



The Bulletin
of the
Virginia Section
AMERICAN CHEMICAL SOCIETY

APRIL MEETING NOTICE

University of Virginia
Charlottesville, Virginia

Friday, April 19, 2013

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 by **NOON** on Wednesday, April 17.

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

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

SPEAKER: **Dr. Clifton Draper, Tri-Dim Filter Corporation**

TOPIC: **"I Have Never Let My Schooling Interfere with My Education"**

APRIL 2013

S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
			<i>reservations</i>		<i>meeting</i>	
21	22	23	24	25	26	27
28	29	30				

Dr. Clifton Draper

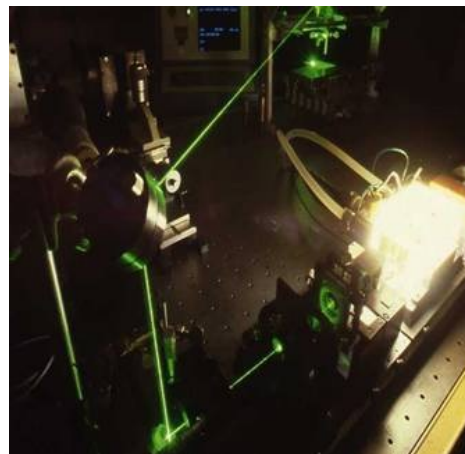


Clifton Draper did his undergraduate work at the State University of New York at Albany and then spent three years flying C-141 cargo jets in and out of Vietnam and all over Europe. With the benefit of the GI Bill, he received his Ph.D. in Physical Chemistry from Penn State University in 1977. He enjoyed a successful career at the Bell Telephone Laboratories during the time span from regulated monopoly through the tumultuous years of divestiture. Perhaps the younger ACS attendees won't even know that a long, long time ago in a galaxy not so far away, there was once only one phone company? Dr. Greg Olsen, one of UVA's more

successful and notable graduates, lured Dr. Draper away from Bell Labs to come work at Sensor Unlimited in Princeton, New Jersey, as soon as Dr. Draper was eligible for early retirement. After two years there, Dr. Draper opted to do something he had always wanted to do—teach elementary school. He was blessed to be in a public school system where he had the opportunity to teach science and math simultaneously to grades K–6. That is not grade level specific, but all the grades. Dr. Draper NEVER allowed a text book in his classroom. All science and math were taught by doing science and math, not by reading about it. He moved to Louisa, Virginia to be closer to his two granddaughters and totally by accident ended up being employed as the Corporate Engineering Director for Tri-Dim Filter Corporation. Dr. Draper has authored a book, holds numerous patents, has plenty of publications, was elected to national offices in the Materials Research Society, etc. etc. As you perhaps can tell from the title of his talk, he is a bit different!

“I Have Never Let My Schooling Interfere with My Education”

At 64 years of age, I reflect back on my various life and career paths and frequently think about the roles of serendipity and free will. I will endeavor to be both entertaining and informative as I revisit snippets from that past, attempting where possible to include chemistry. My scientific career has included laser research, the creation of metal alloys forbidden by phase diagrams, semiconductor manufacturing, wet chemistry processing, optical fiber manufacturing, the manipulation of production data to identify important yield hitters, the successful writing of grants to fill classrooms full of teaching stuff instead of useless textbooks, and finally industrial air filters. The title of this talk is attributed to Mark Twain and is very appropriate.



Editor's note on the photographs. The upper photo shows Dr. Draper talking with some children about his guess as to the very first scientific hypothesis in ancient, primitive history. This has to do with the color of fires seen by primitive clans many tens of thousands of years ago. The bottom photo involves Dr. Draper's laser research at Bell Labs.

DIRECTIONS

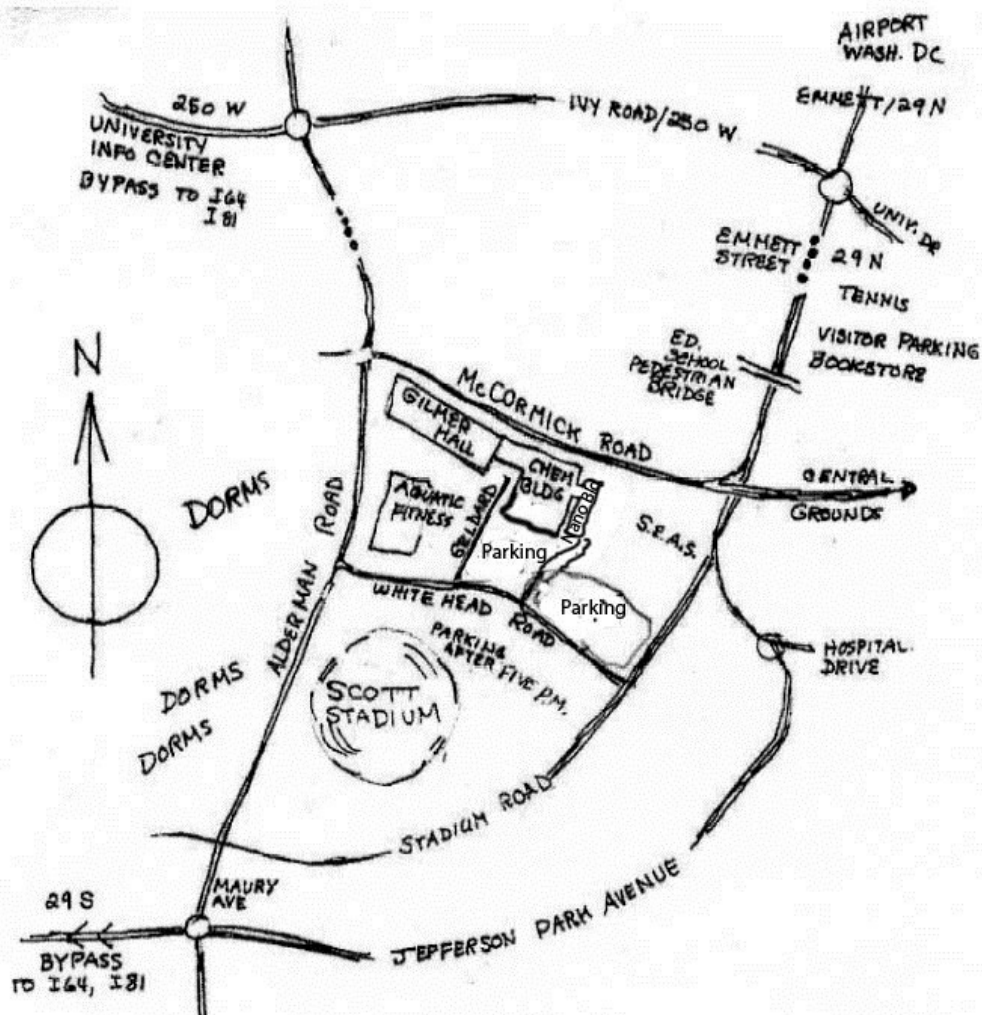
From 29N. Come straight into town past the Cavalier Inn (on your right), pass under two overhead bridges, and then bear right immediately afterwards onto Stadium Rd. Turn right at the stop sign at the top of the hill onto Whitehead Road. Parking is on the right and left.

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 19 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. More information can be found on this website: <http://chem.virginia.edu/undergraduate-studies/undergraduate-research/2013-american-chemical-society-poster-session/>. The deadline for registering a poster is **April 15**. 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.

**VIRGINIA ACADEMY OF SCIENCE
ANNUAL MEETING**

Virginia Tech

May 22-24, 2013



The 91st Annual Meeting of the Academy will be held at Virginia Tech in Blacksburg on May 22-24. Oral presentations will be scheduled on May 23. There will be a Poster Session for all Sections that will be set up and stay up all day Thursday, May 23. To submit an oral presentation or poster, send the title and author(s) to Michael Korn, Chemistry Section Secretary at mrkorn@liberty.edu, (434) 592-5456. Note that the presenting author must be registered for the VAS meeting and at least one author must be a member in good standing of the Academy. Full information about paper submission and about Academy membership can be found on the Academy's website: <http://www.vacadsci.org>.

EXECUTIVE COMMITTEE MEETING

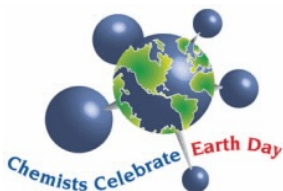
The second Executive Committee Meeting of the year will be held at 6:30 p.m. on **Friday, May 17**. The meeting site, directions, and the meeting agenda will be posted on the Section website - <http://www.virginia.sites.acs.org/>. All members of the section are invited to attend. For questions regarding the agenda and meeting, contact the Chair of the Virginia Section, Dr. Joseph Crockett at (540) 828-5431; jcrocket@bridgewater.edu.

**COME EARLY ON APRIL 19 TO SEE THE
UNDERGRADUATE RESEARCH POSTERS**

AWARDS TO COLLEGE SENIORS

Outstanding senior chemistry majors from colleges and universities in the Virginia Section will be honored at the April 19 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 19 and each will receive a free membership in the ACS, a *Merck Index*, and a certificate of recognition. Chemistry departments must inform Chair Joseph Crockett of their nominees and an ACS membership application form must be completed by each nominee. If you have not submitted the name of your outstanding senior chemistry student, please contact Dr. Joe Crockett at (540) 828-5431; jcrocket@bridgewater.edu.

CHEMISTS CELEBRATE EARTH DAY (CCED)



Earth Day has been observed since 1970; this is the 10th year that the ACS has participated by sponsoring the Chemists Celebrate Earth Day (CCED) program. The theme this year is "Our Earth: Handle with Care!" The Virginia Section will participate with activities on **Saturday, April 13** at the **Fool for Art** program to be held 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. From the Art of Learning Tent and free class sessions to the Celebrate the Earth Tent and fabulous art and craft vendors, there is plenty of fun for all ages! **Fool for Art** is always free and open to the public. The event runs from 10:00 a.m. until 5:00 p.m. on 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. Dr. Kristine Smetana is the coordinator for the chemistry celebrations on April 13. Contact her for more information and to volunteer your help: ksmetana@jtcc.edu; (804) 706-5143. Volunteers are needed on April 13 to help out from 10 a.m. until 5 p.m. General information on CCED can be found at www.acs.org/earthday and on the JTCC **Fool for Art** event at www.jtcc.edu/foolforart/.

THE CHAIR'S CORNER

Last December, the Virginia Section presented awards to a high school chemistry teacher, a middle school science teacher, and an elementary school science teacher. The meeting at John Tyler was a success; unfortunately, the middle school award winner was ill and could not attend. A few weeks ago, I drove to Charlottesville and made the presentation to Mr. Michael Kenney personally in front of one of his science classes.



One thing that we do not get to see at our awards presentations is the response of the teacher's actual students. The middle school students whom I saw that day were extremely excited that their teacher had been recognized. Normally, we see the teacher, his or her family, and a school representative, but not the students who are directly affected by the teacher. This was the first time that I observed the presentation in front of the students, and it was indeed exciting.

All of us should take the time to visit and, if possible, to volunteer at our local schools. Our next generation of chemists is out there. Teachers like Michael Kenney get them excited about chemistry. It is up to the rest of us who are teachers and scientists to uphold and nurture their excitement.

...Joe Crockett, Section Chair for 2013

JUDGES FOR THE VIRGINIA JUNIOR ACADEMY OF SCIENCE

Judges and meeting chairs are needed for the 72nd annual meeting of the Virginia Junior Academy of Science (VJAS), to be held at Virginia Tech on May 22, 2013. About 750 students from grades seven through twelve will present papers and report on original research work. If you would like to contribute to this celebration of science by young persons, please contact Susan Booth, VJAS Director, at susan.science@gmail.com or at (757) 897-3104. Middle School judges are needed in Animal & Human Sciences; Human Behavior; Chemical Science; Ecology & Earth Sciences; Physical Science, Engineering, & Math; and Plant Science & Microbiology. High School judges are needed for Animal Behavior & Genetics; Botany; Chemistry; Engineering; Environmental Science; Math, Statistics & Computer Science; Medicine & Health; Microbiology & Cell Biology; Physics; Psychology; and Zoology. More information on the VJAS meeting can be found at the Virginia Junior Academy of Science website: www.vjas.org.

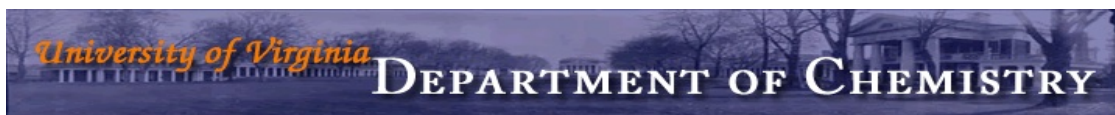
REPORT ON THE FEBRUARY MEETING OF THE VIRGINIA SECTION

On February 8, about thirty persons heard Dr. T. Brent Gunnoe's presentation on the "Development of a Domestic Energy Base: Chemistry in the Center for Catalytic Hydrocarbon Functionalization. Dr. Gunnoe described the Center's efforts to develop appropriate catalysts to convert methane from natural gas into methanol which could be used as a fuel and to synthesize other organic compounds. The meeting was held at Virginia State University in Ettrick. Dr. Todd Koch, Vice chair of the Section, presided. The speaker was introduced by Ms. Stephanie Ellis, a senior chemistry major at VSU and the president of the ACS Student Affiliate Chapter at Virginia State. She has been active in ACS and other science events, including SERMACS-2011, National Chemistry Week, DuPont Girls in Science, the Christmas Angel Tree program, and the CCED activities at the Fool for the Arts festival.



Dr. Brent Gunnoe with his wife and daughter

The Section thanks Dr. Colleen Taylor and the students and faculty at Virginia State for hosting this event. Special thanks to the VSU Chemistry Department for subsidizing a portion of the dinner cost.



CHEMISTRY SEMINARS AT THE UNIVERSITY OF VIRGINIA

April 5 - **Professor Christopher Easley**, Auburn University

April 12 - **Professor Eric Mazur**, Harvard University, "Nonlinear Optics at the Nanoscale"
[this seminar will be held in PHS 203]

April 19 - **Professor Peter Wipf**, University of Pittsburgh, "Better Mitochondria Through Imine Addition Chemistry" (**HECHT LECTURE**) [this seminar will be held in GIL 130]

April 26 - **Professor Richard Brennan**, Duke University, "How Bugs Escape Drugs"

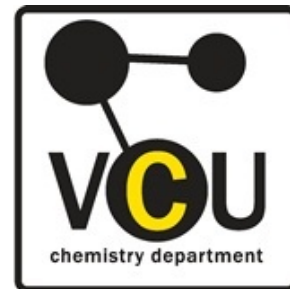
Chemistry colloquia are held at 4:00 p.m. in Room 304 of the Chemistry Building. The complete colloquium schedule is on-line at <http://chem.virginia.edu/events-seminars/>

SEMINARS AT VIRGINIA COMMONWEALTH UNIVERSITY

April 9 - **Dr. Mohammad A. Omary**, University of North Texas

April 11 - **Dr. Adam Hawkrige**, Virginia Commonwealth University
Department of Pharmacotherapy & Outcomes Science

April 25 - **Dr. Scott Miller**, Yale University, "Natural Products, Synthetic Catalysts, Natural Products" (**MARY KAPP LECTURE**)
[held at 5:30 p.m. in the Room 155 of the Life Sciences Building,
1000 West Cary Street, Richmond]



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

REPORT ON THE MARCH MEETING OF THE VIRGINIA SECTION

On March 1, a full house of over 80 persons attended the W. Allan Powell Lectureship at the University of Richmond. Dr. Raymond Dominey introduced the speaker, Dr. Emily A. Carter, the Founding Director of the Andlinger Center for Energy and the Environment at Princeton University, as well as Professor of Mechanical and Aerospace Engineering and Applied and Computational Mathematics. Dr. Griffin spoke on "The Role of Science in Moving the Planet to Green Energy and a Sustainable Future. Dr. Scott Gronert, Chair Elect of the Virginia Section, presented Dr. Carter with an engraved Jefferson Cup, the traditional recognition for persons who speak at Section meetings. Prior to the talk by Dr. Carter, a delicious dinner was served in the Heilman Dining Center. The Powell Lectureship is an annual event that honors Dr. W. Alan Powell, who served as chair of the Department of Chemistry from 1959 through 1982. Dr. Powell passed away on December 21, 2010. The Virginia Section thanks the University of Richmond and the Chemistry Department for their assistance in organizing this meeting and for subsidizing a portion of the meal expenses.



**Dr. Emily A. Carter with
Dr. Raymond Dominey**

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.

...A LOOK BACK...

Past meetings of the Virginia Section:

One Year Ago: April 20, 2012, University of Virginia - **Anne Henriksen**, James Madison University, "Is There Any Chemistry Between You and the Business World?"

Five Years Ago: April 18, 2008, University of Virginia - **Richard Day**, University of Virginia, "Fluorescent Proteins from Marine Invertebrates—New Tools for Studying Protein Dynamics in Living Cells"

Ten Years Ago: April 8, 2003, University of Virginia - **Michael Cann**, University of Scranton, "Pollution Prevention: A Paradigm Addressed Through Green Chemistry"

25 Years Ago: April 22, 1988, University of Virginia - **A. B. Krisciunas**, Argonne National Laboratory, "BTU's—Now You Have 'em, Soon You Mightn't"

50 Years Ago: April 19, 1963, - **Leon Mandell**, "Synthesis of Some Quinolizidine Alkaloids"

Editor's Note: Does anyone know where in Charlottesville the April 16, 1963 meeting was held, or the affiliation of the speaker, Leon Mandell? If so, please let me know: Jim Beck at beckjd1977@comcast.net.

CAN YOU IDENTIFY THESE PERSONS?



The photograph was taken on February 23, 2013 at St. Mary's Whitechapel Episcopal Church in Lancaster, Virginia. The three men were there at a party celebrating the 95th birthday of the lady. She is the widow of a long-time member of the Virginia Section. Her husband served as chair of the Section in 1976 and received the Section's Distinguished Service Award in 1978. He is one of only two persons to receive both the Distinguished Service Award and the Distinguished High School Chemistry Teacher Award. The three gentlemen also served as chairs of the Section (1972, 1978, 1987) and each received the Distinguished Service Award (1979, 1983, 1991).

The "mystery family" shown in the March Bulletin featured Dr. Donald Shillady, his wife Nancy, and their three children and was taken in 1992. Don was chair of the Virginia Section in 1985 and received the Distinguished Service award in 1992. The photo was taken at the Awards Meeting in September, 1992 when he spoke on "Some Adventures in Quantum Chemistry."



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. Suggestions for the Distinguished Service and Industrial awards should be forwarded to Yezdi Pithawalla: (804) 274-4587, yezdi.b.pithawalla@altria.com.

QUESTIONS FROM THE PAST

This question was asked in the March Bulletin: These four persons gave talks at Virginia Section meetings:

- ○ William Hargis - April, 1973 at the College of William and Mary
- ○ Robert Huggett - February, 1989 at the University of Richmond
- ○ Jean Watts - January, 1992 at Randolph-Macon College
- ○ William Matuszeski - January, 2000 at Randolph-Macon College

What was the common thread for their topics? Hint: the name of a body of water was in the title of each of the four presentations. All four talks involved aspects of the **Chesapeake Bay**. William Hargis and Robert Huggett were both from VIMS (the Virginia Institute of Marine Science). Hargis spoke on the "Chesapeake Bay" while Huggett's topic was "Organic Pollutants in the Chesapeake Bay. Jean Watts from the Chesapeake Bay Foundation spoke on "The Value of Wetlands and the Chesapeake Bay." Bill Matuszeski of the U.E. Environmental Protection Agency gave his presentation on "Progress in Cleaning Up the Chesapeake Bay."

A new question: Dr. Sheryl Baldwin resigned recently from her position as co-chair of the Government Relations Committee for the Virginia Section. When did the Section establish the Government Relations Committee and who were the co-chairs when it was founded?

ACS WEBINARS IN APRIL

ACS Webinars™ is a free, weekly online event serving to connect ACS members and scientific professionals with subject matter experts and global thought leaders in chemical sciences, management, and business. Each webinar is 60 minutes in length, comprising a short presentation followed by Q&A with the speaker. The live webinars are held on Thursdays from 2 to 3 p.m. Recordings of the webinars are available online and upcoming events are posted at <http://acswebinars.org>.

Here are some webinars scheduled for the month of April:

April 4 - Chris Mocella, "From Lab Hoods to Front Lines: Chemists at U.S. Customs and Border Protection"

April 8-9 - National Meeting Hybrid Events

April 18 - Mike Chi and Magda Marquet - "From Academia to Entrepreneurship" (Session 3 of 9)

April 25 - Michael Brodowski, "Protect Your IP: A Guide to Newly Implemented Patent Laws"

April 30 - W.M. (Jack) Breazeale - "Local Sections' Nominations and Elections"

WORDS OF WISDOM FOR APRIL:

"CAN'T NEVER DID ANYTHING"

VIRGINIA SECTION
American Chemical Society
2013 Executive Committee

Officers

<p><i>Immediate Past Chair</i></p> <p>Karen Carter AIBiotech LLC 601 Biotech Drive Richmond, VA 23235 (w) (804) 521-7369 kcarter@aiotech.com</p>	<p><i>Chair</i></p> <p>Joseph Crockett Bridgewater College Bridgewater, VA 22812 (w) (540) 828-5431 jcrockett@bridgewater.edu</p>	<p><i>Chair Elect</i></p> <p>Dr. Scott Gronert Department of Chemistry Virginia Commonwealth University Richmond, VA 23284 (w) (804) 828-2753 sgronert@vcu.edu</p>
<p><i>Vice Chair</i></p> <p>Dr. Todd Koch Pfizer Consumer Healthcare 1211 Sherwood Avenue Richmond, VA 23220 (w) (804) 257-2890 todd.koch@pfizer.com</p>	<p><i>Secretary</i></p> <p>Rob Davidson Afton Chemical Corporation 500 Spring Street Richmond, VA 23219-3430 (w) (804) 788-6327 rob.davidson@aftonchemical.com</p>	<p><i>Treasurer</i></p> <p>Stephanie Mabry Afton Chemical 500 Spring Street Richmond, VA 23219 (w) (804) 788-5280 (h) (804) 639-6991 stephanie.mabry@verizon.net Stephanie.Mabry@aftonchemical.com</p>
<p><i>Councilor (2012-14)</i></p> <p>R. Gerald Bass 204 Bishop Lane Lynchburg, VA 24503 (434) 386-3326 robertg.bass@gmail.com</p>	<p><i>Councilor (2013-15)</i></p> <p>Kristine Smetana John Tyler Community College Division of Mathematics & Science 13101 Jefferson Davis Highway Chester, VA 23831 (w) (804) 706-5143 (h) (804) 359-2262 (cell) (804) 814-5032 ksmetana@jtcc.edu</p>	<p><i>Councilor (2011-13)</i></p> <p>Ann M. Sullivan School of Mathematics and Science J. Sargeant Reynolds Comm. College PO Box 85622 Richmond, VA 23285-5622 (w) (804) 523-5777 (h) (804) 862-4260 (cell) (804) 943-2591 (fax) (804) 225-2437 asullivan@reynolds.edu</p>
<p><i>Alternate Councilor (2012-14)</i></p>	<p><i>Alternate Councilor (2013-15)</i></p> <p>Will H. Lewis, Jr. 5919 Matoaca Road Petersburg, VA 23803-1545 (h) (804) 590-3083 (cell) (804) 586-5492 WLewis8669@aol.com</p>	<p><i>Alternate Councilor (2011-13)</i></p> <p>Janet Asper 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>
<p><i>Trustee (2012-14)</i></p> <p>James N. Demas Department of Chemistry University of Virginia PO Box 400319 Charlottesville, VA 22904-4319 (w) (434) 924-3343 (h) (434) 971-2568 (fax) (434) 924-3710 demas@virginia.edu</p>	<p><i>Trustee (2013-15)</i></p> <p>William Welstead 10471 Jordan Parkway Hopewell, VA 23860 (h) (804) 452-2549 wmwelstead@aol.com</p>	<p><i>Trustee (2011-13)</i></p> <p>Philip P. Burks 3456 Rivanna Drive Richmond, VA 23235 (h) (804) 330-2411 ppburks@verizon.net</p>

Committee Chairs

<p>Awards</p> <p>Education</p> <p>Eileen Downey 1806 Upperbury Drive Midlothian, VA 23114 eileendowney@gmail.com</p> <p>Service & Industrial</p> <p>Yezdi B. Pithawalla Altria RD&E 4203 Commerce Road Gate C, Door 17 Richmond, VA 23284 (w) (804) 335-2301 (h) (804) 677-3571 (fax) (804) 274-2755 yezdi.b.pithawalla@altria.com</p>	<p>Industrial Relations</p> <p>Rob Davidson Afton Chemical Corporation 500 Spring Street Richmond, VA 23219-3430 (w) (804) 788-6327 (h) (804) 794-2519 (fax) (804) 788-6242 rob.davidson@aftonchemical.com</p> <p>Robert O. (Dutch) Waldbauer 1109 Saint Davids Lane Waynesboro, VA 22980-3430 (w) (540) 949-2109 (h) (540) 255-3928 (fax) (540) 949-2949 waldbaro@mac.com</p>	<p>Publications</p> <p>Editor</p> <p>James D. Beck 1977 Vesonder Road Petersburg, Va 23805 (h) (804) 733-5286 beckjd1977@comcast.net</p> <p>Publisher</p> <p>Will H. Lewis, Jr. 5919 Matoaca Road Petersburg, VA 23803-1545 (h) (804) 590-3083 (cell) (804) 586-5492 WLewis8669@aol.com</p>
<p>Chemical Education</p> <p>Ryan Warren 6001 Grove Ave Richmond, VA 23226 (w) (804) 288-2804 (h) (804) 559-5976 (fax) (804) 355-2407 warrencr@vcu.edu</p>	<p>Chemistry Olympiad</p> <p>Ann M. Sullivan School of Mathematics and Science, DTC J. Sargeant Reynolds Community College PO Box 85622 Richmond, VA 23285-5622 (w) (804) 523-5777 (h) (804) 862-4260 (cell) (804) 943-2591 (fax) (804) 225-2437 asullivan@reynolds.edu</p>	<p>Project SEED</p> <p>Dorothy N. Eseonu Department of Natural Science Virginia Union University Richmond, VA 23220 (w) (804) 257-5615 (h) (804) 379-5411 (fax) (804) 354-5928 dneseonu@vuu.edu deseonu@yahoo.com</p>
<p>Media / Public Relations</p> <p>Brandi Quinlin Boehringer Ingelheim Chemicals mrsquinlin@gmail.com</p>	<p>Government Relations</p>	<p>Entertainment</p> <p>Kenneth Chapman Cardinal Workforce Developers 16080 Countyline Church Rd. Ruther Glen, VA 22546 (804) 448-4852 kmc97@aol.com</p>
<p>Membership/Hospitality</p> <p>Will H. Lewis, Jr. 5919 Matoaca Road Petersburg, VA 23803-1545 (h) (804) 590-3083 (cell) (804) 586-5492 WLewis8669@aol.com</p>	<p>Women Chemists (WCC)</p> <p>Stephanie Mabry Afton Chemical 500 Spring Street Richmond, VA 23219 (w) (804) 788-5280 (h) (804) 639-6991 stephanie.mabry@verizon.net Stephanie.Mabry@aftonchemical.com</p>	<p>Younger Chemists (YCC)</p>

<p>Community Activities: <i>National Chemistry Week & Chemists Celebrate Earth Day</i></p> <p>Kristine Smetana John Tyler Community College Division of Mathematics & Science 13101 Jefferson Davis Highway Chester, VA 23831 (w) (804) 706-5143 (h) (804) 359-2262 (cell) (804) 814-5032 ksmetana@jtcc.edu</p>	<p>Nominations</p> <p>Karen Carter AlBiotech LLC 601 Biotech Drive Richmond, VA 23235 (w) (804) 521-7369 kcarter@albiotech.com</p>	<p>Safety</p> <p>Joseph Crockett Bridgewater College Bridgewater, VA 22812 (w) (540) 828-5431 (fax) (540) 828-5661 jrockett@bridgewater.edu</p>
<p>Student Affiliates</p> <p>Thomas C. Devore Department of Chemistry & Biochemistry MSC 4501 James Madison University Harrisonburg, VA 22807 (w) (540)568-6672 (h) (540)433-8086 (fax) (540) 568-7938 devoretc@jmu.edu</p>	<p>Webmaster</p> <p>Ann M. Sullivan School of Mathematics and Science Downtown Campus J. Sargeant Reynolds Community Coll. PO Box 85622 Richmond, VA 23285-5622 (w) (804) 523-5777 (h) (804) 862-4260 (cell) (804) 943-2591 (fax) (804) 225-2437 asullivan@reynolds.edu</p>	

Members-at-Large

<p>Stuart Clough Department of Chemistry University of Richmond Richmond, VA 23173 (w) (804) 289-8247 (h) (804) 897-6847 (fax) (804) 289-1897 sclough@richmond.edu</p>	<p>Roy F. Gratz Department of Chemistry University of Mary Washington Fredricksburg, VA 22401 (w) (540) 654-1412 (h) (540) 373-6155 (fax) (540) 654-1081 rgratz@umw.edu</p>	<p>Charles E. (Trey) Gregory III Boehringer Ingelheim Chemicals 2820 N. Normandy Drive Petersburg, VA 23805 (w) (804) 504-8840 (h) (804) 447-0336 (cell) (804) 873-2307 (fax) (804) 504-8871 Trey.Gregory@boehringer- ingelheim.com</p>
<p>David B. Hagan Science Museum of Virginia 2500 West Broad Street Richmond, VA 23220 (w) (804) 864-1412 (h) (804) 363-0634 (fax) (804) 864-1560 dhagan@smv.org</p>	<p>Phyllis James</p>	<p>Tara L. S. Kishbaugh Department of Chemistry Eastern Mennonite University 1200 Park Road Harrisonburg, VA 22802 (w) (540) 432-4665 (fax) (540) 432-4488 tara.kishbaugh@emu.edu</p>
<p>Gerald P. Lopez Pfizer Consumer Healthcare P. O. Box 26609 Richmond, VA 23261 (w) (804) 257-2492 (h) (804) 269-5948 (fax) (804) 257-2449 gerald.lopez@pfizer.com</p>	<p>Maurice H. Maxwell 1700 Briery Road Farmville, VA 23901 (h) (434) 392-5493 max_reb@hotmail.com</p>	<p>Kevin P. C. Minbirole James Madison University MSC 4501 Harrisonburg, VA 22807 (540) 879-3108 minbiokp@jmu.edu</p>

<p>Brian Moores 13033 Little Bridge Drive Doswell, VA 23047-1705 (h) (804) 227-3149 (cell) (804) 519-4630 mooresb@earthlink.net</p>	<p>William H. Myers Department of Chemistry University of Richmond Richmond, VA 23173 (w) (804) 289-8249 (fax) (804) 289-8482 wmyers@richmond.edu</p>	<p>Brad Norwood TASC, Inc. 8302 Shady Ridge Lane Mechanicsville, VA 23116 (w) (804) 994-9096 bknorwood@yahoo.com</p>
<p>William J. Rademaker 2710 Arrandell Road Midlothian, VA 23113 (h) (804) 794-3752 wrad@verizon.net</p>	<p>G. Wayne Rose Pfizer Consumer Healthcare PO Box 26609 Richmond, VA 23261-6609 (w) (804) 652-6564 (h) (804) 241-3162 (fax) (804) 652-6599 wayne.rose@pfizer.com</p>	<p>Donald Shillady Department of Chemistry Virginia Commonwealth University Box 842006 Richmond, VA 23284-2006 (w) (804) 828-7508 (h) (804) 550-4704 (fax) (804) 550-4704 quantummechanicsllc@msn.com</p>
<p>Al Sneden Department of Chemistry Virginia Commonwealth University Box 842006 Richmond, VA 23284-2006 (w) (804) 827-0857 (h) (804) 784-4361 (fax) (804) 828-2171 atsneden@vcu.edu</p>	<p>Colleen M. Taylor Department of Chemistry and Physics Virginia State University Petersburg, VA 23806 (w) (804) 524-5481 cmtaylor@vsu.edu</p>	<p>Larry H. White 4314 Sky Road Harrisonburg, VA 22802 (h) (540) 833-5270 lwhite@bridgewater.edu</p>

ACS MEMBERS RECOGNIZED

Dr. M. Samy El-Shall, Professor of Chemistry and Chemical Engineering at Virginia Commonwealth University, has been named a Fellow of the American Physical Society. In 2009, Dr. El-Shall received the Distinguished Research Award from the Virginia Section. On October 21, 2011, he was the keynote speaker at the SERMACS reception and dinner, held at the Science Museum of Virginia. His topic was "Chemistry Makes Strong International Bonds."



Dr. John T. Yates, Jr., Professor of Chemistry at the University of Virginia and Edgar G. Shannon Fellow, has been named the Gerhard Ertl Lecture Award winner for 2013. The award, given by the Fritz-Haber-Institut der Max-Planck-Gesellschaft in Berlin, is named after Ertl, a Nobel Prize-winning surface chemistry professor emeritus at the Fritz-Haber-Institut. Dr. Yates is a physical and surface chemist and a member of the National Academy of Sciences. The Ertl Award is conferred annually on eminent scientists in the field of surface science and heterogeneous catalysis.

Dr. Harry B. Gray, Arnold O. Beckman Professor of Chemistry and Founding Director of the Beckman Institute at the California Institute of Technology, will receive the Othmer Gold Medal from the Chemical Heritage Foundation. Established in 1997, the Othmer Gold Medal honors outstanding individuals who have made multifaceted contributions to our chemical and scientific heritage. Dr. Gray is being honored for his revolutionary work in bioorganic chemistry and his extraordinary contributions to public understanding. He was the speaker for the 2011 W. Allan Powell Lectureship at the University of Richmond. He spoke on "The Solar Army" at the March 18, 2011 meeting of the Virginia Section.





Dr. Brooks Pate, Professor of Chemistry at the University of Virginia, has been named to receive the Bomem-Michelson Award from the Coblenz Society/ABB. The award is dedicated to the memory of Professor A. A. Michelson, developer of the Michelson interferometer. ABB sponsors the award to honor scientists who have advanced the technique(s) of vibrational, molecular, Raman, or electronic spectroscopy. Contributions may be theoretical, experimental, or both. Dr. Pate's research group studies the dynamics of molecules with significant amounts of vibrational energy. They have developed a new type of molecular spectroscopy called dynamic rotational spectroscopy to study isomerization reactions.

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Career Fairs and Workshops – Onsite and Virtual - Career fairs give you the opportunity to interview with prospective employers and network as well as gain essential knowledge and skills to attain your career goals.

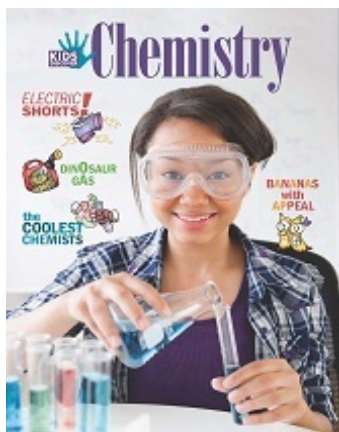
ACS Career Pathways Workshops - ACS Career Pathways workshops, available at ACS Career Fairs, help you assess your own talents, personality and goals in order to see which career pathway is the best fit for you.

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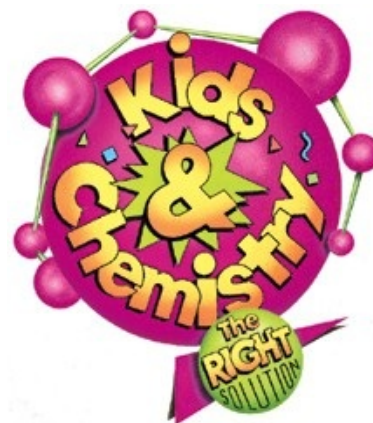
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Chair - Dr. Joseph Crockett (540) 828-5431



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