

The Blue Ridge Chemist

The Blue Ridge Chemist, since 1947 the
Official Local Section Publication of the
Virginia Blue Ridge Section, American Chemical Society



VOLUME LXIV

September 28, 2011

No. 6



Washington & Lee University Hosts the September Meeting

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

VIRGINIA BLUE RIDGE SECTION AMERICAN CHEMICAL SOCIETY

641st SECTION MEETING

Hosted by Washington & Lee University
Wednesday, September 28, 2011

PROGRAM:

- 5:30-6:30 Social Time, Great Hall of Science Center**
6:30-7:30 Dinner, Great Hall of Science Center
7:30-8:30 Presentation, Science Center, Room A214

The social time and dinner will take place in the Great hall of Science Center, and the talk will take place in the room A214 of the Science Center at Washington & Lee University. The evening's speaker is Dr. Erich Uffelmann from W&L, who will present a talk entitled: "The Technical Examination of Paintings and Cultural Heritage Objects".

The buffet dinner consists of hearts of Romaine and red leaf lettuce Greek salad with tomato, olive, feta, pepperocinis, and red wine vinaigrette; grilled breast of chicken with roasted garlic and spinach and cream sauce; toasted orzo with roasted vegetables; Greek sauteed zucchini, yogurt, and tomato; assorted rolls; baker's choice dessert; ice tea and water; coffee service including hot water with tea bags. Vegetarian meals will be made upon request. Cost for the meal is \$14.00, with students and retired ACS members being half price.

Reservations for the dinner should be made by **WEDNESDAY, SEPTEMBER 21, SEVEN DAYS BEFORE THE MEETING** by calling Dr. Christine Winschel 540-458-8343, or e-mail to winschelc@wlu.edu, or regular mail Washington & Lee University, Department of Chemistry, Lexington, VA 24450.

Dr. Erich Stuart Uffelman
Professor of Chemistry
Washington & Lee University

Erich Uffelman graduated as the Outstanding Senior Chemistry Major in Bucknell University's class of 1984 with a Bachelor's of Science Degree (magna cum laude). He obtained an NSF Predoctoral Fellowship to attend the California Institute of Technology, and received his Ph.D. in Inorganic Chemistry from Caltech in 1991 under the direction of Prof. Terrence J. Collins. Under Dr. Collins, he designed a series of macrocyclic tetraamide ligands and metallation protocols that resulted in several unprecedented oxidation states/coordination numbers for the first row transition metals from chromium to copper. These multiply-patented macrocyclic systems resulted in Dr. Collins' receiving the 1999 Presidential Green Chemistry Challenge Award in 1999 for the development of Fe-TAML hydrogen peroxide activating catalysts; Uffelman received a certificate of achievement in recognition of his initiation of the TAML systems. Uffelman was an NIH Postdoctoral Fellow in the laboratories of Prof. James P. Collman at Stanford University from 1991-1993, where he worked on biomimetic complexes of cytochrome P450. Uffelman joined the Chemistry faculty at Washington and Lee University in 1993 and has continued to pursue high-valent synthetic inorganic complexes and catalysts. He has won four W&L Class of '65 Excellence in Teaching Awards. He has been awarded external funding from the NSF, American Chemical Society-PRF, Research Corporation, Hewlett Packard, Associated Colleges of the South, etc. He has trained 50 undergraduate students in his research labs. In 2009, he was one of



twelve faculty in the Commonwealth of Virginia to win the State Council of Higher Education of Virginia's Outstanding Faculty Award. In 1994 he began planning a course on the technical examination of 17th century Dutch painting, which he first taught in 1999. He has taught several variations of the course at W&L, taking the class to The Netherlands since 2005. He has helped teach the NSF CWCS Chemistry in Art Workshop since 2005. He is currently working on a book for Oxford University Press on the Chemistry of Old Master Paintings and is involved with three different funded NSF MRI grants. In the past year, he has collaborated with The Mauritshuis, the Smithsonian, the Balboa Art Conservation Center, Monticello, and Mount Vernon.

**The Technical Examination of
Paintings and Cultural Heritage Objects**

Chemical and analytical examinations of famous paintings are conducted by museums around the world for purposes of preservation and sometimes authentication. Often as a result of such examinations an unknown past is uncovered, revealing a history of modifications throughout the centuries and a new understanding of artistic intent. This talk will discuss the use of analytical techniques as applied to the examinations of 17th century Dutch paintings, as well as works by other artists from other regions and time periods. Famous classic investigations of paintings such as Vermeer's "Girl with the Pearl Earring" and Rembrandt's "Anatomy Lesson of Dr. Nicolaes Tulp" will be discussed, in addition to the speaker's participation in the examination of paintings by Jan Steen, Rachel Ruysch, Veronese, Charles Willson Peale, and the circle of Gilbert Stuart.

Immediate Temporary Teaching Position at Virginia Western Community College

Adjunct faculty member needed immediately to teach CHM 111 and CHM 112 at Virginia Western Community College (first and second semester general chemistry) due to a faculty member who will be out on personal leave for the rest of the semester. It would consist of one lecture and two labs for each class. The minimum requirements are a Bachelor's degree with several graduate Chemistry hours. If interested, please send email to Owen Lofthus at olofthus@viriniawestern.edu or call at 540-857-6304.



Directions to Washington & Lee University

- Follow I-81 to exit 191 (which puts you onto I-64).
- Take exit 55 off I-64 and turn left onto Route 11 south at the stop sign.
- Once you are on Route 11 south, you will drive through three stoplights. After the third stoplight, you will cross the Maury River, and bear right onto Route 11 Business. You will pass Virginia Military Institute.
- After you pass Virginia Military Institute, you will see W&L on your right.

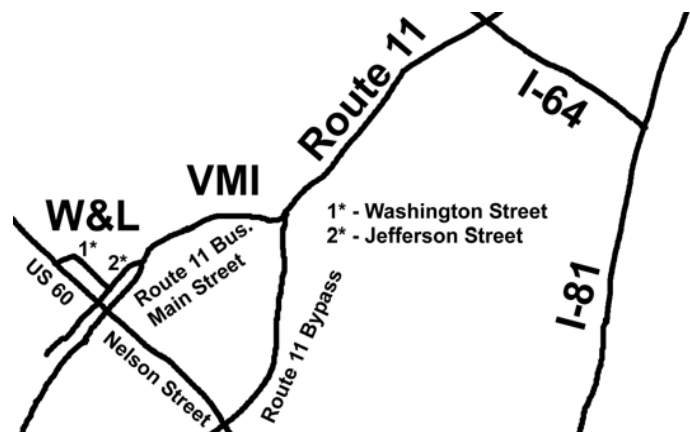
Parking options:

- 1.) A small parking lot is available in the Lee Chapel lot on Jefferson Street. Remain in the right lane and look for the brick entrance to this parking lot.
- 2.) Street Parking.
- 3.) Handicap parking is available near the Science Center (follow signs for Admissions Office).
- 4.) Parking Garage located on US 60.

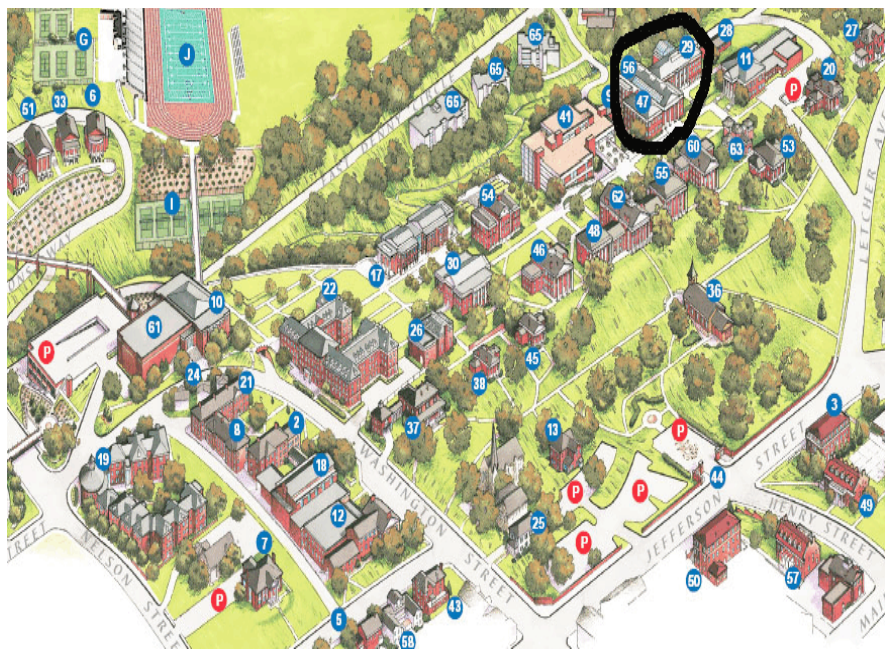
Link to a printable campus map:

<http://newsoffice.wlu.edu/PrintmapNew.pdf>

Map to Lexington



Map of W&L



The Science Center (circled on the map) contains the Great Hall, Parmly Hall (47), Howe Hall (29), and Science Addition (56). Gilliam Admissions House is 20, and P is parking.

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The next meeting will be October 19 at Ferrum College. The speaker will be Natalia Smelkova, speaking on "Role of Chemistry in Identification of Forgeries in Art". The contact person is Natalia Smelkova.