



The Bulletin
of the
Virginia Section
AMERICAN CHEMICAL SOCIETY

SEPTEMBER MEETING NOTICE

● TEACHER AWARDS ●

*Virginia Commonwealth University
Richmond, Virginia*

Friday, September 18, 2015

RECEPTION: 5:30 p.m.
Rodney's
Shafer Court Dining Center
810 Cathedral Place

PROGRAM: 7:00 p.m.
Room 1107 (Auditorium), Academic Learning Commons (MCALC)
1000 Floyd Avenue

MENU: Heavy Hors-d'oeuvres (many kinds, hot and cold), Cookies, Brownies,
Lemon Bars, Cream Puffs, Iced Tea, Beer and Wine

PRICE: Members/Guests - \$17.00; Students, High School Teachers and
Spouses - \$9.00; Retired ACS Members and Spouses, Retired
Teachers and Spouses - \$12.00

RESERVATIONS: Please make reservations by **4:00 p.m. on Friday, September 11**
by calling Rhea Miller at (804) 827-0352 or by e-mail to
rmiller3@vcu.edu

HOST: Dr. Scott Gronert, (804) 828-1298, chemistry@vcu.edu

SPEAKER: Dr. Kate Yu, Waters Corporation, Milford, MA

TOPIC: "Detecting the Unnatural in Natural Products—
Adulteration of Herbal and Dietary Supplements (HDS)"

SEPTEMBER 2015

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					meeting	
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Dr. Kate Yu



Dr. Yu is a Senior Manager of Pharmaceutical Business, leading a team at Waters that is responsible for driving the Waters global business for Natural Products.

After she joined Waters in 1998, Dr. Yu spent more than 12 years working as a scientist in application laboratories. She has a wealth of experience in developing LC/MS (HPLC, UPLC, Quadrupole MS, TOF MS, and Ion Mobility MS) applications in areas such as Natural Products, Metabolite Identification, Metabolomics, Quantitative Bioanalysis, and Environmental Analysis.

Prior to joining Waters, Dr. Yu worked at Sun Chemical, a printing ink company in New Jersey. While at Sun Chemical, she established and managed an analytical laboratory that provided services to the entire packaging ink division, which utilized analytical tools such as GC, GC/MS, LC, LC/MS, GPC, and FTIR with the application focus on polymer and polymer additive analysis.

Kate received her Ph. D. in Analytical Chemistry from the University of Cincinnati; an M.S. in Chemical Biology from the Stevens Institute of Technology; and a B.S. from Shenyang Pharmaceutical University in China.

“Detecting the Unnatural in Natural Products— Adulteration of Herbal and Dietary Supplements (HDS)”

Product adulteration, counterfeiting, and product consistency are some of the key challenges for quality control in herbal supplement products. For example, Herbal Product B (HPB), a popular herbal supplement in Europe, has received warnings from a few European government agencies with regard to possible drug adulteration. In addition, there are other questions associated with this product such as: are the 13 TCM herbs called for by the recipe truly present in the HPB? Do any other herbs exist in the HPB? Are the products made consistent from batch to batch? To answer these questions, we used the UPLC/Qtof MS^E data acquisition approach combined with versatile informatic solutions to solve problems at hand.

Eight batches of the HPB were analyzed according to a UPLC/Qtof MS^E data acquisition protocol along with 24 TCM herbs, of which 13 are the herbs from the recipe and 11 are the herbs that were suspected to be present in HPB. Five individual synthetic drugs were also analyzed to check for adulteration of HPB.

A number of marker compounds characteristic of herbal substances were identified in the herbal product (ursolic acid, oleanolic acid, ferulic acid and calycosin), together with five adulterants (caffeine, chlorpheniramine, piroxicam, betamethasone and oxethazaine). Multivariate statistical analysis on a number of capsule batches was performed using MarkerLynx software in order to characterize the similarity in content between different batches. Principal component analysis (PCA) groupings of the resulting data showed a good degree of similarity between the different batches; the largest difference in composition was less than two-fold. In addition to the adulterants mentioned previously, the product contained only three of the declared herbal substances and one undeclared herbal substance.

THE DISTINGUISHED ELEMENTARY SCHOOL SCIENCE TEACHER AWARD

LoriAnn Pawlik



Born in Norfolk, VA, LoriAnn Pawlik grew up on an island in Largo, Florida. At six, she taught "school" on her front porch for the neighborhood kids—complete with a recipe box of grade cards! Her love of science began in the outdoors as a child—analyzing competitive swimming and sailing techniques, stargazing, and watching the launch of the Atlas-Centaur missile at Cape Canaveral—one of her father's projects as a gyroscope navigation engineer. Lori studied electrical engineering at The University of Alabama and graduated with a Physics degree from The University of Washington, Seattle, after marriage to Gene, an Army officer. Lori worked for brief periods of time on the space shuttle, torpedo systems, and as a community college Physics professor. Multiple military moves waylaid plans for a long career, so Lori pursued twenty years of homeschooling children, teaching various group science classes in the community, coaching swimming, and leading both youth activities and military Family Readiness Groups at duty stations. She earned the Department of the Army's Commanders Award for Public Service.

Upon Gene's active duty retirement, Lori earned her M.S. Education with teacher licensure from Old Dominion University in May, 2012. She's been a First and Third grade teacher at Penn Elementary in Woodbridge, Virginia, for the past three years and founded two Penn First Lego League NXT Robotics Teams, one of which advanced to state competition. Lori was selected as Penn's Science Lead, continues to coach robotics, presented at the 2nd/3rd grade District-wide Professional Development Day on Teaching Science, and established two Penn firsts: Family STEM Night and a Science Fair. For 2015-16, she will become Penn's first STEM teacher, teaching 888 students K-5. Her passion and delight is exposing students to multiple science fields and careers via multiple modes, integrating other content areas into the engineering process, and using hands-on differentiated lessons for her learners and then watching them go!

Lori lives in Prince William County with her husband, Gene. Elizabeth, 12, and Victoria, 14, are still at home while the older six children are in college or married. Away from the classroom, Lori enjoys quilting, genealogy, and just chillin'.

THE DISTINGUISHED MIDDLE SCHOOL SCIENCE TEACHER AWARD

Carrie Reardon



Carrie grew up in Sharon, Pennsylvania (a small town north of Pittsburgh) and attended Pennsylvania State University. Upon graduating from Penn State, she moved to Manassas, Virginia to begin her career in education. She has taught middle school science for the past 19 years.

Carrie received National Board certification in 2008 and earned an M.S. in Curriculum and Instruction from Walden University in 2011. In 2013, her peers voted her *Educator of the Year* for her school. She has served as Science Content Leader as well as eighth grade team leader for several years. Carrie began a garden at the school to use as an "outdoor, living classroom" and to serve as a community garden so that the families in her school district could use what was grown.

She has coached track, basketball, and volleyball, and is currently coaching boy's middle school soccer. The players have come to refer to her as their soccer mom. They know she will continue to check on them academically and in their soccer pursuits even after the season and into high school.

Her students have competed in the Bayer/NSF awards (currently known as the Christopher Columbus Awards) and she has led three teams to the National Championship Event in Florida. This competition has students use science to solve real world problems. She encourages students to see the connection between the real world and the lessons being taught in the classroom and has always believed that "one learns science by doing science." She incorporates many hands-on activities to reinforce concepts.

Her passions involve cooking and traveling. She traveled to Alaska this past summer, and also enjoys competing in the Warrior Dash (a mud run, obstacle course race).

THE FRANKLIN D. KIZER DISTINGUISHED HIGH SCHOOL CHEMISTRY TEACHER AWARD

Paul Parker



Paul Parker grew up in Chesterfield, Virginia and graduated from Manchester High School. He attended Virginia Tech for three years and transferred to VCU where he earned a BA in Religious Studies, a BS in Biology and a BS in Chemistry. At the suggestion of his parents, he decided to follow in the footsteps of his grandmother, Hazel Parker, who taught for 44 years. The passion, dedication, and love she demonstrated in word and deed encouraged him to follow in her footsteps. Next year will be Paul's 25th year of teaching, all of which have been at Midlothian High School where he has taught chemistry, biology, and environmental geology. In 2010-2011 he was Midlothian High School's *Teacher of the Year* in recognition of his dedicated service to students, faculty and administration. In October of 2013 he received the TRT (Teachers Recognizing Teachers) Award for his strong work ethic. By agreeing to teach an extra class, he lost his planning period which resulted in having to work at school on Sundays. Once he was written up in the school newspaper for his catch phrases such as "you must manipulate the equation algebraically, "no derivation required", or "that's a violation of the facts". When not practicing the piano, reading or collecting fossils, this teacher is assessing laboratory work for his IB Chemistry class. Inspiring students to learn chemistry, the subject he loves, is rewarding and motivates him to be his best.

FUTURE MEETINGS OF THE SECTION

DATE: **October 24, 2015**
 LOCATION: DoubleTree by Hilton
 Richmond, Virginia
 HOST: Dr. Todd Koch
 PHONE: (804) 257-2890
 E-MAIL: todd.koch@pfizer.com
 SPEAKER: **Dr. Diane Grob Schmidt**
 PROGRAM: **The 100th Anniversary Gala**



DATE: **November 13, 2015**
 LOCATION: University of Mary Washington
 Fredericksburg, Virginia
 HOST: Dr. Janet Asper
 PHONE: (540) 654-1143
 E-MAIL: jasper@umw.edu
 SPEAKER: **Dr. Bryan Tienes**
 TOPIC: "Chemical, Biological, and Radiological (CBR) Defense at the Naval Surface Warfare Center, Dahlgren Division (NSWCDD)"



DIRECTIONS

The Reception will be held in Rodney's, located in the Shafer Court Dining Center at 810 Cathedral Place on the Virginia Commonwealth University-Monroe Park Campus. This is just northeast of the Chemistry Department which is housed in Oliver Hall, 1001 W. Main Street. There is parking on the streets around Shafer Court, in the West Broad Street Deck, 1111 W. Broad Street, and in the West Cary Street Parking Deck at 1101 W. Cary Street. The lecture and Teacher Awards Program will be held in the new Academic Learning Commons (MCALC), located at 1000 Floyd Avenue (next to the Cabell Library). Detailed campus maps are on the VCU website: <http://www.vcu.edu>.

MAP



Shafer Court Dining Center



Academic Learning Commons (MCALC)

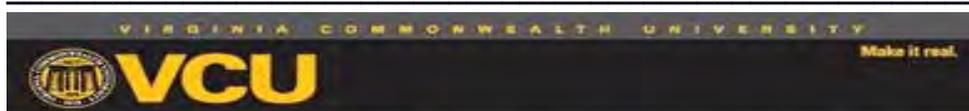
***** VIRGINIA SECTION NEWS ********THE 100th ANNIVERSARY GALA***

On October 24, 2015, the Virginia Section of The American Chemical Society will celebrate its 100th anniversary with a gala dinner and program featuring Dr. Diane Grob Schmidt, President of the ACS. There will be a pre-dinner social, special awards and recognition, historical recollections, a talk by Dr. Schmidt, displays, and a grand anniversary cake! Mark your calendar now and plan to be present as we celebrate the achievements of the Virginia Section during the past 100 years. Registration is now open.

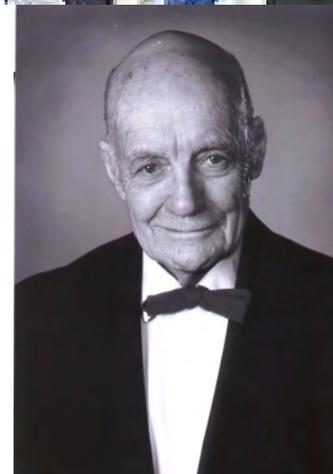
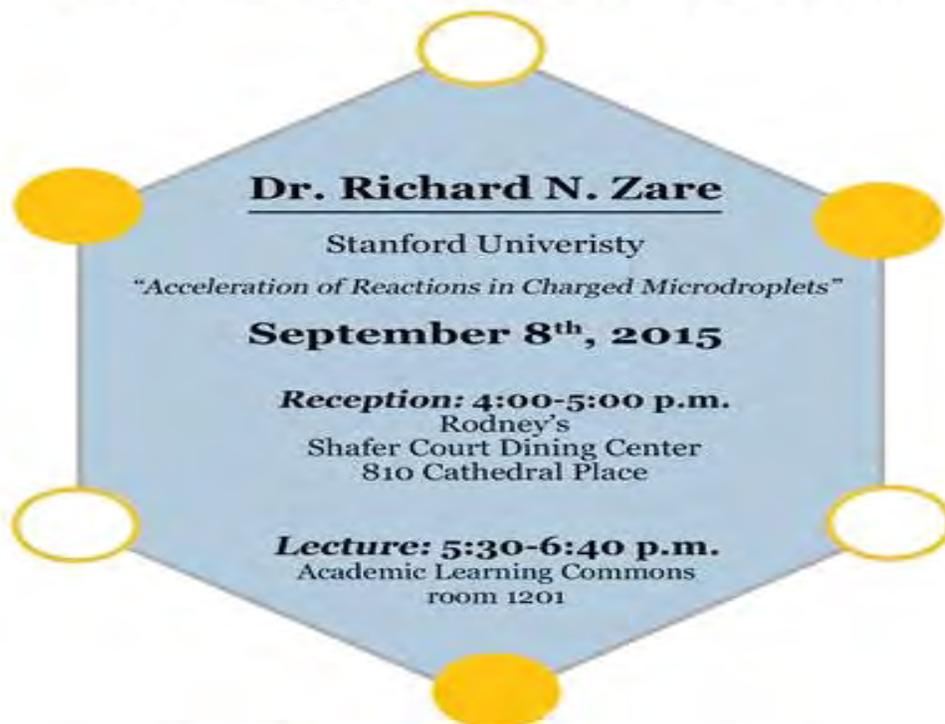
Saturday, October 24, 5:30 p.m.

DoubleTree by Hilton
1021 Koger Center Boulevard
Richmond, Virginia 23235

See registration information below and check the Section website:
<http://virginia.sites.acs.org/>

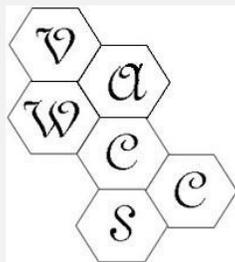


VCU Chemistry's 2015 John B. Fenn Lecture



RSVP: chemistry.vcu.edu or 804-828-1298

WOMEN CHEMISTS COMMITTEE FALL NETWORKING LUNCH



12:00 noon

Thursday, September 10

Mekong Restuarant
6004 W. Broad Street
Richmond, VA 23230

Menu at <http://mekongisforbeerlovers.com/food/>

Bring the craziest remark about women in the lab that you have ever heard to share with the group. Plans for the fall career event, being held jointly with the Minority Affairs Committee, will also be discussed.

RSVP by **September 8** to stephanie.mabry@aftonchemical.com

REGISTRATION FOR THE ANNIVERSARY GALA

October 24, 2015

DoubleTree by Hilton Hotel, 1021 Koger Center Blvd., Richmond, VA 23235

RESERVATIONS MUST BE MADE BY **SEPTEMBER 25**

Registration options: on-line through the Section website:

<http://www.virginia.sites.acs.org/>. Click on the *100th Anniversary* tab at the top of the webpage and then on *REGISTER*.

Or visit the Virginia Section *Facebook* page and follow the on-line registration link

Or use the form below if you prefer to send your check by U.S. mail

ANNIVERSARY GALA REGISTRATION FORM

Name: _____

Telephone Number: _____

E-Mail Address: _____

Name(s) of Additional Guest(s): _____

Entrée Choices—please indicate the number of each:

_____ **Herb-Crusted Chicken Breast** _____ **Cheese-Stuffed Pasta Shells**

Dietary Restrictions _____

Registration fees: Students—\$25.00 All Others—\$45.00

Make your check payable to the **Virginia Section, ACS** and mail it to the
Virginia Section, ACS, P.O. Box 27972, Richmond, VA 23261.

RESERVATIONS MUST BE MADE BY FRIDAY, SEPTEMBER 25

Further information: contact Denise Walters, (804) 257-2828; dlwacs@gmail.com

OVERNIGHT ACCOMMODATIONS FOR CENTENNIAL GALA

A block of rooms has been reserved at the DoubleTree by Hilton for persons wishing to stay overnight before or after the Centennial Gala on October 24. A special rate of \$109 per room per night is available for ACS members and guests. This rate covers the period October 21 through October 27. There is a limited number of rooms available at the reduced rate and reservations must be made **by October 6**. Reservations can be made using the URL below or by calling the hotel at (804) 379-3800. To register online, copy this URL and paste it into your web browser:

<http://doubletree.hilton.com/en/dt/groups/personalized/R/RICKSDT-ACS-20151021/index.jhtml>

THE CHAIR'S CORNER



September is here and it's hard to believe that summer has come and gone, let alone three-quarters of this year has passed. The Virginia Section has been busy supporting many events thus far this year and we still have more activities to come.

I am pleased to report that the Virginia Section received two ChemLuminary Awards at the National Meeting in Boston in August. We received the Outstanding New Local Section Younger Chemists Committee Award from the Younger Chemists Committee and the Creative & Innovative Use of the Chemists Celebrate Earth Day Theme from the Committee on Community Activities. I would like to congratulate Kathleen Sink

and Kristine Smetana and thank all the volunteers who helped them run the events that were recognized with these awards.

In January, one of the goals that I stated for the year was to initiate a mentoring program to help students understand the wide variety of career options available to them. Colleen Taylor took charge of this initiative and worked diligently to pull together a pilot program involving ten students paired with members from industry or academia. The pilot program was a huge success, so Colleen has partnered with Kathleen Sink, our YCC lead, to expand the program to involve more students. I would like to thank Colleen and Kathleen for all their efforts in getting the Mentor/Mentees Program up and running. I would also like to thank all the students who participated in the pilot program and all the section members who volunteered to be mentors. I hope that everyone found the program to be enriching. I would like to invite any members who would like to participate in this program as mentors to contact Kathleen (kms2uu@virginia.edu).

I hope by now you have heard that Virginia Section will be celebrating our centennial anniversary with a 100th Anniversary Gala in October. The keynote speaker will be Dr. Diane Grob Schmidt, President of the ACS. The planning committee has been working hard to organize this event and it will be spectacular. I look forward to seeing many of you at the Anniversary Gala to celebrate this landmark milestone for the section.

Todd Koch

2015 Virginia Section Chair
Todd.Koch@pfizer.com

VIRGINIA SECTION RECEIVES GRANT

The Virginia Section has been awarded an Innovative Project Grant for \$3,000 from the Local Sections Activities Committee (LSAC) of the ACS. The grant provides funding for the Section's proposal entitled "Virginia Section Centennial Celebration." The money will be used to support the Section's celebration of its 100th year of operation, including the Anniversary Gala that will be held on October 24. Dr. Denise Walters, Chair Elect of the Section, spearheaded the grant proposal process.

ADDITIONAL 50-YEAR MEMBER OF VIRGINIA SECTION

Dr. John Comerford's name was left off the list of new 50-year members of the ACS that was published in the Summer issue of the Bulletin. We regret the omission. Dr. Comerford lives in Fredericksburg. He has been active in the Virginia Section for many years. His work for the Section included serving as coordinator of the Chemistry Olympiad for a number of years. In 1995, he received the Distinguished Service Award from the Section.

VIRGINIA SECTION TAKES TWO CHEMLUMINARY AWARDS



Outstanding local sections were recognized at the ChemLuminary Awards ceremony at the National ACS Meeting in Boston on August 18, 2015. Local Sections and divisions received awards for their tireless efforts and work in promoting chemistry and the chemical sciences in local areas during 2014. The Virginia Section was presented two ChemLuminary awards.

ACS President Diane Grob Schmidt opened the ChemLuminary Awards event with welcoming remarks followed by a keynote address presented by Cynthia K. Larive, recipient of the 2015 ACS Volunteer Service Award. Prior to the awards presentation, a poster session was held for members. The posters are presented by finalists of each ChemLuminary Award that

reflects their outstanding activities being recognized. **Ann Sullivan** and **Kristine Smetana** prepared the Virginia Section poster.

Here are the two awards presented to the Virginia Section:

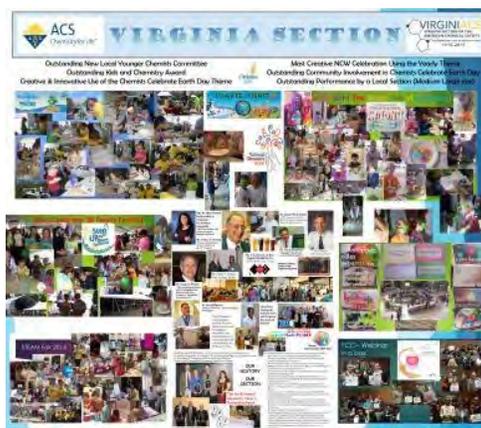
Outstanding New Local Section Younger Chemists Committee - The Virginia YCC hosted a networking event at Legend's Brewery where many of the participating younger chemists were new to ACS and used the event to learn more about involvement. **Kathleen Sink** is the chair of the YCC Committee for the Virginia Section and organized the networking event.

Creative & Innovative Use of Chemists Celebrate Earth Day Theme - The Virginia Section held an event at John Tyler Community College's Environmental Day called "Fool for Art and the Environment"; and also supported student members who helped Pfizer Consumer Healthcare celebrate Earth Day with 40 tables and 4 classrooms full of activities that focused on every aspect of water. **Kristine Smetana** is the chair of the Community Activities Committee and organizes both the CCED and the National Chemistry Week activities.

Virginia Section Councilors **Kristine Smetana** and **Ann Sullivan** and Alternate Councilor **Janet Asper** accepted the ChemLuminary Awards for the Section at the Boston meeting.



Councilor Ann Sullivan and friends at the national meeting in Boston



Virginia Section Poster from the Boston Meeting

NATIONAL CHEMISTRY WEEK 2015



The theme for NCW-2015 is "Chemistry Colors Our World" – October 19-24. Dr. Kristine Smetana is coordinating NCW in the Virginia Section. Contact her with ideas and to volunteer your help: ksmetana@jtcc.edu; (804) 359-2262.

GALA SPONSORS AND ADVERTISERS

Individuals, organizations, and companies are invited to support the 100th Anniversary Gala by becoming sponsors or advertisers. Various levels of sponsorship and sizes of advertisements are listed below. Your support will be recognized at the Gala, to be held at the DoubleTree by Hilton on Saturday, October 24. The Sponsors Reservation Form can be found on the Virginia Section website: <http://www.virginia.sites.acs.org/>. Reservation forms must be received by September 15; ad content is due by September 25 for inclusion in the souvenir program.



LEVELS OF SUPPORT:

GOLD SPONSOR (\$2,000) - Full-page premium location advertisement in the 100th Anniversary Gala Program; recognition on event marketing materials, website, and signage; reservations for two guests of your choice

SILVER SPONSOR (\$1,000) - Half-page advertisement in the 100th Anniversary Gala Program; recognition on event marketing materials, website, and signage; reservations for one guest of your choice

BRONZE SPONSOR (\$500) - Quarter-page advertisement in the 100th Anniversary Gala Program; recognition on event marketing materials, website, and signage

ADVERTISER - Full Page (\$250), Half Page (\$150), Quarter Page (\$75)

For more information, contact Dr. Todd Koch at todd.koch@pfizer.com.

SEMINARS AT VIRGINIA COMMONWEALTH UNIVERSITY

September 3 - **Dr. David Fushman**, University of Maryland

September 8 - **Dr. Richard N. Zare**, Stanford University, "Acceleration of Reactions in Charged Microdroplets" (**John B. Fenn Memorial Lecture**)

October 1 - **Dr. Teresa Przytycka**, National Institutes of Health (NIH)

October 8 - **Dr. William Greenlee**, ACS Division of Medicinal Chemistry, "Thrombin Receptor Antagonists for the Prevention of Arterial Thrombosis—Case History of Vorapaxar" (**J.D. Smith/Larry Winters Lecture**)

October 15 - **Dr. Ram B. Gupta**, VCU School of Engineering, "Clean Energy for a Growing and Prospering World"

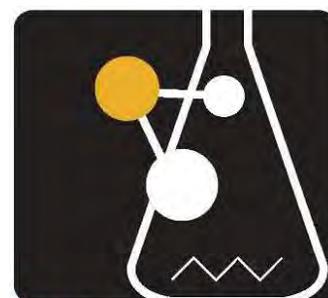
October 20 - **Dr. Stephanie Brock**, Wayne State University

October 22 - **Dr. Scott Gronert**, VCU Department of Chemistry

October 29 - **Dr. Hooman Tafreshi**, VCU Department of Mechanical Engineering

November 5 - **Dr. Chris Mundy**, Pacific Northwest National Laboratory

November 10 - **Dr. Jennifer Aitken**, Duquesne University



VCU Department of Chemistry

November 12 - **Dr. Jeffrey Seeman**, University of Richmond

November 19 - **Dr. Amanda J. Morris**, Virginia Tech, "Exploring Metal Organic Frameworks for Use as Integrated Artificial Photosynthetic Assemblies"

November 24 - **Dr. Sarah Michel**, University of Maryland

All lectures are scheduled at 3:30 p.m. in Room 1024 of Oliver Hall-Physical Science Wing.

For more information, call the Department of Chemistry at (804) 828-1298.



CHEMISTRY SEMINARS AT THE UNIVERSITY OF VIRGINIA

September 4 - **Professor Kyle Lampe**, University of Virginia, "Designing Biomaterials for 3D Hydrogel Microenvironments and Neural Tissue Engineering"

September 11 - **Professor Aron Lichtman**, Virginia Commonwealth University, "Targeting Endocannabinoid Regulating Enzymes to Treat Pain: Preclinical Assessment"

September 18 - **Professor Todd Lowe**, University of California at Santa Cruz, "Unraveling the Complex Roles for 500+ Human tRNA Genes and the Ubiquitous, Overlooked tRNA Fragments"

September 25 - **Professor Arun Yethiraj**, University of Wisconsin, "Polymers in Ionic Liquids"

October 2 - **Professor Mitch Croatt**, University of North Carolina at Greensboro, "Targeted and Serendipitous Discovery of New Reactions"

October 9 - **Professor Damian Young**, Baylor College of Medicine, "Expanding Small-Molecule Diversity for Discovering Novel Probes and Therapeutics"

October 16 - **Professor John Matson**, Virginia Tech, "Therapeutic Delivery of Hydrogen Sulfide: Small Molecules, Polymers, and Materials"

October 23 - **Professor Yoshiki Chujo**, Kyoto University

October 30 - **Professor Krzysztof Szalewicz**, University of Delaware, "Investigating Mysteries of Water from First Principles"

November 6 - **Professor Marcel Bruchez**, Carnegie Mellon University

November 13 - **Professor Steve Soper**, University of North Carolina at Chapel Hill, "Integrated Fluidic System for Analysis of Circulating Tumor Cells: Searching for Drug-Induced DNA Damage Using Nanosensors"

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

For more information, visit this website: <http://chem.virginia.edu/events-seminars/>.

CHEMISTRY AT VIRGINIA COMMONWEALTH UNIVERSITY

The Virginia Commonwealth University Department of Chemistry has 36 teaching and research faculty members, approximately 80 graduate students and 500 undergraduate chemistry majors. The department brings in about \$3 million annually in research and educational grants. The department offers full-time undergraduate programs leading to the Bachelor of Science. The degree concentrations allow students to focus on different aspects of chemistry, depending on their specific interests. The concentrations include chemical science, professional chemist, professional chemist with honors, chemical modeling, and biochemistry.



The department also offers full- and part-time graduate programs leading to the Master of Science and Doctor of Philosophy degrees in analytical, inorganic, organic, and physical chemistry and to the doctoral degree in chemical physics. A wide range of graduate courses is offered; the classes are small in size and personal in nature. The recent addition of new faculty and laboratories and the acquisition of new instrumentation provide a firm basis for continued excellence in both teaching and research.

A program of studies is tailored to the individual student and is designed to provide a sound background in all areas of chemistry, with emphasis on the student's area of research. The low student-to-faculty ratio ensures that each student receives personal attention.

An important and distinctive feature of the department is close interaction between faculty and students. This interaction, in an active and friendly environment, is designed to promote scholarship, develop experimental ability, and stimulate creative thought. Students work side by side with faculty members in small research groups. They are encouraged to present the results of their research at regional and national meetings of the American Chemical Society and other professional organizations.

The department is committed to excellence in both research and teaching. The faculty actively conduct research in the areas of analytical, inorganic, organic, physical, and polymer chemistry and, in cooperation with the Department of Physics, chemical physics. Faculty members have received training and experience at leading universities, industrial laboratories, and national research laboratories. Their excellent and diverse backgrounds ensure a graduate program of quality and balance, one that can meet the varied needs of future professionals. John B. Fenn, Nobel Laureate 2002, was a member of the Department of Chemistry faculty.



State-of-the-art instrumentation used by faculty, graduate students, and undergraduate students in courses and research includes magnetic resonance spectroscopy, infrared, uv-vis, and fluorescence spectroscopy, mass spectrometry, and liquid and gas chromatography.

A weekly seminar program brings distinguished speakers to the department from academia and industry. Arrangements are made for the speakers to meet with students to discuss research and other topics. The program results in graduates who are well-prepared for careers in industry, academics, and national research laboratories. In addition to the regular seminar program, the annual Mary E. Kapp Lecture in Chemistry brings a chemist of international reputation to the department. This lecture honors Kapp, the first chairman of the department, who guided the department through its formative years. Kapp established an endowment for the department from her estate. The department also hosts the John B. Fenn Memorial Seminar that honors VCU's only Nobel Prize winner.

WORDS OF WISDOM FOR SEPTEMBER: “The Higher We Are
Placed, The More Humbly We Should Walk”

REPORT ON THE 2015 CHEMISTRY OLYMPIAD

Fourteen schools asked to participate in the 2015 Chemistry Olympiad with over 300 students nominated to take either the first year or the second year exam. From the 14 schools, six schools were put into the small school category with less than 600 student enrollment (including one governor's school), while the remaining were classified as large schools. Some students competed in the first-year competition and others in the second-year competition. The results for each test are given below. At each school, the student with the highest score within each class received a National Olympiad pin. The following students were the highest scorers from each participating school. Many schools have more than one teacher participating; the highest student score for each teacher is listed (teacher names in parentheses). Teachers from each school also received a pin. School and team awards will be listed in the October Bulletin.

School	First Year	Second Year
Academy of Science - Loudoun County		Kim Grant (Tomlinson)
Albemarle High School	Chloe Naman Erdley (Oliver); Lucas Gluba (Peters); Ishpreet Singh (Farabaugh)	Will Knospe (Farabaugh)
Clover Hill High School	Dillon Forte (Ramsdell); Rahim Hassan (Tuskey); Emma Mayes (Lloyd)	Mansoor Syed (Klein)
Collegiate School	Mohith Dhillon (Fourness); Ashley Eastep (Hottmann)	John Schmohl and William Parker Johnson (Fourness)
Harrisonburg High School		Karan Chalishajar (Smith)
James River High School	William Wynne (Back); Keegan Strasser (Edwards)	Jordan Moghanaki (Brunyansky)
Patrick Henry High School	Kieffer Gilman-Strickland (Buckalew); Sarah Prunty and Collin Sylvia (Embry)	Chris Blackburn and Cassi Robertson (Embrey)
Prince Edward High School	Henry Lutz (Lutz)	Jasmin Simpkins (Lutz)
Prince George High School	Bennett Buetow (Moore)	Justin Tyson (Moore)
St. Stephen's & St. Agnes School	Nicole Bolton (Fusina); Sterling Gilliam (Oakes); James Wilusz (Chan)	Eric Karsten (Oakes)
The Covenant School	Xinyi Carina Cai and Shanhui Zhu (Jenkins)	Zixuan "Catherine" Qin (Jenkins)
The Governor's School of Southside Virginia at Alberta	Madison Gilmore (Williams)	
The Steward School	Morgan Van Davelaar (Kovach)	Yatina Yang and Tracy Xu (Kovach)
Western Albemarle High School		Lillian Xu (Stutzman)

Over twenty students were invited to fill the slots for the National Olympiad exam that was given on April 19, 2015 at James Madison University in Harrisonburg. No more than two students can participate from each school and each student must be a U.S. Citizen or hold a green card to be eligible for the IChO study camp.

Of the following students who were nominated, ten students participated in the National Exam:
 Academy of Science Loudon County - Grant Kim* and Gadi Licht*
 Albemarle High School - Will Knospe* and Isabella Yellman (alternate)
 Clover Hill High School - Mansoor Syed and Sarah Steele*
 Collegiate School - John Schmohl* , William Parker Johnson* and Jack Cole (alternate)

Harrisonburg High School - Karan Chalisehajar*
Prince George High School - Justin Tyson*
St. Stephen's & St Agnes' School - Eric Karsten*, Samantha Archer*, Ian Thompson (alternate)
The Steward School - Yatina Yang and Tracy Xu
Western Albemarle High School - Lillian Xu*

* students who participated in the National Olympiad Examination

+ unable to participate due to illness

The students with the three highest scores from all participating schools, separated by category and by test, received gift certificates (first place \$50, second place \$25, and third place \$10). Those students who took the National Chemistry Olympiad exam also received \$50 certificates.

First Year Chemistry Olympiad Local Examination Results

Small School and Governor's School Category:

First (\$50) - **Madison Gilmore** - The Governor's School of Southside Virginia at Alberta

Second (\$25) - **Mohith Dhillon** - Collegiate School

Third (\$10) **Sam Roberts** - Collegiate School

Large School Category:

First (\$50) - **Henry Lutz** - Prince Edward County High School

Second (\$25) - **Ishpreet Singh** - Albemarle High School

Third (\$10) - **Christian Kinzer** - Prince Edward High School

Second Year Chemistry Olympiad Local Examination Results

Small School and Governor's School Category:

First (\$50) - **Eric Karsten** - St. Stephen's & St. Agnes' School

Second (\$25) - **William Parker Johnson** - Collegiate School
- **John Schmohl** - Collegiate School

Large School and Governor's Schools Category:

First (\$50) - **Lillian Xu** - Western Albemarle High School

Second (\$25) - **Mansoor Syed** - Clover Hill High School
- **Kim Grant** - Academy of Science Loudoun County

VIRGINIA SECTION AWARDS

Over the years, the Virginia Section has received a number of national awards, including Phoenix and ChemLuminary awards. We would like to have a display of these awards for the Anniversary Gala on October 24. If you are in possession of one or more of these awards or know where we can locate some of them, please contact Jim Beck at (804) 733-5286; beckjd1977@comcast.net. Also, we would like to display some of the awards that the Section has presented to its members. These would include Distinguished Service Awards, awards to teachers, industrial awards, Jefferson cups, certificates to students, Chemical Olympiad awards, and special awards. Let us know if you have any of these that you could share with us on October 24.

**SEPTEMBER 25 IS THE DEADLINE FOR RESERVATIONS
FOR THE 100th ANNIVERSARY GALA ON OCTOBER 24**

DETAILS ON THE VIRGINIA SECTION WEBSITE:

[HTTP://WWW.VIRGINIA.SITES.ACS.ORG](http://www.virginia.sites.acs.org)

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Todd Koch

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