

Chesapeake Chemist

Maryland Section
American Chemical
Society

NOVEMBER
ISSUE

Local Section Newsletter
November 1, 2020

ACS Maryland

**PROFESSOR
THOMAS
WILLIAM
MUIR**



**DEPARTMENT
OF CHEMISTRY**

**PRINCETON
UNIVERSITY
P 4**

2020 Ira Remsen Award Recipient

Maryland Local Section Newsletter

Editor in chief: [Beatrice Salazar](#)

Policy

Pumtiwitt McCarthy, Chair-2020

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Editorial

THIS FALL, ACS MARYLAND CONTINUES HONORING EXCELLENT SCIENTISTS



Scientific research is hard work. Scientists spend their time doing research and bringing the best of their work to the scientific community and the world. They deserve respect and admiration. The Maryland Section of the American Chemical Society makes an effort to recognize scientists for their work by presenting them with awards at the local and national level.

Dr. Lee Blaney from UMBC received the distinguished George Braude Award for his research on Environmental Chemistry and his altruistic mentorship. Dr. Blaney was nominated by his boss and friend Professor Marten, Chair of the Department of Chemical, Biochemical, and Environmental Engineering, UMBC. During the Braude Award Lecture on October 22nd, Dr. Blaney was presented with a plaque and an honorarium by the ACS Maryland Section. This issue includes pictures and slides related to his presentation (p.6-8).

In another recognition, Princeton University Professor Thomas William Muir is the recipient of the Ira Remsen Award for his research on physiochemical basis of protein function in complex systems of biomedical interest. We cover some research highlights of Professor Muir in this issue (p. 4,5). Due to the uncertainty of the pandemic his Award Lecture has been delayed. We will be checking periodically to determine the date and time of what will be another illuminating Lecture.

The Ira Remsen Award was established in 1946, exactly one hundred years after Ira Remsen was born in New York. The Ira Remsen story is fascinating. We mention some of his history in this issue (p. 3, 8,9).

We have a special BOOKS section with a detailed description of each book by Dr. Glenda Bilder (p. 10). She is an author and a pharmacologist. Immediately following BOOKS, we provide links to videos on the just awarded 2020 Chemistry Nobel Laureates (p. 11).

This Fall the Maryland Local Section will continue with the officer elections and will begin the preparation of the final event of the year 2020 in December: The Maryland Chemist of The Year Award. I am thankful to all contributors to the Chesapeake Chemist.



Beatrice Salazar

Editor-in-Chief, ACS Maryland Section

CHAIR'S MESSAGE

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

Chair, ACS Maryland Section
acsmaryland.org

Morgan State University
Department of Chemistry
Room 120, Dixon Research Center
1700 E. Cold Spring Lane
Baltimore, MD 21251
(443) 885-3882
Pumtiwitt.McCarthy@morgan.edu



Stay safe and well,

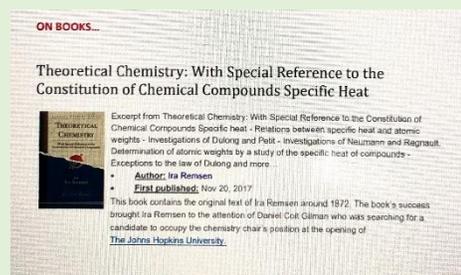
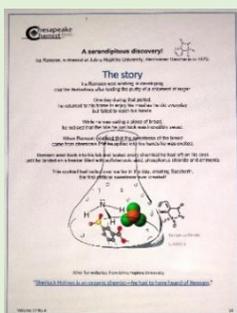
Pumtiwitt McCarthy



The Maryland Section

Of the American Chemical Society is pleased to announce that Thomas William Muir from Princeton University is the recipient of the 2020 Remsen Award. Dr. Muir will be giving the Remsen Lecture on the campus of Johns Hopkins University, November 12, 2020 (at this time, due to COVID -19 the date is TBD)

[See the Chesapeake chemist June/July issue](#) pages 14-16



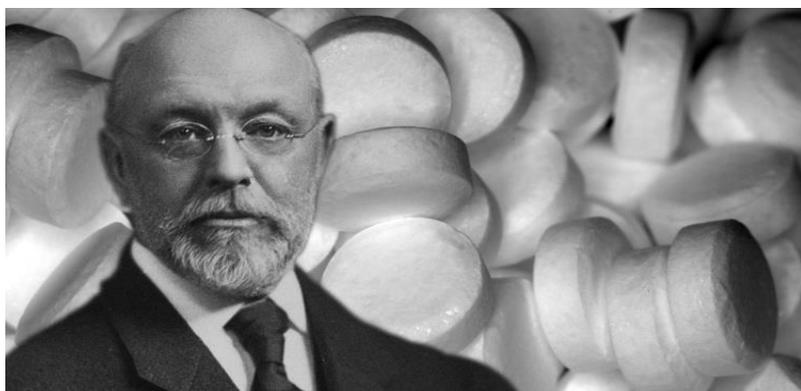
Ira Remsen

The Scientist Behind the Award

The Ira Remsen Award was inaugurated in 1946 in honor of Ira Remsen (1846-1927) who was the first Chairman of the Chemistry Department at Johns Hopkins University and the second President of the University (1901-1912). He was one of the original faculty members. He discovered and initiated the development of Saccharin. This serendipitous discover was one of his most notable accomplishments along with the foundation of the American Chemical Journal in 1879. Later in 1915 the journal was combined with the Journal of the American Chemical Society, ACS. During his

presidency he advocated for women to be admitted as graduated students at Johns Hopkins University. He founded the chemistry Department and was a chemistry professor during 1876-1901. Ira was the first chemist to receive the Priestley Medal in 1903. He was also president of the society of the Chemical Industry, 1910 and of the National Academy of Sciences, 1907-1913. He is the only scientist buried on campus at Johns Hopkins University. Today, a plaque where he is buried is known for its good luck to students if they rub it before their chemistry exam. [More information at ACS.](#)

2020 IRA REMSEN AWARD



RECIPIENT THOMAS WILLIAMS MUIR

PRINCETON UNIVERSITY

THE AWARDEE...

Thomas Williams Muir from Princeton University, is the recipient of the 2020 Remsen Award, given by the Maryland Section of the American Chemical Society. He is a chemist of outstanding achievement, with highest standards in teaching and research in chemistry.

The award was established in 1946. It is named in honor of Ira Remsen, the first chemistry teacher and second president of Johns Hopkins University. Dr. Muir received the nomination in June 2020 and will receive a plaque and an honorarium during the Remsen lecture at the Remsen building on the campus of Johns Hopkins University in Baltimore. November 12, 2020

2020 Ira Remsen Award to Thomas W. Muir

The Maryland Section of the American Chemical Society is pleased to announce that Thomas William Muir from Princeton University is the recipient of the 2020 Remsen Award (History of the award p. 9)

BIOGRAPHY

TOM
MUIR

[About Thomas William Muir](#)



[Cover page source](#). By Wendy Plump, in her story she talks about how Professor Muir, Chair of the chemistry Department (2015), his students, colleagues and the chemistry community are doing, feeling, and coping during these trying times. Here is the comment from Professor Muir:

"I find that I spend a lot of my time talking to my dog, which is somewhat alarming since I don't own a dog."

Research Activities: The Muir Team is interested in studying protein function by integrating the tools of synthetic organic and physical chemistry with those of molecular genetics.

The Muir lab investigates the physiochemical basis of protein function in complex systems of biomedical interest. It has developed a suite of new technologies that provide fundamental insight into how proteins work. [Meet the people in the Muir lab](#).

muir@princeton.edu The Muir Lab • Prof. Tom W. Muir • Department of Chemistry • Princeton University • Frick Chemistry Laboratory • Princeton, NJ 08544 muir@princeton.edu • Phone: 609-258-5778

[Chemical Biology](#)

Chemical biologists generate and utilize chemical tools to explore biological systems. Researchers work at the intersection of the two disciplines to probe scientific questions at the molecular level.



DR. LEE BLANEY, Ph.D.

Associate professor of the Department of Chemical, Biochemical, and Environmental Engineering, UMBC

IS PRESENTED WITH THE BRAUDE AWARD

Professor Blaney's virtual lecture
Took place last Thursday, October 22, 2020



Professor, [Dr. Marten](#) Chair of the Department of Chemical, Biochemical, and Environmental Engineering at the University of Maryland Baltimore County (UMBC) nominated Dr. Blaney for the distinguished George Braude Award. He introduced Professor Blaney as one of the youngest, high-achieving Chemist of his department. He talked about Dr. Blaney's interesting life and research interest at a younger age including his research-trips over the world, his research experience and accomplishments. We learned of the courageous actions of Dr. Blaney in Kenya, about his interesting research in the Baltimore surrounding areas and his especial mentoring practices that keep a strong teacher-student relationship at all levels: PhD students, post Doc students, graduate and undergraduate students even research conducted with high school students. Professor Blaney's wrote an interesting article about his research for the [June/July](#) issue of the Chesapeake Chemist. If you missed his talk this article will bring you up to date on his current research. The [October issue](#) was dedicated to professor Blaney, it contains the history of the Braude award. The virtual lecture was well attended (29) and those that could not be present had requested his video (publication of his video is TBD). The Abstract of Professor Blaney's lecture is shown again in the next page.

Occurrence of contaminants of emerging concern in the Chesapeake Bay watershed

Lee Blaney, PhD
 Associate Professor
 Department of Chemical, Biochemical, and Environmental Engineering
 University of Maryland Baltimore County

Braude Award Lecture
 Maryland Section of the American Chemical Society
 October 22, 2020

Chemical Biochemical and Environmental Engineering

A little about me...

My educational and professional journey

- 2005 – BS, Environmental Engineering (Lehigh University)
- 2007 – MS, Environmental Engineering (Lehigh University)
- 2011 – PhD, Civil Engineering (University of Texas at Austin)
- 2011 – Assistant Professor, Department of Chemical, Biochemical, and Environmental Engineering (UMBC)
- 2017 – Associate Professor, Department of Chemical, Biochemical, and Environmental Engineering (UMBC)

Arup SinghGupta
 Devenood Lawler

Braude Award Lecture – October 22, 2020

UV-filters have been banned in Hawaii & elsewhere due to coral reef damage

"Oxybenzone poses a hazard to coral reef conservation and threatens the resiliency of coral reefs to climate change."
 (Shweta et al., 2015, *Arch Environ Contam Toxicol*)

The New York Times
 Hawaii Passes Bill Banning Sunscreens That Can Harm Coral Reefs

Hawaii Passes Bill Banning Sunscreens That Can Harm Coral Reefs
 The ban is the first to prohibit the use of oxybenzone and octinoxate, two of the most common UV filters found in the sun.

Devin Egan

Braude Award Lecture – October 22, 2020

Our great team (plus many others that have graduated)

Lee Blaney
 Fabian Acunista
 Mihir A. Bhatia
 Aniruddha
 Bridget Anger
 Michael Fleming
 Ethan Hain
 Ko Ho
 Chaitanya Mishra
 Durlal Retallicka
 Michael Rose

Braude Award Lecture – October 22, 2020

Ongoing work related to CEC treatment and degradation

Reaction mechanisms
 Reaction kinetics
 Reaction pathways
 Water quality effects

Check residual biologic transformation product bioassay approaches to microorganisms and an

Braude Award Lecture – October 23, 2020

Thanks for your attention

Any questions?

Lee Blaney
 Department of Chemical, Biochemical, and Environmental Engineering
 University of Maryland Baltimore County
 (Email) blaney@umbc.edu
 (Twitter) @lee_blaney
 (Website) www.umbc.edu/blaneylab

ORLANDO
 ACS

Photo credit - Courtesy of Dr. Marten. Also, see post from UMBC

Dr. Lee Blaney's presentation with introduction by Professor Mark Marten



Read about Dr. Marten's [interesting research](#)

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.

Research by [Martenlab](#)
studies stress response
in fungi - [Chemical, Biochemical and
Environmental](#)



IRA REMSEN

PRESIDENT OF THE AMERICAN CHEMICAL SOCIETY, 1902

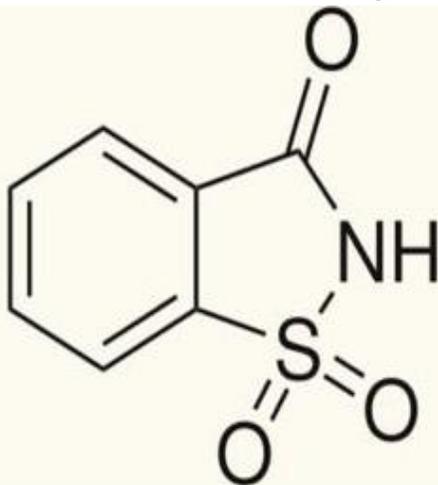
"On the Life History of a Doctrine"

In his boyhood Remsen was reared in a strict, religious atmosphere and he retained a simple religious faith throughout his life. In his address "On the Life History of a Doctrine," delivered as president of the American Chemical Society, after pointing out that "faith is called for at every turn in scientific matters as well as spiritual," he said, "It would be as illogical to give them (atoms) up as it is, in my opinion, to deny the existence of a power in the universe infinitely greater than any of the manifestations familiar to us; infinitely greater than man; a power that 'passeth all understanding. Source: Biographical memoir, see History Corner p 10.

In 1872, returning to the United States, he took a position as professor of chemistry and physics at Williams College. He found Williams unsympathetic to scientific research, so he concentrated on teaching. Shortly thereafter, he wrote *Theoretical Chemistry*, in which he reduced fundamental principles to a form simple enough for beginning students to understand. The book received immediate recognition and was soon translated into German and Italian. Perhaps more important, the book's success brought its author to the attention of Daniel Coit Gilman, who was searching for a candidate to occupy the chemistry chair at the opening of The Johns Hopkins University.

Although just 30 years old in 1876,

Remsen had made a reputation for himself, both as a researcher and as a teacher, despite the inhospitable environment at Williams College. He



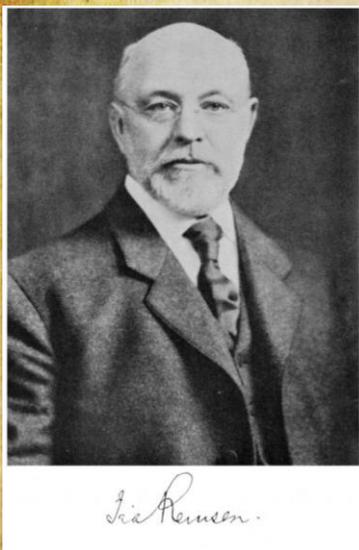
jumped at the chance to equip and direct his own chemistry laboratory in Baltimore, and soon his lab became a center for chemical research, attracting graduate

students who went on to become outstanding figures in later years. His instinctive teaching talents were developed and honed through experience, and it was said of him that "nobody ever understood the beginner better than Remsen." In 1879 he founded the *American Chemical Journal*, which he edited for 35 years, and he contributed a number of authoritative textbooks that remained standards for many years. While working with postdoctoral colleague Constantine Fahlberg in 1878, they discovered a substance that became the artificial sweetener saccharin. Remsen had little interest in the practical application of this discovery, preferring research for the sake of advancing learning, but Fahlberg saw commercial potential and wasted little time in obtaining a patent on [saccharin](#).

[More on Ira Remsen...](#)

HISTORY CORNER...

Remembering Dr. Ira Remsen



Since 1946 The Maryland Section of ACS presents each year the distinguished Ira Remsen Award to a deserving Chemist with an extraordinary contribution to the Chemistry Field.

Ira Remsen served as President of the National Academy of Sciences from 1907 to 1913. A chemist, whose most notable discovery was found while conducting research on coal tar derivatives. He noticed that through oxidation of a particular compound he had created a sweet substance he named saccharin, widely used as an artificial sweetener.

- 1846 Ira Remsen was born in New York
- 1863 History of the JHU Academy Began
- 1867 Doctor of Medicine, Thesis: "Changes of the Urine"
- 1870 PhD in Chemistry, Munich and Göttingen
- 1872 Returned to United States - had a faculty position at Williams College in MA.
- 1875 Married to Elizabeth H. Mallory (2 male children)
- 1879 Founded the American Chemical Journal, served as editor until 1913
- 1901 Became second president, Johns Hopkins University
- 1902 President of ACS
- 1907-13 President of the National Academy of Sciences
- 1909 President Roosevelt appointed Remsen as the Chairman of a Board to study problems associated with the Pure Food and Drug Act.
- 1913 Semicentennial Celebration history commissioned by Remsen to be prepared by Frederick W. True, Deputy Secretary of the Smithsonian.
- 1923 Awarded The Priestly Medal, ACS - 1927 Rests in the Remsen Hall at JHU

IRA REMSEN¹

1846-1927

BY WILLIAM ALBERT NOYES AND JAMES FLACK NORRIS

Two men, Ira Remsen and Wilhelm Ostwald, stand out during the last fifty years as great teachers and as founders of chemical journals which have had a profound influence on the development of chemistry. In these two respects their work is comparable with that of Liebig during the middle of the nineteenth century.

Ira Remsen was for many years the outstanding figure in American chemistry. When the history of the development of the science in this country is written, the fact will be evident that through his influence the serious study of chemistry and the output of new knowledge very rapidly increased. Much had been accomplished by a few gifted men in America before Remsen's day, but he opened up a life work in chemistry as a career to many, and developed a spirit of research that spread over the country.

He made it possible for a young man to be adequately and broadly trained at home, whereas Remsen himself and others who sought, at that time, to prepare themselves for work in chemistry had been forced to go to Europe. And what is equally important, he transplanted the "atmosphere" of the laboratories of the great masters—the spirit of hard work, the desire to learn and a love of chemistry.

Ira Remsen was born in New York City, February 10, 1846. His parents were both descended from the early Dutch settlers of New York and his mother had also Huguenot blood in her veins. For two years, from eight to ten, the boy lived in the country and had that intimate contact with nature which is impossible for a lad who spends his life exclusively in a city. A part of his early education was received in country schools. After further study in the public schools of New York City he entered the Free Academy, now the College of the City of New

¹ The first part of this Memoir is chiefly a combination of biographical sketches which appeared in *Science*, 60, 243 (1927); *J. Chem. Soc.*, 1927, 3182; and *J. Amer. Chem. Soc.*, Proceedings 1928, p. 67.

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NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA BIOGRAPHICAL MEMOIRS VOLUME XIV—SEVENTH MEMOIR

BIOGRAPHICAL MEMOIR

OF

IRA REMSEN

1846-1927

BY

WILLIAM ALBERT NOYES

and

JAMES FLACK NORRIS

PRESENTED TO THE ACADEMY AT THE ANNUAL MEETING, 1912

SCIENCE

Vol. LXVI SEPTEMBER 16, 1927 No. 1207

IRA REMSEN

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Two men, Ira Remsen and Wilhelm Ostwald, stand out during the last fifty years as great teachers and as founders of chemical journals which have had a profound influence on the development of chemistry. In these two respects their work is comparable with that of Liebig during the middle of the nineteenth century.

Ira Remsen was born in New York City, February 10, 1846. His parents were both descended from the early Dutch settlers of New York and his mother had also Huguenot blood in her veins. For two years, from eight to ten, the boy lived in the country and had that intimate contact with nature which is impossible for a lad who spends his life exclusively in a city. A part of his early education was received in country schools. After further study in the public schools of New York City he entered the Free Academy, now the College of the City of New York, where he studied Latin, Greek, mathematics, history and a very little science. He did well in Latin and Greek and it was doubtless during those years that he laid the foundation for that perfect command of accurate English which has made it such a delight to read his books and to listen to his lectures. His interest in science seems to have been awakened at this period by the popular, illustrated lectures given by Dr. Dumas at the Cooper Institute.

He did not, however, complete the four years of work required for graduation at the Free Academy. Many years later he received the bachelor's degree from the College of the City of New York, as of the class of 1860. He was accustomed to say, with some pride, that he was one of the few men who had received the rank of M.D. from the College of Physicians and Surgeons without having received the bachelor's degree. He also said, at one time, that he thought he was the only university president in America who had not completed a four years' college course.

After a few years in the Free Academy, Remsen's father decided that he should become a physician and apprenticed him to a doctor who taught in a hospital and public medical college. Here he read some chemistry and tried some chemical experiments for himself, sometimes with disastrous results to his fingers and clothing, as he told his students in reciting those days. He attracted the attention of his preceptor, however, and was made lecture assistant and vice-instructor in the college.

Credits: [Biographical Memoir](#)

Other references:

[The CCNL June-July p.14-15](#)



BOOKS...



I am a pharmacologist with a career in basic research and preclinical drug discovery that focused principally on the development of receptor tyrosine kinase inhibitors for cardiovascular and oncological therapies.

I am not a chemist but as a chemistry minor in college, I have a tremendous respect for the discipline of chemistry and throughout my career have worked closely with medicinal chemists who designed and synthesized the chemical entities that myself and coworkers evaluated in biological systems.

One of the first books that influenced my career was Arthur C. Guyton's Textbook of Medical Physiology (2nd Edition, W.B. Saunders Company, Philadelphia, PA). This book provided the foundational knowledge essential for a career in pharmacological research. It detailed the complex physiological mechanisms in organ-systems, noted their relevance for normal function as well as for disease, explained the underlying physics and mathematics and discussed contributions from classic experiments. Although immensely interested in physiological processes, I was completely captivated by Guyton's presentation of experiments that utilized drugs e.g. nicotinic or sympathomimetic drugs, for example, to disrupt or ameliorate the functions of the autonomic nervous system. This set my path to pharmacology. It is worth noting that Dr. Guyton, an award-winning scientist, established the principles for regulation of cardiac and vascular function and identified the factors important in blood pressure control, leading to a better understanding of hypertension. His book is as significant and influential today (14th edition as of this year) as it was when it motivated me.

Goodman and Gilman's The Pharmacological Basis of Therapeutics (Goodman, Louis S and Gilman, Alfred, Macmillan Company, New York, third edition) solidified my career choice of pharmacological research and similar to Guyton's Textbook of Medical Physiology provided the requisite knowledge base for future research. Often referenced as the "bible" of pharmacology, The Pharmacological Basis of Therapeutics details the entire field of pharmacology. This 1785 page book explains principles of receptor theory and drug metabolism, and within each class of drugs, describes the central mechanism of action at the cellular and physiological levels, the current therapeutic uses, side effects, toxicities and structure/activity relations of drugs in that class. The most interesting chapters grouped as "drugs acting on the synaptic and neuroeffector junctions" were critical to my thesis work exploring the effect of the thyroid hormones on the acetylcholine receptor. Goodman and Gilman's The Pharmacological Basis of Therapeutics is now in its 13th edition with new editors and many more contributors. I have read these later editions. Much of the basic material that I learned many years ago remain but important updates in membrane transporters, pharmacogenetics, drug therapy of inflammation and gastrointestinal disorders, and immuno-modulators have been added.

Two other books, Robbins Pathology (Robins, Stanley L, WB Saunders Company, Philadelphia, 3rd Edition) and Cell Calcium (Bianchi, C. Paul, Appleton-Century-Crofts, New York, 1968) shaped my career but in different ways. Robbins Pathology illustrated disease states with gross, histological and x-ray photographs of aberrant tissue changes. Although it was disheartening to read about human diseases, it was clear that comprehension of basic pathology was crucial for pharmacological research that sought to prevent and/or minimize this pathology with novel drugs. Specifically, the thorough pathological presentations in this text and later editions aided me in the development of relevant animal models that mirrored human disease and thereby greatly improved the odds that a preclinical drug candidate would become a clinical success. Robbins Pathology continues today as the premier text from medical students. It presently is part of a 14 book series on pathology and has multiple editors and contributors.



BOOKS...

Cell calcium, although a small hardcover monograph, is loaded with great science. Cell Calcium, written by Dr. Bianchi, one of my PhD mentors at the University of Pennsylvania, provided an exemplary guide to actual "hands on" experimentation. Cell Calcium is an in-depth discussion of experiments that elucidated the role of calcium in the cell and in nerve excitation-contraction coupling, some of which astutely employed caffeine and cardiac glycosides to gain insights. Although this book influenced my thesis research related to the effect of ionized calcium on the release of the neurotransmitter, acetylcholine, the eloquent experiments described by Dr. Bianchi including his own, additionally continued to inspire me throughout my career.

My fifth influential book, **Philosophy of Science** (Arthur Danto and Sidney Morgenbesser, editors, The World Publishing Company, Cleveland, Ohio, 1966), is a collection of selected readings that discuss in the words of the preface by Ernest Nagel, "the character of the scientific enterprise". These exemplary essays analyze the nature and structure of scientific knowledge (laws and theories), dissect problems relating to scientific conclusions e.g. empirical evidence, logical principles, and probability interference and discuss relevant aspects of time, space and causality. These interesting readings provided a necessary assessment of exactly what a researcher is trying to achieve with scientific experimentation. Although there are no recent editions of this book, there are many other excellent Philosophy of Science books, for example, by Rosenberg (2011), Maudin (2012) and Barker and Kitcher (2013) that stimulate critical scientific thought and promote cautious awe of scientific achievements.

Further Reading...



A Day with a Nobel Laureate 2020 Nobel Prize in Chemistry



[Emmanuelle Charpentier](#)



[Jennifer Doudna](#)

Articles from ACS **c&en**

CHEMISTRY LITERATURE SPOTLIGHT



[Rose Pesce-Rodriguez](#)

By Beatrice Salazar

<https://apps.dtic.mil/sti/pdfs/AD1107396.pdf>

Hands-on experience is the way to invite children to explore the world of chemistry, its magic and inspiration to the science world. Science teachers explore chemistry concepts at all levels of understanding from elementary grades to high school. ACS themes created to celebrate chemistry, have a large plethora of experiments that gradually increase students' knowledge, curiosity and understanding of chemistry concepts. Let's not

forget the fun that is shared by children and adults, and by chemistry professionals as well as non-scientists in the community. The article discussed by Rose is purposely written for teachers and adults with interest in the chemistry, composition and history of adhesives. It is a well-balanced and informative article, a research report that applies to STEM. Experimenting with adhesives such as glue and adding liquid detergent containing Boron (borax soap)

creates a new material that children could play with, safely. The changes observed in the mixture, the elasticity of the new formed material, the change of its physical and chemical properties and the calculated amounts of each substance are just perfect guides to address each of the disciplines: Science, Technology, Engineering and Mathematics, STEM. It is my pleasure to address Rose's article. She did a magnificent job! ■

CHEMISTRY LITERATURE SPOTLIGHT

Welcome to the 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..."s

ACS MARYLAND LOCAL SECTION ELECTIONS

Congratulations to all ACS members that want to serve as leaders of the Maryland Local Section of the American Chemical Society

Beatrice Salazar, Councilor

I have worked for the ACS Maryland Section since 2010. I have served in different positions including Chair-2018. As Councilor, I will work hard to bring the best communication between ACS and Maryland members to improve their professional career.



Jan Kolakowski, Councilor

ACS member since 1977. Maryland Section Councilor since 2012. I will continue to support the development and employment of chemical professionals as I represent our Section at ACS meetings.



Stephanie Watson - Councilor

I would like to continue to serve as Councilor for the Maryland Section to maintain contact with ACS National and represent our Section's concerns and needs to ACS National staff and committees.



New Members, Welcome to the Team!

Member at Large

Dr. Therese Ku

It would be my pleasure to serve as a Member-at-Large for the Maryland Section of the ACS. I have attended several Executive Committee meetings and look forward to becoming more involved.



Dr. Fasil Abebe

Member of the American Chemical Society (ACS) and national organization for the professional advancement of black chemists and chemical engineers (NOBCChE).



Alternate Councilor

Mr. Rob Clapper

Rob Clapper is US Sales Manager for Scion Instruments USA, part of Techcomp (USA) Inc. Rob is a dedicated scientist in the Chromatography field with over 20 years of experience.



Dr. Alexander Samokhvalov

Alexander Samokhvalov, Assistant Professor of Chemistry, Morgan State University. ACS member since 2003 and regular contributor to ACS and MARM meetings. I run for Alternate Councilor of MD section.



Chair Elect



Dr. Kelly Elkins

It will be an honor to serve the Maryland Section as Chair Elect. I am an ACS programming organizer, Councilor, Ethics Committee member and Secretary of the Division of Professional Relations

Secretary

Dr. Louise Hellwig



I would like to continue to serve as Secretary of the Maryland local ACS section because we have a great section with many worthwhile projects and interesting meetings

Treasurer

Dr. Lee Lefkowitz



The Maryland Section is in excellent financial shape. I will build upon the well-organized record-keeping of my predecessors and increase the section's use of electronic financial records and payments

Member at Large

Dr. Angela Sherman



I have served the local Section for many years as Treasurer and Chair of the Chemist of the Year Committee. I would like to continue my involvement in the Section's activities as Member-at-Large.

Member at Large

Dr. Rose Pesce-Rodriguez



I am interested in continuing my service to the ACS as a Member-at-Large. As such, my main responsibilities will be to continue spreading the word about chemistry through outreach activities.

Member at Large

Dr. Sara Narayan



Sara Narayan, Ph.D.

Dr. Saraswathi (Sara) Narayan a professor of chemistry at Stevenson University, formerly Villa Julie College.

Alternate Councilor

Dr. Michele Foss



I am seeking re-election as an Alternate Councilor for the Maryland Section. My current role in Industry gives a perspective on what is needed to continue to make ACS a relevant organization for Government, Academic and Industrial Chemical professionals during these unprecedented times.

Laugh a Little



What does it mean... give or obtain more than 100%? Is it possible?

There is a mathematical explanation for this. Let's give each letter of the alphabet a corresponding number from 1 - 26

Then let's have fun and find what percent corresponds to "knowledge" "Attitude" and "love of God"... so, it is possible only if one finds the way (no wonder CHEMISTRY is the leading science career choice)

Courtesy of Nelly Schwan from East Hartford, CT.

- What is the TV show Cesium and Iodine love watching? CSI
- What do you call a clown who is in jail? A silicon
- What emotional disorder does a gas chromatograph suffer from? Separation anxiety
- What kind of fish is made-out of 2 sodium atoms? 2Na

* [Source](#)

JOBS

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.

ADVERTISE HERE! Cont. page 23



Why I chose
 ACS Maryland
 Local Section

An invitation to all new ACS Maryland members to submit your statement and a short biography.

2020 - COUNCILOR REPORT

JAN KOLAKOWSKI
FALL REPORT
of VIRTUAL
COUNCIL MEETING FOR THE 260th
ACS NATIONAL MEETING



The Fall 2020 (260th) National Meeting of the American Chemical Society, originally planned for San Francisco, was held virtually on August 17-20, 2020 due to the COVID-19 pandemic. This was the first time an ACS National meeting has been held virtually. The theme for the meeting was “Moving Chemistry from Bench to Market”. The Council Meeting was held virtually on August 19. The Maryland Section was represented by all four Councilors in attendance: Kelly Elkins, Dana Ferraris, Jan Kolakowski, and Stephanie Watson.

As of August 19th,

Registration for the National meeting, by category, was:	The virtual presentation uploads, by category, were:
Member – 3,494	All Inclusive (SciMtgs) – 1,735
Student Member – 1,638	Virtual Platform Only – 1,655
Unemployed Member – 25	Temporary Access Option – 640
Non-Member – 945	Presentation Uploads – 4,067
Student Non-Member – 375	
Total – 6,477	

By electronic ballot, the Council elected Elizabeth M. Howson, Zaida C. Morales-Martinez, Margaret J. Schooler, and Jeanette M. Van Emon for three-year terms (2021-2023) and Mark D. Frishberg for a one-year term (2021) on the Council Policy Committee (CPC).

By electronic ballot, the Council elected Martha G. Hollomon, Diane Krone, Sarah M. Mullins, Andrea B. Twiss-Brooks, and Javier Vela for three-year terms (2021-2023) on the Committee on Committees (ConC).

By electronic ballot, the Council elected Jetty L. Duffy-Matzner, Kevin J. Edgar, Neil D. Jespersen, Julianne M.D. Smist, and Linette M. Watkins for three-year terms (2021-2023) on the Committee on Nominations and Elections.

On the recommendation of ConC, and with the concurrence of CPC, Council voted to approve the Petition to Clarify Amendments to the Standing Rules.

On the recommendation of ConC, and with the concurrence of CPC, Council voted to disband the Joint Board-Council Committee on Chemical Abstracts Service (CCAS). The main reason was that most, if not all, of the responsibilities of CCAS are already being performed by the Chemical Abstract Services itself.

On the recommendation of the Committee on International Activities, and with the concurrence of CPC, Council approved the creation of an ACS International Sciences Chapter in Israel.

The ACS 2020 financial performance through July 31st yielded a Net from Operations of \$55.7 million, which was \$25 million greater than the same period in 2019. Total revenues are \$354 million (5% ahead of last year) and total expenses are \$298 million (3% below last year). Unrestricted Net Assets increased to \$466 million.

Ballots for the 2020 fall national election will be distributed on September 28th, with a voting deadline of October 23rd. ACS members eligible to vote and with an email address on file will receive an electronic ballot with the option to request a paper ballot. Those members with no email address on file will be sent a paper ballot with the option to vote electronically. Election information may be viewed at acs.org/elections.

The continuous and ongoing struggle in this country to create a safe and equitable society for all was brought to Council's attention. The ACS encourages inclusivity and opposes discrimination in scientific learning and practice. Councilors were urged to take active roles in dismantling any barriers that may deter or impede their colleagues in their research or careers. Councilors and guests were encouraged to review the ACS statements on diversity and reflect on how to implement these in their local sections and divisions.

Respectfully submitted,

Jan E. Kolakowski
Councilor, Maryland Section

The 2021 Maryland Section Officers

Duties and Responsibilities



<https://acsmaryland.org>

Contact

[Dr. Eric Cotton](#), Vice Chair 2020, if interested in any of the following positions for 2022.

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/ls/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.

Chemistry Poems children K- 12

next page

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-rodriguez.civ@mail.mil

For details on illustrated poetry contest, see:

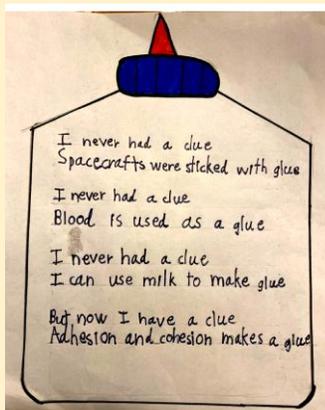
<https://www.acs.org/content/acs/en/education/outreach/ncw/plan-an-event/illustrated-poem-contest.html>

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



Poems

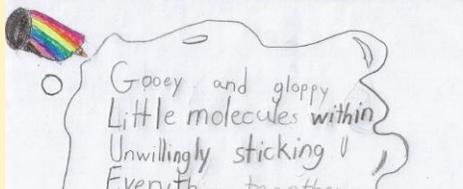
"Sticking with Chemistry - The Chemistry of Glues and Adhesives"



I never had a clue
Spacecrafts were stucked with glue
I never had a clue
Blood is used as a glue
I never had a clue
I can use milk to make glue
But now I have a clue
Adhesion and cohesion makes a glue

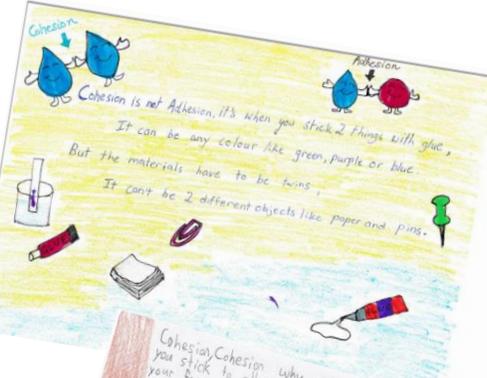


K-2
B



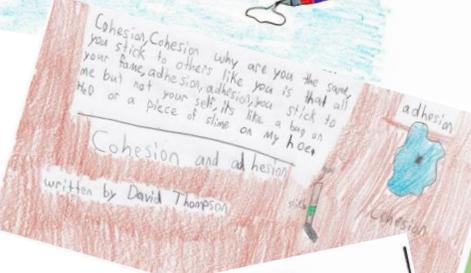
Goopy and gloppy
Little molecules within
Unwillingly sticking
Everything together

K



Cohesion
Adhesion
Cohesion is not Adhesion, it's when you stick 2 things with glue,
It can be any colour like green, purple or blue,
But the materials have to be twins,
It can't be 2 different objects like paper and pins.

3-5
B



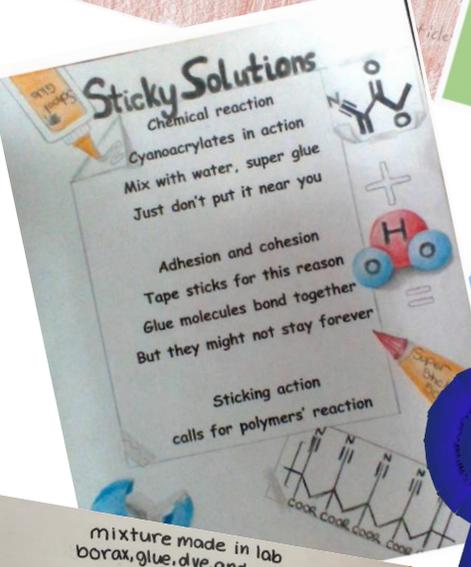
Cohesion, Cohesion why are you the same,
you stick to others like you is that all
me but not your self, its like a bag on
H₂O or a piece of slime on my shoe

adhesion
Cohesion and adhesion
written by David Thompson

3-5
A



Conprotulations!

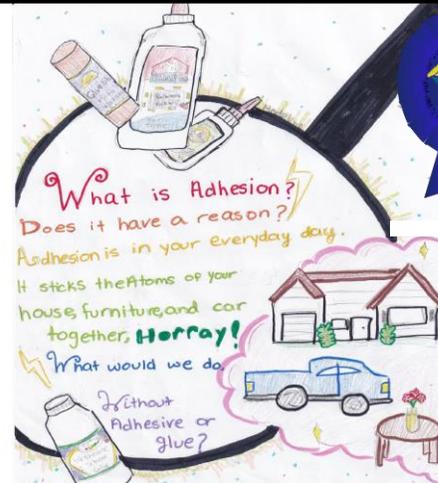


Sticky Solutions
Chemical reaction
Cyanooacrylates in action
Mix with water, super glue
Just don't put it near you

Adhesion and cohesion
Tape sticks for this reason
Glue molecules bond together
But they might not stay forever

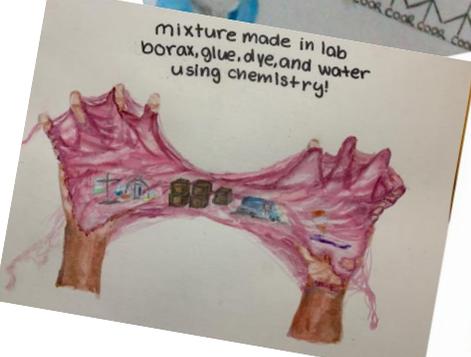
Sticking action
calls for polymers' reaction

9-12

What is Adhesion?
Does it have a reason?
Adhesion is in your everyday day.
It sticks the atoms of your
house furniture and car
together, **Hurray!**
What would we do
without
Adhesive or
glue?

6-8
A

mixture made in lab
borax, glue, dye, and water
using chemistry!

9-12
B

- <https://www.acs.org/content/acs/en/education/outreach/celebrating-chemistry-editions.html>
- <https://apps.dtic.mil/sti/citations/AD110736>

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
Capabilities Development
Command (CCDC)- Army
Research Laboratory

Postdoctoral Fellow position available Molecular-level simulations of shock physics and energy localization

Prof. Alejandro
Strachan, Dr. John
Brennan, Dr. James
Larentzos

Purdue University



and
Army
Research
Laboratory

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

JOBS

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.

Visit [Lafayette-West Lafayette and Greater Lafayette Commerce](#) are resources that highlight our great community.

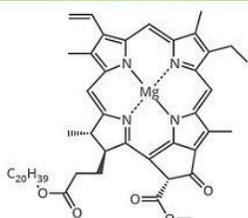
AUTUMN LEAVES OF RED AND GOLD...

Herring Run Park, Baltimore, Maryland Oct.-Nov. 2020 Photo courtesy of Dr. Camilo Rojas, Ph.D.

[Click here or on the picture to watch video by Smithsonianmag](#)



CHLOROPHYLL



CHLOROPHYLL A
A type of porphyrin

Chlorophyll is the chemical that gives plant leaves their green colour. Plants require warm temperatures and sunlight to produce chlorophyll - in autumn, the amount produced begins to decrease, and the existing chlorophyll is slowly broken down, diminishing the green colour of the leaves.

Plants require H_2O , CO_2 and sunlight to live. Sunlight a continuous energy spectrum is absorbed by chlorophyll which in turn reacts with H_2O and CO_2 to produce sugars and the green color of leaves.

LEAVES STOP PRODUCING CHLOROPHYLL

due to lack of sunlight and heat and began to change color.

All colors are different pigments always present in the leaves.

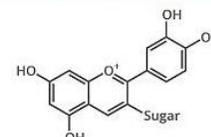
The intensity of colors is due to the humidity.

In the winter, layers of cells

form along the base of the leaf stalk, sealing the transportation of sugars from leaf to tree, as the leaf is blown off, the remaining sugar react with cells sap

producing anthocyanin, a flavonoid compound responsible for the red color. The different red tones depend on the soil acidity.

ANTHOCYANINS & CAROTENOIDS



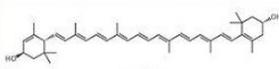
ANTHOCYANINS
(general structure)

Unlike the carotenoids, anthocyanin synthesis is kick-started by the onset of autumn - as sugar concentration in the leaves increases, sunlight initiates anthocyanin production. The purpose they serve isn't clear, but it's been suggested that they help protect the leaves from excess light, prolonging the amount of time before they fall.



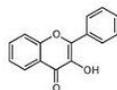
LYCOPENE
A type of carotenoid

CAROTENOIDS & FLAVONOIDS

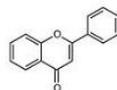


LUTEIN
A type of carotenoid

Carotenoids and flavonoid pigments are always present in leaves, but as chlorophyll is broken down in the autumn their colours come to the fore. Xanthophylls, a subclass of carotenoids, are responsible for the yellows of autumn leaves. One of the major xanthophylls, lutein, is also the compound that contributes towards the yellow colour of egg yolks.

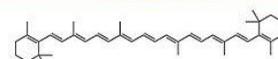


FLAVONOL
(general structure)



FLAVONE
(general structure)

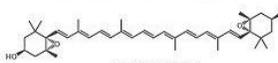
CAROTENOIDS



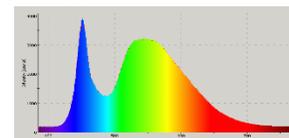
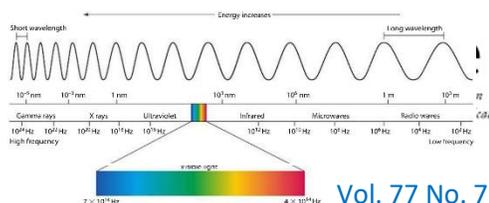
B-CAROTENE
A type of carotenoid

Carotenoids can also contribute orange colours. Beta-carotene is one of the most common carotenoids in plants, and absorbs green and blue light strongly, reflecting red and yellow light and causing its orange appearance. It is also responsible for the orange colouration of carrots.

Carotenoids in leaves start degrading at the same time as chlorophyll, but they do so at a much slower rate; beta-carotene is amongst the most stable, and some fallen leaves can still contain measurable amounts.



VIOLAXANTHIN
A type of carotenoid



[Ref.1](#) - [Ref.2](#)

EVENTS CONTACT

The U.S. National Chemistry Olympiad
USNCO MARYLAND URL:
<http://www.beatrizosalazarusncocoordinator.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.beatrizosalazarusncocoordinator.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

2020 SECTION OFFICERS

- Chair 2020..... Pumptiwitt McCarthy, Morgan State University, pumptiwitt.mccarthy@morgan.edu
Vice-Chair 2020..... Eric C. Cotton, Community College, of Baltimore County, ccotton2@cpcbcmd.edu
Chair-Elect (Chair 2022).... Sarah Zimmerman, Web Master, Chair of Member Assistance Committee scatzim@gmail.com
Secretary 2020..... Louise Hellwig, Morgan State University, louise.hellwig@morgan.edu
Treasurer 2020..... Angela Sherman, Notre Dame of Maryland University, asherman@ndm.edu
Past Chair (2019)..... Dana Ferraris, McDaniel College, dferraris@mcDaniel.edu

2020 SECTION COMMITTEE ON NOMINATIONS and ELECTIONS

- Chair of the Committee on Nominations..... Eric Cotton, Vice-Chair 2020, ccotton2@cpcbcmd.edu
Additional 4 members: Dana Ferraris, Chair-2019, dferraris@mcDaniel.edu
..... Pumptiwitt McCarthy, Chair-2020, pumptiwitt.mccarthy@morgan.edu
..... Beatrice Salazar, Chair-2018, beatricesalazar1@gmail.com
..... Sara Narayan, Stevenson University, SNARAYAN@stevenson.edu

COUNCILORS/COMMITTEES

1. 2020-2022 Kelly Elkins Kmelkins@towson.edu
2. 2018-2020 Dana Ferraris dferraris@mcDaniel.edu
3. 2018-2020 Jan Kolakowski jek6042@gmail.com
4. 2018-2020 Stephanie Watson stephanie.watson@nist.gov

ALTERNATE COUNCILORS/COMMITTEES

1. 2020-2022 Paul Smith pjsmith@umbc.edu
2. 2020-2022 Pumptiwitt McCarthy pumptiwitt.mccarthy@morgan.edu
3. 2018-2020 Michele Foss foss.michele@gmail.com
4. 2018-2020 Sarah Zimmerman scatzim@gmail.com

MEMBERS-AT-LARGE

1. Beatrice Salazar, beatricesalazar1@gmail.com
2. George Farrant, gfarrant@yahoo.com
3. James Saunders, jsaunders@towson.edu
4. Rose A. Pesce-Rodríguez, rose.a.pesce-rodriguez.civ@mail.mil
5. Sara Narayan, Stevenson University, SNARAYAN@stevenson.edu

Maryland Section on the Website: www.acsmaryland.org

Webmaster..... Sarah Zimmerman, scatzim@gmail.com

Chesapeake Chemist Editor-in-Chief... Beatrice Salazar, beatricesalazar1@gmail.com

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

CONTACT US: acsmarylandsection10@gmail.com

PROGRAM CHAIRS

AWARDS

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

PROGRAMS

Young Women Chemists, S. Narayan/K. Elkins
Student Travel, Louise Hellwig
High School Outreach: National Chemistry Olympiad & Chemist Celebrate Earth Day,
B. Salazar
Middle and Elementary School Outreach
(National Chemistry Week, Earth Day Week),
R. A. Pesce-rodriguez
Publicity, S. Zimmerman/B. Salazar/J. Schmitt
Entertainment/Tours, M. Foss/L. Hellwig



COMMENTS:

"Hopefully, none of the future events will be cancelled! Let us go virtual, just in case..." This was the case for the George Braude Award lecture it was a successful virtual presentation. Way to go ACS-MD!

"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" Thank you for your comments, please sign them.

"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" B. S.

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>



Memory of people's pandemic experiences

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!

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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.

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Phone: 302-998-1184, Fax: 302-998-1836

E-mail: (micronanalytical@compuserve.com)
Website: (<http://micronanalytical.com/>)

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