



*The Bulletin*  
of the  
Virginia Section  
AMERICAN CHEMICAL SOCIETY

APRIL MEETING NOTICE

APRIL 2014

**University of Virginia**  
Charlottesville, Virginia

**Friday, April 11, 2014**

**POSTER SESSION:** 6:00 - 7:00 p.m.  
(*STUDENT RESEARCH*) Lobby  
Chemistry Building

**DINNER:** 6:00 - 7:00 p.m.  
Lobby  
Chemistry Building

**PROGRAM:** 7:00 p.m.  
Room 304  
Chemistry Building

**MENU:** Pizza (many varieties), Soft Drinks

**DINNER RESERVATIONS:** Please make reservations by calling Cindy Knight at (434) 924-7995 or e-mail [csk3a@virginia.edu](mailto:csk3a@virginia.edu) by **NOON** on Wednesday, April 9.

**PRICE:** \$8.00 - members, guests, college students;  
\$4.00 - high school students

**HOST:** Dr. James Demas - (434) 924-3343, [demas@virginia.edu](mailto:demas@virginia.edu)

**SPEAKER:** Dr. David Hudson, University of Virginia

**TOPIC:** "Ethics in Research—Good Citizenship Rules Apply"

S	M	T	W	T	F	S
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		<i>reservations</i>			<i>meeting</i>	
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27	28	29	30			

## **Dr. David Hudson**



David Hudson received his undergraduate degree at the University of California at Riverside, and his Ph.D. from the University of Oregon.

A post-doctoral fellowship followed, first at the University of Texas at Austin, and then in the Institute for Neuroscience at the University of Oregon.

As a researcher in the field of biological rhythms, he studied melatonin synthesis in the pineal gland of the mouse, as well as circadian photoreception in mice with degenerate retinas. After several years in research he made the transition to administration, first at the department level (Assistant Chair, Neurobiology and Physiology – Northwestern University; Associate Chair in the Department of Biology - UVA) then the center level (Assistant Director, NSF Science and Technology Center for Biological Timing at UVA), and now, the university level. He is currently the Associate Vice President for Research at the University of Virginia.

In addition to research enhancement activities, he works with the institution's Institutional Review Boards for human subjects research, the Animal Care and Use Committee, and oversees a range of other research compliance activities including research misconduct and conflicts of interest.

For fun, he flies small, general aviation aircraft and plays bass (though not at the same time).

### **“Ethics in Research—Good Citizenship Rules Apply”**

We expect professionals in various fields to establish, accept and practice according to discipline-specific or field-specific codes of ethics. As researchers, we are certainly “professionals” and we too should espouse our own code of professional ethics. We often refer to the contents of this code as the “responsible conduct of research” (RCR). At a basic level, RCR is just good citizenship applied to the world of the researcher. We will explore some of the specifics of RCR for the scientific researcher; many of these elements are incorporated into federal regulations or code with which you are already familiar. We will explore some examples of research misconduct in the published literature. I believe you will share my disappointment as well as my surprise at both the egregiousness and the obviousness of these examples.

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**COME EARLY ON APRIL 11 TO SEE THE  
UNDERGRADUATE RESEARCH POSTERS**

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## DIRECTIONS

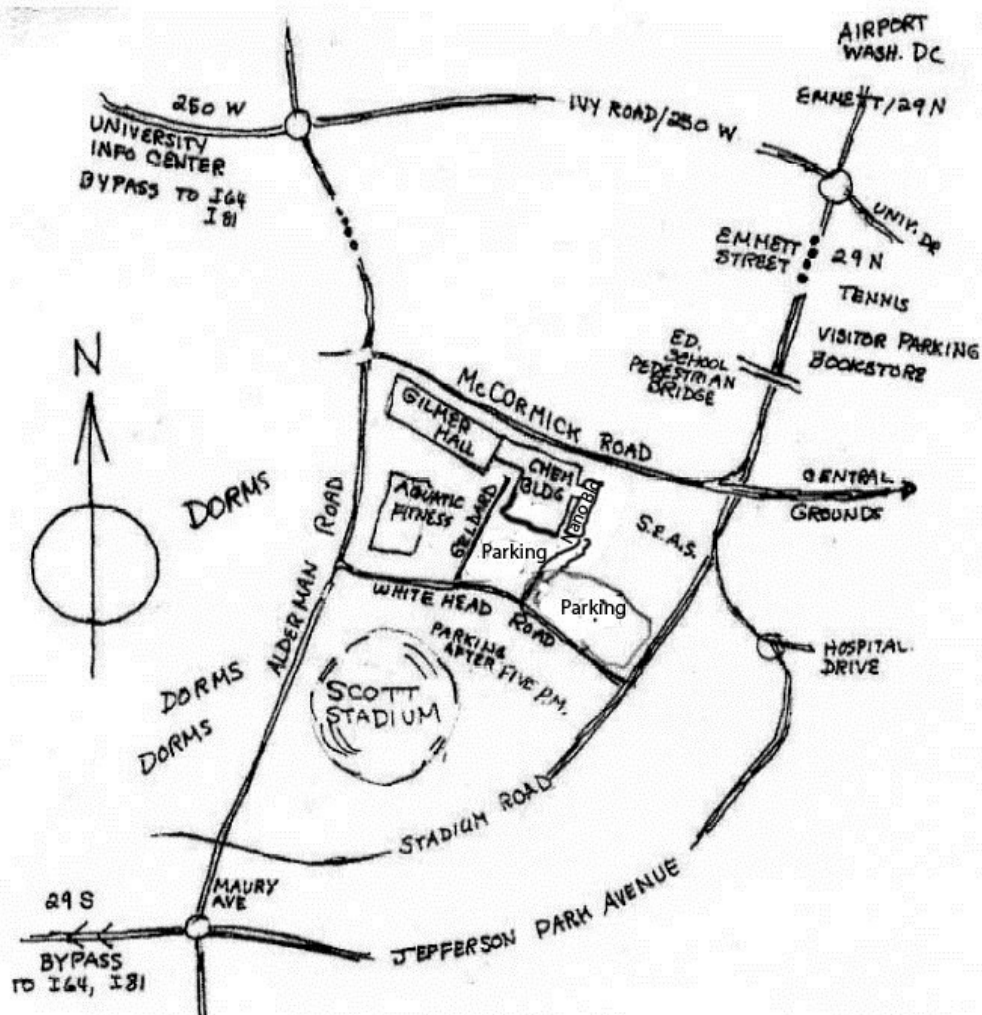
**From 29N.** Come straight into town past the Cavalier Inn (on your right), pass under two overhead bridges, and then bear right immediately afterwards onto Stadium Rd. Turn right at the stop sign at the top of the hill onto Whitehead Road. Parking is on the right and left.

**From I-64.** Turn north on 29 at Exit 118. Immediately turn right at the Charlottesville/29 Business off ramp. Turn right to go into town, then turn left at the second light (filling station on your left). Turn right immediately after the stadium onto Whitehead Road. This brings you to the back or new wing of the chemistry building. Parking is on the right and left. Do not park in the athletic center spots.

**If you miss the first off ramp after I-64,** turn right at the next exit (UVA information), proceed into town, turn right at the second light (Alderman Rd.), go through the first light, then make a left at Whitehead Road.

**Until 5:00 p.m., all parking around the Chemistry Building is restricted and you will be ticketed.** Please time your arrival so that you park after 5:00. It is most convenient to come around the new Nanotech building on the east side. **On-line map at <http://chem.virginia.edu/contact-us/maps-directions-to-uva-chemistry/>.**

### MAP



**\*\*\* VIRGINIA SECTION NEWS \*\*\*****POSTER SESSION**

The Virginia Section will hold its annual poster session at the April 11 meeting at the University of Virginia in Charlottesville. The emphasis is on student research, especially work done by undergraduates. This is an excellent informal, low-stress environment for students to make research presentations. If you have a student who wishes to present a poster, please contact Cindy Knight at (434) 924-7995; [csk3a@virginia.edu](mailto:csk3a@virginia.edu). More information can be found on this website: <http://chem.virginia.edu/undergraduate-studies/undergraduate-research/2014-american-chemical-society-poster-session/>. The deadline for registering a poster is **April 7**. We invite everyone to come early for the UVA meeting and to support these young researchers. Also, outstanding college and university chemistry majors will be recognized at this meeting.

**AWARDS TO COLLEGE SENIORS**

Outstanding senior chemistry majors from colleges and universities in the Virginia Section will be honored at the April 11 Section meeting in Charlottesville. Each school has been asked to select a student to receive the Virginia Section award for undergraduate achievement. The awardees will be the guests of the Section at the meeting on April 11 and each will receive a certificate of recognition and a special gift from the Virginia Section. Chemistry departments must inform Chair Scott Gronert of their nominees. If you have not submitted the name of your outstanding senior chemistry student, please contact Scott at (804) 828-2753; [sgronert@vcu.edu](mailto:sgronert@vcu.edu).

**THE CHAIR'S CORNER**

The April meeting is an exciting one for the section. It is our chance to focus on undergraduates, and their research and scholastic achievements. The meeting at the University of Virginia begins with the traditional undergraduate poster session, which offers a great opportunity to see cutting-edge research and chat with bright, young chemists. The evening also includes the annual Virginia ACS awards to the outstanding seniors at colleges and universities in the Section. Please come out and meet these exceptional students on April 11.

This event and others like it remind us that the future of chemistry is strong and that a talented new generation is on its way. Today's students are the future of the ACS and the Virginia Section. When we have the opportunity, we should all try to reach out to students and let them know what ACS offers, particularly at the local level. As they move into the industrial or academic world, participation in Section events will allow them to meet others in the field and begin a lifetime of networking.



...**Scott Gronert, 2014 Section Chair**    [sgronert@vcu.edu](mailto:sgronert@vcu.edu)

## EXECUTIVE COMMITTEE MEETING

The Spring Meeting of the Executive Committee of the Virginia Section will be held at 6:00 p.m. on **Friday evening, May 2** in room 2223 of the Temple Building at Virginia Commonwealth University in Richmond. All members of the Section are welcome to attend. For more information, contact Dr. Scott Gronert, Chair of the Section: (804) 828-2753; sgronert@vcu.edu.

### VIRGINIA ACADEMY OF SCIENCE ANNUAL MEETING

Virginia Commonwealth University  
Richmond, Virginia  
May 14-16, 2014



The 92<sup>nd</sup> Annual meeting of the Academy will be held at Virginia Commonwealth University in Richmond on May 14-16. Oral presentations will be scheduled on May 15. There will be a Poster Session for all Sections that will be set up and stay up all day Thursday, May 15. For more information on the chemistry program, contact Tom DeVore, Chemistry Section Secretary, at [devore@jmu.edu](mailto:devore@jmu.edu). Full information about the annual meeting and about Academy membership can be found on the Academy's website: <http://www.vacadsci.org>.

## SEMINARS AT VIRGINIA COMMONWEALTH UNIVERSITY

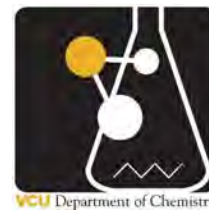
April 3 - **Dr. Michael Schultz**, McGuire VA Medical Center

April 10 – **Dr. Indika Arachchige**, VCU Department of Chemistry

April 17 - **Dr. Charles Winter**, Wayne State University

April 24 **Dr. Naomi Halas**, Rice University (**Kapp Lecture**)

“Optics at the Nanoscale: Shedding Light on Cross-cutting Science and Technologies”



Seminars are held at 3:30 p.m. in Room 1024, in the Physical Science Wing of Oliver Hall, 1001 West Main Street, Richmond. For more information, call (804) 828-1298.

## NOMINATIONS FOR AWARDS

The Virginia Section is soliciting nominations for these awards: Distinguished Service Award, Outstanding High School Chemistry Teacher Award, Outstanding Middle School Science Teacher Award, Outstanding Elementary School Science Teacher Award, Outstanding Industrial Innovator Award. Names of candidates for the three teaching awards should be submitted to Eileen Downey: [eileendowney@gmail.com](mailto:eileendowney@gmail.com). Suggestions for the Distinguished Service and Industrial awards should be forwarded to Yezdi Pithawalla: (804) 274-4587, [yezdi.b.pithawalla@altria.com](mailto:yezdi.b.pithawalla@altria.com).



## REPORT ON THE MARCH SECTION MEETING



State.

**Todd Koch and  
Jeff Seeman**

The Virginia Section met on Friday, March 14 at Virginia State University in Ettrick. Dr. Jeffrey Seeman gave an informative and entertaining talk on "Humor and Humanness of Great Chemists of the 20th Century."

He was introduced by Mr. Tolulope Idowu, a sophomore chemistry major at Virginia State and president of the VSU student affiliate chapter.

Dr. Scott Gronert, Chair of the Virginia Section, presided at the meeting. Dr. Todd Koch, Vice Chair of the Section, presented Dr. Seeman with the traditional engraved Jefferson Cup. This was the fifth Jefferson Cup received by Dr. Seeman, marking the five times that he has presented talks at Virginia Section meetings. Prior to the program, some 40 persons enjoyed a delicious dinner in the Gateway Dining Hall at VSU. Special thanks to Dr. Colleen Taylor, meeting host and to Dr. Grace Ndip, Chair of the Department of Chemistry and Physics at Virginia

The Section appreciates the cooperation of Virginia State in hosting this meeting and in providing financial support.



**Jeff Seeman and  
Tolulope Idowu**



**Bill Welstead, Jack Brown,  
and John Gupton**



**Bob Ferguson and  
Jeff Seeman**



## SEMINARS AT THE UNIVERSITY OF VIRGINIA

April 4 - **Professor Andrew Feig**, Wayne State University, "Clostridial Toxins: Disease Challenges and Biotechnology Opportunities"

April 11 - **Professor Greg Hillhouse**, University of Chicago, "Unusual Reactivity of 2-Coordinate Complexes of Ni(I) and Ni(II)"

April 18 - **Professor Jim Skinner**, University of Wisconsin

April 25 - **Professor Michael Fayer**, Stanford University, "Water Dynamics in Nanoconfined Systems" (**Jefferson Lecture**)

May 15 - **Professor Peter Dervan**, California Institute of Technology, "Molecular Recognition of DNA by Small Molecules. Fundamentals to Applications" (**Hecht Lecture**)

Chemistry colloquia are held at 4:00 p.m. in Room 304 of the Chemistry Building.  
The complete colloquium schedule is on-line at <http://chem.virginia.edu/events-seminars/>.

## **CHEMISTS CELEBRATE EARTH DAY (CCED) 2014**



The CCED 2014 theme is the "**Wonders of Water**," exploring the unique properties of water that are crucial for life and a cleaner environment. CCED seeks to bring international focus to environmental causes, such as clean air, water, and energy. The ACS offers events, contests, and educational resources for members, chemical educators, students, and chemistry enthusiasts to illustrate the positive role that chemistry plays in preserving the Earth.

The Virginia Section will be participating in CCED this year. Dr. Kristine Smetana, Chair of the Section Committee on Community Activities, will be organizing the activities that will be held on **Saturday, April 26** as part of the **Fool for Art** at the Midlothian Campus of John Tyler Community College. **Fool for Art** is a free, fun, hands-on, educational event. Visitors can participate in more than 100 free educational sessions and hands-on activities; shop the wares of top original art and craft vendors; and get their hands dirty as they celebrate Earth Day. **Fool for Art** is always free and open to the public. The event runs from 10:00 a.m. until 4:00 p.m. at the Midlothian Campus which is located just off Route 288 at the Woolridge Road exit. The address is 800 Charter Colony Parkway, in close proximity to the Charter Colony, Brandermill, Woodlake, and Grove communities. **Volunteers are needed to assist with the chemistry activities.** Contact Kristine Smetana at (804) 706-5143 or [ksmetana@jtcc.edu](mailto:ksmetana@jtcc.edu) with suggestions for other CCED events and to volunteer your assistance. General information on CCED can be found at [www.acs.org/earthday](http://www.acs.org/earthday) and on the JTCC **Fool for Art** event at [www.jtcc.edu/foolforart/](http://www.jtcc.edu/foolforart/).

### **...A LOOK BACK...**

**Dr. Jeffrey Seeman** spoke at the March 14 meeting of the Virginia Section. This was the fifth time that he has been the speaker at a Section meeting. Here are his previous four presentations:

**September 14, 2007** - Virginia Commonwealth University, "Anecdotes and Learning in a Science Career"

**March 1, 1996** - Longwood College, "The World of Chemistry—Diverse in Concepts and People, Yet Closely Connected"

**April 19, 1991** - University of Virginia, "Thousands of Years of Organic Chemistry: The Human Side"

**December 5, 1980** - Randolph-Macon College, "The Effect of Structure and Conformation on the Chemical Properties of Nicotine and Nicotine Analogues: Applications of Those Concepts to Nicotine Pharmacology"

## CHEMISTRY AT THE UNIVERSITY OF VIRGINIA

The University of Virginia Department of Chemistry is of medium size, combining outstanding physical facilities with a close-knit community of scholars. With a faculty size of 25, a graduate student body of about 95, and about 30 research associates, a stimulating atmosphere strongly encouraging interactive association has been created. Faculty research areas span a wide range offering a varied program of courses and research problems. Our 25 faculty members include professors who are nationally and internationally recognized in their fields. The list of recent honors received by faculty members includes the Distinguished Achievement Award in Proteomics from the Human Proteome Organization, the American Chemical Society's Award for Creative Work in Synthetic Organic Chemistry; Dreyfus Teacher-Scholar Awards for excellence in both teaching and research; Virginia Scientist of the Year awards, a Sloan Foundation Award, Alexander von Humboldt Research Prizes, an Analytical Chemistry Award in Chemical Instrumentation, a Presidential Early Career Award for Scientists and Engineers, a Coblentz Award, a MacArthur Genius Award, and a Gerhard Ertl Lecturer Award for Surface Science and Catalysis. Recent graduate student national fellowship awards include the Cognis Corporation Research Fellowship in Colloid and Surface Chemistry, the ACS Division of Medicinal Chemistry Predoctoral Fellowship Award, The Lilly Foundation Graduate Fellowship, The Science Application International Corporation Award and the Achievement Reward for College Scientists.

The goal of graduate study in chemistry is to develop outstanding young scientists able to make significant contributions in their chosen fields. A graduate student can expect to have considerable input in both the design of his or her own degree program as well as in matters pertaining to the operation of the Department as a whole. Emphasis is placed on research that contributes to our fundamental body of knowledge. Also important is the exceptional opportunity to interact not only with fellow graduate students, research associates and faculty, but also with outstanding scientists from all parts of the country and world. This participation in the forefront of scientific discovery prepares the student for the role of independent contributor to the scientific community.

Teaching and research in the Department of Chemistry have been considerably strengthened in recent years by a number of interdisciplinary centers and programs including Molecular Biophysics, Structural Genomics, Chemical Physics, Membrane Bound Proteins, Microfluidics, Biomedical Engineering, Neurosciences and Chemistry of the Universe. These programs, along with ongoing research in analytical methods, synthetic inorganic and organic chemistry, spectroscopy and other areas of physical chemistry, provide the student with a choice of strong research areas over a broad range of the chemical sciences. The faculty attracts more than \$11 million yearly in outside funding to support these programs, an indicator of the vigor of research being carried out in the Department.



The graduate program is further supported by an extensive library system. The Barksdale Chemistry Library, established by private gifts provides fundamental references and resources. Most major journals and data bases are available on line. Graduate students are entitled to keys to the building and to the library for research and reading. Alderman Library has more than 1.6 million books as well as extensive collections of manuscripts, maps, prints, and microfilms. The Science and Engineering Library, the large library of the Medical School, and the Physics Library contain numerous additional books and journals in chemistry and allied fields.



VIRGINIA SECTION  
*American Chemical Society*  
**2014 Executive Committee**

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<p><b><i>Alternate Councilor (2014)</i></b></p> <p><b>Joseph Crockett</b>            Bridgewater College            Bridgewater, VA 22812            (w) (540) 828-5431            jcrockett@bridgewater.edu</p>	<p><b><i>Alternate Councilor (2013-15)</i></b></p> <p><b>Will H. Lewis, Jr.</b>            5919 Matoaca Road            Petersburg, VA 23803-1545            (h) (804) 590-3083            (cell) (804) 586-5492            WLewis8669@aol.com</p>	<p><b><i>Alternate Councilor (2014-16)</i></b></p> <p><b>Janet Asper</b>            Department of Chemistry            University of Mary Washington            Fredericksburg, VA 22401            (w) (540) 654-1143            (h) (937) 430-5722            (fax) (540) 654-1081            jasper@umw.edu</p>
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## **QUESTIONS FROM THE PAST**

This question was asked in the March Bulletin: Several persons have spoken at more than one meeting of the Virginia Section. One person spoke twice using exactly the same title for his talk—"Great Mistakes in Science." His first presentation was in Waynesboro on October 11, 1974 and his encore talk on the same topic was in March, 1989 at the College of William and Mary. When he gave the first talk, he was Professor and Director of the Spectroscopy Laboratory at the University of Pittsburgh. In 1989, he was University Professor Emeritus of Chemistry at Pittsburgh. He has had an outstanding career in infrared and Raman spectroscopy and received the prestigious Pittsburgh Award from the ACS. One of his hobbies is the collection of stamps relating to chemistry and physics. He is co-author of the book *A Philatelic Ramble Through Chemistry*. **Who was the person who gave the two talks with the same title?** That was **Dr. Foil Miller**.

A new question: When Dr. Jeffrey Seeman gave his talk at the March meeting of the Section, he broke a tie with Dr. Lidia Vallarino for the number of presentations to the Section. Dr. Vallarino gave talks at four meetings. Dr. Seeman's five talks now ties him for the most ever. **Who is the University of Virginia professor who also has given presentations at five meetings of the Virginia Section?**

