

Local Section Newsletter June 30, 2020

ISSUE June/July

What next?



PROJECT SEED

ACS INAGURATES AN ONLINE "SUMMER CAMP" P. 8

ACS Local Section

BRAUDE
AWARD RECIPIENT
PROFESSOR
LEE BLANEY, UMBC
DISCUSSES
OUR ENVIRONMENT

P. 4

Volume 77 issue No.4



Newsletter

Editor in chief: Beatrice Salazar

Policy

Pumtiwitt McCarthy, Chair-2020 Sarah Zimmerman, Web Master Jennifer Schmitt, Social Media Liaison

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Cover:

Illustration: by Beatrice Salazar Copyright 2020, Maryland LS of the American Chemical Society

Editorial

"GOOD HYGIENE GOES A LONG WAY..."

t is not the first time we hear this. News, media and everyone around keep reminding us that we must wash our hands, keep social distance and avoid crowds. For the last three months I have followed these recommendations, but it is becoming harder as more people take the same walking-path I take to do some exercise. While walking around Montebello Lake I pass the Montebello Water Filtration Plant-I (WFP-I). I remember the reason this plant was built in 1915: Baltimoreans were dying of infectious diseases due to aerobic bacteria and poor water quality. Children's mortality before age 5 was reaching high numbers. Residents began to move away from Baltimore city to areas with cleaner water and air. These areas became the Baltimore surrounding counties: Arundel, Hartford, Carroll, etc. The purpose of the WFP-I was to provide people with safe drinking water. The plant made a big difference in people's health. Also, there was a nurse-driven campaign for good hygiene to stop children's mortality. The good hygiene recommended at the time was: "wash your hands often..." Does it sound familiar?

In line with an effort for a better understanding of our environment and the people around us the June/July 2020 issue of the Chesapeake Chemist includes an article written by Professor Lee Blaney from UMBC (page 4). This article will engage us in recent studies and research on contaminants of daily products. In a separate article, Arjun Mallik, Retired Biomedical Research Chemist, brings to our attention a re-emerging epidemic disease: Tuberculosis.

Also, in this issue, we have information on activities that were removed from this year's program (p 8, 17). We want to return to them soon. A case in point is Project SEED. Dr. Louise Hellwig has been an active coordinator of this summer program at Morgan State University; she describes new initiatives for 2020 in order to help students pursue science careers.

Finally, we are following up on the previous poem in the last newsletter with a new poem by a local chemist: "Left and Right sides." (p 10). It would be awesome, in addition to being poetic, if we have additional contributions from chemist-poets for future newsletters. Please send us your poems!



Thanks to all collaborators, your contribution to this issue is highly appreciated.

Editor

<u>Beatrice Salazar</u>



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

Dear members,

Although Maryland is reopening, I think I am not alone in feeling we are a long way from what life was like prepandemic. Life is still very challenging and uncertain in many ways for a lot of people. A number of our chemists in industry and academia have recently been denied visa status due to recent changes in laws (see C&EN news coverage here). In addition, recent instances of police brutality have shed a light on institutional and systemic racial biases. Chemistry is not immune to such biases (see some recent personal accounts from C&EN news here).

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. We all have lived through different experiences, but our common thread is an appreciation for the wonders of chemistry. We encourage our members to express this love of chemistry through submission of chemistry-related articles to our newsletter.

In closing, I would like to wish all of you safety and good physical and mental health during these challenging times. ACS National has a <u>webpage</u> 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 <u>biases</u>. Please also see some resources provided by the CDC to <u>help cope with stress</u> during COVID-19.

Stay safe and well,

Pumtiwitt Mc Carthy



CONGRATULATIONS Professor Lee Blaney BRAUDE AWARD RECIPIENT!

See the lecture and award ceremony in our October Issue. Plan to attend!



Dr. Lee Blaney completed BS and MS degrees in Environmental Engineering from Lehigh University and a PhD in Civil (Environmental) Engineering from the University of Texas at Austin. He is now an Associate Professor in the Department of Chemical, Biochemical, and Environmental Engineering at UMBC. He is the recipient of the Maryland-ACS Braude Award, the Outstanding Young Engineer Award, the NSF Career Award, and the AEESP Award for Outstanding Teaching in Environmental Engineering and Science. His research program is focused on (1) the occurrence, fate, transport, and toxicity of contaminants of emerging concern, such as pharmaceuticals and personal care products, in natural and engineered systems and (2) development of sustainable technologies for resource recovery from agricultural and municipal waste.

CONTAMINANTS OF EMERGING CONCERN IN THE ENVIRONMENT



Lee Blaney (left) works with undergraduate research assistants, Cameron Sloan (center) and Ouriel Ndalamba (right) to investigate new processes for wastewater treatment and resource recovery. Photo credit: Marlayna Demond.

By Lee Blaney, UMBC, Department of Chemical, Biochemical and Environmental Engineering

Every day, we interact with a number of specially-designed chemicals, from the caffeine in our coffee to the active ingredients in our medication, the sunscreen agents in our personal care products, and the per- and polyfluoroalkyl substances (PFAS) in a wide variety of household and industrial products. Some portion of these compounds gets washed (or excreted) down our drains and, usually, out of our minds. However, these chemicals do not

disappear. Instead, they pass through our sewers to wastewater treatment plants. Caffeine, pharmaceuticals, sunscreen agents, PFAS, and other small molecules are not completely removed during wastewater Therefore, treatment. these specially designed chemicals get discharged into receiving water bodies, where they can exert pressure on aquatic organisms. For this reason, we refer to them as contaminants of emerging concern.

Some contaminants of emerging concern may seem innocuous. Diclofenac is a nonsteroidal anti-inflammatory drug and one of the most prescribed human medications in the United States. Due to the effectiveness of this compound, it was

also widely used to treat inflammation in South Asian cattle. However, diclofenac turned out to be extremely toxic to the vultures that fed on the carcasses of treated cows. Since the adoption of diclofenac in the early 1990s, vulture

A schematic of ongoing research in Blaney's lab.
Figure credit: Grace Capshaw, University of Maryland
College Park"

populations have declined by as much as 99% in areas of South Asia. This case study highlights the potential impacts of the release of specialty chemicals into the environment, where unintended (and sometimes catastrophic) consequences can manifest.

Similarly, there has been recent interest in the environmental effects of sunscreen agents. Many of the sunscreen products available in local drug stores contain four or five different organic UV filters (*i.e.*, the active ingredients in sunscreen and many other skin care products). These compounds have a major public health benefit related to prevention of skin cancer. However, recent studies have reported the potential toxicity of these

molecules to corals and other aquatic organisms. Given the importance of corals to biodiversity, fisheries, and tourism, the sale of sunscreens containing select UV filters has been banned in Hawaii, Key West (Florida), the US Virgin Islands, and Palau

(an island nation in the Pacific Ocean), among others. These bans raise important questions about the confluence of public health, economic wellbeing, environmental health, and green chemistry.

The aforementioned public health, economic,

and environmental outcomes also play a crucial role in the discharge of antibiotics to the environment. Recent reports have indicated that antibiotic loading from wastewater effluent and animal agriculture facilitate the development and spread of antimicrobial resistance in the environment. Indeed, antimicrobiallyresistant bacteria and antimicrobial resistance genes have been detected in wastewater-impacted streams and rivers. The healthcare cost of treating antibioticresistant infections in the United States is estimated at \$20-34 billion per year. While diverse efforts are needed to reduce antibiotic use and suppress antimicrobial resistance, wastewater regulations could play a pivotal role in addressing this global public health challenge.

Over the past few years, our research been measuring group has these contaminants of emerging concern in Maryland. We have detected diverse antibiotics in the Gwynns Falls watershed (Baltimore City) and the Chester River (Eastern Shore) at levels that select for antimicrobially resistant bacteria, potentially increasing their prevalence in the environment.



Blaney discusses the results of antibiotic photodegradation experiments with PhD candidate, Mamatha Hopanna (center), and undergraduate research assistants, Bridget Anger (left) and Lauren Harris (right). Photo credit: Marlayna Demond.

In addition, we have measured UV filters and synthetic hormones (e.g., 17α -ethinylestradiol, which is the active ingredient in the birth control pill) in crayfish from Baltimore streams and oysters from the Chesapeake Bay. The UV filter concentrations in some of the sampled crayfish and oysters

Making matters worse, the list of contaminants of emerging concern continues to grow...

exceeded the toxicity thresholds reported for corals, but toxic outcomes in crayfish and oysters are not fully understood. Synthetic hormones are known endocrine disrupters that cause reproductive disorders and can lead to population crashes, SO accumulation chemicals in crayfish and ovsters represents a major concern to ecological food webs. Making matters worse, the list of contaminants of emerging concern continues to grow.

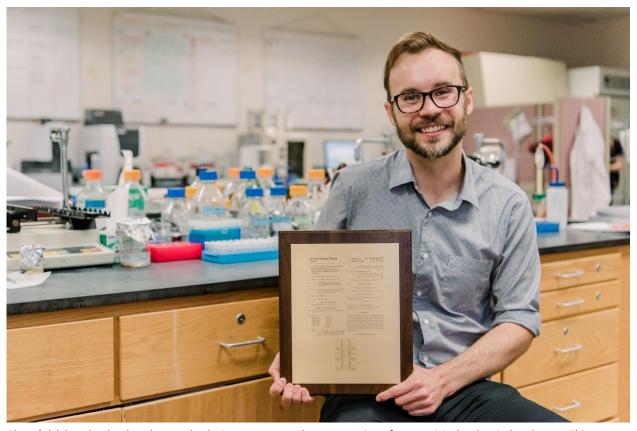


Members of Blaney's lab include postdoctoral research associates and BS, MS, and PhD students in the Environmental Engineering, Chemical Engineering, and Chemistry programs at UMBC. Photo credit: Marlayna Demond.

he latest addition stems from PFAS, which is a class of 4000+ fluorinated chemicals. PFAS can be found in food packaging, stainand water-resistant fabrics. nonstick cookware, and fire-fighting foams, among other consumer and industrial products. Exposure to PFAS can cause adverse human health outcomes related to reproduction, development, liver and kidney function, and the immune system. Some states have regulated the concentrations of two perfluorooctanoic perfluorooctanesulfonic acid, in drinking water, and federal regulations have also been proposed. However, PFAS are difficult to treat due to the strength of the carbon-

fluorine bond, raising major challenges for effective water treatment. Following the detection of PFAS in the St. Mary's River, there has been a lot of interest in understanding the occurrence, fate, transport, and toxicity of these contaminants in Maryland.

Our group is currently working on new methods to sample and remediate diverse PFAS in the environment, and we hope to contribute chemistry-based solutions to these issues in the State.



Blaney's lab has also developed two technologies to remove and recover nutrients from municipal and agricultural waste. This photograph shows Blaney with his first patent, *Nutrient extraction and recovery device for isolation and separation of target products from animal produced waste streams*. Photo credit: Marlayna Demond. US Patent No. US20170174577A1 Jan 25, 2019

CONTACT:

Lee Blaney (<u>blaney@umbc.edu</u>)
UMBC, Department of Chemical,
Biochemical and Environmental Engineering



Website: Blaney Lab



PROJECT SEED

New program substituting for Project SEED this summer 2020

ACS Project SEED has cancelled all research projects in labs this summer. However, they will have a special online short course to prepare students for research, laboratory safety, how to do a professional presentation, etc. Students will get a small stipend for attending this course.

Project SEED Coordinator Louise Hellwig, PhD at ACS- Maryland, welcomes the substitution. She says: "I think it's encouraging that ACS is trying to have some substitute educational event for the students".

"I find this new program heart-warming. ACS could have just canceled Project Seed till next year, but they devoted countless hours to constructing this **new summer camp**. And to think that they will get Chromebooks and Wi-Fi hot spots for students lacking those amenities. The newspapers have had several articles about how undependable Wi-Fi is a problem for students trying to go to school online. The summer camp is also a good opportunity for undergraduate and graduate students who can't work in a lab this summer; this is a way they can make some money".

"As ACS refines this **camp**, it can be good for students living in remote areas far from a lab. In the future even advanced middle school students could attend this camp; there aren't the insurance concerns about youngish students in the lab."

"Of course, it's sad that the students can't do lab research this summer. It's also sad that whereas thousands of high school students did Project SEED each year in the past, ACS only has room for 250 students in this new "camp".

Read more at

https://www.acs.org/content/acs/en/education/students/highschool/seed/virtual-summer-camp.html

CONTACT

Dr. Louise Hellwig

Morgan State

University

ACS Maryland Local section Secretary

- PROJECT SEED Coordinator
- Student Travel Awards Chair
- Beer ToursCoordinator



50th Year Anniversary at ACS National Meeting in Boston, MA August 19, 2018

Louise Hellwig Chemistry Department, SP 212 Morgan State University 1700 E. Cold Spring Lane Baltimore, MD 21251 443 885 2085

HISTORY CORNER...

2020 Marks the 52nd Anniversary of PROJECT SEED

ACS inaugurates an online "Summer Camp"

Since 1968, Project SEED (Summer Experiences for the Economically Disadvantaged)

By Louise Hellwig, ACS inaugurates an online "Summer Camp." Quoting from the ACS website"

has brought in more than 11,000 high school students to participate in research at academic, industry, and government labs across the United States and U.S. territories. For 8 to 10 weeks during the summer, SEED students work in real laboratories, with real scientists serving as their mentors. Students learn about careers in chemistry and receive mentoring in college preparation and professional development." Unfortunately, this summer Project SEED has canceled in-person research since so many labs are closed, especially to students, due to Covid-19. However, the ACS has developed a new and different online program. In place of the traditional research model, ACS will curate and host a 4-week virtual summer camp in July that

expands some of the non-technical benefits of Project SEED into an



Louise Hellwig, Coordinator

Lab Safety

experience that develops students in three areas:

- Communicating and Understanding Chemistry Research
- Professional Development and College/Academic Readiness

Project SEED students, who will receive a small stipend for participation, will spend between 10 and 20 hours per week in a series of webinars, virtual panels, writing and research assignments (with meaningful feedback provided on their work), and discussions in small-group settings to achieve the objectives outlined above. The entire camp will be curated, organized, and run by the national ACS office.

This "summer camp" will be organized in "cabins" of 6-10 students who will be supervised by a "cabin leader", a paid undergraduate or graduate student. Every 2-3 "cabins" will be overseen by a Project SEED Mentor/Coordinator.

If a prospective student participant needs a device and/or internet access. ACS will purchase laptops and internet hotspots for those students.

ACS Maryland



Poem

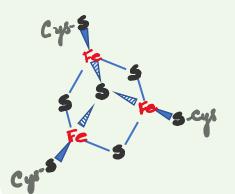
Bill, a friend from graduate school thirty-plus years ago, shared with me a fondness for fine literature and science. I admired his ability to stay up all night reading a book by García Márquez OR Cotton and Wilkinson's Advanced Inorganic Chemistry. Often, we discussed the nature of reality. I don't think we ever got to first base, but the question is still there.

Thus,

Left and Right Sides

"Love in the time of cholera" reading delight... recognition AND consolation... we are NOT alone.

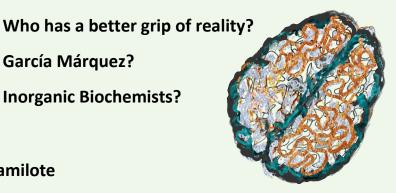




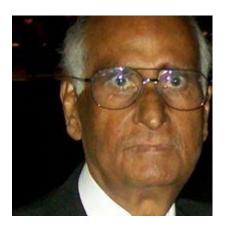
Iron - Sulfur clusters: beautiful cubanes engaged in electron transfer... man's ingenuity in trying to understand... JOY of learning.

García Márquez? **Inorganic Biochemists?**

Camilote



ARJUN MALLIK, M.S. (RES)



DISTINGUISHED SCIENTIST

Early Development of
Antitubercular drugs and their
Pharmacological data

Biomedical Research Chemist [Retired]

M.Sc. by Research & Syntheses of over two dozen new organic chemicals with multiple anti-bacterial properties. Graduated from Indian Institute of Science, Bangalore. Bio-Medical Scientist. Publisher of 45 research publications in U.S., U.K. and other international journals. Patent holder of five discoveries. He is Formerly, Director of Reproductive Research @ OBG Department, Methodist Hospital of Brooklyn, NY., & New Products Project Manager, Fisher Scientific Co., NJ., introduced 217 New Biomedical reagents.

Awards

Lady Banerjee Gold Medal Award from Indian Institute of Science, Bangalore (India), for the Syntheses of two dozen & more new organic compounds with Anti-tubercular & anti-Leprosy activity in vitro and in vivo (1951-1956).

Highlights

- <u>Recipient of Gold Medal</u> for an outstanding research work on synthesizing several antitubercular drugs given by the Department of Organic chemistry, Indian Institute of Science, Bangalore, India.
- 2. Discoverer of Cobalt as an essential trace nutrient element in higher plants like Tomato and Rubber Plants- Post Graduate Research conducted in Kuala Lumpur, Malaysia.

Contact:

E-mail: arjun-mallik@comcast.net

Chambridge Who's Who & CWWConnect

American Association of Clinical Chemists (USA)

https://www.linkedin.com/in/arjun-mallik-m-s-res-9626b846/

From article background (Use previous page article-link):

Tuberculosis (TB) is a serious airborne disease caused by *Mycobacterium tuberculosis*, being considered as a global health emergency by the World Health Organization (WHO). Control and prevention of TB are major challenges as one-third of the world's population is infected with Mycobacterium. The use of Penicillin, sulfa drugs streptomycin, Isonicotinic acid hydrazides (INH) and paminosalicylic acid (PAS) are important milestones in the progress of treatment for the control of TB in several countries in the world. In the 50's TB was ranked as the seventh among the causes of death worldwide and the death rate was 5-6 million each year and dreaded as enemy number 1.



Author's photo from



Arjun Mallik explains in his article that amongst several compounds that were synthesized and tested for their pharmacological activity, the following are the most important ones.

Part I. Methods for the preparation of semicarbazides and their corresponding thio derivatives starting from the corresponding hydrazides.

Part II. Isolation of α -amino acids from human hair and silk waste.

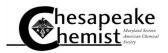
Commentary: This article brings to mind the fascinating story of Louis Pasteur in the book *How Pasteur Changed History*, by D. Reynolds (1994). She refers to tuberculosis (TB) as *The Forgotten Plague*. TB prevention could have been possible through the institution of hygienic measures. During the Golden Age of Bacteriology (1880-1900) there were at least 31 significant advances to control infectious diseases including tuberculosis. The success of antibiotics, drugs and vaccines has given us a sense of unrealistic security. Unfortunately, due to genetic changes,

organisms may develop resistance to treatment. Only adequate public health measures and continuous research will help prevent the spread of these emerging microbial threats. According to Reynolds, tuberculosis is one disease that re-emerges. In 1985, it became a serious threat with more than 26,000 cases and 1,700 related deaths annually in USA. More recent reports (2017) show a decrease to 9,025 infections and 515 deaths. However, worldwide in 2018, a total of 1.5 million people died from TB. People are infected and do not show clinical symptoms; does this sound familiar?

Acknowledgements

Thanks to Professor Saraswathi Narayan, Stevenson University for bringing this article to the attention of the Chesapeake Chemist Newsletter. snarayan@stevenson.edu





Laugh a little...



Two chemists walk into a bar.

One says, "I'll have an H_2O ." The other says, "I'll have an H_2O , too." The second chemist dies.

- I tried writing jokes about the periodic table.....but I realized I wasn't quite in my element.
- Did you hear the one about cobalt, radon, and yttrium?
 It was CoRnY.



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.

GOVERNMENT POSITIONS



US Army Combat Capabilities Development Command (CCDC)- Army Research Laboratory

Postdoctoral Researcher for Novel Materials

The Detonation Science and Modeling Branch, Lethality Division of WMRD, CCDC-ARL is seeking an exceptional Postdoctoral Researcher conduct research on plasma-based chemical synthesis and surface functionalization for novel materials. In this position, you will investigate applicable plasma chemistry and physics, employ

methodologies, and conduct material characterization for new pathways of producing a wide variety of novel materials for Army applications. You will work with scientists and engineers having multi-disciplinary expertise from ARL and external DoD/university partners to address and resolve technical challenges in the field related to mission and customerfunded programs.

- Candidates Must be a US citizen (dual citizenship negotiable)
- A doctorate degree in an appropriate discipline (Materials Science, Chemical Engineering, Mechanical Engineering, Chemistry, Physics)
- Previous plasma research and industrial experience is especially desired
- Other previous research and industrial experience is preferred but NOT required
- Hands-on experience and/or expertise in material characterization techniques are preferred. They include but not

<u>and Materials Research</u> <u>Directorate (WMRD)</u>

limited to transmission electron microscopy (TEM), scanning electron microscopy (SEM), atomic force microscopy (AFM), X-ray Photoelectron Spectroscopy (XPS), Powder Xray Diffraction (XRD)

- Excellent written and oral communication skills
- Excellent adaptability to new research team/project assignment per organization needs

Application Package Requirements

- Cover letter
- Curriculum Vitae or Resume
- Transcripts
- Statement of doctorate and post-PhD research/industrial experience
- Three reference letters

Point of Contact:

Dr. Chi-Chin Wu

Email: chi-chin.wu.civ@mail.mil
Work Phone: +1-410-306-1905.

Due to COVID-19 Pandemic, the best way to contact Dr. Wu is via email above or leave a message on (443)567-6586.



A serendipitous discovery!



Ira Remsen, a chemist at Johns Hopkins University, discovered Saccharin in 1879.

The story

Ira Remsen was working in developing coal tar derivatives after testing the purity of a shipment of sugar.

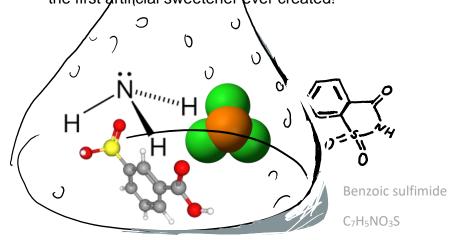
One day during that period, he returned to his home to enjoy his meal as he did everyday but failed to wash his hands.

While he was eating a piece of bread, he noticed that the bite he just took was incredibly sweet.

When Remsen (realized that the sweetness of the bread came from chemicals that he spilled into his hands he was excited.

Remsen went back into his lab and tasted every chemical he had left on his desk until he landed on a beaker filled with sulfobenzoic acid, phosphorus chloride and ammonia.

This cocktail had boiled over earlier in the day, creating Saccharin, the first artificial sweetener ever created!



Other fun websites: from Johns Hopkins University,

"Sherlock Holmes is an organic chemist—he had to have heard of Remsen,"



Announcement

2020 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.

Dr. Muir will be giving the Remsen Lecture on the campus of Johns Hopkins University on November 12, 2020.

The Ira Remsen Award

Inaugurated in 1946 in honor of Ira Remsen, the first Chairman of the Chemistry Department at Johns Hopkins University and the second President of the University.

Award

The recipients of the Remsen award are chemists of outstanding achievement in keeping with Ira Remsen's long and devoted career as an exponent of the highest standards in teaching and research in chemistry. The Award culminates in a Remsen memorial lecture given by the recipient, followed by presentation of a plaque and an honorarium.

Nomination

The recipient of the Remsen Award is chosen annually by the Remsen award committee, consisting of a chairman and members of the chemistry faculty at Johns Hopkins University.

Nominations are solicited through advertisements in Chemical & Engineering News.

Nomination materials

Letter including a short statement describing the outstanding contributions of the nominee to scientific research and education.

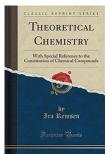
CV of the nominee including his/her list of publications.

Contact

Dr. Dana Ferraris at danaferraris@yahoo.com. **Submission deadline is October 2020** for the 2021 award.

ON BOOKS...

Theoretical Chemistry: With Special Reference to the Constitution of Chemical Compounds Specific Heat



Excerpt from Theoretical Chemistry: With Special Reference to the Constitution of Chemical Compounds Specific heat - Relations between specific heat and atomic weights - Investigations of Dulong and Petit - Investigations of Neumann and Regnault. Determination of atomic weights by a study of the specific heat of compounds - Exceptions to the law of Dulong and more...

- Author: Ira Remsen
- First published: Nov 20, 2017

This book contains the original text of Ira Remsen around 1872. The book's success brought Ira Remsen to the attention of Daniel Coit Gilman who was searching for a candidate to occupy the chemistry chair's position at the opening of The Johns Hopkins University.

ON USNCO...



The 2020 Team USA for the International Chemistry Olympiad has been selected!

Team USA will be participating in the virtual International Chemistry Olympiad competition on July 25th.

CONGRATULATIONS! The 2020 USNCO International Team members are:

- Anugrah Chemparathy, Dougherty Valley High School, CA, California Local Section, LS
- Alex Li, Lexington High School, MA, Northeastern Local Section
- Ananthan Sadagopan, Westborough High School, MA, Central Massachusetts LS
- Alec Zhu, Lexington High School, MA, Northeastern Local Section

The alternates are:

- Nicholas Tsao, St. Mark's School of Texas, TX, Dallas Fort Worth Local Section
- Michael Han, Dougherty Valley High School, CA, California Local Section

Thank you for your dedication to the USNCO program.

Contact:

Margaret Thatcher, Program Specialist, U.S. National Chemistry Olympiad American Chemical Society, Phone:202-872-6328, www.acs.org/olympiad

SUCCESFUL ACTIVITY REPORT

U.S. National Chemistry Olympiad

CONTACT

Beatricesalazar1@gmail.com Coordinator



CANCELLED ACTIVITIES REPORT

Special Earth Day Seminar: "The Environment is on Drugs!" Professor Lee Blaney, **UMBC**

> Celebrate Earth Day: Tour of the Montebello Water Filtration Plant

Student Awards

Student Travel Awards

Senior Awards

Beer/wine tours

Chemistry week

Earth - Day week

Women Chemist Lecture

d Local Section of Loca Chemistry in the Library, all year

Rainbow Author CC BY-NC





2020 ADMINISTRATION OFFICERS

2020 SECTION OFFICERS

2020 SECTION COMMITTEE ON NOMINATIONS and ELECTIONS

Chair of the Committee on Nominations James Saunders, <u>jsaunders@towson.edu</u>
Additional 4 members: Dana Ferraris, Chair-2019, dferraris@mcdaniel.edu
Beatrice Salazar, Chair-2018, beatricesalazar1@gmail.com
Sara Narayan, Stevenson University, SNARAYAN@stevenson.edu

COUNCILORS/COMMITTEES

2020-2022 Kelly Elkins Member of the ACS Ethics Committee, <u>Kmelkins@towson.edu</u>

2018-2020 Dana Ferraris
 Chair of the Section Program Committee (McDaniel College), <u>dferraris@mcdaniel.edu</u>
 Member of the ACS Committee on Technician Affairs, CTA <u>jek6042@gmail.com</u>

 2018-2020 Stephanie Watson
 ACS Committee on Committees member (ConC) NIST), <u>stephanie.watson@nist.gov</u>

ALTERNATE COUNCILORS/COMMITTEES

1. 2020-2022 Paul Smith Member of ACS Local Section Activities(LSAC) Committee, pjsmith@umbc.edu

2. 2020-2022 Pumtiwitt McCarthy Chair of Publicity Committee, pumtiwitt.mccarthy@morgan.edu

3. 2018-2020 Michele Foss Committee TBA, foss.michele@gmail.com

4. 2018-2020 Sarah Zimmerman Web Master, Chair of Member Assistance Committee, scatzim@gmail.com

MEMBERS-AT-LARGE

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

Maryland Section on the Website: www.acsmaryland.org

CONTACT US: <u>acsmarylandsection10@gmail.co</u>

OTHER MEMBERS OF THE MARYLAND LOCAL SECTION **EXECUTIVE COMMITTEE**

Merle Eiss, meiss32@aol.com - Michele Foss, foss.michele@gmail.com -

Linda Gonzalez, linda gonzalez@mccormick.com, Michael Zapf, MZapf@towson.edu,

Suzanne Procell, suzanne.a.procell.civ@mail.mil - Lee Lefkowitz, lee_lefkowitz@hotmail.com

EVENTS CONTACT:

May Senior Awards

Email: Merle Eiss, meiss32@aol.com

Email: linda gonzalez@mccormick.com

March – April

Student Award

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

Chemists Celebrate Earth Day

February

Student Travel Awards

https://acsmaryland.org/travel-

awards/

Email: louise.hellwig@morgan.edu

June/July

The U.S. National Chemistry Olympiad **USNCO MARYLAND URL:**

http://www.beatricesalazarusncocoor dinator.webs.com

National Chemistry Week Events

http://www.beatricesalazarusncocoor dinator.webs.com

Beer Tours: Louise Hellwig & Michele

Foss: foss.michele@gmail.com

October

Braude Award

https://acsmaryland.org/braude-

award/

Email: louise.hellwig@morgan.edu

November

The Remsen Award

https://acsmaryland.org/remsen-

award/

Email: danaferraris@yahoo.com

December

January

The Maryland Chemist of the Year Award

https://acsmaryland.org/maryland-chemistof-the-year/

Email: asherman@ndm.edu and Jennifer

Schmitt, Jen@rapafusyn.com



Nominations Solicited:

The deadline will be September 14th, 2020.

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MATERIALS CHARACTERIZATION

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3815 LANCASTER PIKE, WILMINGTON, DE 19805 Phone: 302-998-1184, Fax: 302-998-1836

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

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