

The Blue Ridge Chemist

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Executive Committee Hosts May Meeting

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

VIRGINIA BLUE RIDGE SECTION AMERICAN CHEMICAL SOCIETY

593th SECTION MEETING

Hosted by the Executive Committee

Wednesday, May 11, 2005

PROGRAM:

5:30-7:00 Dinner at Sal's Italian Restaurant and Pizzeria
7:30- Meeting and Wine Tasting at Vintage Cellar

The dinner will be 5:30-7:00 at Sal's Italian Restaurant, 709 W. Main St, Radford. The meeting and wine tasting will be at Vintage Cellar, 1017 E. Main St, Radford. The speaker will be Bruce Zoecklein, speaking on "Overview of Wine Research at Virginia Tech".

Sal's offers a wide variety of soups, salads, pizzas, and sandwiches in addition to pasta, seafood and meat entrees. Individuals may order directly from Sal's menu (online at <http://www.salsradford.com>) and are responsible for the cost of their own meals and gratuity.

Reservations for the dinner must be made by TUESDAY, MAY 3 by calling Elizabeth Cox at 540-458-8163 or by email to coxe@wlu.edu, or regular mailing to Department of Chemistry, Washington and Lee University, Lexington, Va 24450.

Please be sure each RSVP indicates one of the following choices:

- will attend dinner at Sal's only
- will attend dinner at Sal's, and wine-tasting (additional \$12) and talk (no charge) at The Vintage Cellar
- will attend dinner at Sal's and talk at The Vintage Cellar (no charge), but will not participate in wine-tasting

Note, there is no seating at Vintage Cellar.

Dr. Bruce W. Zoecklein



Bruce Zoecklein worked in the California wine industry and taught Enology at California State University-Fresno prior coming to Virginia Tech in 1985. He was hired to formulate research, teaching and extension programs to support the development of the Virginia wine industry. His education includes: BS Microbiology/Biochemistry, MS Horticulture and Ph.D. Food Science. Dr. Zoecklein is the Head of the Enology-Grape Chemistry Group in the Department of Food Science and Technology at Virginia Tech which provides educational resources to assist Virginia wine producers. He conducts research, extension, classroom and graduate student education. He has co-authored two books on wine chemistry and analysis, three book chapters, and numerous research, trade, and extension publications. His research interests include grape-derived aroma and flavor precursors. He is a member of the Editorial Board of the Journal of Food Composition and Analysis, the Journal of the American Society for Enology and Viticulture and Practical Winery and Vineyard. He has been a member of the Board of the American Society for Enology and Viticulture, eastern section and is a member of national American Viticulture and Enology Network (AVERN). Dr. Zoecklein has received two extension and one teaching award from Virginia Tech. In 1993 he was given the Vinifera Winegrowers Achievement Award and in 1994 the Department of Agriculture and Consumer Services Virginia Wine Person of the Year Award. He has consulted for the Romanian, Moldovain, Italian and Argentine governments. Information on the teaching, research and extension activities of the Enology-Grape Chemistry Group at Virginia Tech is available at www.fst.vt.edu/zoecklein/index.html.

Overview of Wine Research at Virginia Tech

Grape aroma compounds are present as free volatiles which may contribute directly to odor, or as nonvolatile sugar-bound conjugates, which are mainly glycosides. Glycoside hydrolysis can produce free volatiles some of which are odor-active compounds. The Enology-Grape Chemistry Group at Virginia Tech has been involved in a number of studies evaluating the impact of grape growing and wine processing on these important aroma/flavor precursors which will be outlined.

Letter from the VBRS Chair

Dear Virginia Blue Ridge Section members,

I am pleased to report a successful 2005 to date. Many section members have contributed to this success, whether it has been through hosting local meetings, speaking to the section, or faithfully attending and bringing along potential new members. I anxiously await the May meeting to see if the dinner table conversation topics that emerge can top those that I have already experienced this spring, which have ranged from the many practical uses of a can of Coke to the causes of ozone depletion to the behind-the-scenes happenings at science fiction conventions.

What has your executive committee been up to since January? We are in the process of completing a much-needed update of our Officer Job Manual, which outlines the duties of each officer and section committee. When these descriptions are completed, they will be published on the VBRS website (<http://membership.acs.org/V/VBR/>). I encourage you to take a look to see the ways your own skills and interests match up to particular section initiatives. Acting on another of our goals, a new cost structure for meeting meals will be implemented. Beginning in September 2005, meal cost will increase from \$12 (\$6 for students and retirees) to \$14 (\$7 for students and retirees). This modest increase takes into account responses from our member survey and an examination of rising catering costs.

As you look ahead to the fall, stay tuned for updates on these key VBRS events:

- Thursday, September 29, joint ACS/IEEE meeting at VMI, speaker: Duane Blackburn, chair of the National Science & Technology Council working group on biometrics
- Monday, October 3, meeting with Bill Carroll, national ACS President, Roanoke location TBD

October 16-22, National Chemistry Week activities celebrating
"The Joy of Toys"

Thanks for all that you do to support the Virginia Blue Ridge Section and please let me know what ways the Section can better serve you in return.

Sincerely,

Elizabeth Cox
2005 Chair

**W&L Professor Frank Settle
Wins J. Calvin Giddings Award**

Washington and Lee University Professor of Chemistry Frank Settle has been awarded one of the most esteemed honors in his field, the J. Calvin Giddings Award for Excellence in Education.

The award is given annually by the Division of Analytical Chemistry of the American Chemical Society (ACS) to an individual who has made an outstanding contribution to the "personal and professional development of students in the study of analytical chemistry." It will be presented at a symposium at the fall national meeting of the ACS in Washington, DC.

Settle has been a professor in the chemistry department at Washington and Lee since 1998. In that relatively short time he, along with Dr. Michael Pleva, has developed a laboratory course that was featured in a 1999 issue of "Analytical Chemistry", worked with W&L's geology department to obtain a National Science Foundation (NSF) grant, organized one of the first ever sessions of the Federation of Analytical Chemistry and Spectroscopy Societies to

focus on education, and received an NSF grant to promote the participation of analytical educators at professional meetings. He is also currently a member of the board of governors for the National Conference on Undergraduate Research.

Settle is the director of the NSF-funded Alsos Digital Library for Nuclear Issues (<http://alsos.wlu.edu>) a searchable database of annotated references for the study of nuclear issues. The collection of references includes books, articles, films, CD-ROMs, and websites collected with the purpose of making the past and present of nuclear issues more accessible to educators, students and the general public.

Before coming to Washington and Lee Settle, who began his career in the analytical laboratory in the acid division of Tennessee Eastman Company in Kingsport, Tenn., was a program director in the Division of Undergraduate Education at the National Science Foundation, working to enhance the role of chemical analysis in undergraduate education.

As a member of the chemistry department at the Virginia Military Institute for many years, Settle originated a number of classroom innovations including an interdisciplinary, laboratory-based course in computer interfacing and a laboratory for automating chemical analysis. He received three faculty awards for teaching and research during his time at VMI and was chosen as one of ten outstanding Virginia faculty by the Virginia Council of Higher Education.

Settle received a B.S. in chemistry from Emory and Henry College and a Ph.D. in organic chemistry from the University of Tennessee, Knoxville.

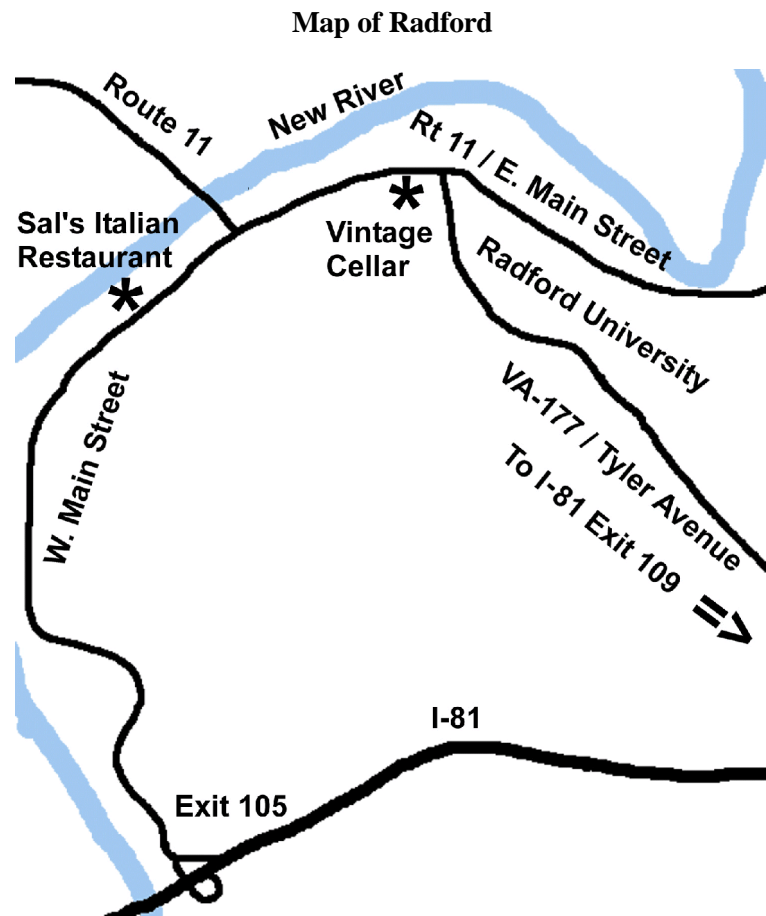
More information on this award can be found on the W&L Web site at <http://news.wlu.edu/news/page/normal/1207.html>.

Directions to Sal's Restaurant and the Vintage Cellar

Directions to Sal's Italian Restaurant (540-639-9669): Take Exit 105 from I-81 and travel 3 miles. Sal's is on the left in Central Square shopping mall.

Directions to Vintage Cellar (540-731-8466): Take Exit 109 from I-81. At the end of the ramp, turn right onto VA-177 / Tyler Avenue. Go 4 miles. Turn left onto Main Street, at SunTrust. Vintage Cellar is on the left past Subway.

To go from Sal's to Vintage Cellar, make a left turn onto Main Street. Go 1.6 miles. Look for Wachovia on the left. Past Wachovia, Vintage Cellar is on the right. Parking is available in front of the building and in a lot across the street.



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THE BLUE RIDGE CHEMIST
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The next Virginia Blue Ridge Section meeting will be Thursday, September 29, and will be a joint ACS/IEEE meeting at VMI. The speaker will be Duane Blackburn, chair of the National Science & Technology Council working group on biometrics. The contact person is Bob Ludt.