

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 LXIX

March 24, 2016

No. 2



Roanoke Valley Governor School Hosts March Meeting

VIRGINIA BLUE RIDGE SECTION AMERICAN CHEMICAL SOCIETY

676th SECTION MEETING
Roanoke Valley Governor School
Thursday, March 24, 2016

PROGRAM:

- 5:30-6:00 Social time, Lecture Hall, RVGS
6:00-7:00 Dinner, Lecture Hall, RVGS
7:00-8:00 Talk, Lecture Hall, RVGS

The social time, dinner, and presentation will all take place in the Lecture Hall at Roanoke Valley Governor's School. Dr. Rich Helm will be speaking. His talk is titled "Proteomics and Metabolomics in the Post-Genomic Era".

The dinner will consist of pork barbeque (in a tomato-based sauce), chicken quarters, baked potato, tossed salad (choice of three dressings), and pie (choice of three). Beverages include iced tea & coffee. The dinner is \$14, with students and retired members being half price.

Reservations for the dinner must be made by WEDNESDAY March 17, (7 DAYS BEFORE THE MEETING) by contacting Steve Smith at phone number (540) 853-2116, or by e-mail to ssmith@rvgs.k12.va.us, or by writing to Steve Smith, Roanoke Valley Governor's School, 2104 Grandin Road SW, Roanoke, VA 24015.

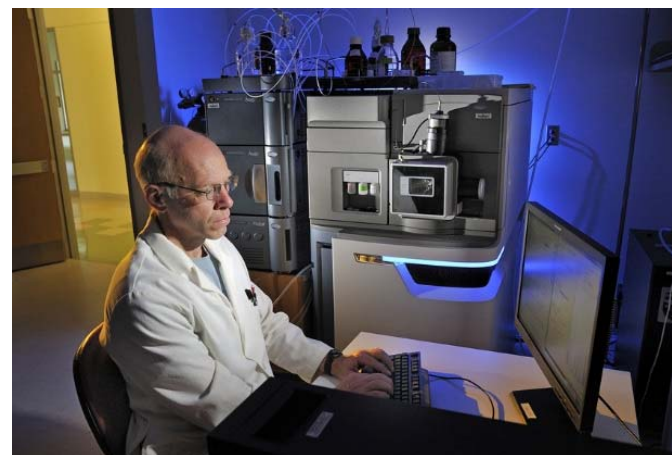


Dr. Richard F. Helm
Associate Professor of Biochemistry
Department of Biochemistry
Virginia Tech

Rich Helm is in the Department of Biochemistry at Virginia Tech, where he presently teaches General Biochemistry. He is also Director of the Virginia Tech Mass Spectrometry Incubator (VT-MSI), a facility that collaborates with multiple research groups on the Virginia Tech campus, applying mass spectrometry techniques to a wide array of research projects. Helm received his BS in Paper Science and Engineering from the SUNY College of Environmental Science and Forestry, and his PhD in Forestry from the University of Wisconsin. He also has post-doctoral experience at Oregon State University and the US Dairy Forage Research Center. He joined the faculty at Virginia Tech in 1992 in the Department of Wood Science and Forest Products and moved to the Department of Biochemistry in 2004. He is a member of AAAS, ACS, ASBMB and ASM.

Proteomics and Metabolomics in the Post-Genomic Era

We currently live in the “post-genomic era.” Essentially this means that the genomes (DNA sequence) of most organisms are obtainable, as are lists of genes that are expressed at different levels upon exposing an organism to genetic or environmental perturbations. This has led to massive increases in the availability of genomic information, far surpassing mechanistic knowledge of how a particular reaction or biochemical pathway is controlled. Even in well-studied organisms, the majority of gene products have never been evaluated experimentally as to their function. Mass spectrometry-based protein (proteomic) and metabolite (metabolomic) analyses can aid in “working out the biochemistry”. Using examples from the laboratory, an overview of how such analyses impact various research fields will be described.



As a part of the April 8, 2016 meeting at Radford University, the Virginia Blue Ridge Section of the American Chemical Society is sponsoring the twenty-first Annual Undergraduate/High School Poster Session. Note that poster boards will be provided.

If you have a student or students, who will be participating, submit the following information by email to Chris Hermann (chermann@radford.edu) by April 1, 2016. This is a firm deadline. No poster submissions will be accepted after this time. All students and faculty will get email confirmation. If you did 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: _____

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

_____ poster board with tripod on table

_____ table needed

Directions to the Roanoke Valley Governor's School

The Governor's School is located a little south of the corner of Grandin Road and Brandon Avenue. (Brandon Avenue is the continuation of Apperson Drive and Lee Highway.)

Driving south on I 581 (220), take the exit for Colonial Avenue. At the end of the exit ramp, turn right onto Colonial Avenue; continue below.

Driving north on I 581, take the second Wonju Street exit. Turn right at the end of the exit ramp onto Wonju Street. At the light, turn right onto Colonial Avenue and continue below.

Stay in the left lane on Colonial. Turn left at the light onto Brandon Rd. At the intersection of Brandon with Grandin Road, turn left, and shortly turn left again into the campuses of Patrick Henry High School and the Roanoke Valley Governor's School. After entering these campuses, the building ahead and a little to the right is the Governor's School.

Please call (540) 853-2116 for directions to the meeting, if they are not obvious.

Map to the Roanoke Valley Governor's School

