

## SUMMER 2016 ISSUE

**VIRGINIA SECTION MEETING**  
**FRIDAY, SEPTEMBER 16, 2016**  
**EVONIK INDUSTRIES**  
**BUSINESS INNOVATION CENTER**  
**RICHMOND, VIRGINIA**

Dr. Justin Heuser, Evonik Industries  
"Surfactants in Agriculture"

Laboratory Tours

Presentation of Teacher Awards



The September meeting will feature the presentation of the Section's annual awards to outstanding teachers. Here are the three 2016 recipients.



**The Franklin D. Kizer Distinguished High School Chemistry Teacher Award:**

**Maria Klein**

Clover Hill High School, Chesterfield County

**The Distinguished Middle School Science Teacher Award:**

**Lisa Winn**

Thornburg Middle School, Spotsylvania County



**The Distinguished Elementary School Science Teacher Award:**

**Lynette Bates**

Wakefield School, The Plains

**\*\*\* VIRGINIA SECTION NEWS \*\*\*****THE CHAIR'S CORNER**

It's summertime in Virginia! I hope that everyone is enjoying vacations and summer fun. Don't forget that chemistry touches our lives every day, even in the midst of our summer fun.

In June, I danced at a powwow on the Mattaponi reservation. I decided to substitute my ACS blanket for the standard dance shawl since it represents who I am and it matched my dance outfit nicely. The head lady dancer noticed the blanket and came over to introduce herself. Imagine my surprise to find out that our head lady dancer, Dorothy Gray, works for the American Chemical Society. What an unexpected networking opportunity!

Yesterday I stopped by the library to pick up a few books on CD. I usually sign up for the Henrico County reading contest hoping that I will win a prize for summer reading. I listen to recorded books in the car while traveling and read printed books at home. I found a recorded copy of "The Disappearing Spoon" by Sam Kean. We have been giving this book to our Virginia Section Outstanding Student Award winners for the last few years, but I never got around to reading the book myself. Needless to say, I snapped up the CD set and am listening to it now.

While many of us are enjoying our summer fun, our section members have been busy. The WCC gathered in June for a glassblowing demonstration and happy hour. The Strategic Planning committee received a Leadership Grant to help with the costs of a Two Day Strategic Planning Event coming this fall. The YCC has been working hard on planning an October joint career day event with the Tidewater section and the members of Minority Affairs Committee pulled together a successful submission for a new SERMACS Partners for Prosperity Award. Thanks to their efforts, our section is the first recipient of this award. This section has so much energy that I can barely keep up!

Don't forget that chemistry surrounds us. From the chemistry associated with the green trees and clear (or not so clear) waters at the beaches you are likely frequenting, to the sunscreen that I hope you are all using while enjoying the great outdoors, chemistry touches us every day. Have a great chemistry filled summer and get ready for an exciting fall line up!

...Denise Walters, 2016 Section Chair - [denise.walters@pfizer.com](mailto:denise.walters@pfizer.com)

**SECTION MEETINGS - FALL, 2016**

**September 16, 2016** - Evonik Industries, Richmond

**PRESENTATION OF TEACHING AWARDS**

**October 14, 2016** - Bridgewater College, Bridgewater

**November 2016** - University of Mary Washington, Fredericksburg (date pending)

## REPORT ON THE APRIL MEETING OF THE VIRGINIA SECTION

The April 15 meeting of the Virginia Section, held at the University of Virginia in Charlottesville, featured an undergraduate research poster session and awards to outstanding college and university students. Jim Demas and Cindy Knight from UVA organized the annual poster session, with 32 papers presented by students from nine different colleges and universities. This marked the 29<sup>th</sup> consecutive year of the Poster Session that highlights undergraduate student research. Posters were presented by students from Bridgewater College, Hampden-Sydney College, Longwood University, the University of Mary Washington, the University of Virginia, Virginia Commonwealth University, Virginia Military Institute, Virginia State University, and Virginia Union University. The authors and titles for the 32 posters are given below. There were seven papers from UVA, six from Longwood, and five from UMW. Alpha Chi Sigma gave monetary awards to three students for their outstanding posters (see article below).

**Dr. Denise Walters**, Chair of the Virginia Section, presided at the meeting. She presented awards to outstanding senior chemistry majors (see list below) from colleges and universities within the Section. Each student received a certificate and a copy of Sam Kean's book, "The Disappearing Spoon." Chichi Li from the University of Virginia introduced **Dr. Barbara Jill Venton**, the speaker for the evening. Professor Venton's topic was "Using Analytical Tools to Explore Brain Chemistry." She described the development of new analytical methods to measure neurotransmitters in the brain. **Dr. Colleen Taylor**, Chair Elect of the Section, presented Dr. Venton with an engraved Jefferson Cup in appreciation of her talk. Dr. Walters gave an ACS award for volunteer activity to Dr. Taylor.

The Section thanks **Dr. James Demas** and **Ms. Cindy Knight**, along with their UVA colleagues and students, for organizing this outstanding meeting. Thanks also to Dr. Demas for his photographs of the evening. They can be found at this sharable link:

<https://drive.google.com/open?id=0B2vNlvP8yo4XQWc0djhKUnFUWIk>.





## AWARDS FOR POSTER PRESENTATIONS

The Alumni Advisory Board of the Alpha Kappa Chapter of Alpha Chi Sigma presented awards to three students at the Poster Session, held on April 15 at the University of Virginia meeting. The awards were presented by **Dr. Amrie Grammer**, co-founder of AMPEL BioSolutions, LLC and President of the Alpha Kappa Alumni Advisory Board. The awards were established to honor the late father of **Berk Ekmeckci**. Berk is an Echols Scholar at the University of Virginia and a member of Alpha Chi Sigma. The awards are called the Ozgur Ekmeckci Awards for Excellence in Chemistry. **Ozgur Ekmeckci** was a lifelong scholar who died tragically in 2015 at the age of 51. His teaching and mentoring impacted many lives. The Ozgur Ekmeckci Awards were made possible by donations from several anonymous donors and AMPEL BioSolutions. The 2016 award winners were selected by a panel of judges who examined the posters and interviewed the presenters. The winners were

First Prize (\$400) - **July Laszakovits**, the University of Mary Washington, "Effect of pH on the wavelength dependence of hydrogen peroxide quantum yields from dissolved organic matter" (Charles Sharpless, mentor)

Second Prize (\$300) - **Youlim Ha**, the University of Virginia, "Chemical Approaches for site-specific modification of proteins" (Ken Hsu, mentor)

Third Prize (\$200) - **Lonnie Harris**, the University of Mary Washington, "Enzymatic resolution of the enantiomers of 2-ethyl-1-hexanol" (Davis Oldham, mentor)



**Jim Demas, Amrie Grammer, and July Laszakovits**



**Youlim Ha, Jim Demas, and Amrie Grammer**



**Youlim Ha, Lonnie Harris, and July Laszakovits**



**Lonnie Harris (center) with the panel of judges**

## OUTSTANDING CHEMISTRY GRADUATES

At the April meeting, the Virginia Section recognized graduating seniors from colleges and universities within the Section. Schools in the Virginia Section were invited to nominate senior chemistry majors for this honor. Each student received a Certificate of Recognition and a copy of Sam Kean's book, "The Disappearing Spoon." Here are the outstanding students for the year 2016:

<u>College/University</u>	<u>Student</u>
Bridgewater College	Caleb Quinn
College of William & Mary	Marshall Scott Padilla
Eastern Mennonite University	Charles Good
Hampden-Sydney College	Dane R. C. Asuigui
James Madison University	Kathleen Krist
Longwood University	Sam King
Mary Baldwin College	Alana Rister
Randolph-Macon College	Sarita Hough
Shenandoah University	Christopher Ciszek
University of Mary Washington	Lonnie Harris
University of Richmond	Boyi Zhang
University of Virginia	Rasia (Chichi) Li
Virginia Commonwealth University	Logan Wilder
Virginia State University	Brianna Griffin
Virginia Union University	Nhat Lee

### **VIRGINIA ACADEMY OF SCIENCE FALL UNDERGRADUATE RESEARCH MEETING**

Saturday, October 29, 2016  
9:00 am - 4:00 pm

VIRGINIA UNION UNIVERSITY  
Richmond, Virginia

**more information: [www.vacadsci.org](http://www.vacadsci.org)**

## CAREER EVENT FOR STUDENTS AND PROFESSIONAL CHEMISTS



On Saturday, October 1, 2016, the Virginia Section Younger Chemists Committee (YCC) will be hosting a career event. The event will be taking place at the College of William and Mary, located in Williamsburg. This event is tailored to both students and professional chemists. Activities will include a networking lunch, a career panel Q&A, breakout sessions, and a career expo. Registration for the event will be open this fall. In the meantime, your participation in a brief survey will help us better tailor this event to the needs of ACS members:

<https://www.surveymonkey.com/r/viginiaacscareerdevelopmentworkshop>. If you have any questions, please contact the YCC Chair, **Heather Lourenco**, [heathernlourenco@gmail.com](mailto:heathernlourenco@gmail.com).

Volunteers are needed in several areas:

- Set up for the event and clean up afterwards
- Help with registration
- Participating in breakout sessions (2 volunteers needed for each session)
  - o One-on-one Q&A sessions
  - o Interviewing tips and tricks
  - o Other topics

If you are interested in volunteering or hosting a breakout session/seminar, please contact the YCC Co-Chair Rhonda Butts-McGee at [Rhonda.butts7@gmail.com](mailto:Rhonda.butts7@gmail.com).

## VIRGINIA SECTION IS FINALIST FOR THREE CHEMLUMINARY AWARDS

The American Chemical Society presents special awards to local sections and divisions. This year, the Virginia Section has been selected as a finalist for three of the ChemLuminary Awards:



- ◇ Most Creative National Chemistry Week Activity Using the Yearly Theme;
- ◇ Outstanding On-Going Chemists Celebrate Earth Day Event;
- ◇ Best Overall Local Section Minority Affairs.

The awards will be presented on August 23 at the ACS national meeting in Philadelphia. The Virginia Section has won 14 ChemLuminary Awards since their inception in 2002. Also, the Section has received three Phoenix Awards (the predecessors of the ChemLuminary awards) and two "Best Local Section" awards (1969 and 1988).



## STRATEGIC PLANNING FOR THE VIRGINIA SECTION



The Virginia Section is undertaking a long-term strategic planning project. The goal is to develop a plan that will align the activities of the Section with the vision, mission, and strategic plan of the national ACS. The ACS has provided funds through a Leadership Grant to assist with the development of a new strategic plan. The 15 members of the Strategic Planning Committee will meet on September 10 and 11 to initiate the strategic planning process.

As part of this effort, a brief survey will be distributed by the ACS Research Team to Section members via email. The results will be used to better understand the needs and preferences of Section members. All members are asked to take a few minutes to respond to the survey questions. Your opinions are important! For more information on the Strategic Planning Committee or to provide input into the planning process, contact **Dr. Denise Walters**, Chair of the Section: (804) 257-2828; [denise.walters@pfizer.com](mailto:denise.walters@pfizer.com).

### CHEMISTS CELEBRATE EARTH DAY (CCED)

The 2016 celebration of Earth Day in the Virginia Section was held on April 23 as part of RVA Earth Day in Richmond. **Dr. Kristine Smetana**, Chair of the Community Activities Committee for the Section, organized the activities which included fossils, energy, chromatography butterflies, recycling, and kaleidoscopes. **Dr. Ann Sullivan** provided assistance as did volunteers from Virginia State University, the Appomattox Regional Governor's School, Pfizer, J. Sargeant Reynolds Community College, and John Tyler Community College. Thanks to all who helped with this sharing of chemistry with the community.



Mickey and Minnie attended the RVA Earth Day event and posed with some of the Virginia Section volunteers.

### VIRGINIA SECTION OFFICERS

Are you interested in serving on the Executive Committee for the Virginia Section or in being a candidate for one of the Section offices? Or do you know of other Section members who would be willing to serve? If so, contact **Dr. Todd Koch**, Chair of the Nominations Committee: (804) 257-2890; [todd.koch@pfizer.com](mailto:todd.koch@pfizer.com). The Executive Committee meets twice a year to set general policy and direction for the Section and to develop the Section's budget. The Section is soliciting candidates for the offices of Treasurer, Secretary, and Vice Chair and for the positions of Councilor, Alternate Councilor, and Trustee. Volunteers are needed to keep the Section strong and active.

## VIRGINIA SECTION TO RECEIVE NEW SERMACS AWARD



**SERMACS 2016**  
October 23-26, 2016 • Columbia, SC  
[www.sermacs2016.org](http://www.sermacs2016.org)



The Virginia Section of the ACS and NOBCCChE (the National Organization for the Professional Advancement of Black Chemists and Chemical Engineers) will receive a **Partners for Progress and Prosperity (P3) Award** from SERMACS (The Southeastern Regional Meeting of the ACS). This is a new award designed to encourage and recognize successful and exemplary partnerships that have demonstrated an impactful outcome within the Southeastern Region. The partnership can be between industry, academia, government, small business and/or other organizations, including ACS local sections, ACS divisions, ACS international chapters, other societies, or various entities domestic or overseas. More information on the award can be found at <http://www.sermacs.org/awards/P3%20Award.html>.

The award to the Virginia Section and NOBCCChE is for their collaboration during 2015. On April 17, 2015, the Minority Affairs Committee of the Virginia Section and NOBCCChE co-sponsored a workshop at the University of Virginia. The session on “Branding Yourself for Academic and Professional Success in STEM,” was targeted at college students within the Section. **Ms. Talitha Hampton**, a project manager at AstraZeneca and now the national President of NOBCCChE, led the workshop. **Dr. H. Hyacinthe Yarabe**, who was Chair of the Minority Affairs Committee for the Virginia Section in 2015, organized the workshop that was attended by students from several colleges and universities. The Virginia Section continues its collaboration with NOBCCChE.

The P3 Award consists of a special Partners for Progress and Prosperity silver/gold medallion, framed certificates of recognition for the Section and NOBCCChE, and a \$500 grant for each organization. The award will be presented at the 2016 SERMACS meeting, to be held October 23-26 in Columbia, South Carolina. SERMACS will provide complimentary registration to the meeting and a ticket to the Awards luncheon for a representative of each organization. The application for the award was prepared by **Dr. Colleen Taylor**, **Dr. Karl Jackson**, and **Dr. Hyacinthe Yarabe**, in cooperation with **Ms. Talitha Hampton-May** of NOBCCChE.

## WCC EVENT AT RESEARCH GLASS

The Women Chemists Committee organized a glass blowing demonstration on Thursday, June 2, 2016 at Research Glass in Richmond. About a dozen members and students attended the demonstration given by glass blowers **Mert Felts** and **John Bivins**. The demonstration included a discussion of the different types of glass used, techniques used to make different effects in glass, and examples of laboratory glassware for various applications. The process for making hand-blown glass Christmas tree ornaments was presented, with each attendee receiving an ornament as a souvenir. The WCC would like to thank **Research Glass** for their generous hospitality in hosting this event.





## **NEW FIFTY-YEAR MEMBERS OF THE ACS**

Congratulations to these members of the Virginia Section who have been active in the American Chemical Society for fifty years:

<b>FIFTY-YEAR ACS MEMBER</b>	<b>LOCATION</b>
<b>Dr. Patrick George Barber</b>	<b>Keysville</b>
<b>Mr. Anthony Paul Bimbo</b>	<b>Kilmarnock</b>
<b>Dr. Charles V. Breder</b>	<b>Gainesville</b>
<b>Dr. Cipriano Cipriani</b>	<b>Haymarket</b>
<b>Mr. Max Donald Hillman</b>	<b>Mechanicsville</b>
<b>Dr. Alan Ray Hochstetler</b>	<b>Williamsburg</b>
<b>Mr. James Edward Klijanowicz</b>	<b>Williamsburg</b>
<b>Dr. David E. Kranbuehl</b>	<b>Williamsburg</b>
<b>Dr. Halvar Loken</b>	<b>Roseland</b>
<b>Dr. Armen Paul Melikian</b>	<b>Williamsburg</b>
<b>Mr. Roy W. Plunkett, Jr.</b>	<b>Powhatan</b>
<b>Dr. David A. Rowley</b>	<b>Fredericksburg</b>
<b>Dr. G. P. Royer</b>	<b>Upperville</b>
<b>Dr. Donald Douglas Shillady</b>	<b>Ashland</b>
<b>Dr. Eugene L. Slagowski</b>	<b>Williamsburg</b>
<b>Dr. William Boone Woods, Jr.</b>	<b>Weyers Cave</b>

## **NEW SIXTY-YEAR MEMBERS OF THE ACS**

Congratulations to these members of the Virginia Section who have been active in the American Chemical Society for sixty years:

<b>SIXTY-YEAR ACS MEMBER</b>	<b>LOCATION</b>
<b>Mr. William Frederick Kuhn</b>	<b>Midlothian</b>
<b>Dr. Joseph Thomas Leonard</b>	<b>Gainesville</b>
<b>Dr. Beverly Ann Pawson</b>	<b>Charlottesville</b>
<b>Dr. H. J. L. Schuurmans</b>	<b>Richmond</b>

## ***DENISE AND BEN WALTERS APPEAR IN FILM***

If you go to the Virginia Historical Society in Richmond, be sure to see the film *Virginia Voices* that relates the story of Virginia as told by everyday Virginians. In the movie, you will see **Denise Walters**, Chair of the Virginia Section, and her son **Benaiah (Ben)** in a canoe on the Nottoway River, as part of a segment on native Americans in Virginia.



Denise and Ben are active members of the Nottoway Indian Tribe of Virginia. Their Nottoway heritage comes from Denise's father's side of the family. Their ancestral home is in Southampton County, Virginia. In the film, Ben and Denise share their love of the Nottoway River. The tribe has an annual Clean River Day each spring, removing litter from a section of the Nottoway that is designated as a "Virginia Scenic River."

The flute music that accompanies their canoe trip in the film is an original composition by Ben and is played by him on a traditional flute that he made. He has produced a CD of his flute music, entitled "Daybreak." Ben is a third-year engineering student at the University of Virginia.



Denise is the activities director for the Nottoway Tribe. They schedule workshops and classes that focus on traditional art, crafts, music, dance, and history. These are held at the Tribe's Community House and Interpretative Center on Main Street in Capron. The Center is usually open for visitors from 10:00 until 4:00 on the first Saturday of each month. Denise is also a Women's Traditional dancer and performs at the tribe's annual Pow Wow. This year's event will be held on September 17 and 18 at the Surry County Parks and Recreation Center in Surry, Virginia. For more information on the Nottoway Indian Tribe of Virginia, check their website: <http://www.nottowayindians.org>.

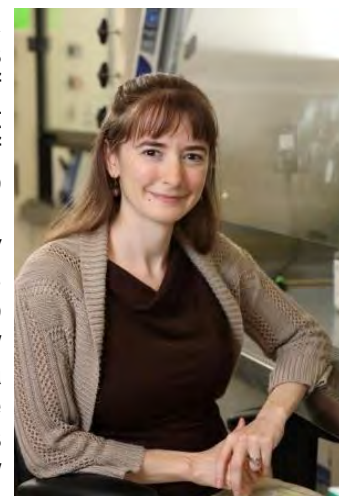
*Virginia Voices* is shown at the Historical Society every hour on the hour between 10:00 a.m. and 4:00 p.m. The Society building is located at 426 North Boulevard in Richmond. They are open daily from 10:00 to 5:00, admission is free, and there is free parking on site. More information can be found on their website: <http://www.vahistorical.org>.

## ***EMERITUS MEMBERSHIP IN ACS***

Emeritus membership is available to ACS members with 35 years or more of paid membership who are at least 70 years old and are retired from full-time employment. Emeritus members receive free ACS membership and other benefits, including C&EN. Emeritus membership must be renewed each year. To renew your membership or apply for emeritus status, contact Member Services at (800) 333-9511 or (614) 447-3776 or by e-mail to [service@acs.org](mailto:service@acs.org). Or go online to [www.renew.acs.org](http://www.renew.acs.org).

## NEW CHAIR OF GOVERNMENT AFFAIRS COMMITTEE

Dr. Denise Walters, Chair of the Virginia Section, has appointed **Dr. Rebecca Rose Pompano** to be Chair of the Section's Government Affairs Committee. Dr. Pompano is an Assistant Professor in the Department of Chemistry at the University of Virginia. She completed a BS in Chemistry at the University of Richmond (2005) and a PhD (2011) at the University of Chicago. Her graduate work focused on developing microfluidic devices to manipulate blood clotting, and was funded by the NSF Graduate Research Fellowship program. In her postdoc, she developed new non-inflammatory vaccines using chemically-defined nanoparticles. At UVA, Dr. Pompano's research interests center on developing microfluidic and chemical assays to unravel the complexity of the immune response and inform new immunotherapies. She teaches the honors General Chemistry Lab and a graduate course, Bioanalytical Methods. She served as Treasurer of the University of Chicago Postdoctoral Association for two years, and chair of its Public Affairs committee for one year. As a 2014-2015 Public Policy Fellow for the American Association of Immunologists, she traveled to Capitol Hill to advocate for greater funding for biomedical research. She looks forward to being more involved with the Virginia Section. Her father, **Dr. Joseph Pompano**, served as chair of the Virginia Section in 2005 and received the Distinguished Service Award in 2013. He also was the General Chair for SERMACS 2011 that was held in Richmond.

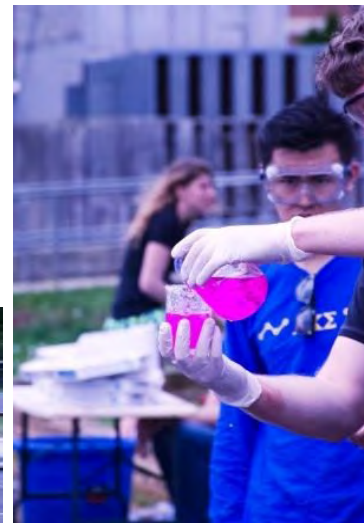


## CHEMFEST AT THE UNIVERSITY OF VIRGINIA



The Alpha Chi Sigma chapter at the University of Virginia holds an annual event to present chemistry to the community. The 2016 CHEMFEST was held in April. Rainy weather held down the attendance but did not dampen the enthusiasm of the students who volunteered their time or of the folks who participated. **Dr. James Demas** contributed these photos from CHEMFEST 2016. More photos can be found at:

<https://drive.google.com/open?id=0B2vNlvP8yo4XNVpoUzYxUi1CMFU>



WORDS OF WISDOM FOR THE SUMMER: "The Measure Of A Person Is What He or She Does With Power"





# SERMACS 2016

October 23-26, 2016 • Columbia, SC

[www.sermacs2016.org](http://www.sermacs2016.org)



Ready to Submit your Abstract, Click below

[ABSTRACT SUBMISSION LINK](#)

Abstract Deadline August 15, 2016

[Make your Hotel Reservation NOW](#)

Reserve a room at one of the following hotels and reference the Group Code - ACS  
 Hilton Columbia Center @ \$159.00 Hampton Inn Columbia @ \$155.00

## CALL FOR GENERAL PAPERS AND POSTERS

*Share your knowledge and your expertise*

### SERMACS 2016 will feature NOTABLE SPEAKERS

Martin Chalfie - 2005 Nobel Chemistry Laureate Scholars

Harry Gray - 1991 Priestley Medal

Miguel Garcia-Garibay - 2015 ACS Arthur C. Cope Scholar

Will Dichtel - 2013 Cope Scholar and 2015 MacArthur Genius Award

Luis Campos - 2016 ACS Arthur C. Cope Scholar

### Partial List of Session Topics

Additional topics are listed on the [SERMACS 2016 website](#)

Advances in Forensics Chemistry...Chemical Applications of Chemometrics...  
 Cutting Edge of Biological Inorganic Chemistry... Structural & Functional Characterization of Proteins  
 Catalysis & Biocatalysis...Electrocatalysis ...Structure-Property-Relationship of Nanoscale Materials  
 Reform Pedagogy in Undergraduate Chemistry...Dynamics of Molecular Processes:  
 Theory, Simulations, Insight Electronic Structure: Concepts & Applications  
 Emerging Environmental Contaminants...Finding Solutions to Environmental Challenges in Agriculture  
 Small-Molecule Inorganic Chemistry in the Southeast: Honoring Jerome Odom  
 Metal Complexes of Scorpionate & Related Ligands ...Nuclear Power & Safety  
 Asymmetric Chemistry throughout the Southeast ...Supramolecular Assemblies & Metal-Organic Frameworks  
 Cope Symposium: Molecules to Functional Supramolecular Materials  
 New Chemistry Toward Functional Polymeric Materials ...Scattering Measurements of Polymers & Nanomaterials

**Contact: Scott Goode ([SRGOODE@mailbox.sc.edu](mailto:SRGOODE@mailbox.sc.edu))**

## **VOLUNTEERS SOLICITED FOR A PROJECT-BASED LEARNING PROJECT**

**Ken Chapman**, who teaches chemistry at The Carmel School in Ruther Glen, Virginia, is developing a pre-college program that involves project-based learning. He is identifying projects for his chemistry students for the Spring Semester. Ken is soliciting STEM Catalysts (non-academic science/engineering/technology employed experts) who are willing to assist in this program. If you would like more information on this program or would like to volunteer your assistance, contact Ken at [kchapman@thecarmelschool.org](mailto:kchapman@thecarmelschool.org). Ken has been very active in the ACS and in the Virginia Section; he is currently Chair of the Entertainment Committee. One of his duties is checking members in at Section meetings and collecting money for dinners. He is responsible for the name tags that everyone wears at meetings.

## BARBARA REISNER NAMED ASC FELLOW



**Dr. Barbara A. Reisner**, Professor of Chemistry at James Madison University, has been designated a 2016 Fellow by the American Chemical Society. She holds an A.B. degree from Princeton University and a Ph.D. from the University of California at Berkeley and has been on the faculty at JMU since 2000. An inorganic chemist, she has been active in the ACS Division of Inorganic Chemistry and has been recognized for her contributions to undergraduate education. She initiated the Division's Undergraduate Award in Inorganic Chemistry and the Foundations of Inorganic Chemistry Exam. In 2013, she received the Distinguished Teaching Award from the JMU College of Science and Mathematics.

The ACS began the fellows program in 2009 as a way to recognize and honor ACS members for outstanding achievements and contributions to science, the profession, and the ACS. Dr. Reisner is one of 57 new Fellows who will be recognized in August at the ACS national meeting in Philadelphia. She joins these Virginia Section members who are ACS Fellows: R. Gerald Bass, Erik Fernandez, Raphael Martin Ottenbrite, Carol A. Parish, Jeffrey I. Seeman, Linette Watkins, and Kenneth J. Wynne.

### PAPERS PRESENTED AT THE UNDERGRADUATE RESEARCH POSTER SESSION - UNIVERSITY OF VIRGINIA, APRIL 15, 2016

Adeel Ahmad, Van Do, Taylor Harris, Mary Laliberte, Zane Laughlin, Itohan Omorodion, Danny Wang, Matthew Cline, Carol Price, and Linda Columbus - Department of Chemistry, University of Virginia

#### **Investigation of the Substrate Recognition Mechanism of *T. maritima* Aspartate Aminotransferase: Mutagenesis at S125N**

Morgan Angotti, Holly Morcos, Bradley Mason, Bryan Pitt, Akash Pandit, Carol Price, Linda Columbus, and Thushani Nilaweera - Department of Chemistry, University of Virginia

#### **Decreased Activity of the Aromatic Aminotransferase Y69F with Phenylalanine Substrate**

Bridget Bergquist, Kaelyn Jefferson, and Andrew Yeagley - Department of Chemistry, Longwood University  
**Investigating the Relationship between the Antimicrobial and Estrogen Receptor Binding Properties for 3,5-Substituted Parabens**

Joshua D. Bollinger and Ian J. McNeil - Department of Chemistry, Bridgewater College

#### **Characterizing the Effect of Applied Bias on Dye Sensitized Solar Cell Performance**

Olivia Colella, Tanya Roach, and Sarah Porter - Department of Chemistry and Physics, Longwood University

#### **Using Biological Organisms as Chemical Sensors: MicroboCop Parts I and III**

Karter Couser and Karl T. Jackson - Department of Chemistry, Virginia Union University

#### **Green Chemistry and Fish**

Jack Cronk, Ahmet Yildirim, Zach Davis, Tim Kearney, Jacob Woodroof, Yuri Kim, Thushani Nilaweera, Carol Price, Cameron Mura, and Linda Columbus - Department of Chemistry, University of Virginia

#### **Successful Characterization of Kinetic Parameters of TM1131 from *Thermatoga maritima***

Margaret Daly, Christopher A. DeRosa, Caroline Kerr, William A. Morris, Carl Trindle, and Cassandra Fraser - Department of Chemistry, University of Virginia

**Blue Thermally Activated Delayed Fluorescence from a Twisted Difluoroboron  $\beta$ -diketonate**

Daniel S. Feivor and Ellen M. Mitchell - Department of Chemistry, Bridgewater College

**Progress Toward the Synthesis of an  $\alpha$ - $\beta$ - $\beta$ - $\gamma$ -meso-substituted Asymmetric Porphyrin**

Shelby Furman, Hailey Kintz, Jonathan Bietsch, Tim McCoy, and Andrew Yeagley - Department of Chemistry, Longwood University

**Preparing and Screening Brominated Phenols - An Organic Laboratory Experience**

Andres H. Garcia and Herbert J. Sipe - Department of Chemistry, Hampden-Sydney College

**Fast-flow Electron Spin Resonance (ESR) Spectroscopic Studies of Phenoxyl Radicals of BPA Analogs**

Brianna Griffin, Mark Love, Hua Shen, Daniel Stoelting, and Godwin O. Mbagwu - Department of Chemistry and Biology, Virginia State University

**Antimicrobial Activity of Silver-Silica-Doped Titania Nanocomposite Thin Films Prepared by Sol-Gel Approach**

Youlim Ha and Ku-Lung (Ken) Hsu - Department of Chemistry, University of Virginia

**Chemical Approaches for Site-specific Modification of Proteins**

Daniel Y. Pharr and Gabriel F. Hammock - Department of Chemistry, Virginia Military Institute

**Fluorescence Analysis of Zirconium using Quercetin in Sodium Dodecyl Sulfate**

Lonnie Harris and Davis Oldham - Department of Chemistry, University of Mary Washington

**Enzymatic Resolution of the Enantiomers of 2-ethyl-1-hexanol**

Conor T. Hogan<sup>1</sup>, Tappey Jones<sup>1</sup>, Mariya Zhukova<sup>2</sup>, Jeffery Sosa-Calvo<sup>3</sup>, and Rachelle M. M. Adams<sup>4</sup> -

<sup>1</sup>Department of Chemistry, Virginia Military Institute, <sup>2</sup>University of Copenhagen, <sup>3</sup>Smithsonian Department of Entomology, <sup>4</sup>Department of Evolution, Ecology, and Organismal Biology, Ohio State University

**Novel Mandibular Gland Volatiles in the *Apterostigma pilosum* Species Group**

Kimberly Kerns, Samuel Clark, and Randall Reif - Department of Chemistry, University of Mary Washington

**Optimization of RNA Selex Parameters**

Andrew A. Yeagley, Benjamin J. Topham, Sarah E. G. Porter, and Sam King - Department of Chemistry and Physics, Longwood University

**Tautomerization in Drug Design: The study of an Imine-amine Pair Using Spectroscopy, Chemometrics, and Quantum Theory**

Hailey Kintz, Shelby Furman, Jonathan Bietsch, Tim McCoy, and Andrew Yeagley - Department of Chemistry, Longwood University

**Investigating the Antimicrobial Properties of Brominated Parabens - An Organic Laboratory Experience**

Angelo A. Kirchon and Daren J. Timmons - Department of Chemistry, Virginia Military Institute

**The Impact of Flavone Modification on Liquid Crystalline Properties**



July Laszakovits and Charles M. Sharpless - Department of Chemistry, University of Mary Washington  
**Effect of pH on the Wavelength Dependence of Hydrogen Peroxide Quantum Yields from Dissolved Organic Matter**

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