Thursday, January 19, 2023

NOTE: This will be a *virtual meeting.* You may participate via Zoom. See instructions below.

**PRE-MEETING SESSION:** 6:30 p.m.

**PROGRAM:** 7:00 p.m.

**HOST:** Dr. Jack D. Brown, Chair of Virginia Section - orgchem1954@gmail.com

**SPEAKER:** Ms. Audrey Skinner, Gastronomical Chemist, IMBIBE Solutions

**TOPIC:** “**KNOW Science, KNOW Wine:** The Chemistry of Booze”

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**Ms. Audrey Skinner**

*Audrey Skinner* is a Gastronomical Chemist and Founder of *Imbibe Solutions*, an independent laboratory that works with craft alcohol businesses to supplement and enrich their quality control programs. She has helped many brewers, winemakers, and other craft-fermenters improve processes, ensure product stability and cleanliness, expand shelf-life, and enhance overall product quality. Her goal is to provide small craftsmen with beneficial, quantifiable data so they can be competitive in the growing marketplace. Audrey holds a Bachelor of Science in Chemistry, a Master of Liberal Arts in Gastronomy, and a Certificate of Culinary Arts. She is a judge for the Great American Beer Festival, the American Craft Spirits Awards, and World Whiskies USA. She spoke to the Virginia Section on November 9, 2018 in a meeting at Longwood University in Farmville.

“**KNOW Science, KNOW Wine:** The Chemistry of Booze”

Alcohol production is both an art and a science. It takes a trained palate and a knowledge of chemical reactions to produce great-tasting, stable, and consistent products. Quality control testing helps producers verify their processes, stay within regulatory limits, and ensure the
product being packaged is exactly what they want served to the customer. In this presentation, we will talk about the quality control tests and methods used in wineries, breweries, and cideries; how third-party labs support the industry; and why knowing the science makes a better libation.

**INSTRUCTIONS FOR ACCESSING THE JANUARY 19 MEETING USING ZOOM**

The online presentation of the January 19 meeting will use the Zoom format. **Dr. Jack Brown** is the meeting host and **Dr. Julian Bobb** is the Zoom coordinator.

**Topic:** Virginia Section of the American Chemical Society (ACS) - January Meeting 2023

**Ms. Audrey Skinner**, Gastronomical Chemist, IMBIBE SOLUTIONS - “KNOW Science, KNOW Wine: The Chemistry of Booze”

You are invited to a Zoom meeting – January 19, 2023 06:30 PM Eastern Time

Use this link to register in advance for this meeting:

https://american-chemical-society.zoom.us/meeting/register/tZEvcuuhrgjtIHIv9p8fzq55K7ldXx3z_dEz

After registering, you will receive a confirmation email containing information about joining the meeting. If you have problems registering, contact Dr. Julian Bobb at bobbja@vcu.edu, (804) 908-8623.

**PRE-PROGRAM SESSION**

The 6:30-7:00 PM period on January 19 will be a time for members to socialize. Also, there will be a short presentation on the Virginia Section, including some history and information on the 2023 officers and committees. Ms. Skinner’s presentation will begin at 7:00 PM and will conclude with a question-and-answer period.

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**FEBRUARY MEETING NOTICE**

**Friday, February 24, 2023**

**UNIVERSITY OF RICHMOND**

**W. ALLAN POWELL LECTURESHIP**

**HOST:** Dr. Raymond Dominey, rdominey@richmond.edu

**SPEAKER:** Dr. Nathan S. Lewis, Professor of Chemistry, Caltech

**TOPIC:** “Inorganic Phototropic Growth of Materials that See the Light”

**NOTE:** This will be an in-person meeting at the University of Richmond. A dinner with the speaker will precede his talk. Registration information and meeting details will be available early in February. Check the Virginia Section website (www.acsva.org) or click on this U of R link for more information: https:// facultystaff.richmond.edu/~rdominey/seminar/index.html.
2023 OFFICERS OF THE VIRGINIA SECTION

Dr. Julian Bobb, Secretary of the Virginia Section, has reported these results of the election that was conducted in November, 2022:

Chair: Dr. Jack Brown
Chair Elect: Dr. Joseph Pompano
Vice Chair: Dr. Charlene Crawley
Secretary: Dr. Julian Bobb
Treasurer: Dr. Rob Davidson
Councilor: Dr. Janet Asper (2023-2025)
Alternate Councilor: Dr. Ann Sullivan (2023-2025)
Trustee: Mr. Kenneth Chapman (2023-2025)

MEETINGS OF THE VIRGINIA SECTION

Here is a tentative schedule of meetings for the winter and spring of 2023:

● **January 19, 2023** - Ms. Audrey Skinner, “Know Science, Know Wine: The Chemistry of Booze.” This will be a virtual meeting. Details are given above.

● **February 24, 2023** - The Powell Lectureship at the University of Richmond will be an “in-person” meeting. Professor Nathan Lewis of Caltech will be the speaker, “Inorganic Phototropic Growth of Materials that See the Light.”

● **March, 2023** - AWARDS MEETING - Date and place to be determined.

● **April, 2023** - Undergraduate Student Research Poster Session and Presentation of Student Awards. This will be an “in-person” meeting at the University of Virginia in Charlottesville. Date to be determined.

OFFICERS, COUNCILORS, AND TRUSTEES OF THE VIRGINIA SECTION

IMMEDIATE PAST CHAIR: Vanessa Lopez, vanessa.f.lopez@altria.com
CHAIR: Jack D. Brown, orgchem1954@gmail.com
CHAIR ELECT: Joseph Pompano, pompano13220@gmail.com
VICE CHAIR: Charlene Crawley, cdcrawle@vcu.edu
SECRETARY: Julian A. Bobb, bobbja@vcu.edu
TREASURER: Rob Davidson, robiradav@aol.com

Dr. Jack Brown
COUNCILORS: 2023-2025 - Janet Asper, jasper@umw.edu
2022-2024 - Kristine Smetana, kristine.smetana@southside.edu
2021-2023 - Linette Watkins, watkinlm@jmu.edu

ALTERNATE COUNCILORS: 2023-2025 - Ann Sullivan, asullivan@reynolds.edu
2022-2024 - Chris Hodge, rchodge@gmail.com
2021-2023 - Joseph Crockett, jcrocketchem@gmail.com

TRUSTEES: 2023-2025 - Kenneth Chapman, kmcstem@aol.com
2022-2024 - Stephanie Mabry, Stephanie.mabry@verizon.net
2021-2023 - James N. Demas, demas@virginia.edu

CHAIRS OF VIRGINIA SECTION COMMITTEES

Archives: currently vacant

Awards: Service, Industrial and Special - Yezdi Pithawalla, yezdi.b.pithawalla@altria.com; Kathleen Spangler, kms2uu@virginia.edu
Education - Larry H. White, (540) 833-5280

Chemical Education: Kristine Smetana, kristine.smetana@southside.edu

Chemistry Olympiad: Sarah E. Porter, portersg@longwood.edu
Gary Lutz, lutzpgary@gmail.com

Community Activities: Kristine Smetana, kristine.smetana@southside.edu

Entertainment: currently vacant

Government Affairs: Rebecca Rose Pompano, rpompano@virginia.com
Colleen M. Taylor, cmtaylor@vsu.edu

History: Larry H. White, (540) 833-5280

Media Relations: Krista Weissbart, krista.c.weissbart@gsk.com

Membership/Hospitality: Gregory Grover, greg@contraline.com

Minority Affairs: Charlene Crawley, cdcrawle@vcu.edu
Colleen Taylor, cmtaylor@vsu.edu

Nominations: Vanessa Lopez, vanessa.f.lopez@altria.com

Project SEED: Mychal Smith, mdsmith@vcu.edu

Publications: Editor - James Beck, beckjd1977@comcast.net
Publisher - Will Lewis, wlewis8669@aol.com

Safety: Joseph Crockett, jcrocketchem@gmail.com

Senior Chemists: Joseph Pompano, pompano13220@gmail.com
Rob Davidson, robiradav@aol.com

Strategic Planning: Joseph Pompano, pompano13220@gmail.com
The Bulletin

Webmaster: Joseph Pompano, pompano13220@gmail.com
Ann Sullivan, asullivan@reynolds.edu
Kathryn Diebler, kdd3@cornell.edu

Women Chemists (WCC): currently vacant
Younger Chemists (YCC): Ashley Tubbs, tubbsa2@vcu.edu

THE EXECUTIVE COMMITTEE

The Executive Committee is the primary governing body of the Virginia Section of the ACS. The Committee meets at least twice a year to set general policy and develop and approve the Section’s budget. The members of the Executive Committee include the officers, councilors, alternate councilors, and trustees (all elected by the members of the Section), the chairs of Section committees (appointed by the Chair of the Section), and a few at-large members who are selected by the Section Chair. These are the current at-large members: Patrick Barber (barberpg@longwood.edu), R. Gerald Bass (robertg.bass@gmail.com), Philip P. Burks (ppburks@verizon.net), Thomas C. DeVore (devoretc@jmu.edu), M. Samy El-Shall (mselshal@vcu.edu), Karl T. Jackson (ktjackson2@vuu.edu), Todd Koch (todd.s.koch@gsk.com), Donald Shillady (quantummechanicsllc@msn.com), LaChelle Waller (lmwaller@vcu.edu), Denise L. Walters (denise.l.walters@gsk.com).

NOTE: A more complete directory of the members of the Executive Committee can be found on the Virginia Section website - www.acsva.org. This includes affiliations and mailing addresses.

CARISSA HUNTER NAMED OUTREACH VOLUNTEER OF THE YEAR

Carissa Hunter has been named the recipient of the 2023 Outreach Volunteer of the Year Award for the Virginia Local Section. Carissa is currently a PhD Chemistry student at George Mason University and has been serving on the ACS Virginia Younger Chemists Committee (YCC) since the summer of 2020. She has held several leadership roles including Secretary of the Committee. In 2022, the Virginia Section YCC hosted eight “Day in the Life of a Chemist” webinars. The goal is to shed light on what a typical day is like for a chemist and to highlight different careers in the chemical sciences. Carissa organized and hosted the second Day in the Life webinar back in February of 2022, featuring A “Day in the Life of a Synthetic Chemist” by Dr. Isaiah Speight. Carissa invited Dr. Speight (an incoming Professor at William & Mary), who shared some information on his journey from being an undergraduate student to a Postdoctoral Research Fellow. About 31 persons attended this event and there are currently 157 views on the Virginia Section’s YouTube Channel. Carissa led the planning for a two-day virtual program in April of 2022, titled “Virginia American Chemical Society Younger Chemists Committee/Northeastern National Organization for the Professional Advancement of Black Chemists and Chemical Engineers Diversity and Inclusion/ Professional Development Workshop”. This event featured keynote speakers and panel sessions aimed at providing awareness and open dialogue about diversity and inclusivity in school and the workplace, especially in the fields of STEM. The 65 participants, who represented various minority groups (Black, LatinX, South Asian, Women), networked and engaged in discussions in breakout rooms.
OUTREACH VOLUNTEER OF THE YEAR

Each year, the Virginia Section selects one of its members for the Outreach Volunteer of the Year Award from the national ACS. The recipient must have been actively involved in some of the outreach activities sponsored by the Section. Recipients of this award:

- 2013 - Kristine Smetana
- 2016 - Colleen Taylor
- 2017 - Stephanie Mabry
- 2018 - Heather Lourenco
- 2019 - Julian Bobb
- 2020 - Michael Hunnicutt
- 2021 - Stacey Sank
- 2022 - Ashley Tubbs
- 2023 - Carissa Hunter

YOUNGER CHEMIST COMMITTEE MEMBERS RECOGNIZED

Two members of the Virginia Section’s Younger Chemist Committee (YCC) have been recognized by the national ACS. Dr. Julian Bobb, the 2022 chair of the Section’s YCC has been appointed to the national Committee on Younger Chemists as an Associate. He will spend the next year learning more about the national YCC, attending meetings, and helping out at various events and activities. Dr. Bobb has done an outstanding job as chair of our local section’s YCC. Ms. Ashley Tubbs has been appointed to serve on the national Committee on Women Chemists. She has been serving on the Virginia Section YCC for several years and is replacing Julian Bobb as Chair of the Committee in 2023 (see article below). As noted above, Ms. Carissa Hunter, who is now serving on the YCC for the Virginia Section, has recently been named the 2023 Outreach Volunteer of the Year.

ASHLEY TUBBS TO CHAIR THE VIRGINIA SECTION'S YOUNGER CHEMIST COMMITTEE (YCC)

Ashley Tubbs has assumed the position of Chair of the Younger Chemists Committee for the Virginia Section, replacing Julian Bobb. Ashley is a fourth-year graduate student at Virginia Commonwealth University. Since joining the Virginia Section YCC in 2020, she has fostered collaboration between local section outreach volunteers and increased the accessibility of technical and career development programming to younger chemists. In 2020, she helped establish the Eastern US (EUS) YCC Partnership, a collaborative effort between the Virginia ACS YCC and more than ten other local section YCCs and international organizations. From 2020 to 2022, Ashley played an instrumental role in advertising and organizing the EUS YCC Partnership’s events, including the popular “A Day in the Life” and “Self-Care Saturday” series and the week-long “2021 ACS EUS YCC Partnership Virtual Research Symposium and Chemistry Career Expo” which was attended by more than 200 people from across the world. Locally, she has also helped organize and advertise a “Cooking Chemistry Trivia Night”, technical tours of local companies, and the “Diversity and Inclusion Professional Development
MEETING OF THE EXECUTIVE COMMITTEE

The Executive Committee of the Virginia Section will meet on Saturday, January 21, at 10:00 AM. This will be a virtual meeting by Zoom. Officers, Councilors, Trustees, and Committee Chairs will be presenting reports on 2022 activities and plans for 2023. The Section budget will be discussed and approved. All members of the Virginia Section are invited to join in the Zoom meeting. Contact Jack Brown, the 2023 Chair of the Section, for more information about the operation of the Executive Committee and the meeting: orgchem1954@gmail.com. Officers and committee chairs should send their reports to Julian Bobb at secretaryvasectionacs@gmail.com and to Jack Brown at orgchem1954@gmail.com. Here is the information for the Zoom meeting–no reservation is required. Everyone is welcome.

The Virginia Section ACS is inviting you to a scheduled Zoom meeting.
Topic: January 2023 Executive Committee Meeting
Time: Jan 21, 2023 10:00 AM Eastern Time (US and Canada)

Join Zoom Meeting:

https://american-chemical-society.zoom.com/j/89955075761?pwd=ODNCV05zVHpHMWJVRjVnZlUzR1IQT09

Meeting ID: 899 5507 5761
Password: 720725

One tap mobile:
+13052241968,,89955075761# US
+13092053325,,89955075761# US

A NOTE FROM ASHLEY TUBBS

Hello to my fellow VA ACS members! For those who don’t know me, my name is Ashley Tubbs and I am honored to be the chair of the Virginia Section ACS Younger Chemists Committee for 2023. I am touched and humbled by the trust placed in me by my peers and look forward to serving alongside the amazing volunteers on our executive board. If you have any programming you would like to see realized, would like to volunteer, or simply want to chat, please feel free to reach out to me at vayoungerchemistscommittee@gmail.com. Thank you!
POSITIONS AVAILABLE AT PHLOW CORPORATION

Phlow™ Corporation is a trailblazing, public benefit corporation committed to ending shortages of essential medicines in our country. Through the use of continuous flow and other advanced manufacturing technologies, Phlow™ is dedicated to reducing costs, improving quality, sustaining our environment and moving beyond the decades old practice of traditional batch manufacturing. Phlow has facilities in the Richmond-Petersburg area. They are currently seeking applicants for these three positions:

- Senior Director
- Senior Principal Chemist
- Senior Associate Chemist.

Senior Director, Process Chemistry
Phlow Corp. - Richmond, VA

The purpose of this role is to provide Subject Matter Expertise (SME) in the area of process chemistry and to direct process development in Phlow’s Continuous Manufacturing R&D lab. The Senior Director, Process Chemistry will support the CDMO business to ensure business objectives are met and for execution of the internal Phlow API development projects. Serve as the technical leader for the development and scale-up of new processes for the synthesis of active pharmaceutical ingredients. The candidate will plan, organize, and oversee all process chemistry activities in the Phow Continuous Manufacturing R&D lab to ensure that timelines, specifications, cGMP requirements, in addition to other elements of contracts, are realized. The candidate will ensure excellence of our process development and technical transfer to Phlow’s partners or customers and interact with other internal and external Phlow departments (EH&S, Engineering, Program Management, Quality Assurance, Regulatory Affairs) as required. The candidate will personify Phlow’s shared values and culture, both internally and externally. The candidate will work with the highest standards of safety, integrity, transparency, and ethics to create win-win scenarios for patients, customers, partners, and colleagues.

Applicants should have a minimum of 10 years years of relevant process chemistry management and leadership experience within the Pharmaceutical or Contract Development and Manufacturing industry, a strong track record of success including process development, technology transfer, and continuous improvement, extensive understanding of the business principles of a CDMO or like environment, excellent interpersonal and communication skills, experience in working in a multi-disciplinary team environment, and a demonstrated ability to lead, mentor, influence, collaborate, and work with individuals, colleagues and clients.

Senior Principal Chemist, Process Chemistry
Phlow Corp. - Richmond, VA

The purpose of this role is to provide process chemistry support to Phlow’s Continuous Manufacturing R&D lab. The Senior Principal Chemist will possess an in-depth knowledge of process chemistry skills for the development of synthetic routes for drug substances. The candidate will perform multi-step chemical syntheses and product isolation/purification operations in the laboratory either independently or as part of a project team. The candidate will ensure excellence of our process development and technical transfer to Phlow’s partners or customers. The candidate will personify Phlow’s shared values and culture, both internally and externally. The candidate will work with the highest standards of safety, integrity, transparency, and ethics to create win-win scenarios for patients, customers, partners, and colleagues.

Applicants should have a minimum of 5 years working in related roles in the pharmaceutical industry, a broad range of functional expertise in modern synthetic organic chemistry, compound purification, spectral analysis/interpretation, experience with searching the chemical literature to evaluate potential solutions to synthetic problems, experience with common analytical techniques such as: HPLC, GC, NMR, UV, LC-MS, and strong interpersonal and communication skills.
Senior Associate Chemist, Manufacturing, Science & Technology (MS&T)
Phlow Corp. - Richmond, VA

The purpose of this role is to provide process chemistry support to Phlow’s Continuous Manufacturing R&D lab. This is an exciting opportunity for recent graduates or individuals with process chemistry experience to independently design, synthesize, purify, and analyze chemical intermediates and target compounds under the direction of the Director, Process Chemistry or other team member. The candidate will support the CDMO business to ensure business objectives are met and for execution of the internal Phlow API development projects. The candidate will ensure excellence of our process development and technical transfer to Phlow’s partners or customers. The candidate will personify Phlow’s shared values and culture, both internally and externally. The candidate will work with the highest standards of safety, integrity, transparency, and ethics to create win-win scenarios for patients, customers, partners, and colleagues.

Applicants should have 0-3 years working in related roles in the pharmaceutical industry, experience with common analytical techniques such as: HPLC, GC, NMR, UV, LC-MS, and strong interpersonal and communication skills.

More complete job descriptions, including responsibilities, and preferred qualifications, can be found on the Virginia Section website: [www.acsva.org](http://www.acsva.org). To apply, contact Phlow at [https://www.phlow-usa.com/careers/](https://www.phlow-usa.com/careers/).

**NOMINATIONS FOR VIRGINIA SECTION AWARDS**

Each year, the Virginia Section presents a number of special awards to members of the Section. Some of these will be presented in March, 2023. Nominations are now being solicited for these awards:

- the Distinguished Service Award
- the Distinguished Research Award
- Outstanding Innovator
- Outstanding Innovation
- Industrial Leadership.

More information on these awards and others offered by the Section can be found on the Section website: [www.acsva.org](http://www.acsva.org) (look under the “ABOUT US” tab). Nominations can be submitted to either of the co-chairs of the Awards Committee: Yezdi Pithawalla, yezdi.b.pithawalla@altria.com; (804) 335-2301 or Kathleen Spangler, kms2uu@virginia.edu; (804) 370-8097. Nominations should be submitted by February 1. Nomination forms are available on the Section website, [www.acsva.org](http://www.acsva.org).

**CHEMISTRY SEMINARS AT THE UNIVERSITY OF VIRGINIA**

**January 20** - Dr. Wonpil Im I, Lehigh University

**January 27** - Dr. Benjamin Cravatt, The Scripps Research Institute (Burger Lecture)

**February 3** - Dr. Paul Robustelli, Dartmouth College

**February 17** - Dr. Skip Brenzovich, Roanoke College

**February 24** - David Berkowitz, NSF Chemistry Division Director

For 2023, the Department plans to return primarily to in-person seminars. Unless otherwise indicated, Friday seminars will be held at 3:30pm in Olsson 120.
THE U.S. NATIONAL CHEMISTRY OLYMPIAD

The Virginia Section is pleased to host the Chemistry Olympiad exam in 2023. Teachers may register students at https://forms.gle/VSsPkkdT93tMpuBo6. Please feel free to contact me if you have any questions.

Dr. Sarah Porter, Chair, Virginia Section Chemistry Olympiad Committee, portersg@longwood.edu

Important Dates for 2023:

The deadline for registration to take the local exam is March 3, 2023

The Local exam will be taken online during the week of March 20-24, 2023. Teachers may choose a time during that week and online access will be given at that time.

Select students participating in the Virginia Local Section’s Local Chemistry Olympiad Competition will be nominated to advance to participate in the National Chemistry Olympiad Exam. The 20 top-scoring students are chosen to attend a study camp. Each student who participates will be recognized with a certificate and the top scoring students and schools will earn additional recognitions.

Who Should Take the Local Section Chemistry Olympiad Exam?

Any student interested in participating who is nominated by their teacher.

A teacher can nominate one student or their entire class. A teacher may nominate any student in the school who they feel is prepared to take either exam regardless of whether the student has taken chemistry. Home schooled students are welcome to participate – the teacher nomination may come from the homeschool parent.

Past Reports and Tests:

Explore the USNCO website to find webinars about how to prepare for the exam, past exams for practice, reports on past winners at the National level, rules of competition, and much more! https://www.acs.org/content/acs/en/education/students/highschool/olympiad.html

COMMITTEE CHAIRS NEEDED

The Virginia Section is seeking ACS members to serve as chairs of the Archives, Entertainment, and Women Chemist committees. The Archives Committee maintains the official records of Section activities. The committee receives information about the Virginia Section of the ACS. These records are organized, catalogued, and stored for future reference. The Entertainment Committee functions at "in-person" meetings of the Section. They prepare nametags for persons in attendance and collect any fees for dinners or other expenses. The records of attendance are filed with the secretary of the Section and the funds collected are deposited in the Section’s bank account. The Women Chemist Committee plans and executes activities for women members of the Section and their guests.

VIRGINIA SECTION AWARDED GRANT FOR STRATEGIC PLANNING

The Virginia Section has been awarded $7,000 for a strategic planning activity. The funds include $5,000 from the national ACS and $2,000 in co-funding from the Committee on Local Section Activities (LSAC). The two grants will be used for a 1.5 day ACS Strategic Planning Retreat that will be scheduled during 2023. The funds will cover a facilitator fee. Members of the Virginia Section will be provided training on the development and implementation of a strategic plan for the Section. Dr. Joseph Pompano is the Chair of the Strategic Planning Committee for the Virginia Section. Anyone who would like to participate in the planning activities and the Retreat should contact Joe at pompano13220@gmail.com.
ASSISTANCE IN JUDGING SCIENCE PROJECTS
AT THE VIRGINIA JUNIOR ACADEMY OF SCIENCE

The Virginia Junior Academy of Science (VJAS) will hold its 2023 VJAS Research Symposium virtually on Saturday, May 6, 2023. This meeting will give about 750 students in grades seven through 12 from throughout the Commonwealth the opportunity to present papers on original research that they have conducted. Prior to the presentations on May 6, the research papers will have been read and scored online, using the Reviewr web platform. On May 6, papers will be presented every 15 minutes from 9:00 a.m. through 4:30 p.m. The VJAS is soliciting volunteers as readers and judges. Readers will screen, read, and score submitted research papers (15-25 papers per reader). The readers will determine the papers that will be accepted for presentation on May 6. The accepted papers will be distributed to judges, each of whom will read and evaluate up to 22 papers, from mid-April until May 6. The judges will participate in the virtual meeting on May 6 to review the oral presentations and complete the scoring process.

Susan Booth, Director of the VJAS, is asking for readers and judges from the Virginia Section of the ACS. You may volunteer to serve as a reader or judge, or both. The registration forms for readers and judges can be found at https://vjas.org/judges.html. For more information, contact Susan Booth at director@vjas.org; (757) 897-3104.

GRANTS FOR SCIENCE EDUCATION

The Virginia Section provides small grants ($50 - $500) to teachers for projects involving science teaching. The grants can be used to purchase materials and equipment for activities in science classrooms and laboratories. No funds are provided for personnel costs. More information and a proposal form can be found on the Section website: acsva.org. Look for the Chemical Education tab under “About Us,” or contact Dr. Kristine Smetana at kristine.smetana@southside.edu.

UVA CHEMISTRY FACULTY LEADING CLEAN ENERGY PROJECT

The U.S. Department of Energy has awarded a $3.7 million grant to a research team led by faculty members from the University of Virginia. The project is titled “Chemical and Materials Sciences to Advance Clean Energy Technologies and Low-Carbon Manufacturing.” The funding will be used for research into technologies for efficient energy production like carbon storage and green hydrogen extraction methods. At UVA, the grant will be used to support a project on “Fundamental Studies of Catalytic Sites and Catalyst/Membrane Integrations for Advanced Hydroxide Exchange Membrane Electrolyzers.” The chemistry team will include Sen Zhang, an award-winning researcher and the principal investigator for the Zhang Lab; T. Brent Gunnoe, commonwealth professor of chemistry and leader of the Gunnoe Research Group; Charles Machan, founder of the Machan Research Group; and assistant professor Huiyuan Zhu. The University of Virginia research group will be collaborating with students and faculty at the California Institute of Technology, Columbia University, and the University of Delaware. The research team is endeavoring to develop efficient hydrogen production methods that will eventually reduce the cost of the green fuel source.