Chesapeake Chemist

Maryland Section American Chemical Society

Vol. 81

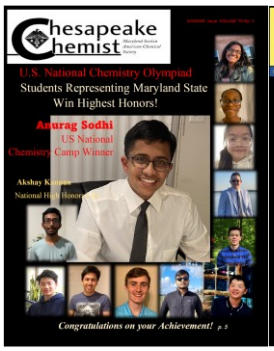
Issue No.2

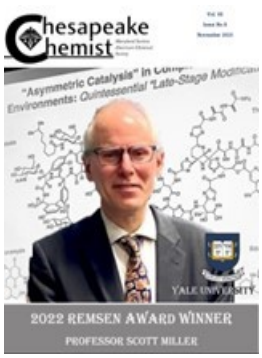
March/April 2024

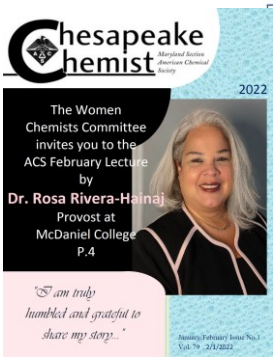
The Year of Education

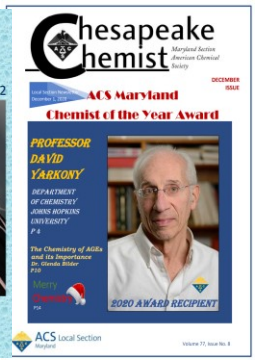
Student Awards

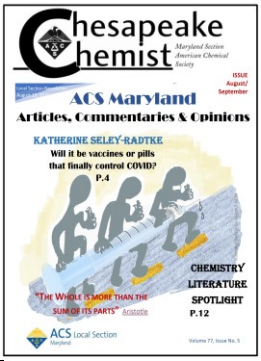
USNCO-2024

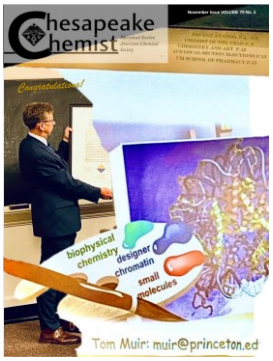


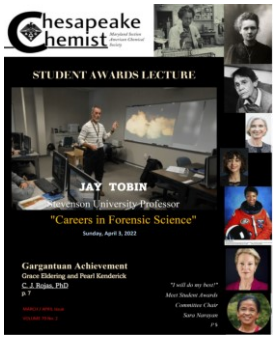












Maryland Local Section Newsletter

Editor-in-chief: Beatrice Salazar

CONTENTS

From the Editor's Desk...

I have been the editor of the Chesapeake Chemist Newsletter covering activities and events of the Maryland Local Section of the American Chemical Society since 2017. Now it is time to move on and give an opportunity to young talented chemists to continue the legacy.

In addition to articles on events, the Newsletter now includes *Literature spotlight*, *Books Section*, *"Laugh a Little"*, *and articles from current and retired chemists*. It was my intention to make the newsletter more entertaining while maintaining relevance to the goals, initiatives and interests of the Section.

The cover page in this issue is a look back and tribute to some of the reports that appeared in the Chesapeake Chemist Newsletter from 2017 to 2024. If there is an interest to access any of this material, you can use the following link: The Chesapeake Chemist.

I encourage all members of the Maryland section to continue sending news, articles and reports. You make the Newsletter happen; let's keep the flame alive.

I am thankful to all contributors and readers. It was a pleasure to volunteer for this job.

Beatrice Salazar,
Editor- in-Chief

The Chesapeake Chemist
a magazine and newsletter for chemists!

Contact Editor: beatricesalazar1@gmail.com
Contact ACS Maryland Section management 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.

2024 Maryland Local Section

Student Awards

Congratulations to all nominated college and university students of chemistry and related disciplines

Saraswathi Narayan
Chair and coordinator of the student Awards program,
snarayan5@yahoo.com

2024 Student Awards Ceremony 46th anniversary

By Sara Narayan Ph.D.

We are pleased to celebrate the 46th anniversary of the student awards ceremony on Sunday April 28- from 12-2:00 pm in Doyle Hall of Notre Dame University of Maryland hosted by Dr. Jason Labonte Assistant professor of chemistry at NDM.
I am honored to be the chair of the Student Awards Committee this year also.

History of Student Awards Committee, SAC: The Student Awards program started with Professor Carl Minier, Essex Community College of Baltimore in March 1978. Carl Minier was the chair for the American Chemical Society (ACS) Local Section for several years. The program was started to encourage and promote outstanding students in Chemistry to start their career as scientists. Since then, it has been held successfully every year in the month of April. The ACS Student Awards celebrates each year one outstanding chemistry student at each college or university that participates in the Maryland Section of the ACS. The Award ceremony is usually made at the spring meeting of the Maryland Local Section of the ACS, which is held on Sundays. I am incredibly happy to announce that the Awards Ceremony will be held in person and with a formal lunch.

The award is intended to encourage students interested in chemistry and to recognize students who display a significant aptitude for chemistry. It is intended to encourage further interest in the field. This is one of the most well attended ceremonies by students, their families, teachers, and mentors. About 20-22 students are selected from area colleges and universities. Only one Outstanding Chemistry Student is selected from each college and or universities by the chair along with other faculties.

Each student awardee will receive an Outstanding Achievement in the Field of Chemistry Certificate along with ACS souvenirs (mailed separately) and a copy of the April Edition of Chesapeake Chemist Newsletter (CCNL) with all the awardees' pictures. Formal Lunch will be served at the venue hall before the ceremony.

This year the student Award ceremony will be addressed by Mr. Jason Price an experienced Head Wine Maker at Robert Craig Winery in the famous Napa Valley center who will talk about "Chemistries Impact on Wine Quality: Combating Smoke Taint in Recent Vintages." He has extensive experience in Industries and has a degree in Viticulture and Enology from the Prestigious University of California at Daves.

I am incredibly happy to say that Mr. Jason Price, my former chemistry student at Villa Julie College, now Stevenson University, dared to take my Physical Chemistry course and passed with excellent credentials.

Student Awards Lecture

Chemistry's Impact on Wine Quality: Combating Smoke Taint in Recent Vintages.

By Jason Price, Head Winemaker, Robert Craig Winery, Angwin, CA 94508

Biographical Reference.

Jason Price received his BS in Chemistry from Stevenson University in 1997. Immediately following graduation, he moved to Los Angeles, California and was hired by the Avient Corporation, former Polyone, as a Ramped Chemist working to develop various Plastisol and Latex formulations used in the Roto-mold industry. Moving back East in 2001, Jason began working as a Chemistry Lab Technician for the Hope Creek Nuclear Power Generating Station in Hancock's Bridge, NJ. Working as a Chemist in nuclear power is subject to rigorous procedural compliance and therefore effectively breeds an industry of competent scientists dedicated to public safety and sustained infrastructure. In 2006, during a visit to a small commercial Winery in Lancaster County, Pennsylvania Jason struck up a conversation with the winemaker and talked his way into working part-time on his days off from the power plant. One year later, Jason ceremoniously left nuclear power to pursue a career in winemaking. After 3 years working in the cellar and vineyards in Pennsylvania, Jason moved back to California in 2009 to attend the prestigious University of California at Davis Viticulture and Enology program. After graduation, Jason continued to work in Napa Valley, eventually joining Robert Craig Winery as Assistant Winemaker in July 2015 and then promoted to Head Winemaker in 2019. Jason continues to guide the Robert Craig portfolio of wines using his Chemistry Education to optimize each wine's potential.

Jason Price

"The application of microbiological and chemical practices has allowed winemakers to control the process of converting grapes into premium wines"

◆

"The ability to target bonded smoke derived volatile phenols in wine and remove those compounds prior to bottling has been essential in saving the most challenging vintages"

Estate Cabernet Sauvignon Howell Mountain and Gaps Crown Chardonnay Vineyard


LECTURE ABSTRACT BY JASON PRICE

The earliest evidence of winemaking dates back to 7000 BC. It's astounding to consider that between then and the 19th century little was known about the process of fermentation and all wines were produced with nothing much more than happenstance. It wasn't until the mid-19 century that our understanding of spoilage microorganisms allowed science to intervene and produce wines that could be optimized for quality and aging purposes. Ever since then the application of microbiological and chemical practices has allowed winemakers to control the process of converting grapes into premium wines. Simply applying the most rudimentary understanding of the relationship between pH and wine health has allowed even home winemakers to craft exceptional wines. However, even with the best intentions for our wines, commercial winemakers can be met with formidable challenges that can adversely affect wine quality. The combination of vintage variance and the increasing pressures of climate change has demanded that commercial winemaking become increasingly reliant on good chemistry practices. The international Enological and Viticultural community has committed over a century and a half's worth of continued research into employing scientific understanding to equip winemakers with the tools necessary to remain competitive in the high stakes industry of luxury wines. In recent years, many grape growing regions including Australia, California, and Oregon have been negatively impacted by wildfires. Grapes exposed to extended hours of heavy stagnant smoke from wildfires will likely result in a wine with undesirable aromas and flavors of campfire, ash tray and smoked meat. The presence of smoke taint can ruin an entire vintage and therefore have devasting economic impact on a vineyard and/or winery. The ability to target bonded smoke derived volatile phenols in wine and remove those compounds prior to bottling has been essential in saving the most challenging vintages. Only in its nascent development and understanding, establishing the levels of smoke tainted compounds in fermented wine and utilizing reverse osmosis to reduce these compounds is a technology the wine industry is heavily dependent on in the most challenging vintages (growing season).

The Student Awards Ceremony
Sunday April 28- from 12-2:00 pm
Doyle Hall of Notre Dame University of Maryland
Hosted by Dr. Jason Labonte
Assistant Professor of Chemistry at NDM.

A team Effort... The work of Jason price, Ph.D. and his colleagues.

Robert Craig Barrel Warehouse

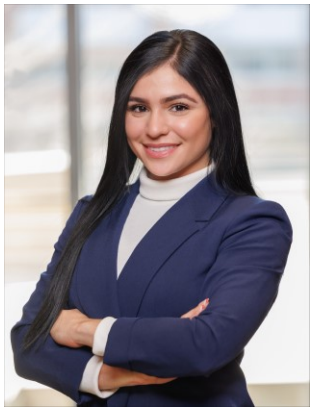
Congratulations to all Student Awardees of 2024

Aaliyah Hughes
BCCC

Anjolie Tuazon
Howard Community College

Anthony Rispoli
Hood College

Ashley Roman
Coppin State University

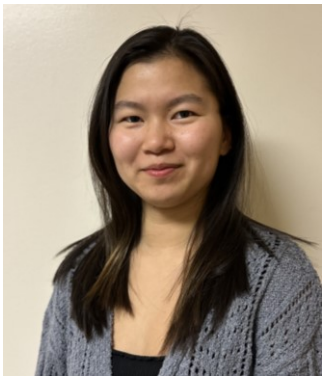


Brendan Manetz-Frederick
Community College

Colin Hughes
AACC.edu

Dalton Pearl
McDaniel College

Darcy McFarland
Goucher College



Congratulations to all Student Awardees of 2024

David Estes
Washington College

Em Ambrosius
JHU

Jayne Zeller
CCBC

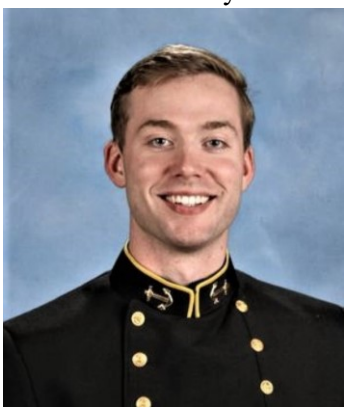
Leah N. Whitehouse
ST. Mary's College

Martin Alexander Shoap
Harford Community College

Nadia Abi
Notre Dame of MD Univ.

Paityn-Amor Brooks
Morgan State University

Richard Carter III
US Naval Academy



Ryan Hoffman
UMBC

Scott Bernota
Towson University

Victoria Loughran
Loyola University

Victoria Tavernier
Mount St. Mary's College

Twenty students at twenty different colleges or universities, the future of chemistry is promising. Great Job!

USNCO-2024 REPORT

ACS USNCO-Maryland Section Chair/Program Coordinator
Beatrice Salazar contact: beatricesalazar1@gmail.com

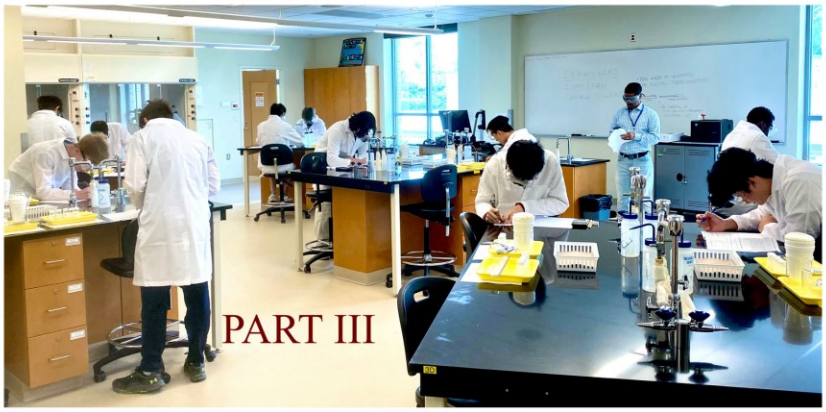
April 20th marked the beginning of a strong collaboration between CCBC, Essex, CCBC, Catonsville and ACS Maryland Section. This is the third time that professors at these colleges have hosted the US National Chemistry Olympiad.

Collaboration brings success! The USNCO-2024 took place on Saturday April 20th at CCBC Catonsville from 8:00 A.M to 3:00 P.M. Students behave incredibly well; one could feel their enthusiasm and camaraderie among themselves. We feel that strong academic relationships were formed that day. During the lunch period students discussed the exam questions, their difficulties, and what they like best. The professors who volunteer for the event asked them questions about their future plans and career desires. Students, all but two of them were pretty sure of what they want in the future. All mentioned chemistry and related disciplines; one mentioned that he was interested in computer science and another in AI.

Picture Report:

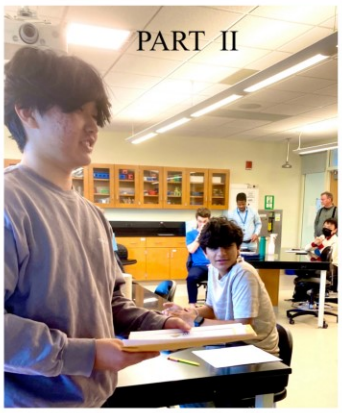
1. The Competition

Part I is a multiple-choice questions test to Cover a general knowledge of the chemistry content study at the honors and chemistry levels in high school. Student use regular desks and have 1hr and 30 minutes to complete their task.



2. Laboratory practical

Student design an experiment to solve two Lab questions. The laboratory was already set Up by George Owens, Lab. Technician III at CCBC Essex. All proctors and volunteers assist students in the approval of their procedure. Emphasis is placed on safety and a reasonable process that involves the use the materials provided.



3. Essay and Problem Solving

Students answer eight advanced question in chemistry. They have to recall chemical formulas, create and interpret graphs. The exam consists of providing accurate calculations and demonstrating the results, only answers are not acceptable. A good explanation backed up with accurate calculations will generate the highest points. Each question has a minimum of four embedded questions for students to analyze and respond to.

During the US National Chemistry Olympiad…

Thanks to all volunteers who served as hosts, proctors and encouraged students during the Chemistry Olympiad of 2024. We are a TEAM! And we have tried to act and work as a team.

THE TEAM: Evon Ford, Ph.D. Assistant Professor of Chemistry CCBC, Essex
George Owens, Laboratory Technician III, CCBC, Essex
Camilo Rojas, Ph.D. former Associate Professor, JHU, also "The Pizza man"
Beatrice Salazar, M.S. USNCO, Coordinator, Maryland
Jean Ashley, Dean CCBC, Catonsville

Awards

Students applauded the volunteers, thanked them and presented a gift and an award certificate to them.

After the last examination students received a certificate award from The American Chemical Society, a pin representing the 2024 USNCO competition and an award certificate to their respective teachers who had been key in the process of the competition since December 15, 2023, to April 19, 2024. Kudos to all these teachers and a big THANK YOU for encouraging these students in the learning of chemistry.

2024 Olympians

1.1 Tyler Wu, Marriotts Ridge High School
1.2 Rence Luo, Dulaney High School
1.3 Andy Ying, Montgomery Blair High School
1.4 Javesh Sood, Mount Saint Joseph, High School
2.1 Eugene Ki, Marriotts ridge High School
2.2 Dinobi Offurum, River Hill High School
2.3 Joseph Richer, mount Saint Joseph High School
2.4 Maxwell Swann, Centennial High School
3.1Daniel Son, Gilman high school
3.2 Caleb Shim, Centennial High School
3.3 Eric Duan, Glenelg High School
3.4 Copper Bowmann, Aberdeen High School

1.

2.

3.

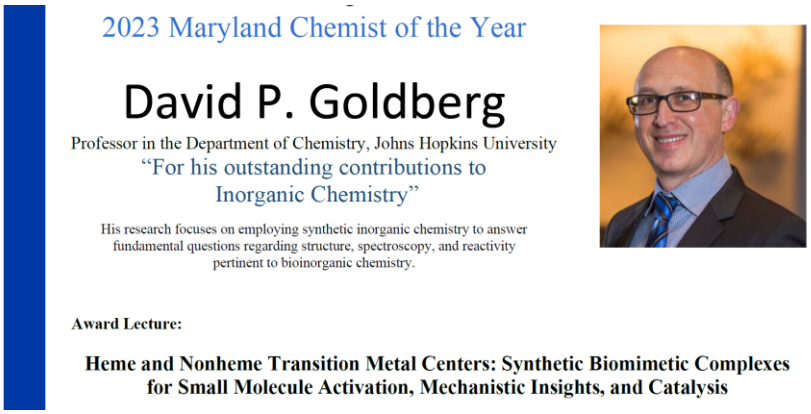
MARYLAND CHEMIST-2023

Report

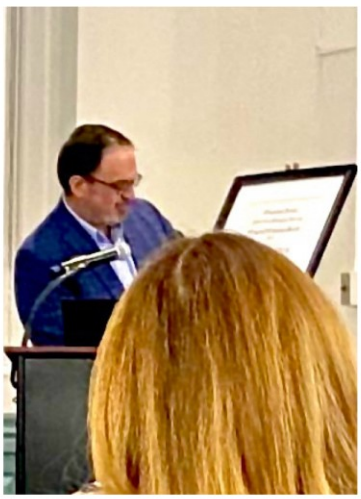
Chair/Program Coordinator

Beatrice Salazar contact: beatricesalazar1@gmail.com

The 2023
Maryland Chemist of the Year Award



February 8, 2024
Attendees: 59



Top left:

Previous years' Maryland Chemist of the Year Awardees, Professors **D. Yarcony 2020** (p.4-5), **K. Karlin, 2011** (link), **T. Lectka, 2017** (p.13), **D. Goldberg, 2023** (p.5).

Top right:

Professor J. Toscano, Chair and Professor of Chemistry, JHU, introduces Professor D. Goldberg.

Bottom left:

Professor Toscano reads the citation from the Maryland Chemist of the Year Award.

Bottom right:

ACS Maryland section members B. Salazar, Chair of the Maryland Chemist of the Year Award Committee and Professor J. Peng, Chair of the ACS Maryland Section, 2024, present Professor D. Goldberg with the 2023 Maryland Chemist of the Year award and the Governor's citation from the State of Maryland.

GOLDBERG LAB

All students from the Goldberg lab attended the Maryland Chemist of the Year 2024 ceremony and celebrated the triumph of Professor Goldberg.

The guests and the Chemistry Department's visitor professor from Yale university congratulated Professor Goldberg.

Special thanks to
John Toscano, Chemistry Department Chairman and
Ms. Clare Bindel, Administrative Coordinator, JHU Chemistry Department, for their assistance and collaboration with Beatrice Salazar Award Committee Chairman, ACS-Maryland. They made this celebration possible and a successful event

THE IRA REMSEN AWARD LECTURE – 2023 REPORT

IRA REMSEN MEMORIAL LECTURE

Thursday, April 18, 2024

Professor Steven Sibener

Carl William Eisendrath Distinguished Service Professor

Johns Hopkins University Department of Chemistry

ACS Chemistry for Life® Maryland Local Section American Chemical Society

A Multiscale View of Dynamical Processes at Surfaces using Molecular Beam Scattering, In Situ Scanning Probe Imaging, and Molecular Dynamics Simulations

This presentation will highlight recent contributions from our group in the areas of surface chemistry and gas-surface interactions. Information derived from molecular beam scattering experiments, in situ scanning probe microscopy, and numerical simulations are yielding a precise multiscale perspective of many important heterogeneous processes such as such as catalysis, reaction dynamics, collisional energy transfer, materials growth and erosion, ice formation, self-organization of polymers, and metallurgy of alloy superconductors. Our newest endeavor involves the concurrent use of neutral particle scattering coupled with in situ atomic-level STM visualization. Here single molecule events involving measurement of the distance and angle between adsorbed nitrogen atoms originating from the same dissociated N2 molecule on ruthenium are precisely determined over a range of impinging N2 kinetic energies and angles, revealing new information about spatio-temporal correlations and energy dissipation in chemisorption. Such measurements provide a window into on-surface chemical processes including non-adiabatic energy dissipation – reaction steps that complement the information available from more traditional scattering experiments. Today's talk will introduce heterogeneous studies from our group encompassing reactive events on semiconductors, metals and moiré graphene, materials growth, annealing, and erosion, and ice formation including molecular capture under non-equilibrium conditions – a topic of importance for astrochemistry and the involvement of terrestrial permafrost chemistry in climate change. Finally, we attribute a new phenomenon involving the observation of notable isotopic enrichment in condensed films to differential isotopic condensation probabilities under specific non-equilibrium collision conditions, findings which may provide a new pathway for creating isotopically pure materials suitable for quantum computation platforms.

LITERATURE SPOTLIGHT, samples

ARTICLES:

Dazzling Chemistry, see Chesapeake Chemist Vol 81, No. 1

Four, Five, and … what else? See Chesapeake Chemist Vol 80. No.4

World of Atoms, see Chesapeake Chemist Vol. 80 No.6

Gargantuan Achievement, see Chesapeake Chemist Vol. 79, No.2

PROGRAMS needing nominees

The George L. Braude Award Lecture

This award is endowed by the family of Dr. George Braude (1918 – 2002). At one point in his career, George Braude was employed at W.R. Grace.

Chair and coordinator of the program: Louise Hellwig, Ph.D.

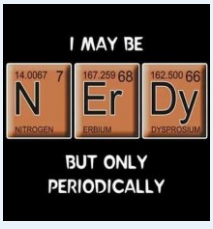
The Maryland Chemist of the Year 2024

This award is endowed by the Maryland Section of the American Chemical Society. It started in 1962 and it is the only award that precedes the ACS National award. Please nominate your colleagues, friends and scientists you know have excelled in the field of chemistry or related disciplines. Nominations are to be sent to the Award Committee Chair, Beatrice Salazar at beatricesalazar1@gmal.com

Courtesy of Pablo Rojas, The Catalvst. Boston. MA

Laugh a little…

1. If you're not part of the solution…you're part of the precipitate
2. Are you made of fluorine, Iodine and neon? Because you are just FINe
3. I have many chemistry jokes. I'm just afraid they won't get a good reaction!
4. What do you call an acid with an attitude? A-mean-oh-acid
5. Why is ammonia an easy gas to teach about? Because it's basic stuff.



Ranker

FUTURE EVENTS

PROGRAMS

STUDENT AWARDS

The Student Award Program coordinator, Sara Narayan, Ph.D. has announced the name of the speaker for the award lecture, Jason Price, read his biography and other details of the awards on page 4 and lecture abstract on page 5.
The ceremony will take place at Notre Dame of Maryland University on April 28, 2024, at noon.
Contact: snarayan5@yahoo.com

STUDENT TRAVEL AWARDS

The student travel awards application is open for the ACS National Spring Meeting in 2025.

The program coordinator Louise Hellwig, Ph.D. encourages all interested graduate students and post docs to take advantage of this opportunity and apply soon for the next ACS meetings in the spring and in the Fall.
Contact:
louise.hellwig@morgan.edu

WOMEN CHEMISTRY COMMITTEE, WCC

The coordinators of the program both, Sara Narayan, Ph.D. and Kelly Elkins, Ph.D. The 2024 speaker was Nicole Goodwin, Ph.D. from GSK. Her lecture was on February 19, 2024, in-person.

Accelerating Medicinal Chemistry through Modern High Throughput Experimentation.

The details of the lecture can be seen on the previous Chesapeake Chemist issue No.1.

THE 2023 MARYLAND CHEMIST AWARD

The 2023 Maryland Chemist award lecture and reception took take place at Johns Hopkins University on Thursday, February 8, 2024. Find the report on page 11 of this magazine. The next 2024 Maryland Chemist award will be announced in Sept. 2024.
Contact: Award Committee Chair
beatricesalazar1@gmail.com

The new Young Chemist Committee is planning a café event; for details contact committee chair,
olivia.h.wilkins@nasa.gov

MARM 2024 Celebrating Discovery

MIDDLE ATLANTIC REGIONAL MEETING

June 5 - 8 | State College, PA

MEETINGS

2024 EXECUTIVE COMMITTEE MEETING, No.1

Professor J. Peng, Ph.D. is the 2024 chair of the Maryland section. He planned the first executive meeting to be virtual and within the first two weeks of February. All members are encouraged to select the best available date and write their budget plan and activities to be discussed at this meeting.
iangnan.peng@morgan.edu

MINUTES of FEBRUARY 16, 2024, EXECUTIVE COMMITTEE MEETING

Minutes are available at the acsmaryland.org website.
Questions: contact Louise Hellwig
Chemistry Department, SP 212
Morgan State University
1700 E. Cold Spring Lane
Baltimore, MD 21251
443 885 2085

2024 ELECTED EXECUTIVE BOARD MEMBERS

Chair-Elect: VACANT

See the next pages of this magazine for names and positions of new leaders.

To announce any event contact : Chesapeake Chemist Editor in Chief.

2024 Administration Officers

2024 Section Officers

Chair 2024	Jiangnan Peng, jiangnanpeng@morgan.edu
Vice-Chair (Chair 2025)	Beatrice Salazar, beatricesalazar1@gmail.com
Immediate Past Chair-2023	Kelly Elkins, Kmelkins@towson.edu
Secretary 2023-2024	Louise Hellwig, louise.hellwig@morgan.edu
Treasurer 2023-2024	Eric C. Cotton ccotton2@ccbcmd.edu

2024 Committee on Nominations & Elections (Elected by current Section Chair)

Chair	
Committee member	
Committee member	Beatrice Salazar, beatricesalazar1@gmail.com (vice Chair)
Committee member	Sara Narayan, snarayan5@yahoo.com
Committee member	Pumtiwitt McCarthy, pumtiwitt.mccarthy@morgan.edu

Council/ACS Committees (3Yrs)

2022-2024 Kelly Elkins,	Kmelkins@towson.edu
2024-2026 Jan Kolakowski,	jek6042@gmail.com
2024-2026 Jillian Malbrough,	jillian.malbrough2@gmail.com
2024-2026 Stephanie Watson,	stephanie.watson@nist.gov

2024 Alternate Councilor (3-Yrs)

2024-2026 Noelle Neff	nneff@ccbcmd.edu
2022-2026 Olivia Harper Wilkins	olivia.h.wilkins@nasa.gov
2024-2026 Rose A.Pesce-Rodriguez	rose.a.pesce-rodriguez.civ@army.mil
2024-2026 Sunil Knonath,	skonath@ccbcmd.edu
2024-2026 Vacant position	

2024 Member-At-Large (1-Yr)

Ayse Gul Yavuz-Cular	ayavuzcular@ccbcmd.edu
Nicole Carbonaro,	ncarbonaro@towson.edu
Olivia Harper Wilkins	olivia.h.wilkins@nasa.gov
Rose A.Pesce-Rodriguez	rose.a.pesce-rodriguez.civ@army.mil
Saraswathi Narayan	snarayan5@yahoo.com

AWARDS

George L. Braude Award, L. Hellwig
Ira Remsen Award, D. Ferraris
Maryland Chemist Award, B. Salazar
Student Awards, S. Narayan
Student Travel Award, L. Hellwig
Senior Chemist Award, M. Eiss
Younger Chemist Award, O. H. Wilkins

PROGRAMS

Women Chemist Committee, WCC, S. Narayan/K. Elkins
High School outreach: B. Salazar
- National Chemistry Olympiad, USNCO
- Chemist Celebrate Earth Day, CCED

Middle & elementary School outreach:
- R. A. Pesce-Rodriguez
- National Chemistry Week, NCW
- Chemist Celebrate Earth Week, CCEW

Project SEED/ Summer-Research-PGM L. Hellwig
Publicity, B. Salazar/ N. Carbonaro
Entertainment and Sci-tours, M. Foss/ L. Hellwig

Maryland Section Website/Social Media

2024 Webmaster	Nicole Carbonaro, ncarbonaro@towson.edu
Chesapeake Chemist Editor-in-Chief	Beatrice Salazar, Chair 2018, beatricesalazar1@gmail.com
Social Media, Twitter, Facebook, etc.	Vacant position
Local Section official email contact:	acsmarylandsection10@gmail.com

EVENTS CONTACT

The U.S. National Chemistry Olympiad **USNCO MARYLAND** URL beatricesalazar1@gmail.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>	**Dec – March***
Student Awards https://acsmaryland.org/student-awards/ Email: Sara Narayan, snarayan5@yahoo.com **Chemists Celebrate Earth Day** CCED – beatricesalazar1@gmail.com	**April**
National Chemistry Week, NCW**/ Earth Week Events,** CCEW Rose Pesce-Rodriguez **Chemists Celebrate Earth Day**, CCED **–** beatricesalazar1@gmail.com http://acsmarylandevents2016.webs.com (being updated) 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** **June-August***
George L. Braude Award https://acsmaryland.org/braude-award/ Email: Louise Hellwig <Louise.Hellwig@morgan.edu>	**Oct.**
The Ira 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.**

*The travel awards program runs twice a year.

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