Chesapeake Chemist
Maryland Section American Chemical Society

May-June Issue Vol. 80 No. 5

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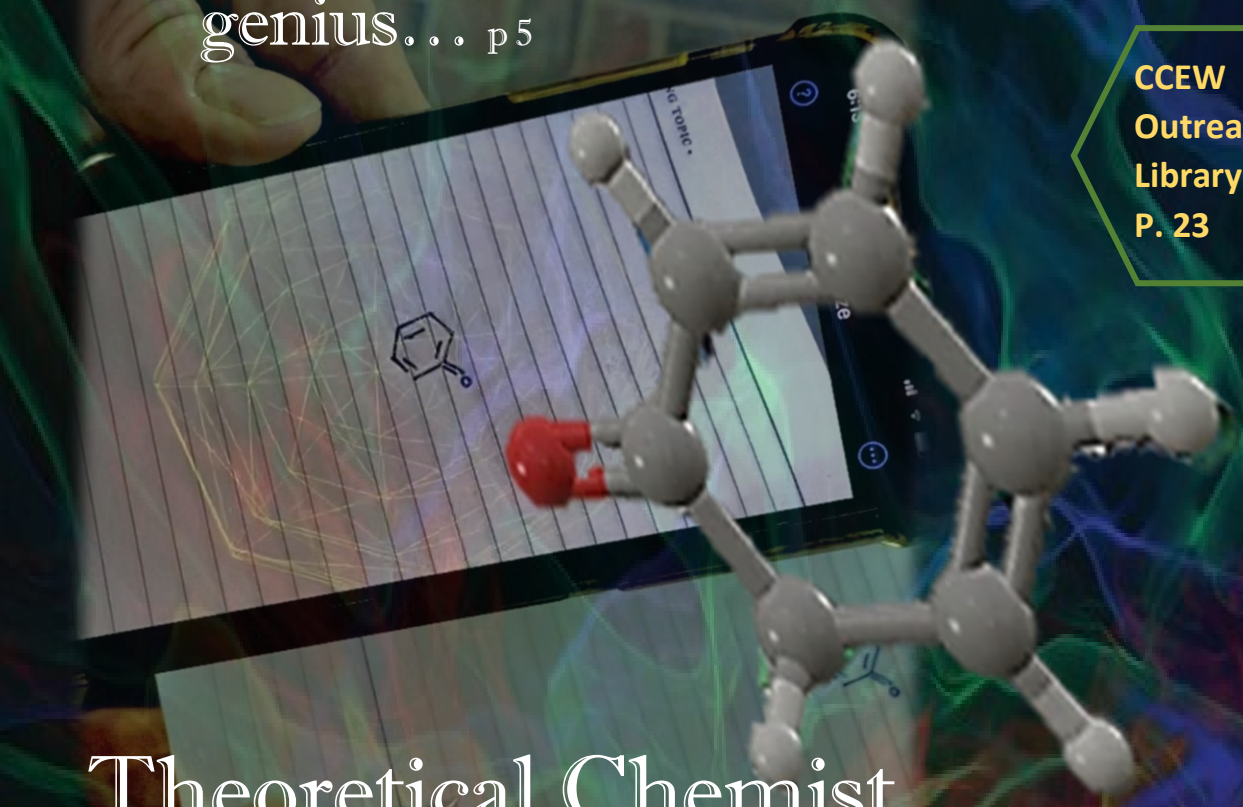
2021 Remsen Award

The hands of a genius... p 5



Theoretical Chemist Dr. Todd Martinez

David Mulvane Ehrsam Edward Curtis Franklin Professor of Chemistry & Professor of Photon Science Stanford university

Presents: *Discovering chemistry and photochemistry from first principles molecular dynamics*

Chesapeake Chemist
Maryland Section American Chemical Society

ACS Local Section Maryland

May 18, 2023

Maryland Local Section Newsletter

Editor-in-chief: Beatrice Salazar

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Cover:

From The Editor's Desk,

During the last week in March several Maryland ACS local members attended the *2023 National ACS Spring Meeting* in Indianapolis. The new ACS President, Judith C. Giordan, enthusiastically celebrates chemists and promotes the building of trust in scientists and science. P. 8

Local section members, postdocs, graduate and undergraduate students received ACS Maryland grants to aid in their travel to Indianapolis where they presented their research work. P. 13

Sara Narayan, Ph.D. from Stevenson University organized the awards ceremony for university and college students in Maryland. Professors from 21 universities and colleges each nominated a student for their involvement in chemistry. The speaker, Dr. M. A. Zajac from GlaxoSmithKline was a previous student of Dr. Narayan who is now U.S. Head of Chemistry Development. In the words of Dr. Louise "*It's wonderful that our Section recognizes these students, and I'm sure their parents are very proud. Also, the speaker was great! The fact that he was once Sara's student is a great inspiration to the current seniors. If he can achieve so much, so can they. I also thought it was interesting that the speaker's parents were present also! No matter what your age, your parents can be proud of you!*" P.17

The 2021 Ira Remsen Memorial Award (given 2 years late because of the pandemic) was a fantastic opportunity for attendees to understand what theoretical chemists, at least some of them, are doing nowadays. Professor Todd Martinez, from Stamford University, spoke on *Ubiquitous Quantum Chemistry and First Principles Molecular Dynamics.* His presentation was successful in making a difficult subject accessible to attendees while conveying a sense of the progress in the field. P.4-8

Our outreach programs are running strongly. We are glad to report that 12 Maryland high school students participated in the second round of the national chemistry competition. They were among 1,600 students nationwide competing this year in the U.S. National Chemistry Olympiad (USNCO). P. 20

There are additional regular sections of the Chesapeake Newsletter that we prepared for your enjoyment. The regular sessions *Literature Spotlight, Books and Laugh a little* will continue in the next issue. As always, you are encouraged to submit your chemistry related writings to the magazine.

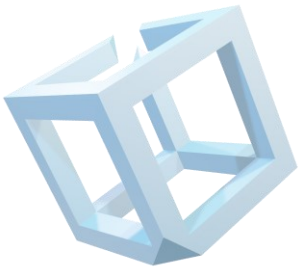
Welcome to The Chesapeake Chemist
A monthly magazine and newsletter for Chemists!

Contact Editor: beatricesalazar1@gmail.com
Contact ACS Maryland Section at acsmarylandsection10@gmal.com

Follow us…

Be one of us! Write articles for the Chesapeake Chemist. Send announcement of your projects and activities Share your chemistry life with your colleagues.

REPORTS

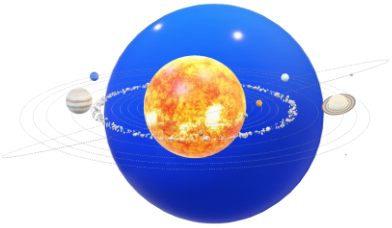


ACS 2023 SPRING MEETING P. 8

In attendance Councilors: Kelly Elkins, Jan Kolakowski (virtually), Beatrice Salazar, Stephanie Watson

Alternate Councilor: Jillian Malbrough

Most important points: _ Councilors' report
_ ACS President Judy C. Giordan "Trust in science and Scientists"
_ Art & Chemistry at the Indianapolis Art Museum



ACS MARYLAND STUDENT TRAVEL AWARDS P. 13

Poster presenters: Sukhvir Singh (UMBC), Anna McClain (UMBC), Ewa Harazinska (JHU), Divya Yadav (JHU)
In-person Presentations: Mansoor Johnson (TU)
Virtual presentations: Desmond Smith (TU),

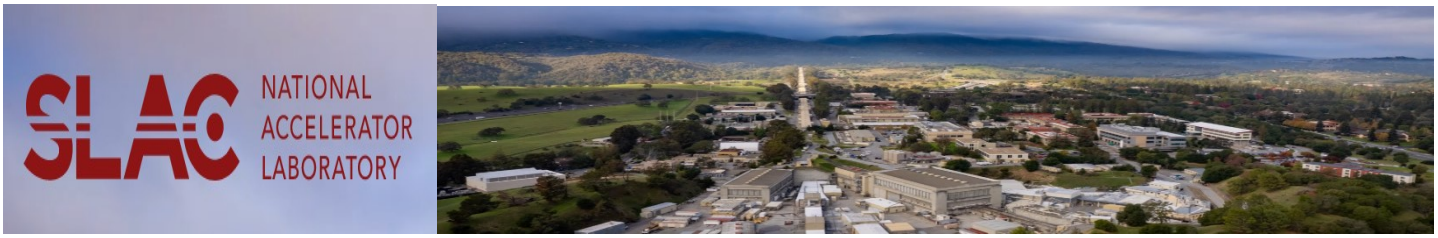
ACS MARYLAND STUDENT AWARDS P.17

Aiden Hathaway, Hart. CC	Aissata Timbine, NDMU	Alex Laveck, McDaniel C.
Allie Chaires, Goucher C	Bree Hart, Morgan SU	Caitlin Farris, Frederick CC
Cledia Kalembo, Coppin SU	Connor Owen, Mt St M CC	Ian T. Dinmore, USNA
Jack Dotzler, Loyola U.	James Webster, AACC	John Holmes, Howard CC
Lindsay Wilson, Hood C.	Kevin Wassenius, Stevenson	Max Tucker, Washington U
Rafiat Alabi, BCCC	Raphael Zeldin, TU	Saige Teti, St Mary's C. MD
Samuel Dawley, JHU	Sophia Neppl, CCBC	Sukhvir Singh, UMBC

ACS MARYLAND U.S. NATIONAL CHEMISTRY OLYMPIAD P. 20

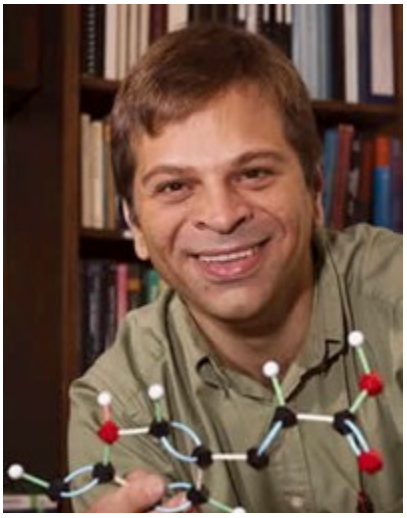
Ten Maryland schools and 12 high school students moved on the second part of the U.S. National Chemistry Olympiad. They Competed with 1600 students nationwide and only 20 were selected to attend Study Camp. Among them we have Anurag Sodhi from Centennial High School. Congratulations!

OUTREACH PROGRAM–EARTH WEEK P.23



Photon Science Faculty Bios | SLAC Faculty (stanford.edu)

Photon Science Faculty Bios | SLAC National Accelerator Laboratory



Todd J. Martinez, Professor

Address:	Chemistry (Stanford University) Mudd 385 Stanford University Stanford, CA 94305-5080
Phone:	650-736-8860
E-mail:	Todd.Martinez@stanford.edu
Research Group:	Martinez Research Group
Research Interests	Physical and Theoretical Chemistry

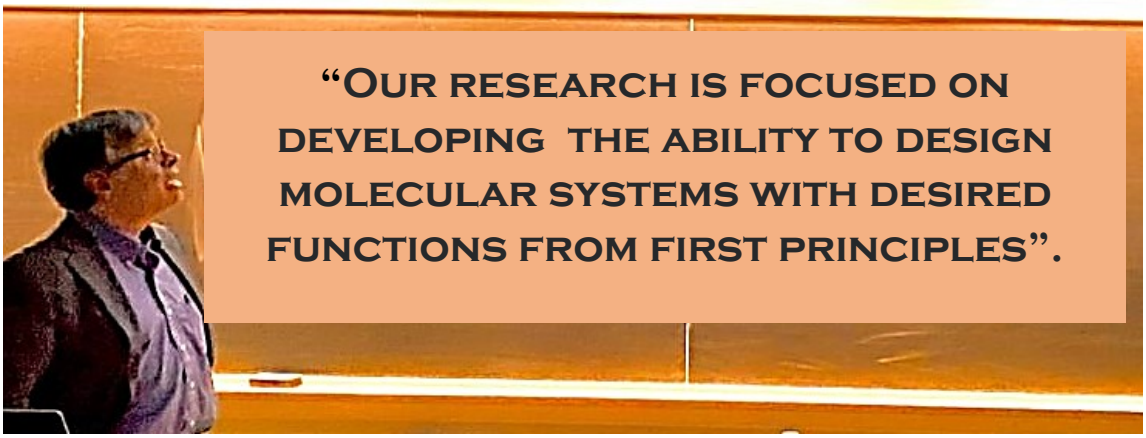
Education	B.S., 1989, Calvin College; Ph.D., 1994, University of California at Los Angeles
Professional Academic History	Assistant Professor of Chemistry, University of Illinois, Urbana-Champaign, 1996-2002; Affiliate, Beckman Institute for Advanced Science and Technology, 1996-present; Faculty Member, University of Illinois, Urbana-Champaign Center for Biophysics and Computational Biology, 2000-2008; Associate Professor of Chemistry, University of Illinois, Urbana-Champaign, 2002-2004; Professor of Chemistry, University of Illinois, Urbana-Champaign, 2004-2008; Gutgsell Chair in Chemistry, University of Illinois, Urbana-Champaign, 2006 -2008; Professor of Chemistry and Photon Science, Stanford University and SLAC, 2009-present; David Mulvane Ehrsam and Edward Curtis Franklin Professor in Chemistry, 2009 - present.
Awards and Honors	President's Postdoctoral Fellow, 1994; Fulbright Junior Researcher, 1995; NSF CAREER Award, 1998; Research Corporation Innovation Award, 1998; Alfred P. Sloan Research Fellow, 1999; Beckman Young Investigator, 1999; Packard Fellowship in Science and Engineering, 1999; Dreyfus Foundation Teacher-Scholar, 2000; Helen Corley Petit Professor, 2002; University of Illinois, Urbana-Champaign University Scholar, 2004; John D. and Catherine T. MacArthur Foundation Fellow, 2005; American Physical Society Fellow, 2005; Fellow, American Association for the Advancement of Science, 2006; Gutgsell Chair in Chemistry, 2006; National Security Science and Engineering Faculty Fellow (NSSEFF), 2010-2015; Member, American Academy of Arts and Sciences, 2011.

Professor Martinez Laboratory

During the 75th Ira Remsen Memorial Lecture, on Tuesday, April 18, 2023, at Johns Hopkins University, Professor Todd Martinez acknowledged his group giving a detailed account of each one's work. He is very proud of his team and stated that his work success has to do with the enthusiasm and dedication of each one of the members of his laboratory.

Theoretical Chemist Todd Martinez develops an applies new methods that predict and explain how atoms move in a molecule. Learn more.

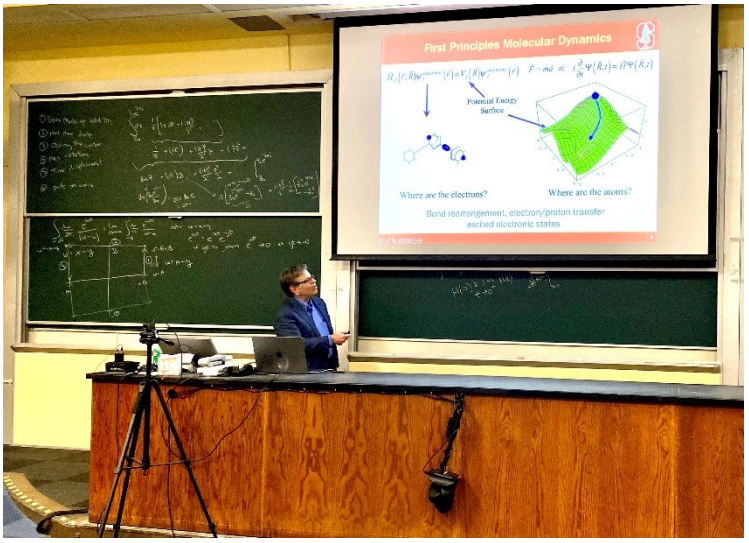
The Martinez Group →



The Ira Remsen lecture started with a warm and fun introduction by professor Toscano, Chemistry Department Chair at JHU. Professor Martinez began his lecture with the serendipitous discovery of steel in 2000 BC. Then he explained the first principles of molecular dynamics (Pic 1). He discussed faster and better hardware (GPUS) and moved onto complex reactions on both ground and excited states. In this area Dr. Martinez explained combustion, atmospheric pressure and catalysis. Among other points of discussion, he explained AIMD and newer opportunities in "discovery based" simulations.

The SLAC lab is open to the public where tourists and students can learn about the accelerator laboratory (3.2 Km long). They have many programs for children where they explain molecular motion using artificial intelligence. The front cover of this issue shows an application that is free where teachers and students can visualize any molecule in 3D and rotate it in many directions for better understanding of the chemistry of the molecules.

JHU Chemistry Dept. Chair, Professor Toscano



Pic. 1 -Professor Martinez "First principles of molecular dynamics

Dr. Ferraris Chem. Dept. Chair, McDaniel College honors Professor Martinez

Ira Remsen Lecture's reception

OUTREACH
from SLAC

Capturing Molecular Motion using Artificial Intelligence | SLAC National Accelerator Laboratory (stanford.edu)

MVV_brochure_webfinal_spreads.pdf (stanford.edu)

MolAR Augmented Reality 4+
AR for chemistry
Sukolsak Sakshuwong
Designed for iPad
★★★★★ 5.0 • 4 Ratings
Free

PROGRAM "FREE" for teachers and chemistry enthusiasts
Download the apple free application on your iPad.

EDUCATION

https://pubs.acs.org/doi/10.1021/acs.jchemed.2c01131?utm_source=SendGrid_ealert&utm_medium=ealert&utm_campaign=ASAP_jceda8_v0_i0

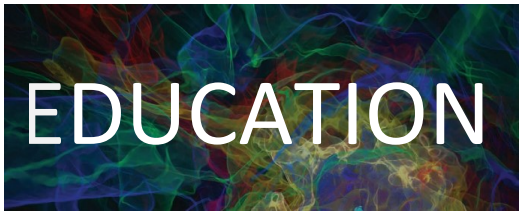
Content

1. **App-Free Method for Visualization of Polymers in 3D and Augmented Reality**
   Hootan Roshandel, Matthew Shammami, Shiyun Lin, Yin-Pok Wong, and Paula L. Diaconescu
   Journal of Chemical Education **Article ASA**
   DOI: 10.1021/acs.jchemed.2c01131

- CORE Science Institute (CSI)
- SLAC Regional School Science Bowl for Middle School

- Raising Interest in Science and Engineering (RISE) Program
- SLAC Regional High School Science Bowl
- SAGE Camp (Science Accelerating Girls' Engagement)

- Community College Internship (CCI)
- DOE Office of Science Graduate Student Research Program (SCGSR)
- LCLS Internship
- Minority Educational Institution Student Partnership Program (MEISPP)
- Oak Ridge Institute for Science and Education (ORISE)
- SAGE Internships (Science Accelerating Girls' Engagement)
- Science Undergraduate Laboratory Internship Program (SULI)
- SLAC Summer Institute (SSI)
- SLAC Summer Internship Program
- STEM Core Community College Internship Program (STEM Core)
- STEM Teacher and Researcher (STAR) Program



https://www.chemistryworld.com/news/app-creates-floating-3d-molecules-from-hand-drawn-chemical-structures/4014182.article

https://apps.apple.com/us/app/molar-augmented-reality/id1559504847

ACS Maryland Local Section congratulates Professor Todd Martinez, Stanford University for his 2021 Ira Remsen Award.

Thank you for your interesting lecture!

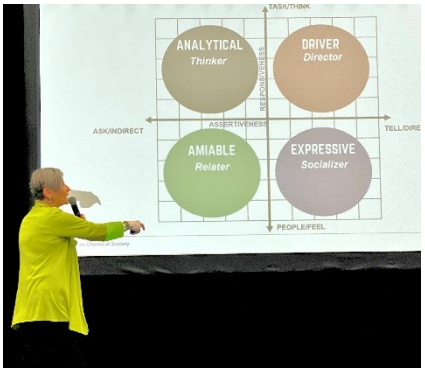
2 Report

ACS 2023 SPRING MEETING

ACS President Judy C. Giordan, 2023

It is an honor to serve as ACS President. "The focus of all of my work is three-fold with the aim to ensure:

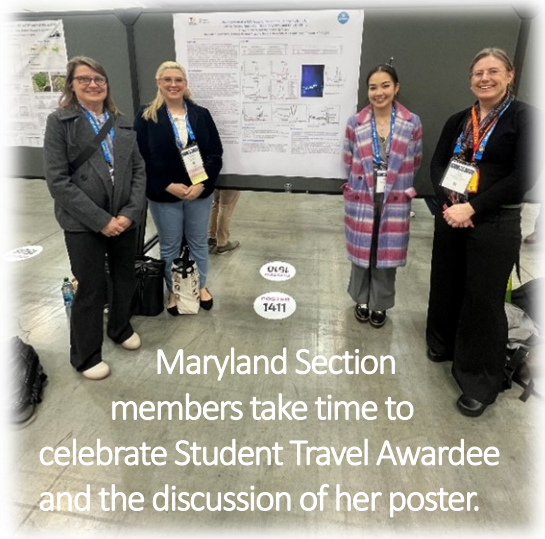
- Chemists are a trusted voice for the chemical sciences and scientists/engineers with all people.
- Members and ACS remain a strong force and advocate for the chemical sciences and chemical scientists/engineers and to build global societal value with chemistry.
- We all walk-the-walk to embrace diversity, equity, inclusion and respect (DEIR).



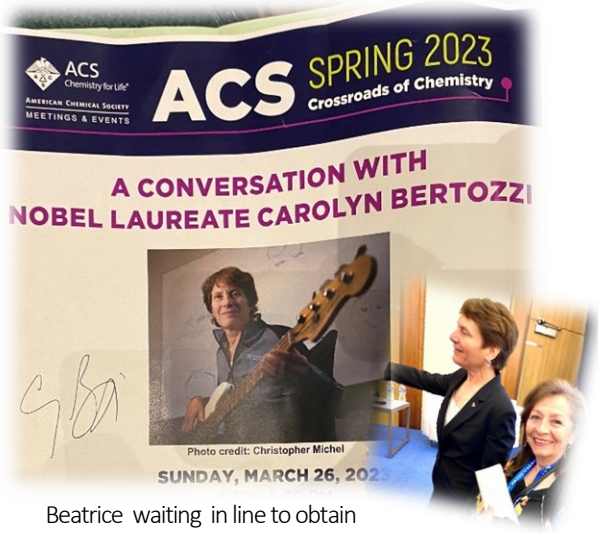
Judith C. Giordan enthusiastically celebrates chemists and promotes the building of trust in scientists and science. Use the QR above to join the **Speakers Directory,** one of the main ideas of Dr. Giordan.

ACS President J.C. Giordan presented a great example of how we perceive ourselves in the work setting and in life. By analyzing our behavior on all occasions of our daily life we can categorize our performance and visualize how we project ourselves to others.

ACTIVITIES: Priestly Medalist, student chapters, local section posters, and 2023 ACS Spring poster.



Maryland Section members take time to celebrate Student Travel Awardee and the discussion of her poster.



Beatrice waiting in line to obtain an autograph and shake hands … she got it!

Jillian at the Laureates night celebration.

COUNCILOR'S REPORT

Council Meeting March 29, 2023, Indianapolis. Attended in-person: Kelly Elkins, Councilor 2023-2025; Beatrice Salazar, Councilor 2021-2023, Stephanie Watson, Councilor 2021-2023 and virtually Jan Kolakowski, Councilor 2021-2023. The following report was compiled by Jan Kolakowski.

Report on the ACS Spring 2023 Council Meeting

The Council for the 265th meeting of the American Chemical Society met in Indianapolis on March 29, 2023. The four-hour meeting was held in a hybrid manner, with both in-person and online attendees. All four Maryland Councilors (Kelly Elkins, Jan Kolakowski, Beatrice Salazar, and Stephanie Watson) were in attendance. The ACS Spring 2023 National meeting was also held in a hybrid manner from March 26-30, 2023. As of March 29, there were 12,623 registrants (10,792 in-person and 1,831 virtual).

Actions of the Council

The Committee on Nominations and Elections (N&E) presented to the Council three nominees for selection as President-Elect, 2023: Mary K. Engelman, Dorothy J. Phillips, and Florian J. Schattenmann. The fourth nominee withdrew for personal reasons prior to the Council meeting. By electronic ballot, the Council selected Dorothy J. Phillips and Florian J. Schattenmann as candidates for 2024 President-Elect. These two candidates, along with any candidates selected via petitions, will stand for election in the Fall 2023 National Election.

N&E announced the results of the election held prior to the hybrid Council meeting. By internet ballot, the Councilors from District III (which includes the Maryland Section) selected Diane Krone and Helen (Bonnie) A. Lawlor as District III candidates for the term 2024-2026. Councilors from District VI selected Janet L. Bryant and Jeanette M. Van Emon as District VI candidates for the term 2024-2026. Ballots will be distributed to members residing in Districts III and VI around October 1, 2023, for election.

N&E announced the selection of the following candidates for Directors-at-Large for the 2024-2026 term: Wayne E. Jones, Jr., Daniel Rabinovich, Carolyn Ribes, and Joseph P. Stoner. The election of two Directors-at-Large from among these four candidates, and any selected via petition, will be conducted in the fall. Ballots will be distributed to the Council around October 1, 2023.

N&E reminded Councilors that any petition candidates to ACS National Office must be certified by the July 15 deadline to be placed on the ballot this Fall.

By electronic ballot, the Council elected Daniel Rabinovich for a two-year term (2023-2024) on the Committee on Committees (ConC).

On the recommendation of the Council Policy Committee Council, (CPC) approved the Petition to Amend the Duties of the Council Policy Committee to authorize CPC to review the conduct of Councilors.

On the recommendation of the Committee on Committees, and with the concurrence of the Council Policy Committee, Council approved the Petition to Amend the Duties of the Committee on Environmental Improvement to change the name of the committee to the Committee on Environment and Sustainability.

On the recommendation of the Committee on Nominations and Elections, and with the concurrence of the Council Policy Committee, Council approved the Petition to Add Plan B to Council Meetings, which authorizes the postponement of voting at Council in case of technology failures or natural disasters.

On the recommendation of the Committee on Membership Affairs, Council approved the 2024 schedule of membership. A key provision drops the 70-year age requirement for Emeritus Members and instead bases their eligibility on being retired from full-time professional employment with at least 35 years of paid ACS membership. The 70-year age requirement was among the most stringent when compared with other professional societies.

The Committee on Local Section Activities announced the launch of the ACS Speaker Directory, a new resource for our component group leaders to access a wide range of speakers for in-person, hybrid, and other events. President Giordan requested that members sign up for and use this valuable resource. (Note: The Maryland Section used the Directory to obtain a Women Chemist speaker for our February meeting)

President Judith Giordan introduced and led a special discussion on the ongoing review of Society Committees. She sought Councilor input of positive ideas, key issues, and opportunities to improve the structure of committees. Councilors provided their ideas and thoughts, and relevant Society units will receive this input within the next several weeks.

The Council passed the following resolutions:

In memory of deceased Presidents Brian M. Rushton and Dr. S. Allen Heininger.
In memory of deceased Councilors Yorke E. Rhodes and Maurice M. Bursey.
In sincere appreciation of the Indiana Local Section, the host Section for the Spring 2023 ACS meeting.

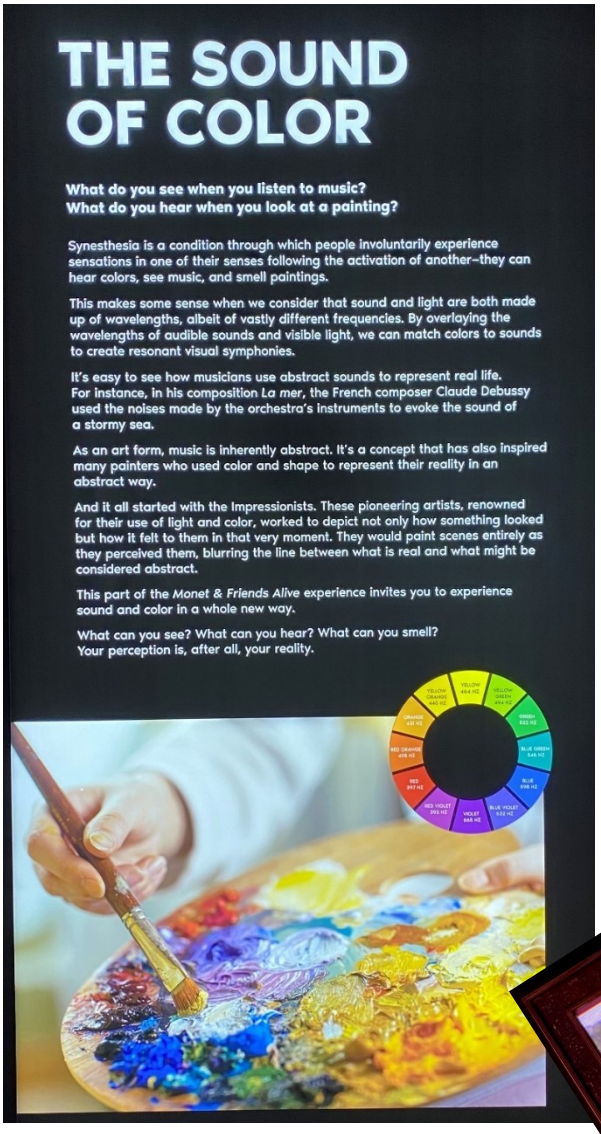
Respectfully submitted,
Jan Kolakowski
Councilor, ACS Maryland Section

Art & Chemistry at the Indianapolis Art Museum

Chemists attending the 2023 ACS Spring Meeting enjoyed the last day of the conference at the Art Museum in Indianapolis. Wine, cocktails and other drinks along with boxed dinner were distributed. The Museum in conjunction with the ACS Indianapolis local section had prepared an unforgettable night at the museum where scientists and curators dressed in pastel colors explained the chemistry behind the classical art, modern art and technology used in art.

Yolmarie L. Del Valle Gonzalez chemistry student from Puerto Rico Section

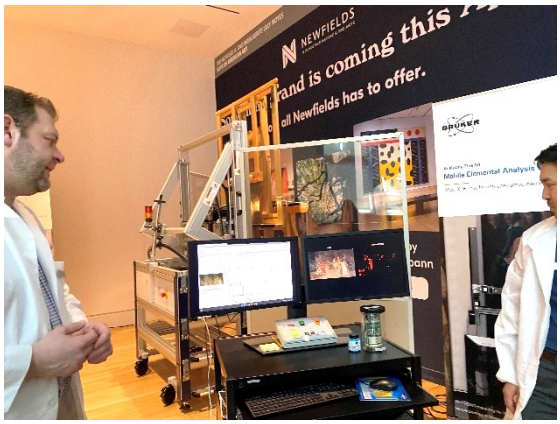
https://discovernewfields.org/do-and-see/places-to-go/indianapolis-museum-art



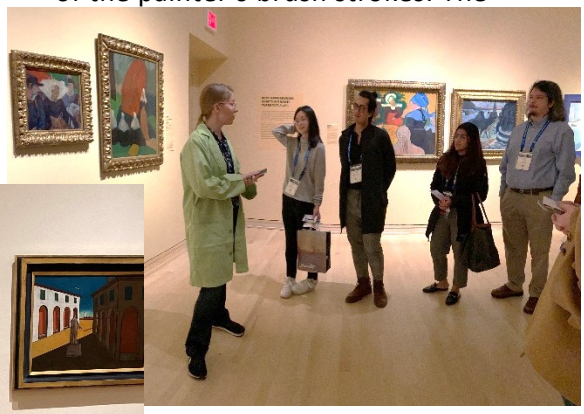
Interactive ART

Chemists enjoy the opportunity to create a masterpiece.

New technology allows visitors to select a painter and a painting and become part of the painter's brush strokes. The



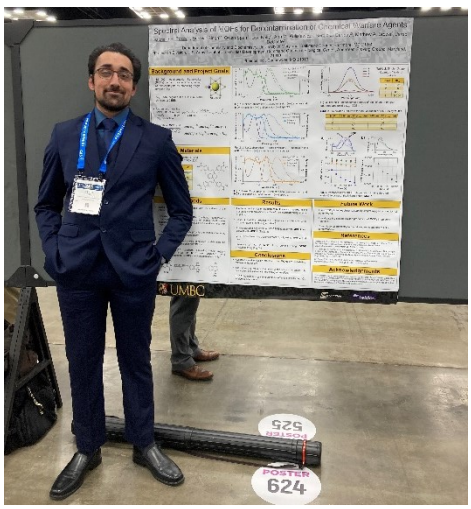
What is behind that painting? Another drawing, a different color? Experts explain the chemistry behind the different colors exposed after analysis is performed on an old baroque painting during restoration.



Analysis of the paint-colors in a painting allows us to verify the authenticity of the painting. Certain colors were not available at the original time of the panting. Was it repainted?

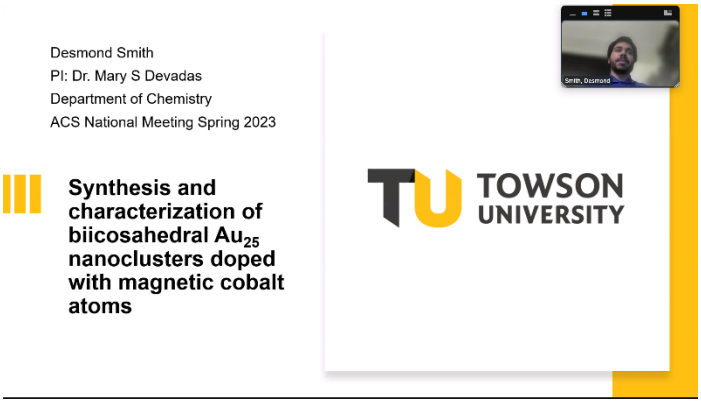
3 Report

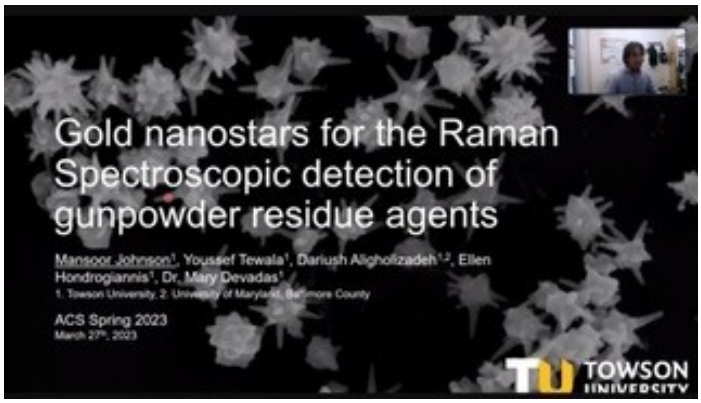
STUDENT TRAVEL AWARDS

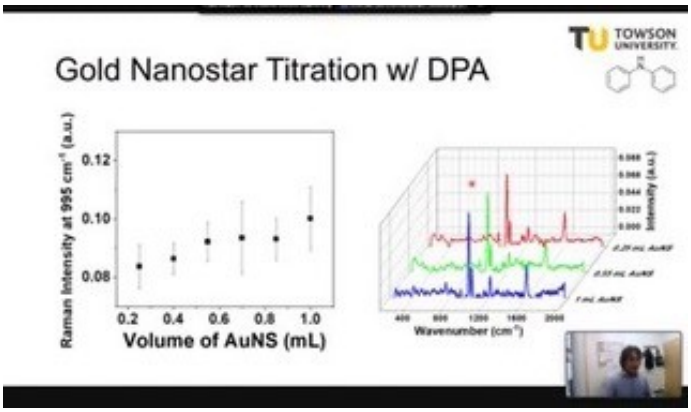


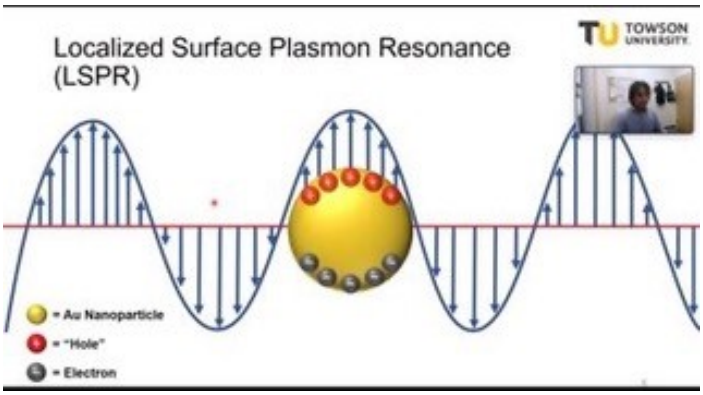
Sukhvir Singh student at the Department of Chemistry and biochemistry, University of Maryland Baltimore County (UMBC) proudly poses here in front of his poster and the 2023 ACS Spring Meeting poster. He enjoyed this meeting to the fullest.

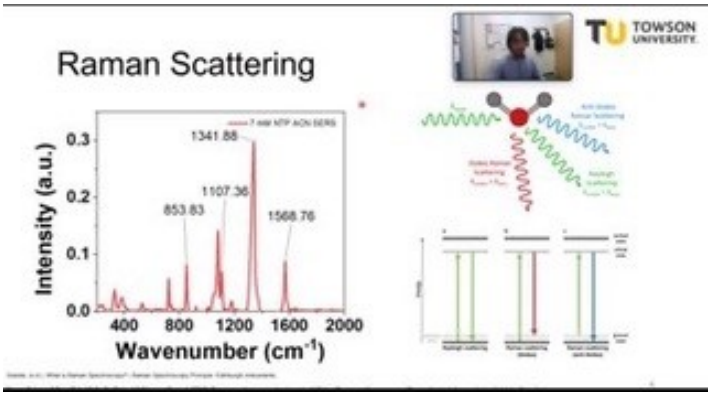
Sukhvir, also presented his poster at the Student Awards Ceremony on April 16, 2023, at Notre Dame of Maryland University. **He was the winner of a travel award to attend the 2023 ACS scientific meeting and he was honored by his research advisor, Dr. Lisa Kelly, to receive the 2023 Student Award** (p. 18)**.** Congratulations on your numerous awards!

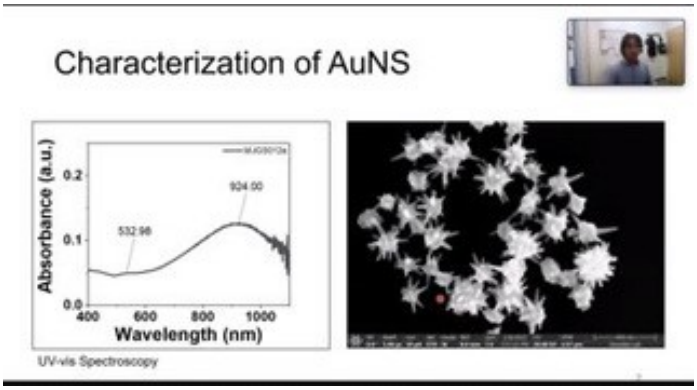












Desmond Smith, a student travel awardee at Towson University (TU) made a virtual presentation for the 2023 ACS Spring Meeting in Indianapolis, the above slides were discussed during his presentation.

Louise Hellwig, Ph.D.

Student Travel Awards are given twice every year to undergraduate students that want to present their research at a National Meetings. To inquiry about this award contact Chair of the awards committee Dr. Louise Hellwig (see p. 27) at Morgan State University of use the section's website https://acsmaryland.org.

Read poster abstracts…→

THANK YOU, ACS MARYLAND SECTION

By Desmond Smith

My time during the virtual meeting for the ACS national meeting was rather new and (honestly) a bit anxiety inducing. The reason I hadn't attended the meeting in person was due to self-fear and nervousness, and even during the virtual meeting I was faced with that same fear of anxiety. I always enjoyed new things, and I never attended an ACS national meeting till now. It was very enjoyable, as I was capable of being able to relate my own research to many others who work in a similar field in different regions of the world.

Many of the participants in the meeting I attended weren't from the same region as I am; this did make me feel a bit more anxious, but I was rather gleeful by the fact that I, and many others, could relate and share our research together. My confidence grew as everyone was present, which allowed me to present rather well when my turn had come up. This meeting of course was a steppingstone for me, to grow in experience and confidence.

I very much hope and plan to attend the next ACS national meeting in person, this way I can have more experience in face-to-face conversations, express my research finer, and of course be able to travel and have a more exhilarating experience with other chemist of my field. In general, I was afraid, anxious, and nervous. However, I took this opportunity to grow, learn, and become more than what I already am. Luckily, I found exactly those aspects when I attended the virtual meeting and I hope to improve further by attending in person.

Travel Awardees speak about the award and share their experience.

Hello Dr. Hellwig,

"My presentation at ACS Spring was supported by a travel grant from MD ACS which covered my registration. Attached are images from my oral presentation. Thank you again for supporting my research!"

Best,
Mansoor Johnson

Dear Dr. Hellwig,

"Good morning. I hope you are doing well.
I want to thank you again for the travel award to attend the ACS meeting. I had a great time at the conference and learned a lot.
Hereby, I am attaching the pdf file with my experience summary, receipts and the picture".

Best,
Divya

By Anna McClain

I enjoyed my experience at the ACS conference this year. It was a great mix of learning by attending talks and poster-sessions and social time meeting new people and getting to know other students in my lab on a new level. This year I decided to branch out from just attending traditional research talks relevant to my work, so I attended several talks in the Justice, Equity, Diversity, and Inclusion in Chemistry Education session. I was happy to see that these important topics were given a platform.

Courtesy of Anna McClain, second from left. Anna's colleagues in her lab group

My favorite talk in that session was by Dr. Wink who discussed community engagement and the role of scientists in advocacy work. I found his approach and work very inspiring, and I hope I can channel some of his approaches to do community-engaged research in the future. I also really enjoyed the environmental poster session on Wednesday night. I appreciated the more informal and personable interactions with the presenters and that allowed me to ask many more questions. I also loved that I got to learn about 20+ different projects over the course of 2 hours including many projects that were very different from my area of research. Overall, I would say the conference was a success in my book and I appreciate the support you all provided to help me attend.

By Ewa Harazinska

My participation in the ACS Spring 2023 National Meeting in Indianapolis was a truly invaluable experience. I had the opportunity to meet multiple academics and chemists involved in ACS at the networking events, as well as acquainted myself with some of the companies involved in the field of computational chemistry. I was also able to develop professionally by attending career-focused talks and events. Finally, the poster sessions were a great way of discovering current research topics in different chemistry fields and getting to know other chemists.

Participation in the Women Chemists Committee Breakfast provided me a great way to connect with other women in chemistry and enjoy the talk by the keynote speaker, Dr. Mackiewicz, which shed the light on some of the invisible struggles that happen on the course of our careers.

I also attended the CMA Luncheon at which Prof. Hernandez presented the keynote lecture titled "A Cuban Campesino in Chemistry's Academic Court." His remarks made me aware of multiple equity issues currently being

Cont.

faced not only by academics, but all scientific communities in general. I was also able to attend ACS career events such as the "*Resume Development: Industry*" and "*Green Cards for Scientific Researchers*", followed by having a one-on-one meeting in career consulting. I consider those experiences extremely valuable, and they definitely gave me a broader idea of the nature of the job search for industry positions, especially as an international student.

Attending those talks definitely allowed me to familiarize myself with current research topics in that field, as well as the challenges that it faces.

Finally, my own oral presentation was well-received by the audience. Afterwards, I was able to strengthen the experience through very beneficial discussions on the topic with members of the audience. This gave me ideas for future directions of my research as well as potential collaborations.

My experience at the Spring ACS National Meeting definitely broadened my horizons and taught me many things, both professionally and scientifically. I am very grateful to ACS Maryland for helping me further develop as a scientist by supporting my attendance at this conference.

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4 Report

ACS 2023 STUDENT AWARDS

The Student Awards Ceremony was addressed by Dr. Matthew A. Zajac, a distinguished scientist who is currently the U.S. Head of Chemistry Development (Chemistry Manufacturing and Controls) from GlaxoSmithKline in Upper Providence in PA, Dr. Zajac talked about "Adventures in the Small Molecule Pharmaceutical Industry-Illustrations of Chemistry Careers in Big Pharma."

During the celebration awardees were presented and they talked for a few minutes about their career interests, their research and other activities and hobbies they have. This was a moment in which the audience felt closer to each one of the awardees and had the opportunity to know them better. Aiden Hathaway, Hartford Community College won everyone's heart for his great sense of humor and when he said he became interested in chemistry because of his admiration of Earth and the universe he lives in.

Awardees received their award certificates from the Student Awards Committee Chair, Sara Narayan, Ph.D. Awardees then proceed to introduce themselves to the audience and talk about their research.

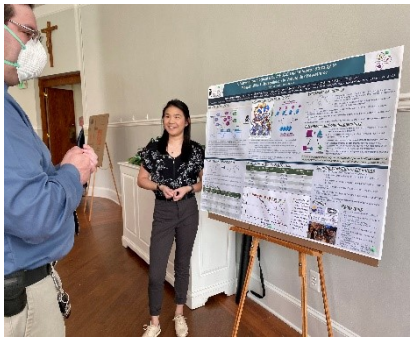
The excellent Speaker's presentation left attendees impressed with his research and accomplishments.

Dr. Louise Hellwig, an attendee and member of the ACS Maryland Section sent an accurate comment of the ceremony and presentation:

"*It's wonderful that our Section recognizes these students, and I'm sure their parents are very proud.*

Also, the speaker was great! The fact that he was once Sara's student is a great inspiration to the current seniors. If he can achieve so much, so can they. I also thought it was interesting that the speaker's parents were present also! No matter what your age, your parents can be proud of you!"

Congratulations to all Awardees
For your accomplishments in Chemistry
ACS Maryland Section wishes you the best on your career!

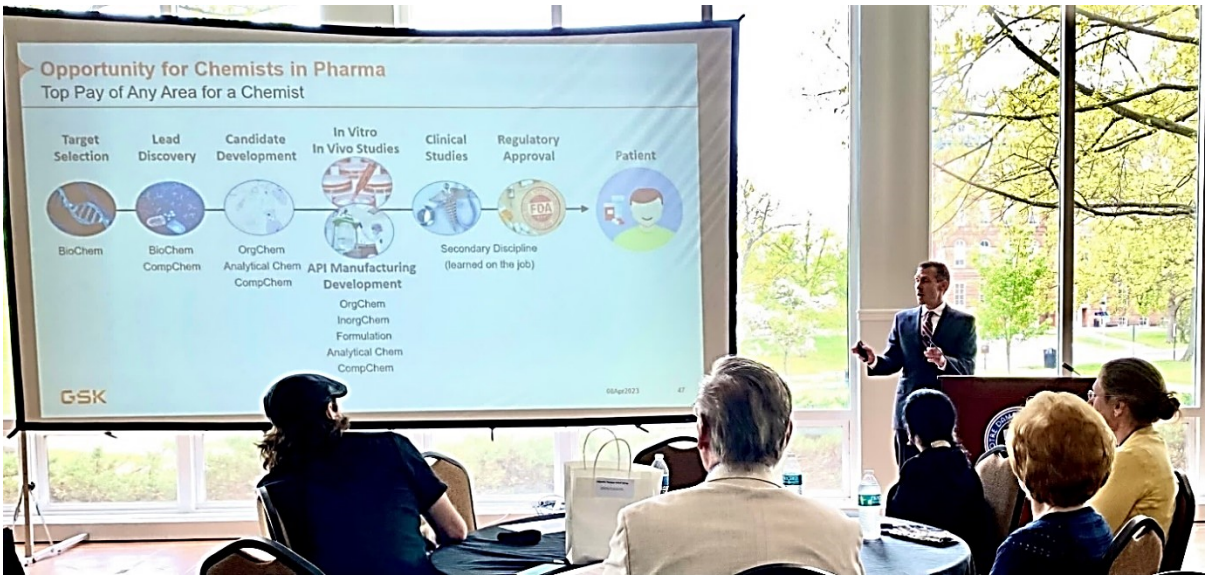


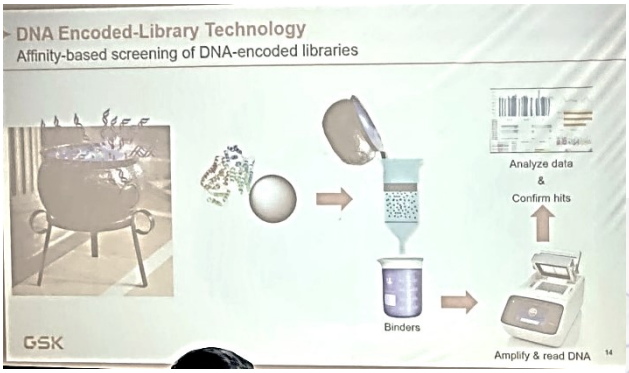
Student Travel Awardees present at the at the Student Awards ceremony.

Congratulations!

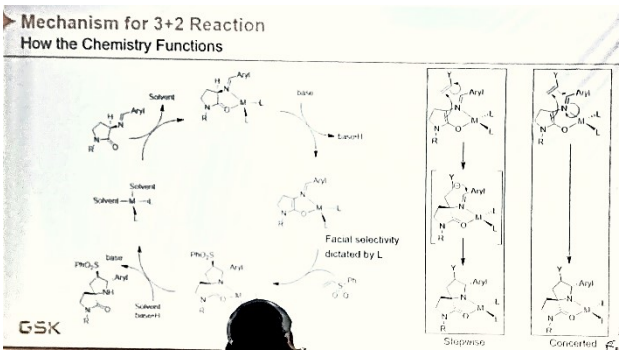
[Dr. Sara Narayan] and her former student and Student Awards presenter, Dr. Matthew A. Zajac.

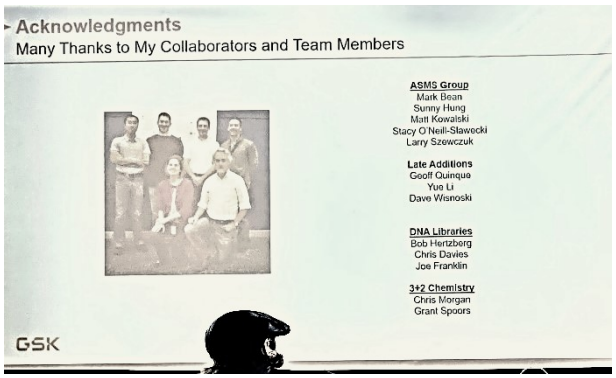
Dr. Matthew A. Zajac's Presentation at the Student Awards Ceremony





An excellent presentation, illuminating and with great illustrations for the future of chemistry (DNA libraries), clear mechanisms of reactions, and a recognition of his laboratory Team. These four slides are just a small sample of how complex research can be made clear and accessible to chemists and attendees of all ages. In the photo we can see Dr. Zajac's parents, he couldn't have better support than that!





5 Report

ACS MARYLAND U.S. NATIONAL CHEMISTRY OLYMPIAD

APRIL 22, 2023

USNCO 2023

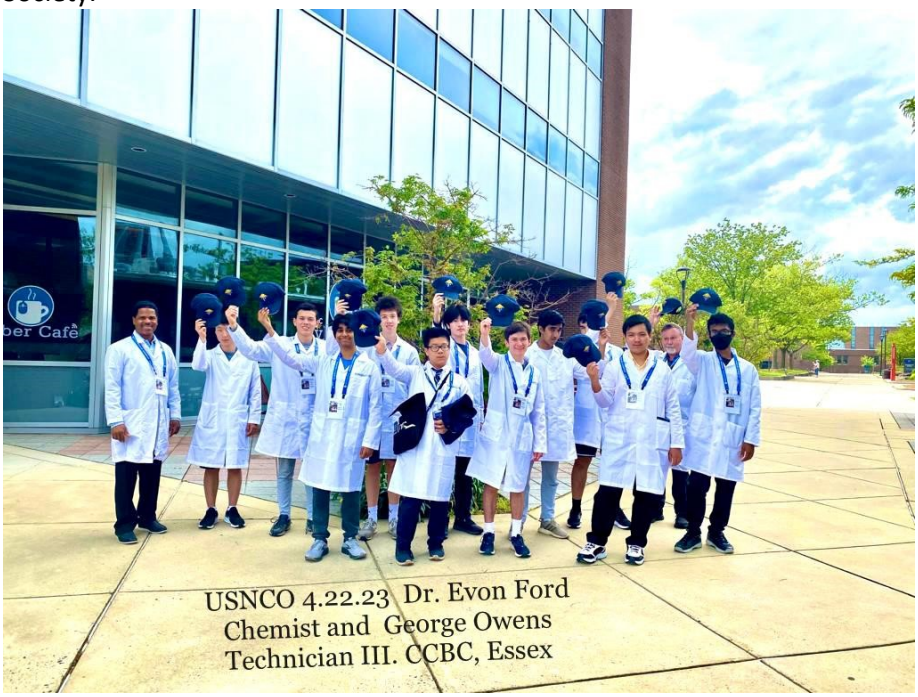
ACS USNCO U.S. National Chemistry Olympiad

U.S. National Chemistry Olympiad

Community College of Baltimore County (CCBC) Essex

THANK YOU CCBC, ESSEX!

Twelve High School Students in the Maryland area participated in the U.S. National Chemistry Olympiad (USNCO). They took a three parts ACS Maryland National exam on Saturday, April 22, 2023. The U.S. National Chemistry Olympiad took place at the Community College of Baltimore County, ESSEX. The ACS Maryland wants to express its gratitude to Dr. Evon G. Ford, Chemistry professor and Mr. George Owens, Technician III for their collaboration with USNCO, one of the best outreach programs, locally, nationally, and internationally from The American Chemical Society.



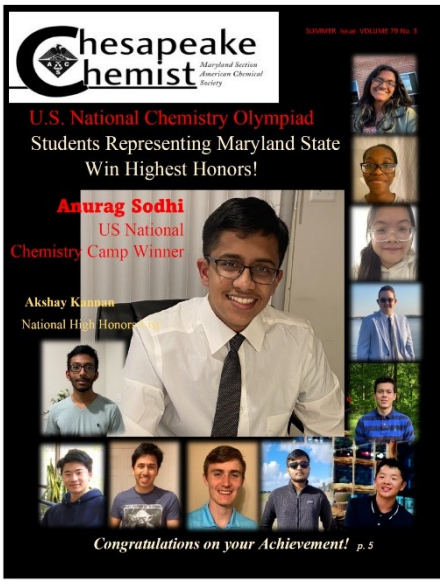
Dr. Evon G. Ford was key in the process and completion of this Olympiad, he was an excellent host and worked tidily in making sure the Olympians had everything they needed for their competition. As a result, students had a comfortable room for the written parts of the competition and the place for lunch was well equipped for a nice relaxing time before the second round of the competition. Thank you so much. The assistance of Dr. Ford was more than perfect.

In addition, and with all the admiration that he deserves, Mr. Owens did a magnificent job preparing the laboratory for the students. The materials, the chemicals, the set up were all incredibly accurate, well displayed and organized. The laboratory practical went by without any problem. The lab had an atmosphere that was inviting for these young future chemists. Thank you so much. Students and the coordinator felt good doing chemistry in such an inviting laboratory and highly appreciate the willingness to collaborate from both Dr. Ford and Mr. Owens.

In addition, we extend our gratitude to Camilo. Rojas, Ph.D. Former Associate professor at JHU. For assisting during the three parts of the exam and for being "the Pizza Man." An essential job during the competition.

Great News!

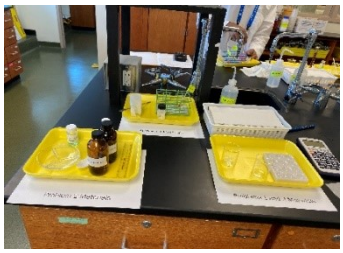
For the second time one of the Maryland Olympians won high honors and the opportunity to attend Chemistry study camp to compete for the international Olympiad, IChO. **Anurag Sodhi** from Centennial High School; teacher Dr. Robert Astri. Congratulations! You are one of the 20 best chemistry students in the nation!

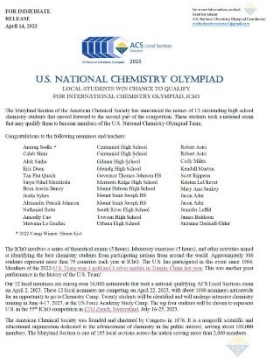


Student participating in Chemistry Camp in 2022 and in 2023!

Twelve high school students nominated for their high score in the Maryland local chemistry exam and for completion of all ACS requirements took PART I and PART II of the national exam in a classroom: Part -I was a multiple-choice exam. Part -II was problem-solving chemistry questions (Eight questions to be answered in essay format). These two exams have rigorous questions related to AP and higher-level chemistry. Part-III of the national exam was a laboratory where students solve two questions experimentally. These 12 Maryland students competed with 1600 more students nationwide. From these 1600 only 20 students were selected to go to chemistry study camp and from the twenty selected only four will represent the US internationally.

Laboratory set up.



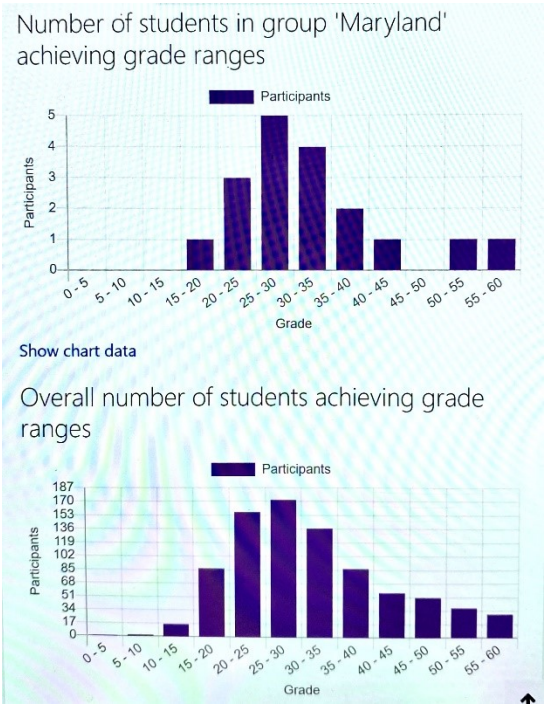


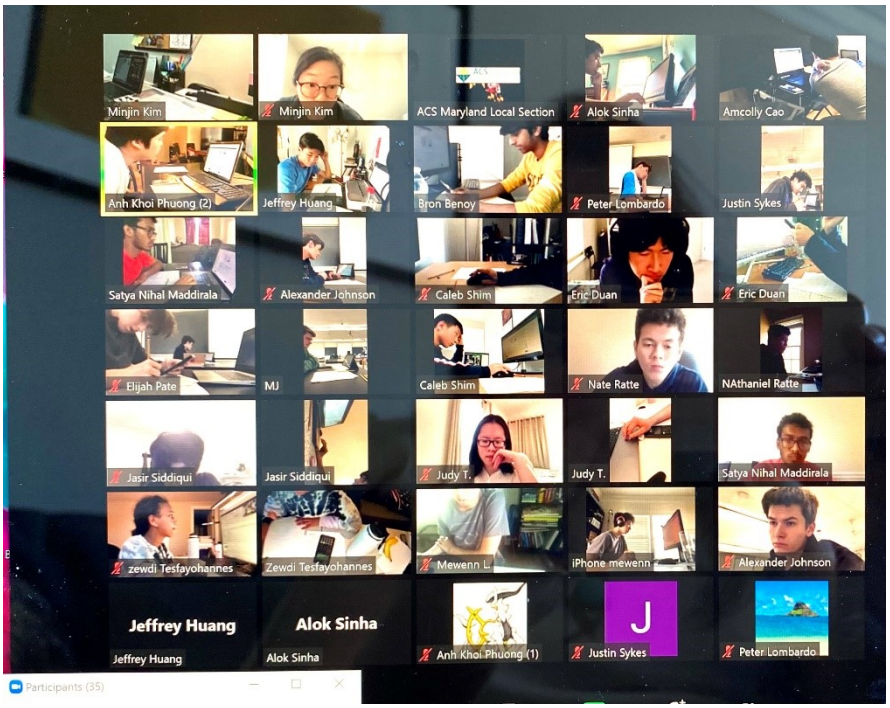
U.S. NATIONAL CHEMISTRY OLYMPIAD

LOCAL STUDENTS WIN CHANCE TO QUALIFY FOR INTERNATIONAL CHEMISTRY OLYMPIAD, ICHO

← PRESS RELEASE

SELECTION OF NOMINEES TO THE U.S. NATIONAL CHEMISTRY OLYMPIAD _ Thirty-Five High School students took the Maryland Local Chemistry Competition virtually; the rest took the local exam in-person at their respective schools. To select the candidates that will move to the U.S. National Chemistry Olympiad we used the highest scores of the local exam. The pre-selection took place between March 24-28, 2023.





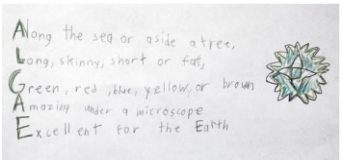
More information: please contact Beatrice Salazar USNCO Coordinator at ACS Maryland Section. USNCO_MD Web Page.

6 Report

ACS 2023 OUTREACH PROGRAM–EARTH WEEK

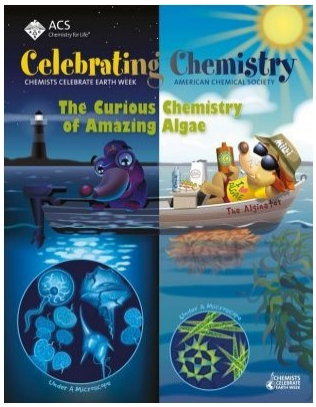
OUTREACH
https://www.acs.org/education/outreach.html

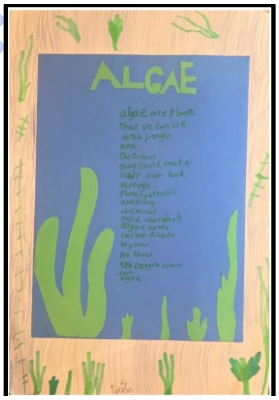
Camryn Torres
3rd Grade; Ellicott City



2023 CCEW Illustrated Poetry Submissions

CHEMISTS CELEBRATE EARTH WEEK





Teresa Carey
3rd Grade
Baltimore City

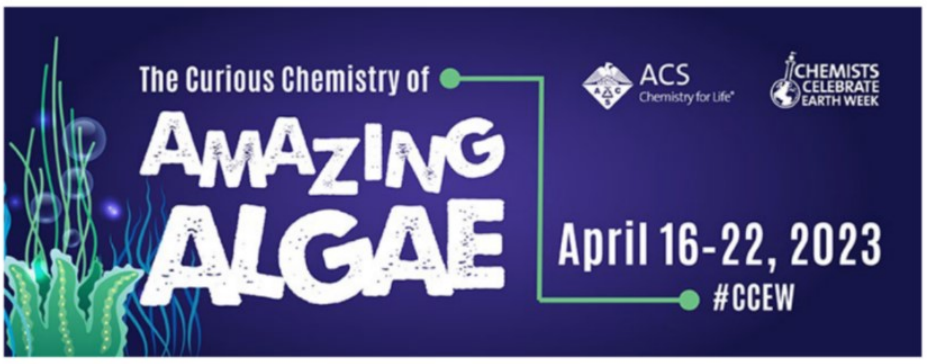
Gabby Cataldo
5th Grade
Baltimore City

#CCEW **Chemistry in the library** are hands-on experiments for students (7-8 grade). The program is sponsored by ACS Outreach using the 2023 ACS theme "*The Curious Chemistry of Amazing Algae*". For more information contact coordinator: Rose Pesce-Rodriguez.

The chemistry in the library is a great CCEW program so far. The program will continue in the future with a different theme.

Ten library programs have been completed so far and served 278 kids/adults.

The illustrated poetry contest was much less popular with the Algae theme; however, we are happy with the submissions and hope we will have better participation in the future.



Submit ideas for next year. You may contact Rose of write directly to #CCEW at ACS.

ANNOUNCeMeNTS

MIDDLE ATLANTIC REGIONAL MEETING

JUNE 9 - 10 | NEW YORK, NY

NEW Chair nominated for the Younger Chemist Committee

Congratulations to Olivia Harper Wilkins, Ph.D.

See the ACS Maryland website: https://acsmaryland.org for the YCC page and more information on this special program.

ACS Local Section Maryland YCC

Don't miss the Future Activities in May 2023 and more. See page 26.

2023 Administration Officers

2023 Section Officers

Chair 2023	Kelly Elkins, Kmelkins@towson.edu
Vice-Chair (Chair 2024)	Jiangnan Peng, jiangnanpeng@morgan.edu
Chair Elect (Chair 2025)	Beatrice Salazar, beatricesalazar1@gmail.com
Immediate Past Chair-2022	Sarah Zimmermann, scatzim@gmail.com
Secretary 2023-2024	Louise Hellwig, louise.hellwig@morgan.edu
Treasurer 2023-2024	Lee Lefkowitz, lee_lefkowitz@hotmail.com

2023 Committee on Nominations and Elections

Chair	Eric C. Cotton Chair 2021, ccotton2@ccbcmd.edu
Committee member	Jiangnan Peng, jiangnanpeng@morgan.edu
Committee member	Beatrice Salazar, beatricesalazar1@gmail.com
Committee member	Sara Narayan, snarayan5@yahoo.com
Committee member	Pumtiwitt McCarthy, pumtiwitt.mccarthy@morgan.edu

Council/Committees

2023-2025 Kelly Elkins, Nominations Committee, Kmelkins@towson.edu
2021-2023 Beatrice Salazar, HIS/DPR Division, CHED Committee, beatricesalazar1@gmail.com
2021-2023 Jan Kolakowski, Tech. Committee, jek6042@gmail.com
2021-2023 Stephanie Watson, stephanie.watson@nist.gov

Alternate Councilor

2023-2025 Jillian Malbrough	jillian.malbrough2@gmail.com
2021-2023 Alexander Samokhvalo	alexandr.samokhvalov@morgan.edu
2021-2023 Michele Foss	foss.michele@gmail.com
2021-2023 Robert Clapper	rob.clapper@scioninstruments.com

Member-At-Large

2023 Eric C. Cotton	ccotton2@ccbcmd.edu
2023 Nirupam J. Trivedi	nirupam.j.trivedi.civ@army.mil
2023 Olivia Harper Wilkins	olivia.h.wilkins@nasa.gov
2023 Rose A.Pesce-Rodriguez	rose.a.pesce-rodriguez.civ@army.mil
2023 Saraswathi Narayan	snarayan5@yahoo.com

AWARDS

Braude Award, L. Hellwig
Remsen Award, D. Ferraris
Maryland Chemist of the Year Award, B. Salazar
Senior Chemist Award, M. Eiss
Student Award, S. Narayan

PROGRAMS

Women Chemists Committee, S. Narayan/K. Elkins
Student Travel, L. Hellwig
High School Outreach: National Chemistry Olympiad & Chemists Celebrate Earth Day, B. Salazar
Middle and Elementary School Outreach (National Chemistry Week, Earth Week), R. A. Pesce-Rodriguez
Publicity, P. McCarthy / B. Salazar/ R. Clapper
Entertainment/Tours, M. Foss / L. Hellwig

Maryland Section Website/Social Media

2023 Webmaster	Nicole Carbonaro, ncarbonaro@towson.edu
Chesapeake Chemist Editor-in-Chief	Beatrice Salazar, Chair 2018, beatricesalazar1@gmail.com
Social Media Liaison	Pumtiwitt McCarthy, Chair 2020, pumtiwitt.mccarthy@morgan.edu
Local Section contact:	acsmarylandsection10@gmail.com

EVENTS CONTACT

The U.S. National Chemistry Olympiad USNCO MARYLAND URL: http://www.beatricesalazarusncocoordinator.webs.com **WCC February Lecture** Kelly Elkins & Sara Narayan	**Jan - April**
Student Travel Awards https://acsmaryland.org/travel-awards/ Email: Louise Hellwig <Louise.Hellwig@morgan.edu>	**Jan – March**
Student Awards https://acsmaryland.org/student-awards/ Email: Sara Narayan, snarayan5@yahoo.com, SNARAYAN@stevenson.edu **Chemists Celebrate Earth Day** – beatricesalazar1@gmail.com	**April**
National Chemistry Week / Earth Week Events Rose Pesce-Rodriguez **Chemists Celebrate Earth Day – Beatrice Salazar** http://acsmarylandevents2016.webs.com Beer & Social Tours: Louise Hellwig <Louise.Hellwig@morgan.edu> and Michele Foss <foss.michele@gmail.com>	**April - Oct.**
Senior Awards Email: Merle Eiss, meiss32@aol.com	**May**
Braude Award https://acsmaryland.org/braude-award/ Email: Louise Hellwig <Louise.Hellwig@morgan.edu>	**Oct.**
The Remsen Award https://acsmaryland.org/remsen-award/ Email: Dana Ferraris (dferraris@mcdaniel.edu) <dferraris@mcdaniel.edu>	**Nov.**
The Maryland Chemist of the Year Award https://acsmaryland.org/maryland-chemist-of-the-year/ Beatrice Salazar, Award Committee Chair	**Dec.**

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Receiving the Chesapeake Chemist

Hopefully, if you are reading the Chesapeake Chemist this month. You are receiving it via e-mail from us. We went to electronic-only mailings to our Maryland ACS membership in October 2006.

Changing your e-mail address? Moving out of the MD ACS area?

Let us update your email if you have any changes.

E-mail us at

acsmarylandsection10@gmail.com

Provide your ACS member number, full name, and email changes and we can ensure that your records are updated with National ACS.

Contact the National ACS membership division:

800-333-9511 (US only) or at service@acs.org to ensure that you receive the Chesapeake Chemist, and please add your ACS email.

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