



MARCH MEETING NOTICE

**University of Richmond
Richmond, Virginia**

POWELL LECTURESHIP

Friday, March 18, 2011

DINNER: **6:00 p.m.**
Richmond Room
Heilman Dining Center

PROGRAM: **7:30 p.m.**
Auditorium
Gottwald Center for the
Sciences

MENU: Caesar Salad, Prime Rib Au Jus, Grilled Chicken, Garlic Mashed Potatoes,
Green Beans with Onions, Rolls, Cheesecake with Fruit Topping, Coffee
and Iced Tea
Vegetarian Alternative – Grilled Vegetable Risotto (please specify
Vegetarian when making your reservation)

PRICE: \$15.00 (no reductions)

**DINNER
RESERVATIONS:** Please make reservations for the Dinner by **NOON on Thursday,
March 10** by calling the Chemistry Department at the University of
Richmond, **(804) 289-8242** or by e-mail to **amallory@richmond.edu**.

NOTE: Space is limited for the dinner—make your reservation early!

HOST: Dr. Lisa Gentile, (804) 484-1578; **lgentile @ richmond.edu**

SPEAKER: **Dr. Harry B. Gray, California Institute of Technology**

TOPIC: **“The Solar Army”**

MARCH 2011

S	M	T	W	T	F	S
		1	2	3	4	5
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				<i>reservations</i>		
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				<i>meeting</i>		
20	21	22	23	24	25	26
27	28	29	30	31		

The W. Allan Powell Lectureship

Dr. Harry B. Gray

Harry Gray is the Arnold O. Beckman Professor of Chemistry and the Founding Director of the Beckman Institute at the California Institute of Technology. After graduate work at Northwestern University and postdoctoral research at the University of Copenhagen, he joined the chemistry faculty at Columbia University, where in the early 1960s he developed ligand field theory to interpret the electronic structures and substitution reactions of metal complexes. After moving to Caltech in 1966, he began work in biological inorganic chemistry and solar photochemistry, including the development of inorganic systems for energy storage. Working with Ru-modified proteins in the early 1980s, he demonstrated that electrons can tunnel rapidly over long molecular distances through folded polypeptide structures; and, in the years following, he and J. R. Winkler developed laser flash-quench methods that opened the way for experimental investigations that have led to a deeper understanding of the mechanisms of electron flow through proteins that function in respiration and photosynthesis.



Gray has published over 750 research papers and 17 books. He has received the National Medal of Science from President Ronald Reagan (1986); the Pauling Medal (1986); the Linderstrøm-Lang Prize (1992); the Gibbs Medal (1992); the Harvey Prize (2000); the National Academy of Sciences Award in Chemical Sciences (2003); the Benjamin Franklin Medal in Chemistry (2004); the Wolf Prize in Chemistry (2004); the City of Florence Prize in Molecular Sciences (2006); the Welch Award in Chemistry (2009); six national awards from the American Chemical Society, including the Priestley Medal (1991); and 16 honorary doctorates, including ones from Pennsylvania, Chicago, Columbia, Florence, Copenhagen, and Edinburgh. He is a member of the National Academy of Sciences; the American Academy of Arts and Sciences; the American Philosophical Society; a foreign member of the Royal Danish Academy of Sciences and Letters; the Royal Swedish Academy of Sciences; the Royal Society of Great Britain; and the Accademia Nazionale dei Lincei. He has been a member of the Board of Directors of the Arnold and Mabel Beckman Foundation since 1994.

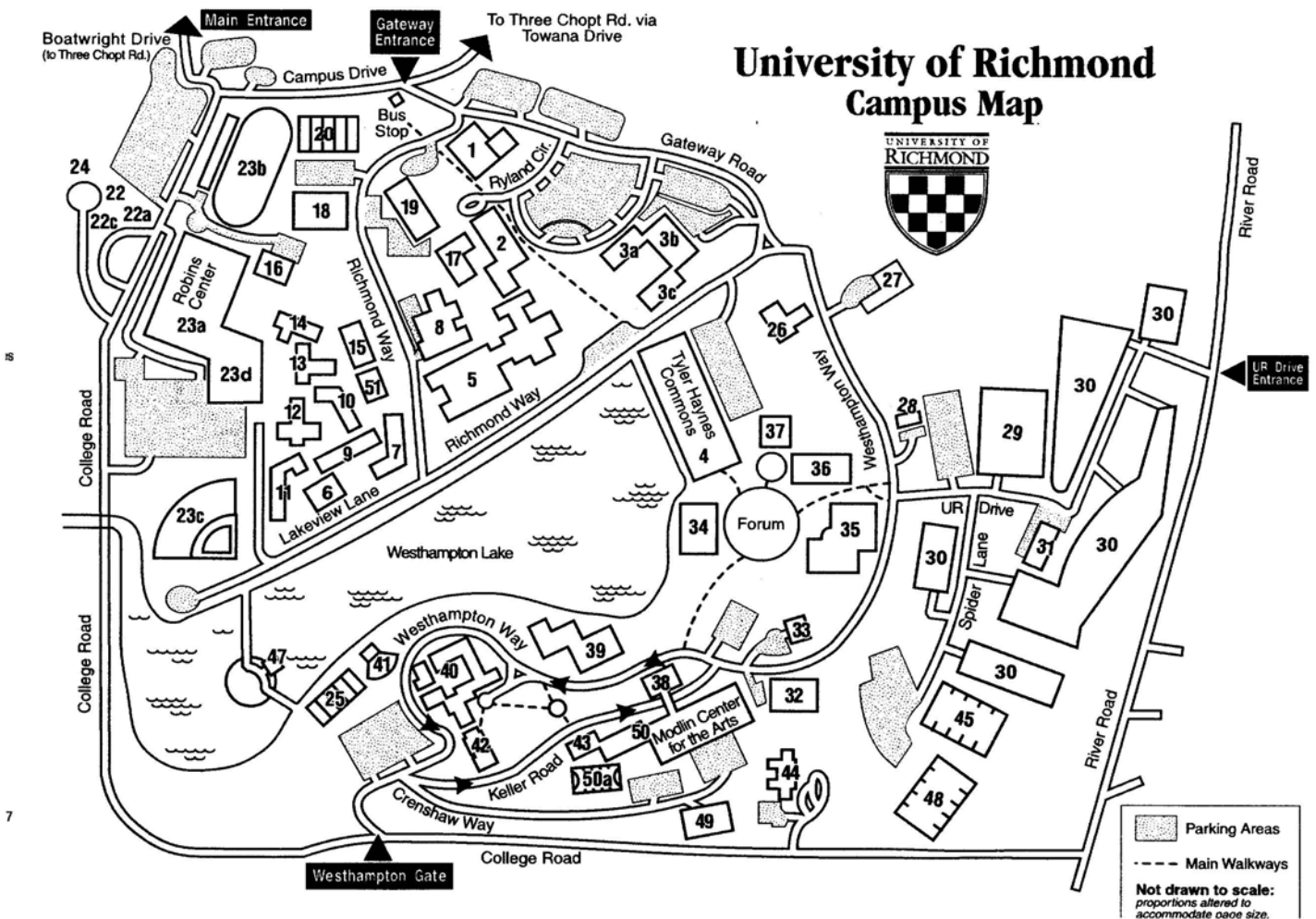
“The Solar Army”

The sun is a boundless source of clean energy, but it goes down every night. We and many others are trying to design solar-driven molecular machines that could be used on a global scale to store solar energy by splitting water into its elemental components, hydrogen and oxygen. Hydrogen is a clean fuel that could be used directly or combined with carbon dioxide to produce methanol, a liquid fuel. We are working on rugged light absorbers and catalysts made from Earth abundant materials that have the potential to split water as efficiently as natural photosynthesis. We have recruited hundreds of students to join a Solar Army whose mission is the discovery of brand new metal-oxide catalysts for our solar water splitters.

DIRECTIONS

From I-64, take the Glenside Drive South exit (Exit 183A) and go about 1.5 miles to the 4th traffic light. Turn left on to Three Chopt Road and go about 0.8 mile. Follow the signs to the University of Richmond, turning right on to Boatwright Drive, then left on to Campus Drive. Turn right through the main gate on to Gateway Road. Continue on Gateway Road to the traffic island. Turn left on to Westhampton Way. Continue on Westhampton Way to the top of the hill. Parking is available in the three lots at the top of the hill. The Powell Reception and Dinner will be in the Richmond Room (downstairs) of the Heilman Dining Center (# 34 on the map below) which is across from the Gottwald Science Center (# 35). The program will be in the auditorium of the Gottwald Science Center (# 35). Note—there is no parking available in front of the Science Center. See the map below.

U OF R CAMPUS MAP



34 - HEILMAN DINING CENTER 35 - GOTTWALD SCIENCE CENTER

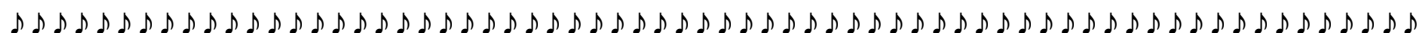
P = PARKING

***** VIRGINIA SECTION NEWS *******FUTURE MEETINGS**

DATE: April 8, 2011 (note change of date)
LOCATION: University of Virginia
Charlottesville, VA
HOST: Dr. James Demas
PHONE: (434) 924-3343
E-MAIL: demas@virginia.edu
SPEAKER: Dr. William Mattson
TOPIC: "Creative Problem Solving in Research"

**STUDENT POSTER SESSION****VIRGINIA ACADEMY OF SCIENCE
ANNUAL MEETING****University of Richmond
May 25-27, 2011**

The 89th Annual meeting of the Academy will be held at the University of Richmond in Richmond on May 25-27. Oral presentations will be scheduled on May 26. There will be a Poster Session for all Sections that will be set up and stay up all day Thursday, May 26. Information on the Chemistry Program can be obtained from J. Ellis Bell, 28 Westhampton Way, University of Richmond, Richmond, VA 23173 (804) 289-8244; jbelle@richmond.edu or from Dr. Thomas C. DeVore, Department of Chemistry and Biochemistry, MSC 4501, James Madison University, Harrisonburg, VA 22807; (540) 568-6672; devoretc@jmu.edu. Full information about the annual meeting and about Academy membership can be found on the Academy's website: www.vacadsci.org.



WORDS OF WISDOM FOR MARCH: "Of All The Forces
That Make For A Better World, None Is So Powerful As Hope"

THE CHAIR'S CORNER



The first Executive Committee meeting of 2011 was held on January 22 at the Science Museum in Richmond. Thanks to everyone who got up early on a Saturday and attended. Copies of reports and minutes can be found on the Section website at <http://virginia.sites.acs.org/executivemeetings.htm> and I encourage you to review them.

One notable action was the naming of the annual outstanding high school teaching award after the late Frank Kizer, a past chair of the Virginia Section. This teaching award is presented at the December meeting and is sponsored by Boehringer Ingelheim. The committee approved a contribution to the Powell Chemistry Lectureship at the University of Richmond in honor of Dr. W. Allan Powell. We will be presenting this to the University of Richmond at the March 18 meeting. Support was also given to the Virginia Association of Science Teachers for their Professional Development Institute.

My goal as chair in 2011 will be increasing volunteer involvement with the Section's activities. A task force has been formed to determine ways to increase attendance at the Section's meetings. This group will re-examine previous ideas, generate new ideas, and present suggestions for the 2012 meeting schedule. Ask yourself, if we started with a blank slate, how would you want our meetings to look? Please forward any ideas or suggestions for this group to Karen Carter at kcarter@aibiotech.com.

A second task force will focus on ways to best manage the Section's website and newsletter. Our publications are currently handled by individual volunteers and not by paid professionals. Ideas for reaching members electronically, how to get more involvement with the website, the use of social media, and improving current practices will all be considered. Please forward your ideas and comments to Jim Beck at beckjd1977@comcast.net.

I have been asked who makes up the Executive Committee. The short answer is anyone who wants to be on it. The long answer is that the Executive Committee consists of the Section's officers, councilors, trustees, committee chairs, and members-at-large. Any member of the Virginia Section can become a member-at-large by attending Executive Committee meetings and expressing interest.

...Stephanie Mabry, Virginia Section Chair
Stephanie.Mabry@verizon.net

CHEMISTS CELEBRATE EARTH DAY (CCED)

April 22 is Earth Day 2011. The ACS will be participating in Earth Day through the Chemists Celebrate Earth Day (CCED) program. This will be the eighth year for CCED. The theme this International Year of Chemistry is "Energy". The Virginia Section will participate with a celebration at the Midlothian campus of John Tyler Community College, an illustrated poem contest, and a competition for student affiliate chapters. Dr. Kristine Smetana will coordinate the CCED program. Contact her for more information and to volunteer your support and assistance: kismetana@jtcc.edu. General information on CCED can be found at www.acs.org/earthday.



2011 CHEMISTRY OLYMPIAD

The Virginia Section will host the 2011 Chemistry Olympiad for all high school chemistry teachers and students who are interested in participating. The Local Section competition will involve first and second year chemistry examinations given between February 28 and March 28. Students who do well in the local competition will be nominated to take the national examination on April 16 at J. Sargeant Reynolds Community College in Richmond and to compete for 20 positions in the study camp at the U.S. Air Force Academy in Colorado (June, 2011). The five member International Chemistry Olympiad (IChO) team will be chosen from these 20 students and will compete in the IChO, to be held in Akara, Turkey, July 9-18, 2011. The United States team won two gold, one silver, and one bronze medal in the 2010 International Chemistry Olympiad, held in Tokyo, Japan. For more information and the application forms, either hard copy or on-line, go to the Virginia Section website <http://www.virginia.sites.acs.org> and click on "ACTIVITIES". Dr. Ann Sullivan is the coordinator for the Chemistry Olympiad in the Virginia Section; she can be reached at asullivan@reynolds.edu.



SEMINARS AT THE UNIVERSITY OF VIRGINIA

- March 18 - **Professor Joe Lakowicz**, University of Maryland, "Principles and Applications of Fluorescence with Plasmonic Nanostructures"
- March 25 - **Professor David Nesbitt**, University of Colorado, "From Hydrocarbon Combustion Radicals to Gas-Liquid Interfacial Collision Dynamics: Insights from Quantum State-Resolved Studies"
- April 1 - **Dr. Cherie V. Miller**, U. S. Geological Survey, "Monitoring and Modeling Techniques to Evaluate Chemistry in Streams with Focus on Continuous Water Quality that Provide Insights into Urban Stream Processes on Short Temporal Scales" (**JEFFERSON LECTURE**)
- April 8 - **Professor Karen Goldberg**, University of Washington, "Reactions of Late Transition Metal Alkyl and Hydride Complexes with Molecular Oxygen"
- April 15 - **Professor Steve Benkovic**, Pennsylvania State University, "The Purinosome, Biochemistry in the Cell" (**HECHT LECTURE**)
- April 29 - **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

March 10 - **Tyler McQuade**, Florida State University

March 22 - **Tong Ren**, Purdue University

March 24 - **Dr. Lisa Holland**, West Virginia University

April 5 - **Laura Shirtcliff**, Oklahoma State University

April 14 - **Felicia Etzkorn**, Virginia Tech

April 21 - **Professor Daniel Nocera**, Massachusetts Institute of Technology (**Mary Kapp Lecture**)

April 28 - **John C. Poutsma**, College of William & Mary

May 3 - **Dr. Adam Matzger**, University of Michigan

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

ASSISTANCE NEEDED WITH SECTION COMMUNICATIONS

The Virginia Section provides information to its members through a variety of means, including the Section newsletter (the Bulletin), the Section website (<http://www.sites.virginia.acs.org/>), and e-mail messages. Assistance is needed in providing these and other types of communication services. Please volunteer to help out a few hours a month. We can use help in gathering information, writing articles, editing, proofreading, website development and maintenance, electronic mail, and social and professional networking. Please contact us if you are willing to assist the Section in these important activities: James Beck, 1977 Vesonder Road, Petersburg, VA 23805; (804) 733-5286; beckjd1977@comcast.net.

JUDGES FOR THE VIRGINIA JUNIOR ACADEMY OF SCIENCE

Judges and meeting chairs are needed for the 70th annual meeting of the Virginia Junior Academy of Science (VJAS), to be held at the University of Richmond on May 25, 2011. 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 susanscience@msn.com or at (757) 874-3349. Judges are needed in Agriculture & Animal Science, Animal Behavior, Botany, Chemistry, Computer Science, Consumer Science, Earth & Space Science, Engineering, Environmental Science, Genetics & Cellular Biology, Mathematics, Medicine & Health, Microbiology, Physical Science, Physics, Psychology, Statistics, and Zoology. General information on the VJAS meeting can be found at the Virginia Junior Academy of Science website: www.vjas.org.

STUDENT POSTER SESSION

The Virginia Section will hold its annual poster session at the **Friday, April 8** meeting at the University of Virginia in Charlottesville. The emphasis is on **student research**, especially work done by undergraduates. If you have a student who wishes to present a poster, please contact Dr. James Demas at demas@virginia.edu or call (434) 924-3343.

CHEMISTRY AT THE UNIVERSITY OF RICHMOND

The Chemistry Department at the University of Richmond is located in the Gottwald Center for the Sciences along with the Departments of Biology and Physics. Offering both the B.S. and B.A. degrees in Chemistry and Biochemistry/Molecular Biology, the department provides excellent preparation for work or professional studies in chemistry, biochemistry, the health sciences, and chemical engineering, as well as for teaching or for legal careers. The department meets certification requirements by the American Chemical Society for the B.S. in Chemistry and in Chemistry/Biochemistry.

Our students receive a strong background in chemistry in an atmosphere of activity and support from an able and enthusiastic faculty. Class sizes are never greater than 40 and upper level classes and teaching laboratory sections generally have less than 20. Students enjoy the use of a wide variety of modern instrumentation both in their teaching laboratories and in research experiences. Many of our students present the results of their research work to the scientific community both by presentation at meetings on and off campus and in publications. They have the opportunity to grow and learn in an exciting and supportive setting, and when their undergraduate days are over, they find that they are well prepared to pursue their dreams.

The chemistry major at the University of Richmond provides a strong basic background in the major sub-disciplines of chemistry (analytical, inorganic, organic, physical and biochemistry). Richmond graduates are ready to enter the best chemistry graduate programs in the country, to enter the work force as chemists in industry and government, to proceed into careers as secondary school teachers, or to develop careers in sales and marketing for technical industry. The major also provides an excellent background for studies in medicine, the allied health professions, and law. The number of students graduating with a major in chemistry has been between 12 and 20 for the past few years. The majority of our students participate in research sometime during their program. About half of recent graduating chemistry majors entered graduate programs in chemistry or related fields.



A \$35 million renovation and expansion of Gottwald Center for the Sciences was completed in 2005. New space (approximately 28,000 sq. ft.) was added to the south and west sides of the building to provide faculty offices and research labs, and the original space (162,000 sq. ft.) was renovated to include the addition of cutting-edge technology and space for scientific equipment. Our facility includes a new atrium, new and renovated research laboratories, and an entrance more closely aligned with the Collegiate Gothic architecture of other campus buildings. Flexibility to add future teaching and research technologies was designed into the project. Upgrading Gottwald was part of the University's \$50 million plan to improve science facilities and programs over this decade and to place Richmond among the first-choice colleges of America's top high school science students. Over this decade, the University has added up to 18 new faculty positions and placed greater emphasis on interdisciplinary studies and innovative science classes for non-majors.

CORRECTION ON DR. ALLEN POWELL

The "In Memoriam" article in the February issue of the Bulletin had an incorrect date for Dr. W. Allan Powell's retirement from the University of Richmond. Dr. Powell retired in 1986.

QUESTIONS FROM THE PAST

This question was asked in the February Bulletin: The “Mystery Person” shown in the January Bulletin was Dr. Orville L. Chapman who presented the 2001 W. Allan Powell Lectureship at the University of Richmond. That was not the first time that he addressed the Virginia Section. **When did Dr. Chapman talk to the Section on the topic “Sex Pheromone Action: Chemical Language”?** Dr. Chapman made that presentation at the College of William & Mary on April 22, 1972.

A new question: Dr. Joseph Crockett, Professor of Chemistry and Department Chair at Bridgewater College, is now serving as Vice Chair of the Virginia Section. He held the position of Chair for part of 1990 and for all of 1991. But he was not the first Crockett to serve as Chair of the Virginia Section. **Who was the “other” Crockett and when was he or she the Section Chair?**

ELECTRONIC DELIVERY OF BULLETIN

The Bulletin is available online at the Virginia Section website: <http://www.virginia.sites.acs.org/>. Section members for whom we have a correct e-mail address will receive e-mail notification when the current issue is available for viewing. Be sure that your e-mail address is up-to-date and that any spam filter on your system will not block e-mail from **beckjd1977@comcast.net**. If you prefer to receive paper copies, please return the form below or send your current address by e-mail to **beckjd1977@comcast.net**.

I would like to receive paper copies of the Bulletin via the U.S. Postal Service:

Name _____

Street Address _____

City, State, Zip Code _____

Send this form to James Beck, 1977 Vesonder Road, Petersburg, VA 23805-2933

CAN YOU IDENTIFY THIS PERSON?



The photo is from 2002 when the subject received the Distinguished Middle School Science Teacher Award from the Virginia Section. At the time she was teaching physical science at Swift Creek Middle School in Chesterfield County. A graduate of Virginia Commonwealth University, she began her teaching career at Clover Hill High School in 1976 and transferred to Swift Creek Middle School in 1979.

The “mystery person” in the February issue was Mr. Franklin D. Kizer, who was shown at the Virginia Capitol with Governor Lindsay Almond.



VIRGINIA SECTION
American Chemical Society
2011 Executive Committee

Officers

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Committee Chairs

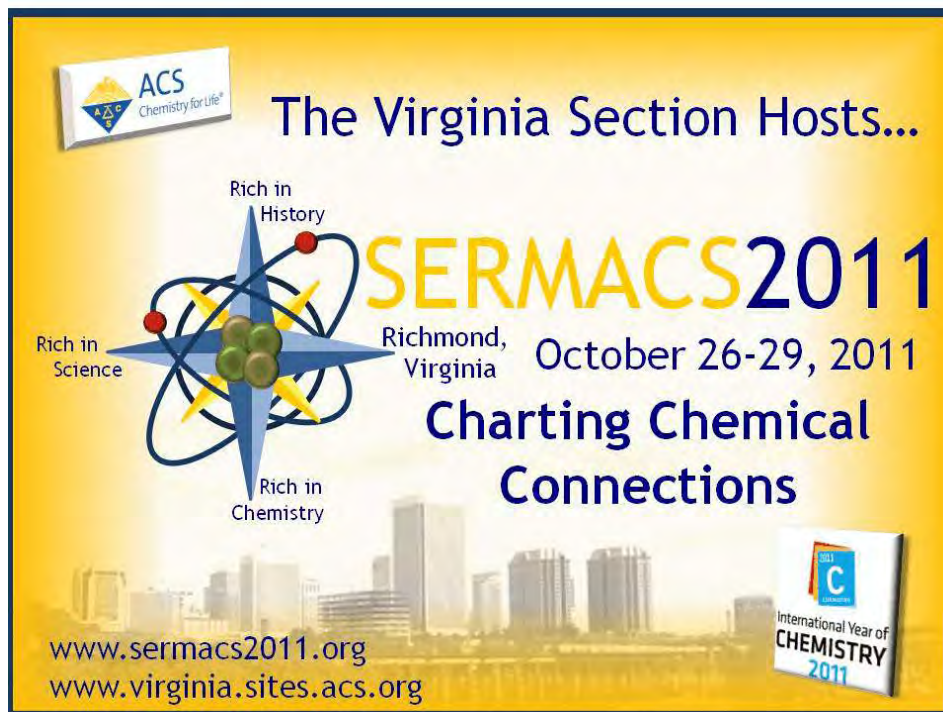
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SERMACS2011 - Charting Chemical Connections

A promotional graphic for SERMACS2011. The background is yellow with a faint city skyline. In the top left is the ACS logo with the tagline 'Chemistry for Life'. The main text reads 'The Virginia Section Hosts... SERMACS2011' in large blue and yellow letters. Below this, it says 'Richmond, Virginia October 26-29, 2011' and 'Charting Chemical Connections'. A central graphic shows a stylized atom with a blue nucleus and yellow and red electrons, surrounded by the phrases 'Rich in History', 'Rich in Science', and 'Rich in Chemistry'. In the bottom left are the websites 'www.sermacs2011.org' and 'www.virginia.sites.acs.org'. In the bottom right is a small graphic for the 'International Year of CHEMISTRY 2011'.

The Virginia Section of the American Chemical Society (ACS) will host the 63rd Southeastern Regional Meeting of the ACS (SERMACS 2011) during October 26-29, 2011. The theme of the meeting is "Charting Connections in Chemistry". The Omni Hotel in the historic Shockoe Slip area of Richmond will be the site for housing and meetings; rooms can now be reserved at discounted rates. The Local Organizing Committee for SERMACS 2011 has members from the Virginia Local Section but more volunteers are needed to help with this meeting. Some of the areas where help is needed include: Website Maintenance, Registration, Hospitality, and Volunteer Coordination. Under the Programming subcommittees volunteers are needed for Local Arrangements and AV, Women's Committee, Younger Chemists Committee, Educational Activities, Awards and Diversity, Employment/Career Workshop, Social/Non-technical, Workshop Coordination, Tour Coordination, Local Events Coordination, and Symposia Coordination. Please contact General Chair Joe Pompano: joe.pompano@boehringer-ingenelheim.com or Program Chair Ann Sullivan: asullivan@jsr.vccs.edu for more information about submitting a symposium or volunteering. There will be a Vendor Exposition; contact Mark Mabry at SERMACS2011exhibits@gmail.com for information on vendor booths. General information on SERMACS 2011 can be found on the SERMACS website: <http://www.sermacs2011.org>.

"Rich in History, Rich in Science, Rich in Chemistry...Richmond, Virginia"

HISTORY OF THE VIRGINIA SECTION - 1994

A portion of the draft of the 1994 portion of the history of the Section was published in the February issue of the **Bulletin**. Here is a continuation; the final segment will be included in the April issue. Please send any comments or corrections to James Beck at (804) 733-5286, beckjd1977@comcast.net.

1994

Average attendance at the monthly meetings was 66. The February meeting at the University of Richmond attracted 165 persons to hear Nobel Laureate Herbert C. Brown; over 90 attended the September Awards Meeting, more than 140 were at Harrisonburg High School in October, and 72 persons enjoyed the December meeting at Burnley Vineyards. The October meeting at Harrisonburg High School may have been the first time that the Section held a meeting at a high school.

A **Chemistry Demonstration** program for high school students was held in conjunction with the February meeting at the University of Richmond. Bill Rademaker, Chair of the Section's Chemical Education Committee, organized the event. Fifty-four students from 18 different high schools participated, along with numerous teachers. The demonstrations were presented by high school teachers Michelle Smith and Susan Neal and six chemistry majors from the University of Richmond. The April meeting included a **Poster Session** that featured student research with 22 posters from seven colleges and universities; Jim Demas coordinated the Poster Session. The **Vendor's Show** that was held in conjunction with the September meeting featured four booths; Elizabeth Hairfield organized the Show. A **High School Workshop** was held at the October meeting in Harrisonburg with students and teachers from 18 high schools attending. Demonstrations were performed by Tom DeVore and Jim Lehman of James Madison University (JMU), Larry White of Harrisonburg High School (HHS), and by students from JMU and HHS. Larry White and Bill Rademaker organized the workshop. Seven bottles of wine from Burnley Vineyards were given away as door prizes at the December meeting.

The Hospitality Committee, headed by Byron Johnston, sent letters of welcome to 243 new members of the Section. The 1994 Section budget allocated \$24,134 to Section activities. The largest source of revenue was the ACS allotment of \$8,134. The largest expenditures were \$6,000 in dinner expenses, and \$4,600 for publications. A sum of \$2,159 was allocated to education programs. Nine issues of the Virginia Section Bulletin were published in 1994. Jim Beck served as Editor and Eddie Thomas was the Publisher. Advertisements for Galbraith Laboratories, Tudor Scientific Glass, ChemInnovation Software, Waters Chromatography, and Research Glass were included in various issues. Eddie Thomas drew a cartoon that was printed on the cover of the special Summer issue. Student affiliate chapters at James Madison University and the University of Richmond were recognized by the national ACS as "commendable."

The Virginia Section continued its longstanding practice of presenting awards to deserving individuals. The Distinguished Service Award was presented to Dr. William R. Smithey, Jr. Ms. Judith A. Bohince of Brentsville District Middle-Senior High School in Prince William County received the Distinguished High School Chemistry Teacher Award. The Distinguished Middle School Science Teacher Award was given to Mr. Leslie E. Deane, Jr. of Chickahominy Middle School in Hanover County. Thirteen senior chemistry majors from colleges and universities within the Section were honored; each received a one-year membership in the American Chemical Society and a certificate of achievement. The outstanding chemistry students for 1994: Jon Baker (Virginia Commonwealth University); Kevin Bennett (James Madison University); Lemuel Bryant (Virginia State University); Cindy Elliot (Longwood College); Katherine Everberg (College of William & Mary); Robert Geiger (Hampden-Sydney College); Kara Gratton (University of Richmond); Michael Hines (Mary Washington College); Allison Hurley (Mary Baldwin College); Laurie Miller (Eastern Mennonite College); and Jason Yustein (University of Virginia). The Section recognized thirteen fifty-year members of the ACS, including Warren Weaver who served as Section Chair in 1963 and J. Doyle Smith, who received the Distinguished Service Award in 1980.

THE BULLETIN

Published eight times a year by the
American Chemical Society
Virginia Section

Science Museum of Virginia
2500 West Broad Street
Richmond, VA 23220
<http://www.virginia.sites.acs.org/>

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