



MARCH MEETING NOTICE

**University of Richmond
Richmond, Virginia**

**POWELL LECTURESHIP
Friday, March 1, 2013**

FEBRUARY/MARCH 2013

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

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

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

MENU: House Salad, Grilled London Broil with Demi Glace, Grilled Salmon with Gazpacho, Roasted Vegetable Medley, Roasted Red Potatoes, Pound Cake with Berries, Coffee, Iced Tea
Vegetarian Alternative—Eggplant Manicotti (**please specify vegetarian dinner when making your reservation**)

PRICE: \$15.00 (no reductions)

DINNER RESERVATIONS: Please make reservations for the Dinner by **NOON on Friday, February 22** 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. Michelle Hamm, (804) 287-6327; mhamm@richmond.edu

SPEAKER: **Dr. Emily Ann Carter, Princeton University**

TOPIC: **“The Role of Science in Moving the Planet to Green Energy and a Sustainable Future”**

The W. Allan Powell Lectureship in Chemistry

Dr. Emily Ann Carter

Professor Carter is the Founding Director of the Andlinger Center for Energy and the Environment at Princeton University and the Gerhard R. Andlinger Professor in Energy and the Environment, as well as Professor of Mechanical and Aerospace Engineering and Applied and Computational Mathematics. Her current research is focused entirely on enabling discovery and design of molecules and materials for sustainable energy, including converting sunlight to electricity and fuels, providing clean electricity from solid oxide fuel cells, clean and efficient combustion of biofuels, optimizing lightweight metal alloys for fuel-efficient vehicles, and characterizing hydrogen isotope incorporation into plasma facing components of fusion reactors. Professor Carter received her B.S. in Chemistry from UC Berkeley in 1982 (graduating Phi Beta Kappa) and her Ph.D. in Chemistry from Caltech in 1987. After a year as a postdoctoral researcher at the University of Colorado, Boulder, she spent the next 16 years on the faculty of UCLA as a Professor of Chemistry and later of Materials Science and Engineering. She moved to Princeton University in 2004. She holds courtesy appointments in Chemistry, Chemical Engineering, and three interdisciplinary institutes (PICSciE, PRISM, and PEI). The author of over 260 publications, she has delivered more than 430 invited lectures all over the world and serves on numerous international advisory boards spanning a wide range of disciplines. Her scholarly work has been recognized by a number of national and international awards and honors from a variety of entities, including the American Chemical Society (ACS), the American Vacuum Society, the American Physical Society, the American Association for the Advancement of Science, and the International Academy of Quantum Molecular Science. She received the 2007 ACS Award for Computers in Chemical and Pharmaceutical Research, was elected in 2008 to both the American Academy of Arts and Sciences and the National Academy of Sciences, in 2009 was elected to the International Academy of Quantum Molecular Science, in 2011 was awarded the August Wilhelm von Hoffmann Lecture of the German Chemical Society, and in 2012 received a Docteur Honoris Causa from the Ecole Polytechnique Federale de Lausanne. You can learn more about her at <http://carter.princeton.edu>.



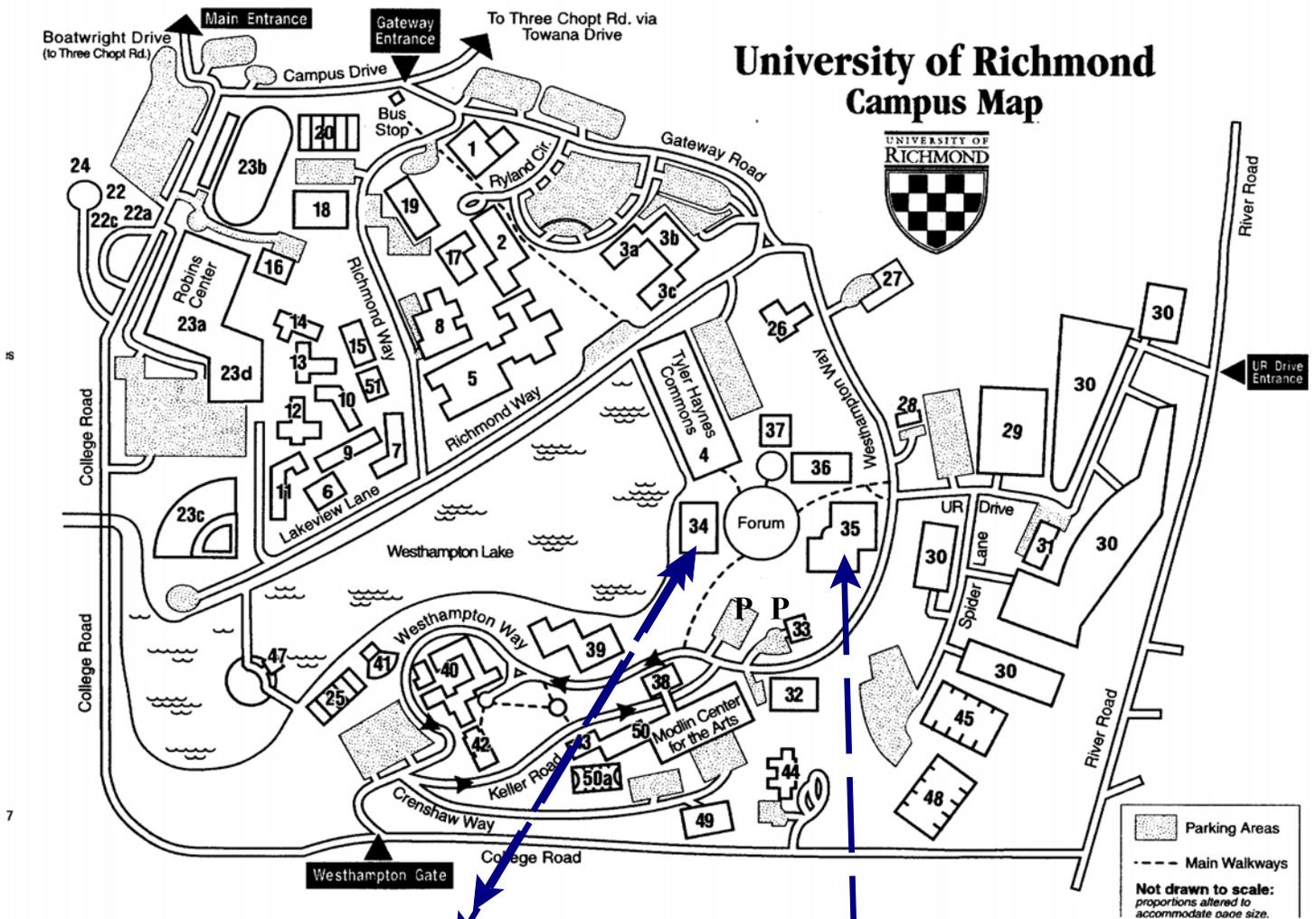
“The Role of Science in Moving the Planet to Green Energy and a Sustainable Future”

If we are to survive as a species on this planet, we must make major science and engineering breakthroughs in the way we harvest, store, transmit, and use energy. Science must play a dominant role in moving the planet to green energy and scientists must speak up so that the intellectual discourse regarding energy policy becomes an informed one, so that proper investments are made. About five years ago, I made a conscious decision to reorient my entire research program in directions designed to help move the planet onto a sustainable energy path. This did not mean abandoning the fundamental for applied – it merely meant ensuring that a direct line could be drawn from the very fundamental quantum mechanics methods development I do to applications of those methods to energy research, applications that could not have been performed without the enabling power of these new quantum mechanics methods. I’ll give some examples selected from characterizing combustion of biodiesel fuels, optimizing mechanical properties of lightweight metal alloys for fuel-efficient vehicles, maximizing ion and electron transport in solid oxide fuel cells, and designing novel materials from abundant elements for photovoltaics and photoelectrodes to efficiently and cheaply convert sunlight into electricity and fuels, that all take advantage of my expertise in quantum mechanics. In addition to my own research, as of about two and half years ago I became responsible for thinking more broadly about the intertwined problems of energy and environment at Princeton. I’ll also discuss how I see the energy landscape for the 21st century, and what I hope the scientific community will be able to do to accelerate this essential transformation of our civilization.

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). 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 MEETING**

DATE: April 19, 2013
LOCATION: University of Virginia
Charlottesville, VA
HOST: Dr. James Demas
PHONE: (434) 924-3343
E-MAIL: demas@virginia.edu
SPEAKER: **Dr. Clifton Draper**
TOPIC: "I Have Never Let My Schooling Interfere
with My Education"
⇒ **STUDENT POSTER SESSION**

**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. Abstracts of papers will be collected electronically in the spring prior to the Annual Meeting. Full information about paper submission and about Academy membership can be found on the Academy's website: <http://www.vacadsci.org>.

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 special activities on Saturday, April 13. Dr. Kristine Smetana, Chair of the Committee on Community Activities, will coordinate the CCED program for our Section. Contact her for more information and to volunteer your support and assistance: kmetana@jtcc.edu; (804) 706-5143.



STUDENT POSTER SESSION

The Virginia Section will hold its annual poster session at the **Friday, April 19** 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.

METRO RICHMOND SCIENCE FAIR



The Metro Richmond Science Fair is now the **Metro Richmond STEM Fair!** It is an affiliated regional fair of the Intel International Science and Engineering Fair (Intel ISEF). The STEM Fair is Central Virginia's qualifying fair for the Intel ISEF and the Broadcom MASTERS Competition. It is funded by the MathScience Innovation Center (MSiC) and the MSiC Foundation. This year's fair will be held at Hanover High School on **March 23, 2013**.

The Virginia Section of the ACS is a supporter of the Metro Richmond STEM Fair. The Fair is Central Virginia's regional qualifying science fair for 7th - 12th grade students. Students compete in either the Junior (grades 7 & 8) or Senior (grades 9 - 12) Division. Full information can be found on the website: <http://sciencefair.msinnovation.info/index.htm>.

Judges are needed for both the preliminary screening of papers and for the projects that are presented on March 23. Contact sciencefair@msinnovation.info to volunteer your assistance. The title sponsors for the Metro Richmond STEM Fair are DuPont and Dominion. Additional sponsors include FAREVA, Martin's, the Virginia Credit Union, Afton Chemical, Pfizer, and Bon Secours Children's services.



SEMINARS AT THE UNIVERSITY OF VIRGINIA

February 15 - **Professor Zachary Ball**, Rice University

February 22 - **Professor Stephen Craig**, Duke University, "Mechanochemistry: From Trapped Transition States to Self-Healing Polymers"

March 1 - **Professor M. Elizabeth Stroupe**, Florida State University, "Coupled Electron and Proton Transfer in the Six-Electron Reduction Catalyzed by Sulfite Reductase Hemoprotein"

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

April 12 - **Professor Eric Mazur**, Harvard University, "Nonlinear Optics at the Nanoscale"

April 19 - **Professor Peter Wipf**, University of Pittsburgh, "Better Mitochondria Through Imine Addition Chemistry" (**HECHT LECTURE**)

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

February 21 - **Dr. Joe Zhou**, Texas A&M University

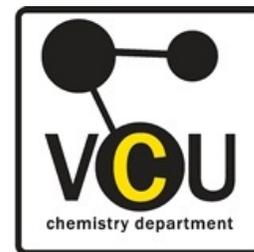
March 14 - **Professor Alejandro C. Olivieri**, Universidad Nacional de Rosario,
"Multi-Way Calibration and Its Analytical Advantages"

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 (MARY KAPP LECTURE)

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



CHEMICAL EDUCATION GRANTS

The Virginia Section provides grants to teachers in the Virginia Section for the purchase of equipment and supplies. The mini-grants, for \$50 to \$500, support school science projects in grades K through 12. They are administered by the Chemical Education Committee which is chaired by Ryan Warren. A grant application form can be downloaded at <http://virginia.sites.acs.org/chemicaleducation.htm>. Three grants have been made during the past six months. Here are summaries of the funded proposals.

1. **Godwin High School** in Henrico County received \$494.15 to implement nanoscience lessons in honors and advanced placement chemistry classes. The proposal was submitted by Hope Parham and Dana Delano. The project will involve the synthesis of gold and silver nanoparticles and will allow students to explore the new properties of nanoscience and technology with hands-on activities
2. **Henrico High School** in Henrico County received \$495.88 to maintain an innovative laboratory program and to introduce nanotechnology and inquiry into science classrooms. The proposal was submitted by Vonita L. Giddings.
3. **Thomas Jefferson High School** in the City of Richmond received \$500.00 to support a series of density labs for Earth Science and AP Environmental Science students. The proposal was submitted by Rachel Green. Students in 9th grade classes will be introduced to laboratory techniques by measuring the density of various samples.

ACS SCHOLARS PROGRAM ACCEPTING APPLICATIONS

The ACS Scholars Program is now accepting online applications for awards beginning with the 2013-2014 academic year. The program is targeted at minority groups considered by NSF to be underrepresented in the sciences. It is open to graduating high school seniors, college freshmen, sophomores and juniors majoring in a chemical science. Go to www.acs.org/scholars for complete information and the link to the application. Potential applicants can also call (202) 872-6250 or send an e-mail to scholars@acs.org. The deadline for applications is March 1, 2013.

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 for their next endeavor.

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 18 new faculty positions and placed greater emphasis on interdisciplinary studies and innovative science classes for non-majors.

Invitation to Judge the Virginia Junior Academy of Science

The Virginia Junior Academy of Science will hold its 2013 VJAS Research Symposium in conjunction with the Virginia Academy of Science Annual Meeting at Virginia Tech, Wednesday, May 22. The purpose of this meeting is to give approximately 750 students in grades seven through twelve from throughout the commonwealth the opportunity to present papers, which will report original research they have conducted. On Wednesday, twenty-two papers will be presented every 15 minutes from 9 a.m. through 4:30 p.m. You will be invited to come early that morning to prepare for the arrival of the young scientists. A detailed schedule of events will follow in May as well as the delivery of their papers for your review.

How can we accomplish this goal? In order to achieve this monumental task many volunteers are needed. Each of the sections requires three judges and a chair. Judges are needed in all fields. We have separated into middle and high school competition this year, so you will note different categories below that you can choose to judge. Judging requires one to read and evaluate no more than twenty-two papers, which will be received approximately three weeks prior to the date of the meeting. The judges are asked to be present, with those papers, at a briefing on Wednesday morning. A detailed schedule will be posted online closer to the event. Judges and chairs will receive breakfast and lunch and can choose to participate as a representative scientist at "Dinner with the Scientists" during which they can interact with the students.

Please help us to make this an event to remember. So register today and secure your first choice in categories. Please fill out and mail the bottom portion of this letter to Mrs. Susan Booth. You will, at a later date, receive notification of the category you will be judging, parking permits, scoring rubric, schedule, and other important information. We will update you with more details as the logistics are worked out. We truly appreciate all that you do and hope that you will be willing to contribute your time and effort again. If you know of any others who may also be interested in assisting VJAS, then please pass this information on to them. The entire program is made possible by your volunteer efforts, and its success rests on your willingness to help. If you have any questions then, please do not hesitate to contact me at 757-897-3104. Thank you in advance for your assistance.

...Susan Booth, VJAS Director, Susan.science@gmail.com

Please detach, print and email or mail to: Susan Booth, 134 Twin Lake Circle, Newport News, VA 23608

Name: _____ Phone #: (____) _____

Address _____

E-mail: _____

I will participate in ____ or I will not participate in ____ Dinner with the Scientists on Wednesday.

Please circle or mark the box to the right of the categories you are interested in and rank order:

| Middle School (Grades 7 and 8) | High School (Grades 9 – 12) | | |
|---------------------------------------|------------------------------------|-------------------------------------|--|
| Animal & Human Sciences | Animal Behavior & Genetics | Math, Statistics & Computer Science | |
| Human Behavior | Botany | Medicine & Health | |
| Chemical Science | Chemistry | Microbiology & Cell Biology | |
| Ecology & Earth Sciences | Engineering | Physics | |
| Physical Science, Engineering & Math | Environmental Science | Psychology | |
| Plant Science and Microbiology | | Zoology | |

REPORT ON THE JANUARY SECTION MEETING

Over 40 persons heard Dr. Scott Gronert discuss the chemistry of aging at the Section meeting on January 18, 2013. The meeting was held at Randolph-Macon College in Ashland. Dr. Joseph Crockett, Section Chair, presided. Dr. Gronert's topic was "Aldehydes in Your Proteins: The Tree Rings of Human Aging?". A delicious meal preceded his interesting talk. Section members were pleased to see Dr. Lidia Vallarino, retired Professor of Chemistry at Virginia Commonwealth University, and a recipient of the Distinguished Service Award from the Virginia Section (2002). Between 1974 and 2002, Dr. Vallarino made four presentations at meetings of the Virginia Section. Thanks to April Marchetti and her colleagues at Randolph-Macon for hosting this excellent meeting.



Speaker Scott Gronert
with Mike Kerwin



Lidia Vallarino with her son John



Brian Moores greets Dr. Vallarino

OLD ISSUES OF THE VIRGINIA SECTION BULLETIN

The Virginia Section's collection of copies of the Bulletin is missing some issues from the 1960s. If you have any old Bulletin copies, please contact the editor: Jim Beck, (804) 733-5286; beckjd1977@comcast.net.

JACK BREAZEALE RECEIVES AWARD



William H. (Jack) Breazeale, Jr. will receive the 2013 Award for Volunteer Service to the American Chemical Society. He is professor emeritus at Francis Marion University in Florence, South Carolina and an adjunct professor at the College of Charleston. He has been a councilor for the South Carolina Section of the ACS since 1984 and currently chairs the ACS Committee on Nominations & Elections. He was named an ACS Fellow in 2010. Dr. Breazeale was the speaker for the Virginia Section meeting that was held at Mary Washington College on November 9, 2007. His topic was "Lab Inspections: You Might Be Surprised By What You Find!" He will present the award address at the ChemLuminary Awards celebration at the Fall ACS national meeting in Indianapolis.

QUESTIONS FROM THE PAST

This question was asked in the February Bulletin: Dr. Preston Leake passed away in December, 2012. On January 18, 1980, he joined two other Councilors of the Virginia Section in discussing "The ACS—Where to in the 80s?" The talk was given by the Councilors at the Section meeting held at Randolph-Macon College in Ashland. **Who were the other two Councilors who joined Preston in the presentation that night?** Dr. W. Allan Powell from the University of Richmond and Dr. Oscar Rodig of the University of Virginia were the other two councilors.

A new question: 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.



CHANGING OF THE GUARD

Joe Crockett, incoming chair of the Virginia Section, presents a past-chair pin to Karen Carter, the 2012 chair. In her new role as Past-Chair, Dr. Carter becomes the chair of the Nominating Committee for 2013. The pin presentation took place at the January 19 meeting of the Executive Committee.

~~WORDS OF WISDOM FOR MARCH~~

**TO BE TRULY HAPPY,
YOU MUST MAKE OTHERS HAPPY"**

CAN YOU IDENTIFY THESE PERSONS?



The photo is from 1992 when the older gentleman received the distinguished service award from the Virginia Section. A native of suburban Philadelphia, he received a B.S. in Chemistry from the Drexel Institute of Technology, an M.S. in Chemistry from Princeton University, and a Ph.D. in Chemistry from the University of Virginia. He is a retired Professor of Chemistry at Virginia Commonwealth University, where he taught for over 40 years. In 1985, he was Chair of the Virginia Section.



The “mystery person” shown in the February Bulletin was Dr. Brian W. Moores.

ACS WEBINARS IN FEBRUARY AND MARCH

Here are some webinars scheduled for the months of February and March:

February 14, 2013 - “A Phytochemical Love Affair: Love Potion Plants”, Dr. Tom Zennie

February 28, 2013 - “SUPERBUG: The Quest for Drug Developers”, Maryn McKenna

March 7, 2013 - “Funding Agency Priorities for 2013”, Bob Lees and Eric Rohlfing

March 14, 2013 - “Chemistry + Physics = Great Beer and a Frothy Foam”, Charles Bamforth and Steve Carlo

March 21, 2013 - “Perspective: The Stuff That Dreams Are Made of—Part 2”, Neil Senturia and Barbara Bry

March 26, 2013 - “Chemists Celebrate Earth Day”, Andrew Jorgensen and George Heard

March 28, 2013 - “Using Water to Replace Organic Solvents—Switchable Water”, Philip Jessop and Joseph Fortunak

All webinars are scheduled for 2:00 - 3:00 pm, EST. Recordings of the webinars are available online. For more information, check the ACS Webinars website: <http://acswebinars.org/>.

...A LOOK BACK...

Past meetings of the Virginia Section:

One Year Ago: March 16, 2012, University of Richmond - Robert Griffin, Massachusetts Institute of Technology, “High Frequency Dynamic Nuclear Polarization—Why Two Electrons Are Better Than One”

Ten Years Ago: March 11, 2012, Randolph-Macon College - Carolyn Fisher, McCormick & Company. “Spices and Herbs: Chemistry and Health”

25 Years Ago: March 18, 1988, University of Richmond - Glenn Crosby, Washington State University, “All Things Great and Small: Avogadro’s Number and the Concept of the Mole”

50 Years Ago: March 22, 1963, University of Richmond - Norman Colthup, American Cyanamid Company, “Molecular Vibrations and Infrared Spectroscopy”

NICHOLAS TURRO

Nicholas Turro, the William P. Schweitzer Professor of Chemistry at Columbia University, died on November 24, 2012 at the age of 74. Dr. Turro was a world leader in the field of organic photochemistry. He is credited with laying the foundations of modern photochemistry, supramolecular photochemistry, and spin chemistry. The ACS recognized him in 2011 by presenting him with the Arthur C. Cope Award. Dr. Turro spoke to the Virginia Section at the W. Allan Powell Lectureship in February, 1993. His topic at the University of Richmond meeting was “Photoreactions of Organic Molecules Adsorbed on Zeolitic Molecular Sieves.”



THE BULLETIN

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Joe Crockett

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