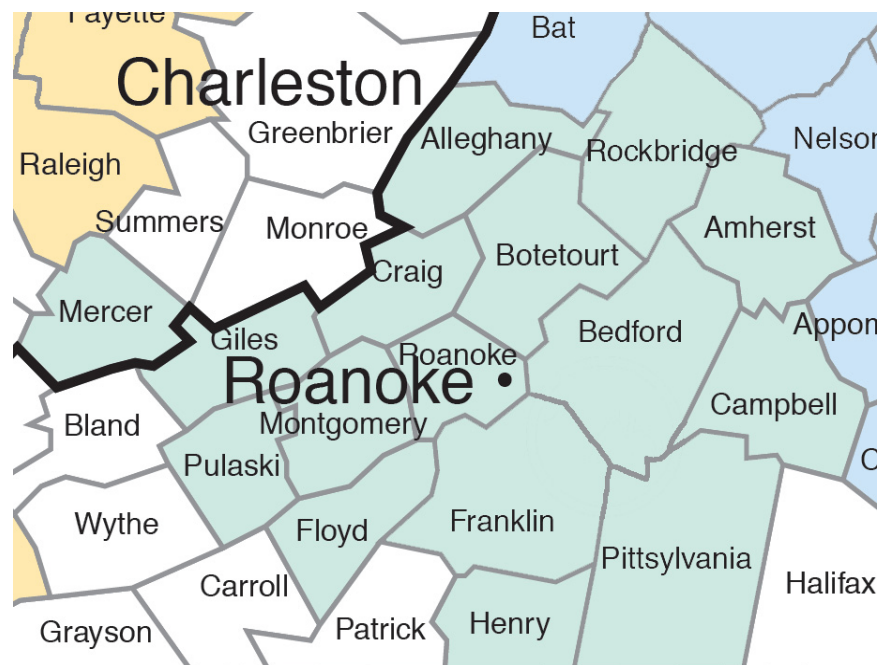
Bring your ballot to the November meeting, or mail it to Gary Hollis, Department of Chemistry, Roanoke College, Salem, VA 24153.

Information on the Virginia Blue Ridge Section

Below is some information from the recent demographic report for our Virginia Blue Ridge Section of the American Chemical Society.

Number of Emeritus Members - 49
Number of Regular Members - 280
Number of Regular Student Members - 134
Number of Retired Members - 20
Number of Society Affiliates - 3
Number of Student Members - UnderGrad - 92
Total Number of Members - 578

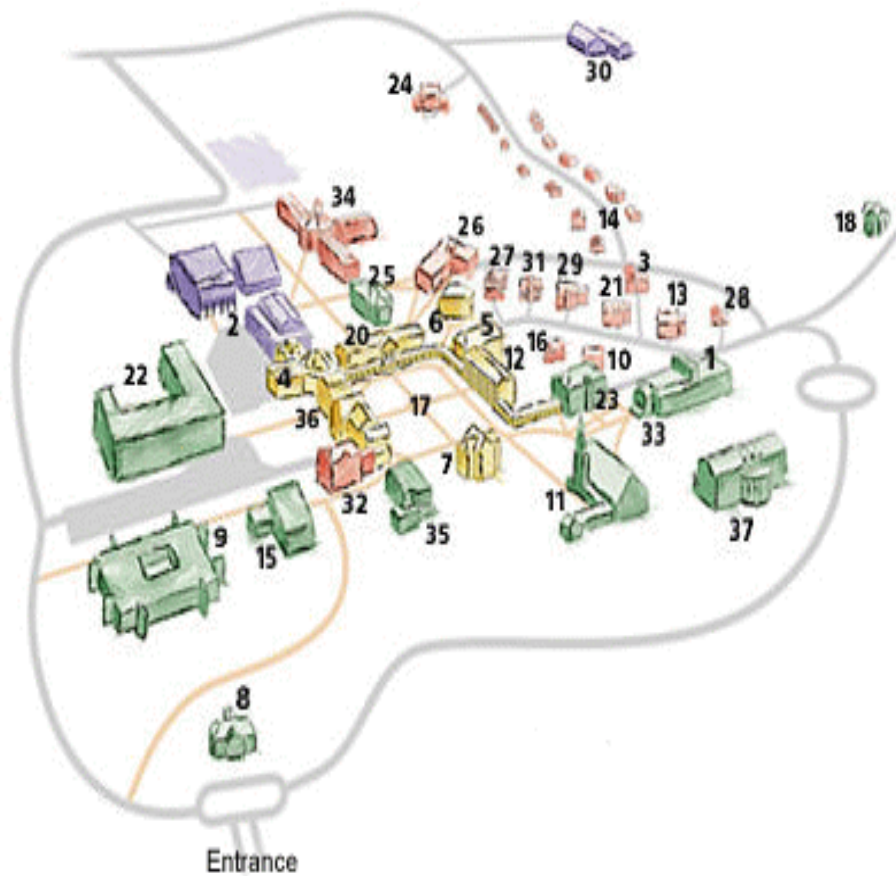
The counties served by our section are shown in the map below.



Directions to Hollins University

From I-81, take the Hollins exit (146) south to Peters Creek Road and turn left. The entrance to Hollins University is a little more than half a mile and is on the left. The meeting is in the Ballator Gallery of the Moody Center (Building #22)

Map of Hollins University



Vernon Miller, Editor
VA Blue Ridge Section, American Chemical Soc.
Chemistry Dept., Roanoke College
Salem, VA 24153-3789

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Return Service Requested

The January meeting is being planned with a tour speaker and meeting at the Roanoke Valley Governor's School. When it becomes available, more information will be added to the copy of the BRC that is on our Web site at www.acs-vbrs.org.