

Chesapeake Chemist

Maryland Section
American Chemical
Society

OCTOBER
ISSUE

Local Section Newsletter
October 1, 2020

ACS Maryland

**PROFESSOR
LEE BLANEY**

**DEPARTMENT
OF CHEMICAL,
BIOCHEMICAL,
AND
ENVIRONMENTAL
ENGINEERING,
UMBC**



2020 Braude Award Recipient

Newsletter

Editor in chief: [Beatrice Salazar](#)

Policy

Pumtiwitt McCarthy, Chair-2020
Sarah Zimmerman, Web Master
[Jennifer Schmitt](#), Social Media Liaison

CONTENTS

3/ Chair's Message

4/**Braude Award Winner**

Professor Lee Blaney

Associate Professor UMBC

5/ **Scientists Behind the Award**

[Beatrice Salazar](#)

MS Chemistry Graduate from UPENN

Special Articles

7/**HISTORY CORNER...**

The origin of the Braude Award

8 / **Books...**

[Camilo Rojas, Ph.D.](#)

Retired Associate Professor, Johns Hopkins

9 / **Maryland section ACS Honors**

Senior Chemists

Merle Eiss, Ph.D. Retired

10/ **Laugh a Little...**

11/ **ACS Maryland Volunteer**

Section

12/ **Announcements**

15/ **National Chemistry Week PGM**

Rose Pesce-Rodriguez, Ph.D.

16/ **Memory of people's Pandemic**

Experiences

19/ **Jobs**

20/ **Events Contact**

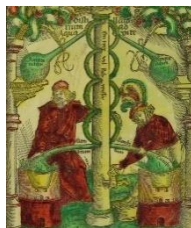
21/**Contact Administration**

Cover :



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ACS MARYLAND AWARDS



ACS Award is a distinction given to a recipient as a token of recognition of excellence in a certain field. On [June 18, 2020](#), ACS Maryland Local Section bestowed Professor Lee Blaney from UMBC the distinguished George L. Braude Award for his scientific work and commitment to chemical education.

Congratulations Professor Blaney for a job well done!

You can read about the work behind the 2020 award and Professor Blaney's lecture in this issue (p 4). He also wrote "*Contaminants of Emerging Concern in the Environment*" for the previous issue of the Chesapeake Chemist [Vol. 77 No. 4](#) (p 4).

There are several Braude awards; our award refers to the George L. Braude Award established in 2003 by ACS Maryland Local Section. Read on Dr. George L. Braude and his wife Monique Braude under the subtitle: "The Scientists Behind the Award and History Corner" (p 5-8).

We have a commentary on the Senior Chemist awards program by Dr. Merle Eiss (p9). The books section on what books have influenced you as scientist this time lists of five books chosen by C. Rojas, formerly Associate Professor at Johns Hopkins University (p 8).

This Fall the Local section will nominate and elect new officers for 2021. We have included information on the work involved and how to apply (p 12 - 14).

During the executive committee meeting held on Sept. 22nd, we discussed the possibility of including a section on how the pandemic experience has affected Maryland ACS members. In line with this proposition I have started this new section sharing my experience. I hope others will follow (p 16-17).

I am thankful to all contributors to the Chesapeake Chemist. I would like to remind all members of our standing invitation to submit entries to the different sections of the letter. It is enriching and fun to learn your thoughts on what is interesting or important. Contributions to history corner, highlights on recent scientific literature, books section, or anything relevant that comes to mind will be very much appreciated. These contributions are the newsletter.



Beatrice Salazar

Editor -in-Chief, ACS Maryland Section
Member since 2010 [See more from Beatrice Salazar](#)



CHAIR'S MESSAGE



**Pumtiwitt McCarthy,
Ph.D.
Associate Professor**

Chair, ACS Maryland Section
acsmaryland.org

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Dear members,

Fall is upon us rather suddenly it seems. The weather and the leaves are changing as they always do, providing something consistent in a time of immeasurable changes. While we can't yet meet to celebrate as we used to, we invite our members to join us virtually to recognize our Braude Award winner. Our winner, Dr. Lee Blaney is Associate Professor in the Department of Chemical, Biochemical, and Environmental Engineering at UMBC. The meeting will take place October 22, 2020 at 7 pm. Please RSVP to Dr. Louise Hellwig (Louise.Hellwig@morgan.edu).

All members are asked to consider becoming a volunteer in the section and run for any open positions in our organization. We have several open positions in 2021 including Chair-Elect, Councilor, Alternate Councilor, and Member-at-Large. Self-nominations are welcome. Description of what these positions require can be found here at <https://acsmaryland.org/description-of-positions/>.

The Maryland Section of the ACS strives to be an inclusive community where all voices are acknowledged and heard. Diverse perspectives can only enrich the chemistry community and we hope that you interact with the section through our events, social media accounts and our newsletter. All the recent submissions to our newsletter have been amazing and much appreciated. We encourage our members to continue to express themselves through submission of chemistry-related articles to our newsletter.

I wish you safety and good physical and mental health during these challenging times. ACS National has a [webpage](#) that outlines some initiatives and free resources during COVID-19. ACS Publications has also outlined some steps they will be taking to help combat racial [biases](#). Please also see some resources provided by the CDC to [help cope with stress](#) during COVID-19.

Stay safe and well,

Pumtiwitt McCarthy



[Photo credit](#) - Also, see [post](#) from UMBC

ACS MARYLAND SECTION CELEBRATES 2020 BRAUDE AWARD RECIPIENT, ASSOCIATE PROFESSOR LEE BLANEY, Ph.D.

Virtual lecture, Tuesday, October 22, 2020

Time 7:00 P.M.

Introduction by Dr. Marten from UMBC, (35 min.)

followed up by questions (ZOOM)

Lecture Abstract

Occurrence of contaminants of emerging concern in the Chesapeake Bay watershed

Dr. Lee Blaney

University of Maryland Baltimore County (UMBC)

Department of Chemical, Biochemical, and Environmental Engineering

Contaminants of emerging concern (CECs), such as pharmaceuticals and personal care products, are present in the aquatic environment and represent potential threats to both human and ecological health. To date, few efforts have focused on the occurrence of CECs in the Chesapeake Bay, the nation's largest estuary. To address this knowledge gap, we measured antibiotics, hormones, and ultraviolet filters (UV filters), which are the active ingredients in sunscreen and other personal care products, in water, sediment, and oyster tissue from sites throughout the Chesapeake Bay. Both human- and animal-labeled antibiotics were detected, suggesting impacts from wastewater effluent and agricultural runoff. Further analysis of CEC data indicated the presence of other, unknown sources in several river systems. We hypothesize that those sources are septic systems, and we are continuing to investigate this issue. Based on those findings, we also explored the occurrence of CECs in the urban, Gwynns Falls watershed, which is not impacted by wastewater treatment plants or animal feeding operations. Indeed, CECs were present in water and accumulated in crayfish tissue. We hypothesize that CECs are introduced to the Gwynns Falls through leaking sewers, which are common in urban areas. Given the detection of CECs in the aquatic environment, we recommend upgrading wastewater infrastructure and improving CEC removal during wastewater treatment and animal waste management.

Associate Professor Lee Blaney, Ph.D.

Dr. Lee Blaney is Associate Professor in the Department of Chemical, Biochemical and Environmental Engineering, and Associate Director of Sustainability Engineering at UMBC.

Professor Blaney has established a research program focused on (1) the occurrence, fate, transport, and toxicity of contaminants of emerging concern in natural and engineered systems and (2) development of innovative technologies for resource recovery from agricultural and municipal waste.

He is the recipient of:

Maryland-ACS Braude Award

Maryland Outstanding Young Engineer Award

NSF Career Award

AEESP Award for Outstanding Teaching in Environmental Engineering and Science

George L. Braude

The Scientists Behind the Award

Monique Braude, wife of George L. Braude was the founder of the Braude award. In [2003](#) Monique decided to establish the [Braude Award](#) in memory of her husband. The award honors people who have had significant impact on teaching and who are collaborating in their research with students and post-doctoral fellows. George and Monique Braude felt the need to support teaching and to do research in an academic setting. Thus, the award supports professors conducting outstanding research involving students at a colleges or universities in the Maryland area. The recipient receives a plaque describing his/her contributions and a monetary award to help support further student research. Among [winners since 2003](#) include: *Elsa Reichmanis* – President of the American Chemical Society, *Madeleine Jacobs* – Executive Director of

the American Chemical Society, *Robert Caret* – President of Towson University, *Catherine Fenselau* – University of Maryland, *Bassam Shakashiri* ([2007](#)) – University of Wisconsin, famous for his “Chemical Demonstrations.” last year, [2019](#), Mary Sajini Devadas from Towson University. This year, [2020](#) Dr. Marten from UMBC nominated Dr. Lee Blaney and after careful consideration Professor Blaney received the distinguished Braude Award, congratulations!

George L. Braude, a chemical engineer with W. R. Grace and the Food and Drug Administration, FDA, was a long-time member of ACS and the ACS Maryland Section; he served as chair of the Maryland Section in 1962 and He received the Maryland Chemist Award in 1968.

Monique Colsenet Braude, Born on November 13, 1925 in Lisieux, France. ([January 02, 2010](#))



Awarded a Pharmacist Diploma from the Institute of Pharmacy in Paris.

She worked as a drugstore pharmacist then, moved to the Laboratories' Blaque as chief of production of drug specialties. She married in 1949 in Paris, moved to the United States in the early 1950's.

Received her Doctor of Pharmacology degree from The Ohio State University. [Dr. Braude was a pioneer in cannabinoid research. She worked at the NIH National Institute on Drug Abuse](#), where she directed a research program focused on the effects of marijuana and other drugs, as well as the relationship between gender and drug abuse.

Member of the Society of Toxicology and the Committee on Professional Relations and Standards from 1983 - 1985. She was also instrumental in the founding of the International Cannabinoid Research Society and served as the ICRS President and received an ICRS Career Achievement Award.

[Dr. Braude was an honorary member of the American Chemical Society and founded the](#)

[George L. Braude Award](#). Dr. Braude was also a member of the [GWFC](#) Maryland Federation of Women's Clubs. Her service to GWIS at the national level began in 1985 as Vice President and she rose to President and then Member of the Board of Directors through 1994. She was also active in the Omicron (Washington, DC) Chapter. Dr. Braude passed away in 2010, leaving a generous bequest to GWIS.

Legacy: [Monique C. and George L. Braude Memorial Foundation](#)

is a private foundation based in Baltimore, MD that was founded in 2010. As of 2018 they had \$114,720 in revenue and \$1.9 million. The memorial foundation makes grants to other organizations among them: Yearly donations for program contributions [501©3](#) to ACS Maryland Section \$5000.00 for **Braude Award**, to American Friends of Hebrew University \$16,000 for "**Funding for Scholarship for Women in Science**"; \$5,000 to International Cannabinoid Research Society for "**Monique and George Braude Student Travel Award Fund**". The first Monique Braude Fellowship was awarded in 2013.

"What a wonderful news. I am deeply honored to have been selected by the Executive Committee of the Maryland Section of the ACS for an honorary membership. Many thanks to all concerned"

Dr. Monique C. Braude was named Honorary Member of the ACS Maryland Section on February 18, 2004.

BOOKS and writings:

PMID 6115009. Thompson, George R.; Rosenkrantz, Harris; Schaeppi, Ulrich H.; **Braude, Monique C.**

(July 1973). "[Comparison of acute oral toxicity of cannabinoids](#)

[Marijuana effects on the endocrine and reproductive systems](#) editors, Monique C. Braude, Jacqueline P. Ludford. Rockville, Md. : Dept. of Health and Human Services, Public Health Service, Alcohol, Drug Abuse, and Mental Health Administration, National Institute on Drug Abuse ; [Washington, D.C. : Supt. of Docs., U.S. G.P.O., distributor], 1984.

[Pharmacology of Marihuana](#) by [Monique Braude](#), [Stephen Szara](#) (Editor). Published February 1st, 1976 by Lippincott Williams & Wilkins

HISTORY CORNER...

Remembering Dr. George L. Braude



ACS Maryland Section Chair 1962

ACS Maryland Section believes that if Dr. Braude was here he will be pleased with the progress and achievements of the Local Section in the past years in publicizing chemistry and the chemical profession in Maryland...

"...But, the final success in this field (chemistry) really depends on the actions and the attitudes of each of us."

2003_ New award established in Dr. George L. Braude's memory

2003_ Elsa Reichmanis was the first recipient of the George L. Braude Award

1968_ Received the Maryland Chemist of the Year Award.

1962_ Dr. George L. Braude Served on several committees of the of Maryland Section and as chairman in 1962.

1957-1967_ Worked for the Research Division of

W.R. Grace & Co holding many leadership positions.

1956_ Became Director of Commercial Research with the American Alcolac Corporation in Baltimore, Maryland.

1952_ Came to USA and joined, as a chemist, the Imperial Paper & Color Corporation in Glens Falls, New York

1048-1952_ Chief chemist with the Prosynthese Co. in Paris, France

1945_ Obtained his Ph.D. in Organic Chemistry From the University of Halle, Germany.

1918_ Dr. Braude was born in Samara,



GEORGE L. BRAUDE

A MESSAGE FROM YOUR NEW CHAIRMAN

The year 1961 has gone by with its joys and sorrows, tasks and pleasures.

For us in the ACS Section, a new year also means taking stock of what has been accomplished and what remains to be done. 1961 has been a good year for this Section. The program and our other activities have expanded, our finances are satisfactory and there are new and interesting plans in the offing—all signs of health and progress. No small part of this is due to the untiring efforts of our officers and committee members who devoted many hours of their time to the service of the Maryland Section of the ACS. Much was accomplished, and I can mention only a few of the many activities of our Section.

A new program, a series of lectures on "Recent Advances in Organic and Biochemistry" held last winter, was of particular interest to many of our members. It proved so successful, that additional lectures will be scheduled in 1962-1963 and every two years thereafter. Let your officers know what you believe would be suitable subjects and speakers for these future meetings.

Many of us feel that the general public should be better informed on the role of chemistry and of the chemist in our modern world. Our public relations

committee has done some fine work to publicize chemistry and the chemical profession in Maryland, and has received the ACS award for outstanding performance. But, the final success in this field really depends on the actions and the attitudes of each of us.

The new "Maryland Section Award" was created in 1961 to honor a member of the Maryland area for outstanding achievement. We expect to have the first "Award Night" in the fall of 1962, and will announce the details of this meeting at a later date.

Under the capable leadership of the publications committee and of our new editor, Timothy Parr, *The Chesapeake Chemist* has continued as an attractive and interesting publication, which is entirely self-supporting.

In 1962, your new officers and committee members will endeavor to continue the fine work done in the past, and also concentrate on several new areas where additional efforts should be fruitful. While our activities have been expanding, for instance, our numerical membership has not. This is largely due to the loss of some of the industries previously located in the Baltimore area. But there are more potential members in Maryland who would benefit by joining forces with us. We have plans for a major effort to contact these people and will need your help. We also hope to broaden the base of several of our committees, and will require members willing to devote some of their time to our common goal. I am confident that among the nearly 1,000 members of this Section, there are many who would like to help their local professional society, and who would enjoy doing committee work. Your officers and committee chairmen are most anxious to hear from you!

As in the past our common efforts will be directed towards the "advancement of chemistry, the dissemination of knowledge and the promotion of the chemical profession."

A happy and successful New Year to all of you!

George L. Braude

Dr. George L. Braude, the 1962 Chairman of the Maryland Section of the ACS, is a Research Supervisor at W. R. Grace & Co., Research Division, Baltimore 26, Md. Tel.: ELgin 5-8700.

JANUARY 1962

7



Dr. George L. Braude (left) being presented with 1968 Maryland Chemist Award by Section Chairman Timothy F. Parr (right). In the center is George Steinberg, Chairman of the Awards Committee.

[Credits: Chesapeake Chemist November 1968-p.17](#)

More on Dr. George L. Braude see [the CCNL Oct 2003 p.7](#)

BOOKS...



Science books I remember fondly...

By [Camilo Rojas, PhD](#)

“The Double Helix” by James Watson (1968) - This book reads like a novel while discussing the science, the significance and the scientists behind the most important discovery in biology in the 20th century.

“Biochemistry” by Lubert Stryer (1975) - A clear, to the point textbook; it introduced me to the beauty of biochemistry and triggered a life-long interest in enzymology. There have been many editions of this successful textbook, but the first edition is the one on my shelf and in my heart.

“Enzymatic Reaction Mechanisms” by Alan Fersht (1977) - Short and useful book that explains the wonderful connection between kinetics and mechanism in enzymology. A constant companion in graduate school.

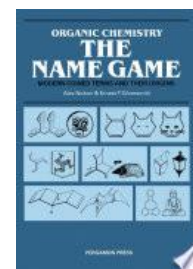
“The Launching of Modern American Science 1846-1876” by Robert V. Bruce (1987) - Professor Bruce tells a great story on how science in the United States went from a set of scattered unfocused efforts to a well-established enterprise in the course of 30 years.

“Drug-Like Properties: Concepts, Structure and Methods - From ADME to Toxicity Optimization” by Edward H Kerns and Li Di (2008) - Excellent no-nonsense explanations of drug discovery concepts and their terminology. It was handy to an enzymologist working in drug discovery.

Camilo Rojas is a regular contributor to the Chesapeake Chemist Newsletter.



IT'S WORTH NOTING... I came across a chemistry paper written in 1988 and I found the following: ...Discussing this molecule in their book Organic Chemistry, [The Name Game](#), chemists Alex Nickon, Johns Hopkins University, Baltimore, Maryland, and **Ernest F. Silversmith, Morgan State University, Baltimore**, point out that the cluster has also been informally referred to as “buckyball” and “BF.” G. Kroto and colleagues state that they are willing to leave the final choice up to the chemistry community as a whole... About the author, see "in memoriam..." p 17 on this issue. (by B. Salazar)



CHEMISTRY LITERATURE SPOTLIGHT

Welcome to this section created for chemists to discuss chemistry

- First discussion - from Science, **Cryo-EM structure of the 2019-nCoV spike in the prefusion confirmation.**

<https://science.sciencemag.org/content/sci/early/2020/02/19/science.abb2507.full.pdf>

Discussed by Dr. C. Rojas "What id the science behind COVID-19?" see [Chesapeake Chemist March/April 2020](#) Vol.77 Issue No.2 p19

- Second discussion - from Chemical reviews.

Introduction: Reactivity of Nitrogen from the Ground to the Atmosphere

<https://pubs.acs.org/doi/pdf/10.1021/acs.chemrev.0c00361>

discussed by Dr. C. Rojas "Nitrogen Fixation..."see

[Chesapeake Chemist Aug./Sept 2020](#) Vol.77 Issue No.5 p12-13

Please send your article reviews to The [Chesapeake Chemist Editor-in-Chief](#)

Maryland Section ACS Honors

SENIOR Chemists

By [Merle Eiss](#)

The ACS Maryland Section was formed in 1914 at the beginning of WWI. We celebrated our 100th Anniversary with a diner at the Maryland Science Center on October 17, 2014. The Section members are primarily located in Baltimore and the surrounding area. Baltimore is favored by a natural harbor, leading from the Atlantic Ocean through the Chesapeake Bay, that accepts ships from around the world that bring chemicals and other raw materials for manufacturing, spices from the orient, and other commodities. The city is also home to the Johns Hopkins University and Hospital, the University of Maryland professional departments and other education, research, and manufacturing organizations that employ many chemists.

To honor out [Senior Chemists](#), The Maryland Section has a yearly luncheon at which we present the ACS Certificates and ask the senior members to tell us of their experiences in the world of chemistry. Some of our members have travelled around the world on a multitude of projects for industry, government, and educational institutions. We have had an excellent turnout at the lunches, and in 2019, we welcomed a chemist with 80 years as an ACS member!

The keynote speakers at our lunches have included the Maryland Attorney General, a Maryland Congresswoman, and a columnist from the Baltimore Sun. Unfortunately, this year, for the first time in many years, the lunch was cancelled due to the COVID-19 Virus. Hopefully, we will be back on track and be able to honor our long-time members in 2021. [Join us!](#)

[See selected photos of previous celebrations!](#)



- I try to tell chemistry jokes but there is no reaction!
- Wanted by the law: Schrödinger's Cat, dead, and/or alive!
- Camilote asks: Why do you react violently when we put you in H₂O? Chemistry cat responds: Because my race contains iron, lithium and Neon. **FeLiNe** origins.
- Q: Why can you never trust atoms? A: They make up everything! *
- Holly Guaca(6.02 * 10²³)!
- Q: Is life an alloy? A: I said it because LiFe! *
- Sulfur and oxygen were best friends. They lived far from each other, so in order for oxygen to chat with his pal, he had to use his sulfone.

* Source

The 3rd Executive Committee Meeting

Summary of Minutes



The Executive Committee of the Maryland Section met virtually on Tuesday, September 22, 2020 from 6-7:30 P.M. The topics considered included three of most importance:

1. The Nominations and elections committee chairman, [Dr. Eric Cotton](#), explained the process of this year's voting. His plan was accepted and approved unanimously. The nominees to various positions will be contacted by Dr. Cotton by email. Other interested ACS Maryland members are encouraged to apply directly to him. For leadership positions refer to pages 12-14 on this issue.
2. The Lecture for future awards was set to be virtual for the remainder of the year. [Dr. Pumtiwitt McCarthy](#), Section Chair will set up the ZOOM meeting. The George. L. Braude Award Lecture was approved for October 22, 2020 at 7:00 P.M. ET.
3. The newsletter, The CHESAPEAKE CHEMIST, needs contributors of chemistry articles. A new advertisement in "constant contact" will outline more details. [Beatrice Salazar](#) & [Sarah Zimmerman](#)

For complete minutes of the September 22nd meeting minutes, please refer to ACS Maryland website at <https://ascmaryland.org> or contact [Dr. Louise Hellwig](#), Local Section Secretary.

Why I chose ACS Maryland Local Section

Jennifer Schmitt, Ph. D.
Rapafusyn Pharmaceuticals

Email: sam@rapafusyn.com

LinkedIn: <https://www.linkedin.com/in/jschmitt1531/>

I joined ACS during my graduate career and believe it is instrumental to educate our younger chemist both in and out of the lab. My first introduction to ACS was attending a national meeting. I am currently on the national committee of the younger chemists committee (YCC). It is also important to be involved in the local section. The Maryland local section lets you meet chemist in your area. We typically have had some socials over summer and presentation during the calendar year. It is a group that is great to bounce ideas off and talk with chemist from all walks of life.

[Meet Dr. Jennifer Schmitt](#)

BIOGRAPHY



Jennifer Schmitt received her B.S. in Chemistry from Stevenson University in 2010. She received her Ph.D. in 2016 from the University of Reno, Nevada. During her time there she focused on metalloprotein chemistry specifically, with the enzyme superoxide dismutase by building peptide biomimics and probing the electronic properties and structure through different techniques. After completing her degree, she moved back to Baltimore to work at an emerging pharmaceutical company, Rapafusyn. Rapafusyn is developing a macrocyclic library to target unmet medical needs. She has been there for the last two years.

ANNOUNCEMENTS



Professor Lee Blaney's Lecture will be held virtually, using ZOOM, on October 22, 2020 at 7:00 P.M. Information will be sent to all ACS Maryland members online through Constant Contact.



Chesapeake Chemist future issues:
November 1st. featuring the Remsen Award
and December 1st. 2020 featuring the Maryland Chemist of the Year Award.



“A great clip about our colleague on WBAL” <https://youtu.be/rSGiztfKQZM>

The 2021 Maryland Section Elections for officers are currently taking place

The ballots will be sent to ACS Maryland members during the October month.
The voting will take place online during the month of November 2020
<https://acsmaryland.org>

Contact

[Dr. Eric Cotton](#), Vice Chair 2020, if you are interested in any of the following positions:

Chair-Elect

1. Attend monthly meetings/ events and quarterly Executive Committee meetings and communicate regularly with Vice-Chair and Chair to become familiar with their roles.
2. Succeed to Vice-Chair on January 1 or if Vice-Chair is unable to fulfill their term.

Vice-Chair

1. Act as Program Chair, who is responsible for organizing all monthly meetings (other than award meetings) from January to December. This involves inviting speakers, finding venues (determine audio-visual needs), making travel arrangements (hotel, etc.) and collecting speaker talk title, abstract and bio information (picture) for newsletter. The date and type of meeting in addition to any special budget requirements must be approved by the Executive Committee. Note that speaker Honoria is not permitted based on National rules.
2. Act in place of Chair whenever required and shall assist the Chair in their role, if requested. Succeed to Chair in January or if Chair is unable to fulfill his term.

Chair

1. Attend and preside over all meetings of the Section or arrange the Vice-Chair or Chair-Elect to do so in their absence. There are an average of 10 meetings per year.
2. Call and preside over all meetings of the Executive Committee and prepare meeting agenda, preferably to circulate in advance. Call on committee chairs to report on activities. Call any special meetings as needed.
3. Appoint chair of all standing and special committees and may in some circumstances appoint members to the committee. Serve as ex-officio member of any Section committee.
4. Confer with Award committee chairs in the selection of the awardee and perform such duties as outlined for the Award. Ensure that nomination and selection deadlines are met for all Awards.
5. Cooperate with National officers and endeavor to represent the Section at National meetings. Ensure that the Annual Report of the Section is properly prepared and is submitted to National by deadline.
6. See that current records, correspondence, and pertinent information in their possession is passed on to their successor and that non-current records are archived.
7. Recommend to the Executive Committee special programs/actions necessary to further Section affairs and implement actions with Executive Committee approval.
8. Work closely with Vice-Chair and Chair-Elect, especially in organizing monthly meetings. Provide written thank-you correspondence to speakers and institutions providing meeting facilities, if necessary.

Councilor

1. Keep informed of National's activities, insofar as they can relate to the business and interest of the Section.
2. Attend and take active part in sessions of the Council and participate in National committees in various topic areas. Admission to meetings of Council are sent by National electronically or through the mail. Notify an Alternate Councilor should you be unable to attend a National meeting (or perform your duty as Councilor).
3. Ascertain, insofar the views of the Section or Council business of interest to the Section.
4. Report to the Executive Committee on the activities of the Council; reports shall be placed in the newsletter and made at quarterly Executive Committee meetings.

Alternate Councilor

1. Back-up position for councilor; shall keep active in the Section and informed of National activities.

Secretary

1. As principal recording officer, attend monthly meetings of the Section to record any business transacted and to note attendance. Attend to any necessary Section correspondence. Answer any inquiries regarding Section activities and make necessary referrals. Assist as needed in maintaining Section files.

2. Attend quarterly Executive Committee meetings, keep minutes, and prepare a copy for publication in newsletter. Send notices of Executive Committee meetings to its members and include prior meeting minutes.
3. Certify to National by December 1 of each year, the results of the officer elections by providing the names, address, telephone, and email of each new officer that will begin on January 1.
4. In January prepare a list of new Executive Committee, including address, telephone, and email address for distribution to its membership.
5. Maintain Section membership roster (e-roster from National) ; send any changes to the roster to National.
6. Assist other officers in the completion of the Annual Report of the Section, particularly on the activities of the Section during the preceding year.
7. In the event that a councilor cannot attend a National meeting, certify an alternate councilor to National.

Treasurer

1. As principal financial officer, keep all financial records of the Section. Prepare financial form for the Annual Report of the Section; form will be reviewed by the Section Chair, Secretary , and a Councilor before the deadline from National. Compile and file with the proper authority, Income Tax Form 990-A for the Section by January 10 following the term in office, preserving a copy for Section records.
2. Supply funds to other officers and committee chair with funds to compensate for their budgeted and approved expenses.
3. Attend all meetings of the Section, prepared with checks and change to meet situations to pay, as required for dinners, speakers, or other approved services. Arrange for another section member to perform these duties, if not available to attend.
4. Submit a proposed budget with the help of the Finance Committee for the next calendar year to the Section Chair and Secretary by December 31.
5. Write to National Officer of Treasurer requesting payment in full of allotment to the Section by January 1. Note that the Annual Report must be submitted and approved by a Section councilor to be eligible for the allotment. Record and bank all Local Section dues.
6. Prepare treasurer reports for the quarterly Executive Committee meetings.
7. For more detailed information see National's weblink for a Treasurers Handbook (http://portal.acs.org/portal/PublicWebSite/membership/Is/mngt/volunteerresources/WPCP_011475)

Members-At –Large

1. Serve as members of the Executive Committee and as chair or members of Section committees.



2020 National Chemistry Week Programs

Ages 7 & up; 60 min. Registration required.

Celebrate National Chemistry Week with a chemist from the Army Research Laboratory and the American Chemical Society. Participate in a [live, on-line program](#) exploring the chemistry glues and adhesives.

Howard County Library, ElkrIDGE Branch

Saturday Sep 19 2 - 3 pm

Howard County Library, Miller Branch

Saturday Sep 26 2 - 3 pm

Enoch Pratt Free Library, Govans Branch

Saturday Oct 10 2 - 3 pm

Howard County Library, Savage Branch

Saturday Oct 17 2 - 3 pm

Howard County Library, Central Branch

Saturday Oct 24 2 - 3 pm

Carroll County Public Library, Eldersburg Branch

Saturday Nov 7 2 - 3 pm

Enoch Pratt Free Library, Light Street Branch

Saturday Nov 14 2 - 3 pm

Howard County Library, East Columbia Branch

Saturday Nov 21 2 - 3 pm

<https://hclibrary.org/classes-events/>

<https://ccpl.librarymarket.com/events/>

<http://calendar.prattlibrary.org/>

For more info: rose.a.pesce-rodriquez.civ@mail.mil

For details on illustrated poetry contest, see:

<https://www.acs.org/content/acs/en/education/outreach/ncw/plan-an-event/illustrated-poem-contest.html>

Student Submission Deadline: Sunday, October 25 by 11:59 PM Eastern



Memory of people's pandemic experiences

Beatrice Salazar, Formerly BCPS and PA Chemistry Teacher, UPENN Alumna

Shortly before the announcement of the pandemic in March 2020, my brother Jaime and his children Margarita Maria and Jaime Francisco gathered as many people as they could to have a daily prayer for the end of the threat that was creating panic around the world. In few weeks, sometimes, there were up to 500 participants to pray the "rosary," every single day at 6:00 P.M. The Facebook prayer continues to this day.

The catholic prayer did not come alone; there were commentaries to inform people about viral diseases and the precautions to take at home, with family and with friends in all possible settings. Before each prayer there were a few words of comfort to make people feel loved. Messages that gave hope and spread calm among all viewers specially that they were not alone.

Jaime took all precautions to keep himself safe of this deadly threat. The three-room apartment where he lived and spent all his time with his daughter, was immaculate clean, plenty of light, windows open to have circulating air properly, etc. He was happy because not only he had everything there but his daughter and her boyfriend, Diego, took an additional task of learning gourmet

cooking so every day he was having not only a different meal, but nutritious, attractive and delicious dishes.

It was a surprise to all of us, friends, fans in Facebook and family, to learn that Jaime needed to go to the hospital for a check-up on July 29th. The conditions of the hospital were horrifying, the first night he slept in a room with 8 more sick people. I was panicking when I heard the loud and consistent cough of some of them over the phone. There were no beds or rooms available, so Jaime spent the night in a chair. The following day his daughter managed to change the hospital and was able to get an ample room for her father. It was a blessing for the family that Margarita Maria could remain in the hospital along with Jaime. She appeared firm and determined to stay with her dad and she did. The dangerous situation was now evident for both. The sadness of this pandemic is that people say goodbye without realizing that they will be gone forever and die alone. For the next 17 days, all prayers continued, this time with more intensity.

In addition to the prayers there were numerous eucharistic celebrations to the point that several

Epidemics like influenza killed more than 12,000 people in Philadelphia in 1918. The following chart from the UPENN archives describes the deaths in several cities within the U.S.*

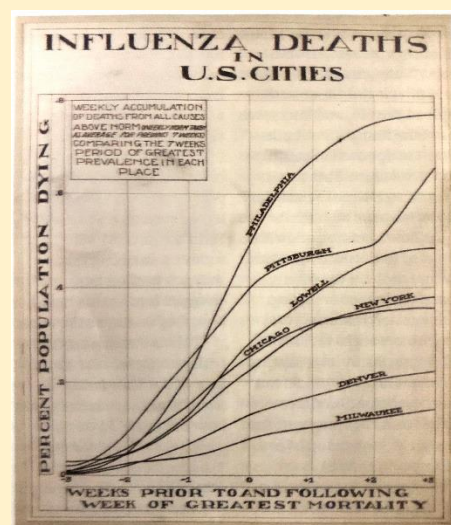


Image courtesy Reeve photograph collection. Otis Historical Archives, National Museum of Health and Medicine.

*Sept/October 2020 THE PENNSYLVANIA GAZETTE p21 ARCHIVES "Collective Memory"

masses were offered during the same day. Why God didn't hear me(us)? I asked myself many times and I was not comfortable.

It Hurts...
Saying Goodbye to a Sibling: I lost my brother to COVID-19 on August 17, 2020



Jaime' Sibling From left to right: Benjamin, Alonso, Horacio, Miryam, Jaime, Beatrice, Flavio and Luis Fernando. In the front row his children Margarita Maria and Jaime Francisco.

My faith was shaking. I was dismayed. Twelve days passed for Jaime to show symptoms - the hospital requires a 14 day stay before someone can be dismissed. On day-13th a little fever, a little discomfort on the throat and breathing, took away all our hope for Jaime's recuperation, in fact now the battle against COVID-19 had begun. Jaime called all his immediate family and from his hospital bed he listened to his children and siblings one by one over the phone.

It was painful to say goodbye to a brother that we loved, respected and admired so much. The virus was merciless. Jaime passed away 4 days later, August 17, 2020 at 5:00 P.M. This has been one of the most painful pandemic experiences this year.

Even after Jaime's passing, his advice, hope and good memories of him had kept the family, fans and friends united in prayer and thoughts. He had left several notecards with his "healing words" which his daughter uses often in the [daily rosary at Facebook at 6:00 P.M.](#)

Margarita Maria read Jaime's letter celebrating life and to say goodbye to all, to the world, to his children, family and friends! His words were a recount of feelings, hope, sadness, happiness, love and human experiences with children, colleagues and people in general. His words expressed how his heart was invaded with love and poetry. He used lyrics of songs creating a legacy of new meaning of these songs for all of us

Jaime's daughter read his letter celebrating life and to say goodbye to all...



who listened to his words. He remembered his life step by step and declared that he not only missed them but would repeat them again and again. He was really pleased with his life. How many of us feel this way? One phrase that lingered in my mind was ***"I lived happy because I felt I was loved"***

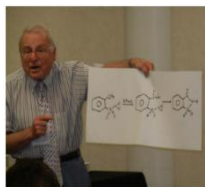
Invitation... to all ACS Maryland Section Members.

How are you feeling during the COVID-19 pandemic? Let us know your experiences, let us hear your voices. Scholars, doctors, scientists, health experts, university administrators will better understand how the community reacted to the COVID-19 pandemic and how we are able to respond and help support the world. Send us an article with pictures, graphs, videos or journal entries, it will help us all. This is important for our history. Thank you [Dr. Lee Leftkowitz](#) for this magnificent idea.

In Memmori~~a~~m

Volunteer spotlight,

<http://jewishmuseummd.org/tag/ernie-silversmith/>



We are sorry to announce the passing of our friend, colleague and ACS Maryland Section volunteer Professor Emeritus Dr. E. Silversmith on Sept. 4, 2020. He will be remembered as a fun, dedicated and loving person who enjoyed Chemistry.

[Obituary](#)

Ernst Silversmith, professor emeritus

(Silberschmidt - German name)

_1930 born in Nuremburg

_1938 ("Kristallnacht") several "Brownshirts" knocked on the door of their family apartment and smashed almost everything to pieces, except the children's room.

_1940, the family sailed to New York, _

_1941, they moved to Tacoma, Washington, where Ernie completed grades 5-12.

He obtained his bachelor's from Harvard University and his Ph.D. from the university of Wisconsin.

_1953, he married Eva, they have four children and eight grandchildren

_1967 after his chemistry education, he went to work as a chemist at Morgan State University. He was a Professor of Chemistry since then. (cont. from p 8)

COMMENTS:

"Hopefully, none of the future events will be cancelled! Let us go virtual, just in case..."

"We like the direction of the Chesapeake Chemist, the articles are fun, informative and enjoyable. In particular, the article from the last issue on environment from Professor Lee at UMBC was remarkably interesting"

"It has been wonderful to have many contributors in the past, please continue sending more articles, comments, opinions reviews etc. I don't mind going through all the paperwork in fact, it has been fun"



Useful Links:

- <https://www.editage.com/insights/a-young-researchers-guide-to-perspective-commentary-and-opinion-articles>
- See Chesapeake Chemist [volume 77 Issue No. 4 pg.13](#) for the announcement of a government
- Senior Chemists presentations: [Dr. G. Lozos, Dr. R. Berninger and Dr. C. Milton](#)
<https://acsmaryland.org/chemistry-video-links/>
- OLD CHESAPEAKE CHEMISTS ISSUES: <https://maryland.sites.acs.org/chesapeakechemist.htm>

To advertise in the Chesapeake Chemist-JOBS section, please contact Beatrice Salazar via e-mail at CCNLclassifieds@gmail.com or leave a message at 443-801-0582.

GOVERNMENT POSITIONS



US Army Combat
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Command (CCDC)- Army
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Postdoctoral Fellow position available Molecular-level simulations of shock physics and energy localization

Prof. Alejandro
Strachan, Dr. John
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Purdue University



and
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Purdue University is an EOE/AA employer. All individuals, including minorities, women, individuals with disabilities, and veterans are encouraged to apply.

Purdue University is seeking applications from outstanding candidates to fill a Postdoctoral Scholar position to work on molecular-level simulations of shock loading of molecular materials with specific emphasis on energy localization and induced chemistry. The successful candidates will join a multidisciplinary team including modelers and experimentalists working at Purdue University and the Army Research Laboratory. The efforts will involve large-scale molecular dynamics and coarse-grained simulations designed to develop a predictive understanding of: shock interaction with microstructure, energy localization, and chemical response. The successful candidate will be part of the cPRIMED center, headquartered at Discovery Park in Purdue University, and will have the opportunity to interact with a wide range of experimentalists and theoreticians in academia, industry and national labs and contribute to [nanoHUB](#). Qualifications. Candidates should have earned

Qualifications. Candidates should have earned a PhD in Physics, Chemistry, Materials, Chemical, or Mechanical engineering or a related field. The successful candidates will have experience in molecular modeling. A strong background in one or several of these fields is desirable:

condensed matter or materials physics, physics of materials at extreme conditions or dynamical loading. This position requires US citizenship.

Application process. Applicants must provide a detailed resume including education, experience and qualifications; they should also include the names of three potential references. Applications from women and minorities are strongly encouraged. Applicants should submit the application materials electronically to:

- Prof. Alejandro Strachan. Email: strachan@purdue.edu
- Dr. John Brennan. Email: john.k.brennan.civ@mail.mil
- Dr. James Larentzos. Email: james.p.larentzos.civ@mail.mil

Evaluation of candidates will begin immediately and will continue until the position is filled.

Greater Lafayette Indiana is home to Purdue University and is one of the fastest growing communities in the Midwest. Subaru of Indiana Automotive, Caterpillar, Corteva Agriscience, Rolls-Royce, GE Aviation, Schweitzer Engineering Laboratories, Wabash National, Saab Global Defense and Security Company, high tech firms and small businesses all call Greater Lafayette their home. Conveniently located between Chicago and Indianapolis, Greater Lafayette is also near several other major metropolitan cities.

The U.S. National Chemistry Olympiad
USNCO MARYLAND URL:
<http://www.beatricesalazarusncocoordinator.webs.com>

Jan - April

Student Travel Awards
<https://acsmaryland.org/travel-awards/>
Email: Louise Hellwig <Louise.Hellwig@morgan.edu>

Jan – March

Student Award <https://acsmaryland.org/student-awards/>
Email: George Farrant, gfarrant@yahoo.com

Chemists Celebrate Earth Day

April

Senior Awards
Email: Merle Eiss, meiss32@aol.com
Email: Linda Gonzalez <linda_gonzalez@mccormick.com>

May

National Chemistry Week Events
<http://www.beatricesalazarusncocoordinator.webs.com>
Beer Tours: Louise Hellwig <Louise.Hellwig@morgan.edu> &
Michele Foss <foss.michele@gmail.com>

May to Sept.

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/>
Email: Angela Sherman, asherman@ndm.edu and
Jennifer Schmitt, jen@rapafusyn.com

Dec.

2020 ADMINISTRATION OFFICERS

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Vice-Chair 2020.....	Eric C. Cotton, Community College, of Baltimore County, cccotton2@ccbcmd.edu
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.....	Pumtiwitt McCarthy, Chair-2020, pumtiwitt.mccarthy@morgan.edu
.....	Beatrice Salazar, Chair-2018, beatricesalazar1@gmail.com
.....	Sara Narayan, Stevenson University, SNARAYAN@stevenson.edu

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- 2018-2020 Jan Kolakowski jek6042@gmail.com
- 2018-2020 Stephanie Watson stephanie.watson@nist.gov

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- 2020-2022 Pumtiwitt McCarthy pumtiwitt.mccarthy@morgan.edu
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- 2018-2020 Sarah Zimmerman scatzim@gmail.com

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- Sara Narayan, Stevenson University, SNARAYAN@stevenson.edu

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Social Media Liaison..... Jennifer Schmitt, Jen@rapafusyn.com

CONTACT US: acsmarylandsection10@gmail.com

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Braude Award, L. Hellwig
Remsen Award, D. Ferraris
Maryland Chemist of the Year Award,
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Senior Chemist Award, M. Eiss/L. Gonzalez
Student Award, G. Farrant

PROGRAMS

Young Women Chemists, S. Narayan/K. Elkins
Student Travel, Louise Hellwig
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