



The Bulletin
of the
Virginia Section
AMERICAN CHEMICAL SOCIETY

JANUARY MEETING NOTICE

JANUARY 2015

VIRGINIA UNION UNIVERSITY
Richmond, Virginia

Friday, January 16, 2015

S M T W T F S

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11	12	13	14	15	16	17
		<i>RESERVATIONS</i>			<i>MEETING</i>	
18	19	20	21	22	23	24
25	26	27	28	29	30	31

SOCIAL HOUR: **6:00 p.m.**
Panther Grill
Henderson Center
1500 N. Lombardy St.

DINNER: **6:30 p.m.**
Panther Grill
Henderson Center

PROGRAM: **7:15 p.m.**
Wall Auditorium
Ellison Hall

MENU: Braised Chicken Breast with Onions and Peppers, Fried Chicken, Herb Roasted Garlic Potatoes, Cornbread, Rolls, Butter, Carrot Cake, Chocolate Cake, Apple Pie, Coffee, Iced Tea
Note: a vegetarian option is available – request with your reservation

PRICE: Members/Guests - \$19.00
Students, High School Teachers/Spouses - \$10.00
Retired ACS Members/Spouses, Retired Teachers/Spouses - \$14.00

DINNER RESERVATIONS: Please make reservations for the dinner by **NOON on Tuesday, January 13** by calling (804) 257-5615 or e-mail to dneseonu@vuu.edu

HOST: Dr. Dorothy Eseonu, (804) 257-5615; dneseonu@vuu.edu

PROGRAM: **Distinguished Service Award - Dr. Joseph Crockett**
Industrial Leadership Award - Dr. David Giamalva

DISTINGUISHED SERVICE AWARD DR. JOSEPH CROCKETT



Joe Crockett is the Immediate Past Chair of the Virginia Section and a Professor of Chemistry at Bridgewater College in Bridgewater, Virginia. Joe is a graduate of Hampden-Sydney College (B.S. in Mathematics, 1973) and the University of North Carolina (Ph.D., 1979). He taught at Tulane University (1977-79) and at Baker University in Kansas (1979-85) before coming to Bridgewater in 1985. Joe has been active in the local section, serving as Vice Chair, Chair-Elect, and Chair during the period 1989-91 and again from 2011-2013. He has been a member of the Executive Committee since 1986, is currently serving a one-year term as an alternate councilor, and is chair of the Safety Committee. He has recently been named an associate member of the ACS Committee on Chemical Safety.

"Laboratory Safety: Past, Present, and Future"

We have seen the application of laboratory safety change over the past decades. Many senior chemists remember the days when many chemicals went down the drains, safety glasses and proper dress were not worn, and it was assumed that students and employees were "aware" of safety concerns. We have seen many changes in the teaching and handling of safety situations over the years and will have more changes based on individual initiatives, recent high-profile accidents, and the recent Harran court decision. We will be looking at how the teaching and performance of safety has changed for the better for our profession.

INDUSTRIAL LEADERSHIP AWARD DR. DAVID GIAMALVA



David Giamalva lived most of his early life in Baton Rouge, Louisiana. He completed a BS in Chemistry at LSU, an M.A. in Chemistry from The University of Texas at Arlington, and a Ph.D. in Physical Organic Chemistry from The University of Texas at Austin. David then went back to Baton Rouge as a Postdoctoral Fellow, then Research Assistant Professor at LSU with Dr. William A. Pryor. In 1988, he took a position at A.H. Robins in Richmond, Virginia. He has stayed with the same company through several mergers and a brief stay in Hammonton, New Jersey. David is now a Research Fellow with Pfizer Consumer Healthcare.

"Some 'New' Challenges in Cough/Cold Products Containing Phenylephrine"

Studies of chemical reactions occurring in pharmaceutical products have greatly expanded in the last decade. This is driven in part by improvements in analytical techniques, which have in turn changed industry standards. The "International Conference on Harmonization" (ICH) is an ongoing effort to harmonize pharmaceutical standards worldwide. ICH Q3B(R2) specifically addresses impurities in pharmaceutical products. Studies of the chemistry of phenylephrine in cough medicines illustrate some of challenges related to ICH Q3B(R2). Phenylephrine HCl (PE) is a decongestant found in many over-the-counter cough and cold medicines that has been in use for decades. Revisiting PE with improved methods and tighter requirements has led to some previously unseen and unexpected degradation products.

DIRECTIONS

From the North via I-95: Take Exit #76B for Belvidere Street. Turn right off Exit ramp to Leigh Street. Drive to 3rd stoplight and turn right onto Lombardy Street. Travel on Lombardy Street to the main campus (1/4 mile). Parking is available across from main campus in the Student Parking Lot.

From the South via I-95: Take Exit #76A. Turn right off Exit ramp onto Chamberlayne Avenue. When the road splits, bear left and go under the underpass to the second stoplight, which will be Lombardy Street. Make a left and the parking lot for visitors is next to the football field.

From the East via I-64: Take Exit #190 for Fifth Street and Downtown/Coliseum. Turn right at Broad Street. Follow Broad Street to Lombardy Street, approximately two miles. (Firestone, Amoco). Turn right onto Lombardy Street and follow to the main campus, approximately .2 mile. Parking is available across from main campus in the Student Parking Lot.

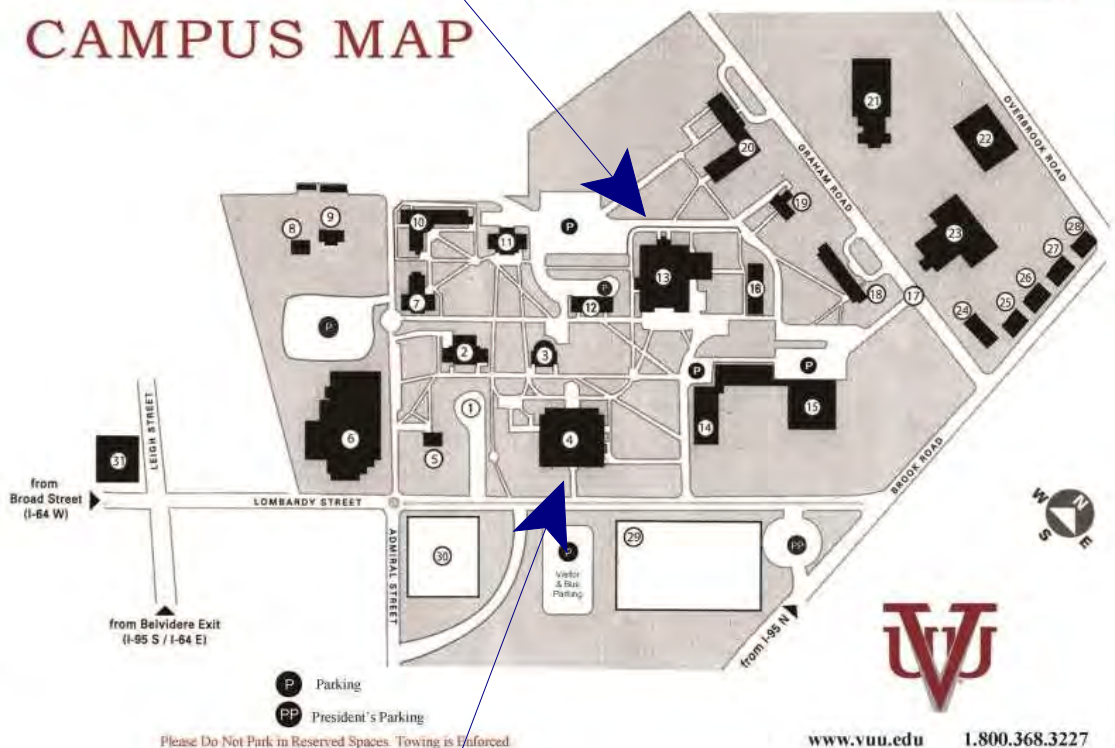
From the West via I-64: Take exit for I-95 South and I-64 East. Take Exit #76B for Belvidere Street. Turn right off Exit #76B ramp to Leigh Street. Travel to third stoplight and turn right to Lombardy Street. Travel on Lombardy to main campus. Parking is available in Student Parking Lot across from the main campus.

HENDERSON CENTER

Virginia Union University

CAMPUS MAP

- 1. Pickford Circle
- 2. Pickford Hall
President's Office
Campus Police
Academic Affairs
- 3. Coburn Hall
- 4. Ellison Hall
Financial Aid
Registrar
- 5. Baptist Memorial Building
- 6. L. Douglas Wilder Library
- 7. Kingsley Hall
School of Theology
- 8. Power Plant
- 9. Maintenance Building
- 10. Storer Hall
- 11. Martin E. Gray Hall
- 12. Huntley Hall
- 13. Henderson Center
Admissions Office
Student Affairs Office
- 14. Belgian Friendship Building
- 15. Barco-Stevens Hall
- 16. Hartshorn Hall
- 17. Main Entrance
- 18. Newman Hall
- 19. White Hall /Athletics
- 20. MacVicar Hall
- 21. Baptist General Convention of VA
- 22. Community Annex
- 23. Richmond Police Training Academy
- 24. University House #1
- 25. University House #2
- 26. University House #3
- 27. University House #4
- 28. University House #5
- 29. Hovey Field
- 30. Practice Field
- 31. C.D. King Hall
Human Resources
Institutional Advancement
Student Accounts
University Relations



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www.vuu.edu 1.800.368.3227

ELLISON HALL

WELCOME FROM THE PRESIDENT OF VIRGINIA UNION UNIVERSITY

The Virginia Section has received a letter of welcome from Dr. Claude G. Perkins, President and CEO of Virginia Union University. January marks the beginning of a year-long celebration of the 100th anniversary of the Virginia Section, while Virginia Union University is celebrating its 150th anniversary. Here is the text of Dr. Perkins letter.



“On behalf of the faculty, staff, and students of Virginia Union University, it is a pleasure to welcome the Virginia Section of the American Chemical Society to our historic campus. The Virginia Union family congratulates you on 100 years of promoting public awareness of chemistry through community outreach and working with chemistry and science students.

It is fitting that you have chosen Virginia Union as the site of your 100th Anniversary meeting as we are in the middle of our Sesquicentennial Celebration. We cordially invite you to visit our web site at www.vuu.edu and join us throughout the spring semester as our 150th Anniversary programming continues.

Virginia Union University's commitment to the sciences has been a part of its legacy for many years. VUU alumna Dr. Yvonne Maddox currently serves as a deputy director at the National Institutes of Health (NIH). Research chemist J. Harrison Ager retired from NIH after 40 years of service. Alumnus James Drew was one of the first African American scientists at the Franklin Institute in Philadelphia, Pennsylvania. Alumna Dr. Cora Marrett recently retired as deputy director of the National Science Foundation. Virginia Union is proud to recognize the contributions of its alumni who have chosen the sciences as a career path and we look forward to the exciting work that will be accomplished by our current students.

Again, we are so pleased that you have chosen Virginia Union for the site of your 2015 meeting. We hope that your work here is productive and Happy 100th Anniversary.”

FUTURE MEETINGS OF THE VIRGINIA SECTION

DATE: February 20, 2015
LOCATION: University of Richmond
Richmond, Virginia
HOST: Dr. Raymond Dominey
PHONE: (804) 289-8761
EMAIL: rdominey@richmond.edu
SPEAKER: **Dr. Joseph DeSimone**
TOPIC: “Breakthroughs in Imprint Lithography
and 3D Additive Fabrication”
(POWELL LECTURESHIP)



DATE: March 13, 2015
LOCATION: Randolph-Macon College
Ashland, Virginia
HOST: Dr. Serge Schreiner
PHONE: (804) 752-7206
EMAIL: sschrein@rmc.edu
SPEAKER: **Dr. Douglas Friedman**

DATE: April 18, 2015
LOCATION: University of Virginia
Charlottesville, Virginia
HOST: Dr. James Demas
PHONE: (434)924-3343
EMAIL: demas@virginia.edu
SPEAKER: **Mr. Nelson Ayala**
(UNDERGRADUATE RESEARCH POSTER SESSION)

VIRGINIA SECTION OFFICERS FOR 2015

CHAIR: **Dr. Todd Koch** (804) 257-2890
Pfizer Consumer Healthcare
P.O. Box 26609
Richmond, VA 23261
todd.koch@pfizer.com

CHAIR-ELECT: **Dr. Denise L. Walters** (804) 257-2828
Pfizer Consumer Healthcare
P.O. Box 26609
Richmond, VA 23261
denise.walters@pfizer.com

VICE CHAIR: **Dr. Colleen M. Taylor** (804) 524-5481
Department of Chemistry and Physics
Virginia State University
Petersburg, VA 23806
cmtaylor@vsu.edu

SECRETARY: **Dr. Christine Farthing*** (804) 257-2385
Pfizer Consumer Healthcare
P.O. Box 26609
Richmond, VA 23261
christine.farthing@pfizer.com

TREASURER: **Dr. Thaddaeus S. (Thad) Hannel** (804) 335-2552
Altria Client Services
601 E. Jackson Street
Richmond, VA 23219
Thaddaeus.Hannel@altria.com

*Dustin Haddenham was elected as Secretary of the Section for 2015. He has relocated outside of the Section and has resigned from his position as Secretary. Christine Farthing has been appointed to fill his term for 2015.

EXECUTIVE COMMITTEE MEETING

The Executive Committee of the Virginia Section will meet on **Saturday, January 17, 2015** at Pfizer Consumer Healthcare, 1211 Sherwood Avenue, Richmond, Virginia. All members of the section are invited to attend. For questions regarding the agenda and meeting, contact the 2015 Chair of the Virginia Section, Dr. Todd Koch, at (804) 257-2890, Todd.Koch@pfizer.com. Officers and committee chairs should prepare reports for posting on the Section website and for distribution at the meeting.

THE CHAIR'S CORNER

I wish a happy new year to the members of the Virginia Section and hope that everyone had a wonderful holiday season. I am looking to serving as Chair and hope to have a productive year working with the executive committee. With each new year, there are some changes in the section officers and I ask everyone to join me in thanking Scott Gronert for his excellent leadership as the section Chair last year. The section had a busy year leading activities for the Women Chemists Committee, Chemists Celebrate Earth Day, the Chemistry Olympiad, the Younger Chemists Committee and National Chemistry Week. Other changes in the section officers include Denise Walters who takes on the role of Chair-Elect and will be responsible for arranging the speakers for the meetings this year. I would also like to thank Dustin Haddenham for his service in the role of Secretary last year. Christine Farthing is taking over those duties. I would like to ask everyone to join me in thanking Stephanie Mabry for her years of service as the Treasurer for the section. Thaddaeus (Thad) Hannel is taking over those duties and we are also welcoming Colleen Taylor as the new Vice-Chair. Finally, thanks to Joe Crockett who completed his leadership cycle as Past Chair last year.

As we begin 2015, I have some goals that I would like to focus on. First I will continue the previous efforts to increase attendance at our section meetings and to encourage our members to become more active in section events, in addition to increasing the membership in the section. I will work with the executive committee to identify new opportunities to increase the engagement of our members.

Second, I would like to further the efforts of the past two years to improve the participation of the colleges and universities in our section. In order to achieve this I will collaborate with members of the executive committee to develop tools to help us understand the needs of these organizations and allow us to develop insights to meet those needs.

Third, I would like to expend some efforts to engage high school teachers and students as well as college students to help them understand the opportunities that exist for careers in the field of chemistry. As a section we have a collective wealth of experiences and I believe it is important that we find mechanisms to share these experiences with students to help them make informed career choices and to identify career options.

Finally, I would like to encourage all of our members to help the Virginia Section celebrate its Centennial Anniversary. It is only through the commitment of you, our volunteers and membership, that the section has excelled for the past 100 years and with your continued efforts that it will exist for many more. I would like to ask everyone to mark the dates for the meetings on your calendars and come out to meet your fellow members, to network and to make new friends.

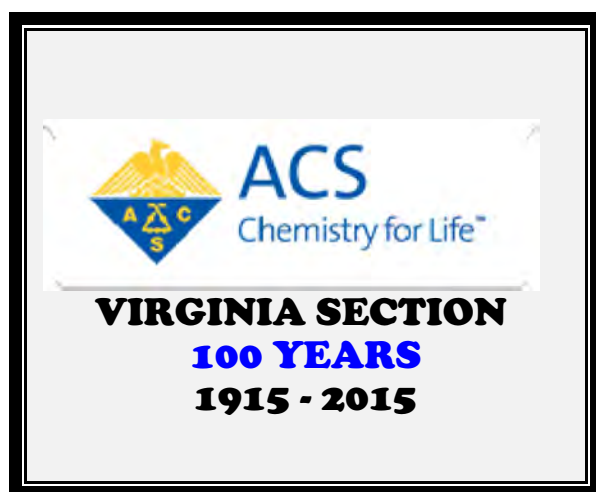
...Todd Koch, Virginia Section Chair for 2015

2015 CHEMISTRY OLYMPIAD

The Virginia Section will host the 2015 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 March, 2015 (**registration deadline is February 23**). 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 18 at James Madison University in Harrisonburg. Twenty students from across the U.S. will be selected to attend the study camp at the U.S. Air Force Academy in Colorado, June 2-17. Four of these students will be chosen to represent the U.S. at the 47th International Chemistry Olympiad in Baku, Azerbaijan, July 20-28. 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.

CENTENNIAL CELEBRATION FOR THE VIRGINIA SECTION



The American Chemical Society issued a charter to the Virginia Section in April, 1915. During 2015, the Section will celebrate its 100th anniversary. Special events are being planned. If you have ideas on ways to celebrate during our centennial year or would like to volunteer to assist in planning and executing the anniversary commemorations, please contact Dr. Todd Koch who is chairing an ad hoc committee for the centennial: todd.koch@pfizer.com; (804) 257-2890.

LOGO FOR 100th ANNIVERSARY

A logo is needed for the 2015 celebration of the 100th anniversary of the Virginia Section. The key components are the ACS, the Virginia Section, and 1915-2015. If you have ideas for the design of a logo or would like to undertake the design project, please contact Ann Sullivan: asullivan@reynolds.edu, (804) 523-5777.

HISTORY OF THE VIRGINIA SECTION

The last compilation of the history of the Virginia Section was completed by Dr. Allan Powell. It covered the period from the time of the formation of the Virginia Chemists Club in 1907 through the year 1990. That document was published in 1996 under the leadership of Larry White as *The Virginia Section of the American Chemical Society: The First Seventy-Five Years*. Soft bound copies are still available (contact Jim Beck at beckjd1977@comcast.net; (804) 733-5286) and the document is posted on the Virginia Section website. The Section is now working on an update to the history that will extend through 2015. Volunteers are needed to help with this effort. Here are some ways that you can assist:

- persons are needed to review and edit the new sections of the history;
- historical documentation is needed for the period 1990-2015 (earlier information would also be helpful);
- photographs of Section activities and key persons are welcome, especially for the 1990-2015 period (older photos may also be useful);
- ACS and Virginia Section memorabilia are solicited (awards, certificates, pins, programs, etc.);
- assistance is needed with an oral history project, including persons to conduct interviews and persons who are willing to be interviewed;
- reminisces, remembrances, personal comments, etc. about the Virginia Section are welcomed.

Larry White is heading up the History Committee that will be working throughout 2015. Contact him to make suggestions and to volunteer your assistance: Larry H. White, 4314 Sky Road, Harrisonburg, VA 22802; (540) 833-5270; lwhite@bridgewater.edu.

VIRGINIA ACADEMY OF SCIENCE CALL FOR PAPERS

The 93rd Annual Meeting of the Virginia Academy of Science will be held at James Madison University in Harrisonburg, May 21-23, 2015. The Chemistry Section session will be held on Friday, May 22. Oral and poster presentations will be made. Titles for presentations must be submitted to the Secretary of the Section by **February 6**. Dr. Thomas DeVore is the Secretary of the Chemistry Section: devoretc@jmu.edu. More information on the VAS meeting and procedures for submitting papers can be found on the VAS website: <http://www.vacadsci.org>.

CHEMISTRY SEMINARS AT THE UNIVERSITY OF VIRGINIA

- January 16 - **Professor Joan-Emma Shea**, University of California at Santa Barbara, "Effect of Surfaces in Modulating Protein Folding and Aggregation Mechanisms"
- January 23 - **Professor David Eddington**, University of Illinois at Chicago, "Microfluidics for Biology and Medicine"
- January 30 - **Professor Paul Hergenrother**, University of Illinois at Urbana-Champaign, "Anticancer Discovery from Simple and Complex Compounds"
- February 13 - **Professor Min Chen**, University of Massachusetts, "A Hole on the Membrane: Using Pore-forming Proteins to Attack and Sense"
- February 20 - **Professor Chris Arumainayagam**, Wellesley College, "The Role of Low-Energy (<20 eV) Electrons in Astrochemistry"
- February 27 - **Professor Steve Mayer**, University of Portland

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/>.

NATIONAL CHEMISTRY WEEK 2014



On October 25, 2014, the Virginia Section celebrated National Chemistry Week with a day of activities at the Science Museum of Virginia in Richmond. Dr. Kristine Smetana, Chair of the Virginia Section's Committee on Community Activities, organized the program of hands-on experiences for visitors to the Museum.

The theme of NCW-2014 was "The Sweet Side of Chemistry—Candy." Dr. Ann Sullivan and Dr. Will Lewis provided their usual fine support of the program and Ann's mother helped out. Numerous students from J. Sargeant Reynolds Community College, John Tyler Community College, and Virginia Union University assisted in presenting a positive image of chemistry. Thanks to Will Lewis for these photos of NCW at the Science Museum.



QUESTIONS FROM THE PAST

This question was asked in the December Bulletin: Door prizes were given at the Mixer that was held during SERMACS-91 in Richmond. Emma Goldman of U of R, Jerry Bass of VCU, Beth-Owens Waltermier of American Tobacco, and Linda Cao of DuPont each received a bottle of Virginia wine. **Who was the faculty member from VCU who won the grand prize, a Virginia ham?** Dr. Raymond Ottenbrite took home the Virginia ham.

A new question from the past: On February 8, 2008, a renowned theoretical chemist addressed the Virginia Section on "Antoine and Marie Ann Lavoisier." The speaker received the Nobel Prize in Chemistry in 1981 and the Priestley Medal from the ACS in 1990. **Who was this Powell Lectureship speaker?** Extra credit if you can give the source of his first name.

**CHEMISTRY DEPARTMENTS AT COLLEGES AND UNIVERSITIES
IN THE VIRGINIA SECTION**

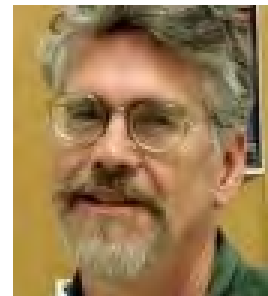
<u>School/Location</u>	<u>Department Chair/ Program Coordinator</u>	<u>Phone/E-mail</u>
Bridgewater College Bridgewater, VA 22812	Dr. Kenneth S. Overway	(540) 828-5727 koverway@bridgewater.edu
College of William & Mary Williamsburg, VA 23187-8795	Dr. Chris Abelt	(757) 221-2540 cjabel@wm.edu
Eastern Mennonite University Harrisonburg, VA 22802	Dr. Tara Kishbaugh	(540) 432-4665 Tara.kishbaugh@emu.edu
Hampden-Sydney College Hampden-Sydney, VA 23943	Dr. Herbert Sipe	(434) 223-6283 hsipe@hsc.edu
James Madison University Harrisonburg, VA 22801	Dr. Linette Watkins	(540) 568-6246 watkinlm@jmu.edu
Longwood University Farmville, VA 23909	Dr. Melissa Rhoten	(434) 395-2636 rhotenmc@longwood.edu
Mary Baldwin College Staunton, VA 24401	Dr. Karl Zachary	(540) 887-7117 kzachary@mbc.edu
Randolph-Macon College Ashland, VA 23005	Dr. Serge Schreiner	(804) 752-7206 sschrein@rmc.edu
Shenandoah University Winchester, VA 22601	Dr. Brett Kite	(540) 335-3401 bkite@su.edu
University of Mary Washington Fredericksburg, VA 22401	Dr. Leanna Giancarlo	(540) 654-1407 lgiancar@umw.edu
University of Richmond Richmond, VA 23173	Dr. Michelle Hamm	(804) 287-6327 mhamm@richmond.edu
University of Virginia Charlottesville, VA 22904-4319	Dr. W. Dean Harman	(434) 924-3060 wdh5z@virginia.edu
Virginia Commonwealth Univ. Richmond, VA 23284	Dr. Scott Gronert	(804) 828-1298 sgronert@vcu.edu
Virginia State University Petersburg, VA 23806	Dr. Grace Ndip	(804) 524-5064 gndip@vsu.edu
Virginia Union University Richmond, VA 23220	Dr. Dorothy Eseonu	(804) 257-5615 dneseonu@vu.edu

GRANTS FOR K-12 SCIENCE PROJECTS

The Virginia Section is soliciting proposals for grants to support school science projects in grades K through 12. The \$50 to \$500 grants will be provided to teachers in the Virginia Section for the purchase of materials and supplies. To apply for support, request an application form from Ryan Warren, 6001 Grove Avenue, Richmond, VA 23226; (804) 288-2804; warrencr @ vcu.edu. Or complete an application on-line by accessing the Virginia Section website at <http://www.virginia.sites.acs.org/> (click on Chemical Education under the About Us tab on the homepage).

CAN YOU IDENTIFY THIS PERSON?

He has given these three talks to the Virginia Section: "Spin, Symmetry, and Science in a State of Siege" (December, 1977); "Chemistry in Fiction: Electron Affinities to Gravity's Rainbow" (December, 1991); "The Conso-lations of (Natural) Philosophy: Or, Modeling a Life" (September, 2000). He served as Chair of the Virginia Section in 1977 and received the Section's Distinguished Service Award in 2000. He is now a Professor Emeritus of Chemistry at the University of Virginia.



The "Mystery Person" shown in the December Bulletin was **Dr. Matthew Neurock**, Alice M. And Guy A. Wilson Professor of Chemical Engineering at the University of Virginia.



ACS WEBINARS

ACS Webinars® is a free, weekly online event connecting ACS members with subject matter experts and global leaders in chemical sciences, management, and business. Each webinar is about 60 minutes in length, comprising a short presentation followed by a question and answer session. The live webinars are scheduled on Thursdays at 2 p.m. Recordings of past webinars are available online. For a schedule of upcoming events and more information on ACS Webinars, go to <http://acswebinars.org>. Here are a few upcoming webinars:

January 15 - **Rookie Lab Mistakes and Other Facts Not Found in Textbooks**

January 22 - **3D Printing: From Molecules to Manufacturing**

January 29 - **2015 Drug Design and Delivery Symposium**

February 12 - **Valentine's Day Chocolate**

February 19 - **Chemistry in the Courtroom: Demystifying Science for Judge and Jury**

BACK ISSUES OF THE BULLETIN

Did you miss the December Bulletin? It included the schedule of upcoming Section meetings, a farewell message from Scott Gronert (the 2014 chair of the Section), reports on the October and November meetings of the Section and on the WCC Career Discussion Panel, a notice of a job opening at the Virginia Division of Consolidated Laboratory Services in Richmond, and several other news items. You can find the December issue, along with all of the other Bulletin issues for 2014 and many earlier ones, on the Section website: <http://www.virginia.sites.acs.org/>. Click on The Bulletin at the top of the home page.

WORDS OF WISDOM FOR JANUARY:

*"GOOD WORDS ARE
WORTH MUCH AND COST LITTLE"*