



The Bulletin
of the
Virginia Section
AMERICAN CHEMICAL SOCIETY

FEBRUARY MEETING NOTICE

**University of Richmond
Richmond, Virginia**

**POWELL LECTURESHIP
Friday, February 17, 2017**

FEBRUARY 2017

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5	6	7	8	9	10 <small>reservations</small>	11
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DINNER: 6:00 p.m.
Richmond Room
Heilman Dining Center

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

MENU: Caesar Salad with Asiago Dressing, Grilled London Broil, Tarragon Chicken, Roasted Vegetables, Smoked Gouda Mac & Cheese, Assorted Rolls, Mediterranean Cake with Berries, Iced Tea and Coffee

A vegetarian meal is available upon request — 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 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. Raymond Dominey, (804) 289-8761; rdominey@richmond.edu

SPEAKER: **Dr. Robert Grubbs, California Institute of Technology**

TOPIC: “Design and Applications of Olefin Metathesis Catalysts”

The W. Allan Powell Lectureship in Chemistry

Dr. Robert Grubbs



Dr. Robert Grubbs is the Victor and Elizabeth Atkins Professor of Chemistry at the California Institute of Technology in Pasadena, California.

At CalTech, his research group discovers new catalysts and studies their fundamental chemistry and applications. A family of catalysts for the interconversion of olefins, the olefin metathesis reaction, has been discovered in the Grubbs laboratory. In addition to their broad usage in academic research, these catalysts are now used commercially to prepare new pharmaceuticals and composites for structural applications and for the conversion of biorenewable carbon sources into fuels and commodity chemicals. Catalysts for other useful transformations are also being developed and studied in detail.

Dr. Grubbs' more recent awards have included the **Nobel Prize in Chemistry (2005)**, Benjamin Franklin Medal in Chemistry (2000), Pauling Award Medal (2003), Havinga Medal (2006, Leiden University), Golden Plate Award (2006, Academy of Achievement), eight ACS Awards including: Polymer Chemistry (1995), Arthur C. Cope Award (2002), Award for Creative Invention (2009), ACS Roger Adams Award in Organic Chemistry (2011), Giulio Natta Award for Chemistry (2014). He was elected to the National Academy of Sciences (1989), Fellow of the American Academy of Arts and Sciences (1994), the Honorary Fellowship of the Royal Society of Chemistry (2006), Fellows of the American Chemical Society (2009), ACS Polymer Division Fellow (2010), Gold Medal of the American Institute of Chemists, Chemical Heritage Foundation (2010), National Academy of Inventors Fellows Medallion (2014), National Academy of Engineering (2015), and the George A. Olah Award in Hydrocarbon or Petroleum Chemistry (2017). He has been awarded many honorary degrees, the most recent ones being an Honorary Degree of DSc from University of Warwick, Coventry (2010), *Honors Causa* Doctorate, Universidad de Huelva, Spain (2012), Commencement Speaker at KAUST, Jeddah, SA (2012), RWTH Aachen University Honorary Doctorate (Dr.rer.nat.h.c., 2013), and Doctor of Science, *honoris causa*, The Hong Kong Baptist University (2015). He has 620+ publications and 150+ patents based on his research.

“DESIGN AND APPLICATIONS OF OLEFIN METATHESIS CATALYSTS”

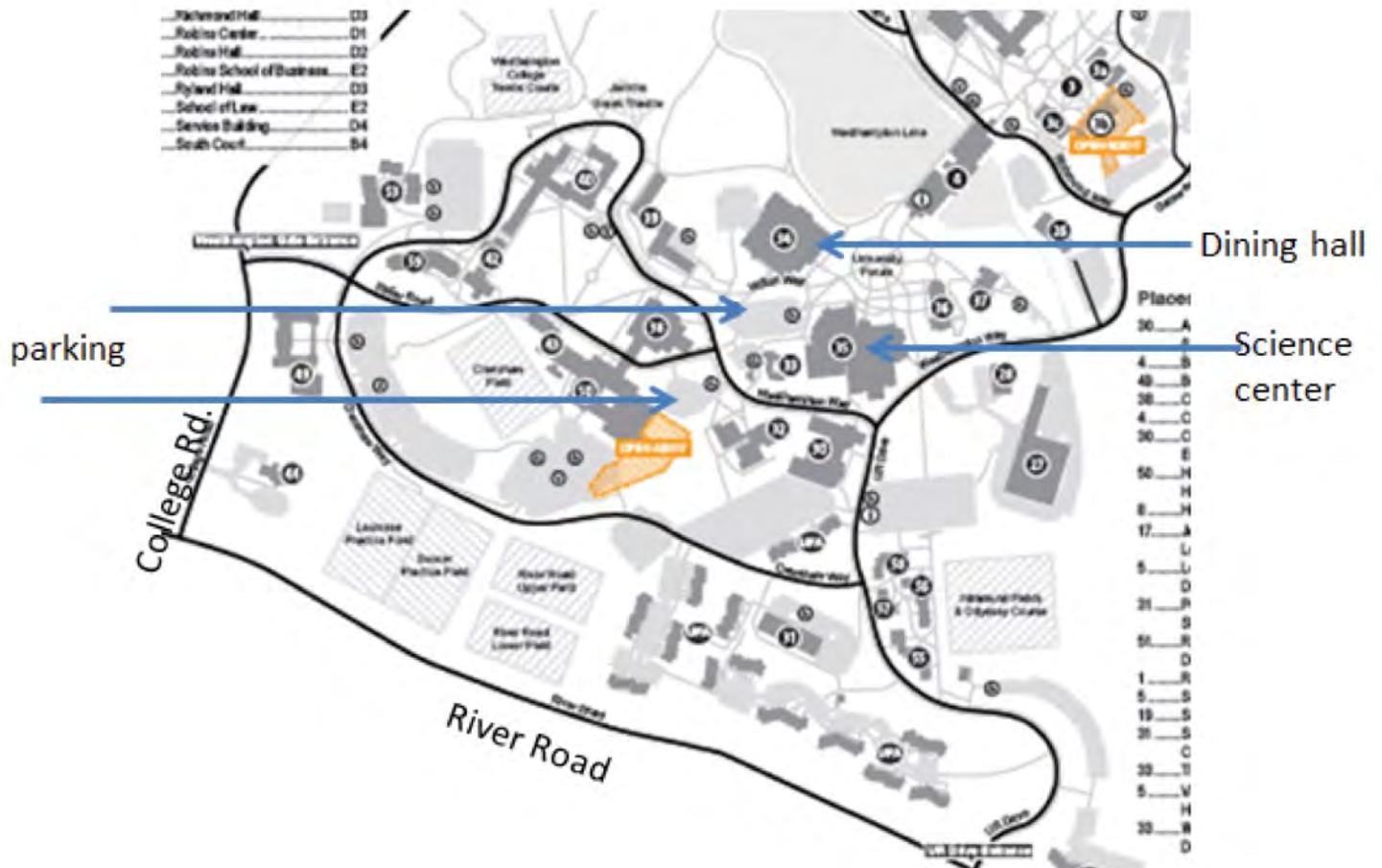
Olefin Metathesis has become a tool for the synthesis of complex organic molecules and materials. The key to the development of these applications has been the discovery and study of organometallic complexes that will efficiently catalyze the reaction in the presence of standard functional groups. The next advances resulted from the development of more selective catalysts and complexes that show high turnover numbers in important transformations.

A number of commercial processes based on olefin metathesis are now in development, others will only become possible with even more selective and efficient catalysts. In addition to the science behind the developments, some of the issues associated with transitioning research into technology will be considered.

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 as it descends a long hill and winds up around the back of the Chapel and Science Center. Take a right at the back of the Science Center on to Westhampton Way and continue 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. A more legible map can be found at <http://www.richmond.edu/visit/maps/print/campus.pdf>.

CAMPUS MAP



***** VIRGINIA SECTION NEWS *****

FUTURE MEETINGS

DATE: **March 16, 2017**
 LOCATION: Altria Center for Research and Technology
 Richmond, Virginia
 HOST: Ms. Kathleen Sink
 PHONE: (804) 370-8097
 EMAIL: kms2uu@virginia.edu
 SPEAKER: **Dr. Willie McKinney**
 TOPIC: "A Journey: Idea to Market Authorization"



DATE: **April 14, 2017**
 LOCATION: University of Virginia
 Charlottesville, Virginia
 HOST: Dr. James Demas
 PHONE: (434) 924-3343
 EMAIL: demas@virginia.edu
 SPEAKER: **Dr. Joseph Chipuk**
 TOPIC: "Threat Chemistry — Spies Needed"
Undergraduate Research Poster Session



September - Virginia Commonwealth University, Richmond - **Teacher Awards**

October - Mary Baldwin College, Staunton

November - University of Mary Washington, Fredericksburg

THE POWELL LECTURESHIP

Dr. W. Allan Powell served the University of Richmond continuously for 34 years. For 23 of those years, he was chairman of the Chemistry Department. Dr. Powell served as the premedical and pre-dental advisor from 1959 to 1986. He was a very important part of the scientific community in Virginia, serving both on a national and regional basis in the American Chemical Society and in numerous capacities for the Virginia Academy of Sciences.



In honor of Dr. Powell, the Department of Chemistry established the W. Allan Powell Lectureship. The endowed lectureship is a regional program devoted to specific advances in the chemical sciences and each year complements the Virginia Section of the American Chemical Society at the University of Richmond. Dr. Powell passed away in 2010, but his legacy lives on in the annual W. Allan Powell Lectureship.

THE CHAIR'S CORNER



I am writing this note as we approach January 20th and the awards meeting at Virginia Union, followed by the first executive meeting of 2017 on January 21st. The passing of the gavel from the former Chair of the section to the new Chair of the section is a tradition that accompanies this first meeting. I am reminded that the leadership positions tend to be temporary and fleeting. Before you know it, it is over with and you are again one of the other long-time past leaders hoping to continue to contribute in a constructive way. Although I hope to make a positive difference, I realize that the contribution of one leader is really just a drop in the bucket relative to the long term leadership. The long term leadership for the Virginia section is provided by the core group of people who make up the bone of the structure. I hope the awards given this time

around are a small token of the immense contributions of the service of these individuals. I would especially like to point out the editor of this *Bulletin*, Jim Beck, for his quiet leadership in the section and his patience with those in the fleeting leadership positions. Many others who have received service awards in the past continue to work and keep the section going and also deserve recognition. As such, I hope that members of our section will take a moment to get to know these essential folks and to offer them a small thanks for all that they do. Send a brief email, send them a note or give them a call. My wish is that these leaders never feel as if they are not valued, especially as the section feels some growing pains. I personally say “thank you” to you all for adding value to the Virginia section ACS.

...Colleen M. Taylor, Section Chair for 2017 cmtaylor@vsu.edu

THE 2017 CHEMISTRY OLYMPIAD

The Virginia Section will host the 2017 Chemistry Olympiad for all high school chemistry teachers and students who are interested in participating (both first- and second-year exams will be given). The Local Section competition will be held in February and March, 2017 (**registration deadline is February 20**). The students who do well in the local competition will be nominated to compete in the national competition; that examination will be given on April 22 at James Madison University in Harrisonburg. Twenty students from across the U.S. will be honored with medals and plaques. For more information and the application forms, go to the Virginia Section website at <http://www.virginia.sites.acs.org/>.

The Virginia Section recognizes students, teachers, and schools with certificates, pins, plaques, and gift certificates. **Dr. Ann Sullivan** is the coordinator for the Chemistry Olympiad in the Virginia Section: asullivan@reynolds.edu; (804) 943-2591 or (804) 523-5777.

WORDS OF WISDOM FOR FEBRUARY:
“CONFIDENCE IS CONTAGIOUS”

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 15 and 22 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.



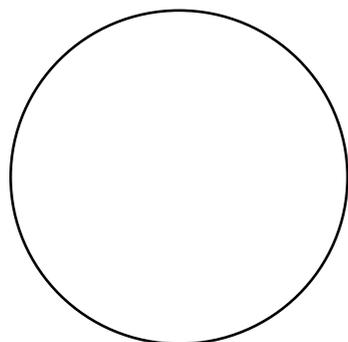
A \$35 million renovation and expansion of Gottwald Center for the Sciences was completed in 2005. New space (approximately 28,000 sq. ft.) was added to the south and west sides of the building to provide faculty offices and research labs, and the original space (162,000 sq. ft.) was renovated to include 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 inter-disciplinary studies and innovative science classes for non-majors.



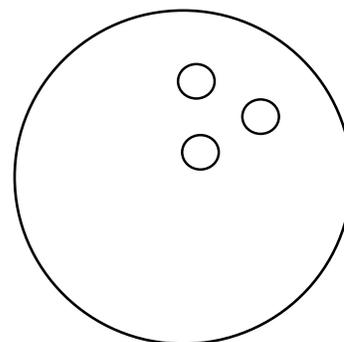
VIRGINIA SECTION YCC Bowling Social

Sunday February 26th 2pm-4pm

Join your local ACS YCC section for a fun social event. Bowling is free for members, non-members only \$5. Come enjoy some bowling, food, and beverages with the YCC.



*Sunset Lanes
6540 W Broad St
Richmond, VA 23230.*



Contact Us: vayoungerchemistscommittee@gmail.com

VIRGINIA SECTION OF THE ACS

MENTORING PROGRAM

Volunteer to mentor chemistry undergraduate students!



The Virginia Section of the ACS is offering a mentoring/mentee matching service in the chemical sciences. Our goal is to (1) increase participation in the chemistry community, (2) increase awareness of the types of jobs available in the chemistry workforce and (3) help students realize their potential. We are looking for mentors to assist sophomore or junior chemistry majors in their understanding of careers in chemistry and how they may reach their professional goals. Mentors provide a valuable link between the undergraduate student and the professional community. Please follow the instructions below to sign up if you would like to volunteer in 2017.

Examples of student questions:

“What is your daily job like?”

“What types of positions am I qualified for?”

“What experiences can I put on my resume?”

How to volunteer:

1. Sign up here: <https://www.surveymonkey.com/r/R8WLBK9> providing a brief description of your work and area of expertise.
2. We will match you to a mentee that can benefit from your guidance.
3. Mentees will contact you and you can begin your mentoring relationship.

You can choose to mentor one time, multiple times, or throughout a student's undergraduate experience. Any amount of time mentoring would be appreciated!



Sign up to mentor by scanning this QR Code with your smartphone (or copy link)
<https://www.surveymonkey.com/r/R8WLBK9>

Contact us if you have questions:

Email: Heather Lourenco heathernlourenco@gmail.com or

Kathleen Sink kms2uu@virginia.edu



REPORT ON THE JANUARY MEETING OF THE SECTION

The **Annual Awards Meeting** was held at Virginia Union University in Richmond on Friday, January 20, 2017. This year's meeting featured three awards:

- **Dr. Thomas DeVore**, Professor of Chemistry at James Madison University, received the *Distinguished Service Award*
- **Dr. Scott Gronert**, Professor of Chemistry and Associate Dean of Research at Virginia Commonwealth University, received the *Distinguished Research Award*
- **Dr. James Beck**, Professor of Chemistry, Emeritus at Virginia State University, received the *R. Gerald Bass Award for Exceptional Service*

Dr. Dorothy Eseonu, meeting host, introduced **Dr. Zakir Hossain**, Vice President for Academic Affairs at Virginia Union University, who welcomed the Section to VUU. After a delicious dinner in the new Living and Learning Center, **Dr. Colleen Taylor**, Chair of the Virginia Section, convened the meeting.

Mr. Larry White, Adjunct Instructor of Chemistry at Bridgewater College, introduced the first award recipient, **Dr. Tom DeVore**. Dr. Taylor presented him with the *Distinguished Service Award*. Tom described some of his work at James Madison University in his presentation titled "Chasing Sunbeams." Section Chair Elect **Kathleen Sink** gave him the traditional Jefferson Cup that is presented to each speaker at a Section meeting.

Dr. Jeffrey I. Seeman, Visiting Senior Research Scholar at the University of Richmond, introduced **Dr. Jim Beck**, recipient of the *R. Gerald Bass Award for Exceptional Service*. **Dr. Jerry Bass**, for whom the R. Gerald Bass Award for Exceptional Service is named and the first recipient of the Award (October, 2016), made a few remarks and assisted Dr. Taylor in presenting the Award to Jim. After some reminiscing and a litany of thank you comments by Jim, Kathleen gave him the engraved Jefferson Cup.

Dr. Samy El-Shall, Chair of the Chemistry Department at Virginia Commonwealth University, introduced **Dr. Scott Gronert**, who received the *Distinguished Research Award* from Dr. Taylor. Scott spoke on "Ion Trap Reactors to the Rescue: A Tool to Solve Problems in Organic and Organometallic Chemistry." Kathleen presented the Jefferson Cup.

During the Social Hour and Dinner, guests viewed a delightful slide show on the three award winners, prepared by Dr. Taylor. The Section thanks Colleen, Dr. Dorothy Eseonu and her colleagues and students at Virginia Union, and the staff at the VUU Living and Learning Center, for organizing this outstanding meeting.



**Scott Gronert, Jim Beck,
Tom DeVore**



**Tom DeVore,
Colleen Taylor**



**Scott Gronery, Colleen Taylor,
Samy El-Shall**



**Jeff Seeman, Jim Beck,
Jerry Bass**



Jerry and Sue Bass



**Tom DeVore,
Larry White**



Kathleen Sink and Jim Beck



Dorothy Eseonu



Jeff Seeman and Will Lewis



CHEMISTRY SEMINARS AT THE UNIVERSITY OF VIRGINIA

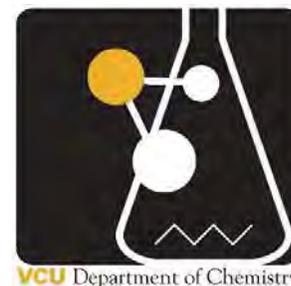
- February 3 - Professor **George Shields**, Furman University, "Research with Undergraduates: A Fabulous Career"
- February 17 - Professor **Ben Garcia**, University of Pennsylvania, "Quantitative Proteomics for Understanding Modified Proteins and Proteomes"
- February 24 - Professor **Professor Marilyne Stains**, University of Nebraska, "Capturing Instructional Practices in the Chemistry Classrooms and Laboratories: New Research-based Tools to Address both Instructors' and Researchers' Needs"
- March 17 - Professor **Younan Xia**, Georgia Institute of Technology, "Colloidal Metal Nanocrystals: From Academic Studies to Industrial Applications"
- March 31 - Professor **Norah Barba-Behrens**, Quimica Universidad Nacional Autonoma de Mexico, "Coordination Compounds with Biological Relevant Ligands. Structural, Electronic, Magnetic, and Chiral Versatility"
- April 7 - Professor **Chris Jaroniec**, Ohio State University
- April 14 - Professor **Daniel Chiu**, University of Washington
- April 21 - **Dr. John Kozarich**, ActivX Biosciences, "ChemoProteomic Adventures in Nucleotide Binding Space" (**Hecht Lecture**)
- April 28 - Professor **Claudio Turro**, Ohio State University
- May 3 - Professor **David Allis**, Rockefeller University (**Jefferson Lecture**)

All seminars are scheduled at 4:00 p.m. in Room 304 of the Chemistry Building

CHEMISTRY SEMINARS AT VIRGINIA COMMONWEALTH UNIVERSITY

- February 9 - **Dr. Sapna Sarupria**, VCU College of Engineering and Science
- February 16 - **Dr. Ryan White**, University of Maryland Baltimore County
- March 30 - **Dr. Mike Van Stipdonk**, Duquesne University
- April 20 - **Dr. Heather Lucas**, VCU Department of Chemistry

**All seminars are held in Oliver Hall-Physical Sciences Wing,
Room 1024, at 3:30 pm**



LETTER FROM A CHEMISTRY STUDENT

This letter was sent to Manchester High School chemistry teacher Michele Richards by one of her former students who is now a freshman chemistry major at Virginia State University:

Dear Mrs. Richards,

This might come as a surprise, but you and your class have impacted my life in more ways than I could ever imagine. As you know I did not start off in your class, I later switched to it and that is a decision that I would never regret. While in your class I gained a new found appreciation and interest in Chemistry that I never had before. When I took General Chemistry sophomore year of high school, I was just going the motions of the class, never actually trying to know the material but only memorizing it for the time being. However, once I was enrolled in your Forensic Chemistry class my whole perception of Chemistry was changed. At first, I was looking at Chemistry as if it was just black and white, but you opened my mind and taught me that Chemistry is all around us. Chemistry was the major part of the class, but the Forensics, part is what really caught my eye. The many different labs and group projects were my favorite part of the class. These hands-on activities allowed me to grasp the fundamentals of Forensic Chemistry. Also, learning the basics of Organic Chemistry contributed to my new found love for this field. I just really want to say thank you Mrs. Richards for allowing me to be in your class and being the interactive teacher that you are. If it wasn't for you I would not be following my passion in college right now as a Forensic Chemistry major. Once again thank you for your dedication to teaching, you truly are one of the best.

Sincerely,

Your student Allahna Grant

THANK YOU LETTERS TO CHEMISTRY TEACHERS

Two letters from students to their high school teachers were included in the December, 2016 issue of the *Bulletin* and a third appears above. These were in response to a suggestion from Dr. Joseph Crockett that encouraged college students to write short thank you notes to their high school chemistry teachers. The letters will be passed on to the teachers and the high school principals. Letters are still being solicited. The student should give his or her name, the teacher's name, and the high school and its location. Send letters to Dr. Joseph M. Crockett, Department of Chemistry, Bridgewater College, Bridgewater, VA 22812 or to Dr. Colleen Taylor, Department of Chemistry and Physics, Virginia State University, Petersburg, VA 23806.

SEND YOUR LETTER TODAY!

EVONIK INDUSTRIES NAMED COMPANY OF THE YEAR

C&E News has named Evonik Industries as their “company of the year” for 2016. The German speciality chemicals company was selected for its dedication to making its own business better. The firm had worldwide sales of \$15.0 billion and has 33,575 employees. It is active in over 100 countries with manufacturing plants in 24 countries. In the United States, Evonik’s two largest plants are in Mobile, Alabama, and Lafayette, Indiana.



Evonik has two sites in the Richmond area. The Evonik Nutrition and Care facility in Hopewell produces a variety of ingredients that are used to make well-known consumer offerings such as cosmetics, shampoos, and car care products and industrial products used in agriculture, coatings, and metalworking. In Richmond, Evonik has a new Business & Innovation Center that includes a variety of new research and development work.

Evonik hosted the September, 2016 meeting of the Virginia Section at its Business & Innovation Center. Section guests toured the new facility and heard a presentation by Dr. Justin Heuser, Group Leader for the Agriculture team at Evonik for the Americas region. He spoke on “Surfactants in Agriculture.” A report on the September 16 meeting appeared in the October, 2016 issue of the Virginia Section *Bulletin*. The C&E News report on Evonik is at CEN.ACS.ORG (Jan. 9, 2017 issue).

MEETING OF THE VIRGINIA SECTION EXECUTIVE COMMITTEE

The Executive Committee of the Virginia Section met at Virginia State University on Saturday, January 21. **Dr. Colleen Taylor**, Chair of the Section, presided. Twenty-three members of the Committee attended. Reports were received from officers, councilors, trustees, and committee chairs and the 2017 budget was approved. There was a special emphasis on the implementation of the new Strategic Plan for the Section.

At the beginning of the meeting, **Dr. Denise Walters**, Past Chair of the Section, presented hand-made gifts of appreciation to several member of the Section who had provided special assistance to her during her tenure as Chair of the Section. She then passed the Section gavel to Dr. Taylor, the new Chair. Dr. Taylor, in turn, presented Denise with the Past Chair pin from the ACS. Dr. Walters presented the *ACS Volunteer of the Year Award* to **Dr. Stephanie Mabry**.



**Colleen Taylor and
Denise Walters**



**Denise Walters and
Thad Hannel**



**Denise Walters and
Stephanie Mabry**

2017 OFFICERS OF THE VIRGINIA SECTION



left-to-right:

Colleen Taylor - Chair
Christine Farthing - Secretary
Denise Walters - Past Chair
Joe Pompano - Vice Chair
Kathleen Sink - Chair Elect
not shown:
Thad Hannel - Treasurer

NETWORKING MEETING OF THE WOMEN CHEMISTS COMMITTEE

THURSDAY, FEBRUARY 23

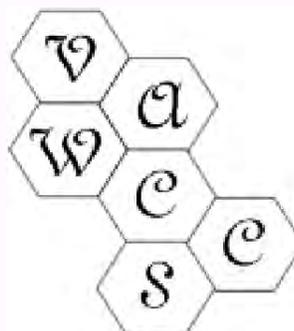
8:30 AM

Baker's Crust in Carytown
3553 West Cary Street
Richmond, Virginia 23221

<http://www.bakerscrust.com/locations/richm/richmond/>

RSVP by February 21 to **Kathryn Diebler** at kdd3@cornell.edu

- dates for future events
- women scientists in Hidden Figures
- lack of visibility for women in science?



NOBCChE AND THE ACS



National Organization for the Professional Advancement
of Black Chemists and Chemical Engineers

The National Organization for the Professional Advancement of Black Chemists & Chemical Engineers (NOBCChE) is forging closer ties with the American Chemical Society. NOBCChE held its 2016 conference in Raleigh, N.C. with the theme of "Paradigm Shift: Cultivating STEM

Leadership to Solve Grand Challenges. *C&E News* published an article on NOBCChE and the conference in its January 9, 2017 issue (see **CEN.ACS.ORG**).

The Virginia Section has been collaborating with NOBCChE for several years. At the annual South-eastern Regional ACS Meeting in March, 2016, the Virginia Section received the first **Partners in Progress (P3) Award** from the ACS. This award recognizes outstanding partnerships. The Virginia Section received the P3 Award for the collaborative efforts of the Section's Minority Affairs Committee and NOBCChE. These efforts included a workshop, presentations at the annual poster session, an online seminar, and an event co-sponsored by the Women Chemists Committee. The Virginia Section is exploring other ways to collaborate with NOBCChE, including the establishment of combined student chapters and the possibility of reducing the ACS membership fee for NOBCChE members. Plans are being made to collaborate with NOBCChE on a major summit for minority students within the Section. The Minority Affairs Committee is chaired by **H. Hyacinthe Yarabe** and **Charlene Crawley**. **Colleen Taylor** and **Karl Jackson** are working with them. For more information, contact Hyacinthe Yarabe at hyacinthe.yarabe@pfizer.com.

DR. FOIL MILLER DIES AT 100

Dr. Foil A. Miller, formerly University Professor and head of the spectroscopy laboratory at the University of Pittsburgh, died on Sept. 20, 2016 at the age of 100. His research was in infrared and Raman spectroscopy. One of his hobbies was collecting stamps dealing with chemistry and physics. In 1998, he and Edgar Heilbronner coauthored the book "A Philatelic Ramble through Chemistry." Dr. Miller addressed the Virginia Section on two occasions – in October, 1974 at the General Wayne Motor Inn in Waynesboro and at the College of William & Mary in Williamsburg in March, 1989. His topic at both meetings was "Great Mistakes in Science."



QUESTIONS FROM THE PAST

This question was asked in the January Bulletin: Dr. Barbara Reisner, Professor of Chemistry at James Madison University, was named an ACS Fellow in 2016. She is the eighth Fellow from the Virginia Section. The other Fellows were named in 2009 (1), 2011 (2), 2013 (1), 2014 (1), and 2015 (2). How many of the seven can you name? **Dr. Kenneth J. Wynne (2009), Dr. Erik Fernandez (2011), Dr. Jeffrey I. Seeman (2011), Dr. Ralph Martin Ottenbrite (2013), Dr. Linette Watkins (2014), Dr. Carol A. Parish (2015), and Dr. R. Gerald Bass (2015).**

A new question. The Powell Lectureship at the University of Richmond has had many outstanding speakers over the years, including several winners of the Nobel Prize in Chemistry. One of these is the Frank H.T. Rhodes Professor of Humane Letters, Emeritus, at Cornell University. He shared the 1981 Nobel Prize in Chemistry with Kenichi Fukui for "their theories, developed independently, concerning the course of chemical reactions." Born in 1937, he is a chemist, a poet, and a playwright and, in 1990, he received the Priestley Medal from the ACS. **Who is this Nobel laureate and in what year was he the Allan W. Powell Lectureship speaker?**