

2018 ACS MD STUDENT AWARDS



~Stephen P. Askew and Roxanne T. Diedrich~
Trilogy Essentials Ingredients, Inc.

"The Story of Cinnamon"

Sunday, April 8th 12-3:30 pm
Doyle Formal Room
Notre Dame University of Maryland
4701 N. Charles St.
Baltimore, MD 21210

Chesapeake Chemist

Maryland Section
American Chemical Society

2018 Section Officers:

Chair 2018..... Beatrice Salazar, beatricesalazar1@gmail.com
Vice Chair 2018..... Dana Ferraris, McDaniel College, dferraris@mcdaniel.edu
Chair-Elect (Chair 2020).... Pumtiwitt McCarthy, Morgan State University, pumtiwitt.mccarthy@morgan.edu
Secretary 2018..... Louise Hellwig, Morgan State University, louise.hellwig@morgan.edu
Treasurer 2018..... Angela Sherman, Notre Dame of Maryland University, asherman@ndm.edu
Past Chair (2017)..... Stephanie Watson, N.I.S.T., stephanie.watson@nist.gov

2018 SECTION COMMITTEE ON NOMINATIONS

Nominated by current Chair, Congratulations!

Chair of the Committee on Nominations..... James Saunders, jsaunders@towson.edu
Additional 4 members: Beatrice Salazar, Chair, beatricesalazar1@gmail.com
..... Dana Ferraris, Vice Chair (required), dferraris@mcdaniel.edu
..... Sara Narayan, Stevenson University, SNARAYAN@stevenson.edu
..... Sandra Young, RDECOM, sandra.k.young26.civ@mail.mil

COUNCILORS/COMMITTEES

- 2018-2020 Dana Ferraris Chair of the Section Program Committee (McDaniel College), dferraris@mcdaniel.edu
- 2018-2020 Jan Kolakowski Chair of Section Finance/Investment Committee, jek6042@gmail.com
- 2017-2019 Merle Eiss Member of ACS Meetings and Expositions Committee 2017, meiss32@aol.com
- 2017-2019 Paul Smith Member of ACS Local Section Activities (LSAC) Committee
Associate/Chair of Long Range Planning Committee (MARM-2019) (UMBC),
pjsmith@umbc.edu
- 2018-2020 Stephanie Watson Member of the ACS Committee on Committees (ConC) Liaison on
[Nomenclature, Terminology and Symbols](mailto:stephanie.watson@nist.gov) (NIST), stephanie.watson@nist.gov

ALTERNATE COUNCILORS/COMMITTEES

- 2017-2019 Kelly Elkins Member of the ACS Ethics Committee, Kmelkins@towson.edu
- 2017-2019 Pumtiwitt McCarthy Chair of Publicity Committee, pumtiwitt.mccarthy@morgan.edu
- 2017-2019 Sandra Young Chair of Community Outreach Activities Committee, sandra.k.young26.civ@mail.mil
- 2018-2020 Michele Foss Committee TBA, foss.michele@gmail.com
- 2018-2020 Sarah Zimmerman Chair of Member Assistance Committee,* scatzim@gmail.com

*New 2018 Committee as per Maryland Section Governance Bylaws, nominated by current Chair, Congratulations!
<https://www.acs.org/content/dam/acsorg/about/governance/charter/lsbylaws/maryland.pdf>

MEMBERS-at-Large

Suzanne Procell, Edgewood Chemical Biological Center, suzanne.a.procell.civ@mail.mil
Rose A. Pesce-Rodriguez, RDECOM, rose.a.pesce-rodriguez.civ@mail.mil
Sara Narayan, Stevenson University, SNARAYAN@stevenson.edu
James Saunders, jsaunders@towson.edu
George Farrant, garrant@yahoo.com

[Awards Committee Chairs & Local Section Committees Chairs](#)

Maryland Section on the Web:
maryland.sites.acs.org

Webmaster:
Pumtiwitt McCarthy, Pumtiwitt.McCarthy@morgan.edu

Chesapeake Chemist Editor-in-Chief:
Pumtiwitt McCarthy, Pumtiwitt.McCarthy@morgan.edu

Contact us at:
acsmarylandsection10@gmail.com

Message from the Chair

Dear colleagues:

The Webinar on the Opioids Epidemic was attended by 350 national viewers the night it was broadcast. The Maryland section is making the presentation available to all members through the Maryland website. Readers may click on the new [Virtual Workshops](#) tab to access the video.

Our website has new and updated tabs that should make information more accessible. The *About Us* tab contains an updated version of the history of the Maryland section. Let us know what you think!

The tab *2018 Year Events* will bring you to specific events for each month. The virtual workshops will include event videos and workshops. We are in the process of updating remaining tabs. The goal is to make information readily available to all Maryland section members so that they can take advantage of the benefits the section offers. Feel free to send us suggestions.

Approaching events:

March is here and there is excitement in the air. Several of us will be attending the 255th ACS National Meeting in New Orleans, March 18-22, 2018. In addition to the councilors, we will have fifteen graduate and undergraduate students from the ACS Maryland section presenting posters. We will also be presenting a poster on our annual tour of the Montebello Water Filtration Plant-I in Baltimore. Since 2016, the tour has been offered to high school students. This year, in addition to the HS tour, we will have a tour for Maryland section Chemists in June.

The Student Awards event will take place on **April 8th**. We have arranged for a demonstration on essences and products by a representative from *Trilogy Essential Ingredients, Inc.* Additional events include the US. National Chemistry Olympiad (April 14th), Earth Day, (April 20th), a forensics conference (April 21st) and an outreach science fair for K-8 students on (April 26th). Details on each event will appear in our next newsletter.

Beatrice Salazar

Maryland Section Chair-2018

Information is Key

The following includes a background on ACS and the Maryland Local Section, our website, the first executive committee meeting and the section's programs for Spring-2018. Please check the *2018 Year Events* to see in detail each month of activities.

III. Executive Committee Meetings

Plans for this year include four regular executive committee meetings:

First executive committee meeting: **Monday Feb. 12, 2018**

Second executive committee meeting: **Tuesday, April 24, 2018**

Third executive committee meeting in September 4-7, 2018

Fourth executive committee meeting in December 17-20, 2018

Exact dates will be announced approximately two weeks prior to each meeting. Please allocate time in your schedules. An extra meeting will be assigned to discuss MARM-2019. Dates could change. Please use our website to stay informed on exact dates.

If you have any event to be considered please contact us before each month's meeting.

IV. The Maryland Section Program for 2018

All ACS members are welcome to our local section activities, lectures and events. They could bring new initiatives to us and ask for support on their activities. We are good at collaborating.

MARCH

1. [Notice of event change \(this lecture has been postponed, date TBA\): Women Chemists Committee \(WCC\) Seminar](#) – All genders are encouraged to attend! Our Speaker is Dr. Clare Muhoro. The lecture location TBA. Contact: [Sara Narayan](#) and [Kelly Elkins](#) PLEASE [RSVP](#) to the MD ACS (contact-us@mdchem.org).




Women Chemists Committee (WCC) serves all members of the American Chemical Society. The Maryland local section's mission is to continue the mission of ACS that is, to be leaders in attracting, developing, promoting, and advocating for women in the chemical sciences in order to positively impact society and the profession. Our goal is to increase participations of women in the chemical sciences, every year, we invite a women chemists to address the community of chemists professionals and students in the Maryland area. We advocate for women chemists in issues that concern to their career and professional advancement. We recognize women chemists' professional accomplishments in all science disciplines.

Contact: Dr. KELLY ELKINS, Assistant Professor, Chemistry Department, Smith Hall, Room 514 - Phone: [410.704.6217](tel:410.704.6217) - Email Address: kmelkins@towson.edu

2. ACS National Meeting in New Orleans – March 18-22, 2018
 - (a) Five Maryland section councilors will attend the ACS National Meeting.
 - (b) POSTERS:
 - (i) a poster entitled “Montebello Water Filtration Plant-I in Baltimore: Chemistry’s contribution to public health,” will be presented by a former Baltimore County High School Chemistry Teacher
 - (ii) Fourteen graduate/undergraduate chemistry students received [student travel grants](#) to attend this meeting. Each student will present a poster of their current research. Click [here](#) to see the names of the participants and their poster titles. The abstract of each poster will be posted later. If you go to the meeting please stop by our Local Section posters.
Student Travel Grants – Each year the local Section invites Maryland ACS members to apply for this grant. The grants are awarded on a first-come, first served basis for those applicants that comply with the criteria established by the local Section’ Committee on Student Travel Grants. For more information contact Committee Chair: [Louie Hellwig](#)
3. MARM-2019 - The official website for this meeting will appear by March 31st. MARM-2019 will be held May 30- June 1, 2019. **If you would like to volunteer to help organize this meeting please contact [Paul Smith](#), MARM-2019 Chair.**

APRIL

1. Student Awards –The award ceremony is held each year to celebrate 19 -21 top chemistry students from colleges and universities in the Maryland area. Students are selected by their professors and mentors and must comply with specific criteria from the Maryland Section’s Student Award Committee. The awards are presented to each student after an elegant lunch and a chemistry related lecture. This year, we are fortunate to have a lecture and a demonstration. The Speakers, for 2018 are
 Dr. Steve Askew and Dr. Roxanne Askew from [Trinity Essential Ingredients Inc.](#)
Each awardee receives a Certificate, a printed copy of the April Edition of the Chesapeake Chemist where they are honored and a gift. The ceremony is well attended; teachers, friends and family of awardees celebrate together the student’s achievements. Join us! For more information, contact the Committee chair: [George Farrant](#).

The Luncheon/Ceremony will be at Notre Dame of Maryland University in the Doyle Formal Room. Sunday, April 8, 2018 Time: 12:00 Noon- 3:30 P.M. Directions: [4701 North Charles Street, Baltimore, MD 21210](#) - Campus Map: <http://www.ndm.edu/about-us/our-campus/map-directions-parking>

PLEASE RSVP by emailing: contact-us@mdchem.org or contact: George Farrant at gfarrant@yahoo.com or Angela Sherman at e-mail address: asherman@ndm.edu

2. Earth Day – [The Earth Day event](#) will take place on Friday, April 20, 2018. Chemistry high school students and their teachers are invited to tour the Montebello Water Filtration Plant-I in Baltimore City. All high schools in the Maryland area are welcome to apply for this tour-celebration of earth-day. The Tour includes: History of water treatment, information on water sources, a visit to each plant stages of water treatment, the chemistry of water treatment and its impact on public health. Please [contact us](#).



3. U.S. National Chemistry Olympiad - [USNCO](#) – High School students need to apply to the UNSCO Maryland coordinator at <http://beatricesalazarusncocoordinator.webs.com> by March 5th. The competition will take place at **CCBC Catonsville Campus on Saturday, April 14th** from 7:30 A.M.-3:30 P.M. ACS members that want to volunteer on that day to proctor during the exam are welcome. Please [contact us](#).
4. Chem-a-Thon - The Maryland Local Section of ACS has supported the Chem-a-thon at the University of Maryland College Park since 1980. The support includes prizes for students and teachers and volunteer judges. Participation could fluctuate from 26-270 participants. Each school participates with two teacher mentors and two student-teams (level-1 and level-2) per participant school. This is the 34th year of this competition. This event is open to other local sections including our neighbor Washington local section. Contact: [Mike Zapf](#)
5. Executive committee meeting No.2 Tuesday, April 24, 2018 at Stevenson University (Owings Mills campus) **Catering Services: Sodexo at Stevenson University**
Location: Stevenson University
Beverly K. Fine School of the Sciences
Kevin Manning Academic Center N-122
Room: N-122 Conference Room
Ted Herget Way (11200 Gundry Lane)
Owings Mills, MD 21117 (see [map](#) or click [here](#))
Contact: snarayan@stevenson.edu 443-394-9894
Presentation: A message to Maryland section members from Spring ACS National Meeting at New Orleans, LA by councilors and student travel awardees.

Beatrice Salazar

Maryland Section Chair-2018

~**Stephen P. Askew and Roxanne T. Diedrich**~
Trilogy Essentials Ingredients, Inc.

"The Story of Cinnamon"

Sunday, April 8th 12-3:30 pm
Doyle Formal Room
Notre Dame University of Maryland
4701 N. Charles St.
Baltimore, MD 21210

Description: Cinnamon is more than just a spice! Learn its story from source to the spice rack and about related flavor products derived from the botanical. There will be samples of cinnamon essential oils and related flavor ingredients from several origins for smelling and tasting. Cinnamon is just one of a myriad of "raw materials" used in flavor formulation, is something with which most folks are familiar, but will likely provide surprises as to where it finds innumerable applications in food, fragrance, and pharmaceuticals. There will also be a brief discussion of how one becomes a flavor chemist.



Bio: Stephen earned a B.A. in Biochemistry & Molecular Biology from UMBC in 1990. He has been a member of ACS and the Institute of Food Technologists for over 25 years. He is also a member of the Society of Flavor Chemists and a member of the Harford Community College Food Science Advisory Board. Stephen has held positions at McCormick & Company, Inc. and Elite Spice, Inc. Currently he is a Senior Flavor Chemist at Citrus & Allied Essences, Ltd./Trilogy Essential Ingredients, Inc.



Bio: Roxanne earned a B.S. in Chemistry from Towson University in 2015. She has been a member of ACS since 2013. She began her career as an Intern at Trilogy Essential Ingredients, Inc. during summer, winter, and spring breaks in college. During this time she was also cross-trained as a lab technician and associate food technologist under several supervisors in two departments. She is currently a Flavor Chemist Trainee at Trilogy Essential Ingredients, Inc. and is an apprentice to Stephen P. Askew.

Price

12:00 pm
12:30-1:30 pm
1:30-2:00 pm
2:00-3:00 pm
RSVP*

Free to awardees; \$20 guests;
\$10 students. Payable at event.

Reception
Luncheon
Awards Ceremony
Speaker Presentation
gfarrant@yahoo.com
*Awardees please RSVP with # of
guests and any dietary restrictions

2018 MD ACS STUDENT AWARDEES
Congratulations from the MD ACS Local Section!



Olumide Fagboyegun
Anne Arundel Community College



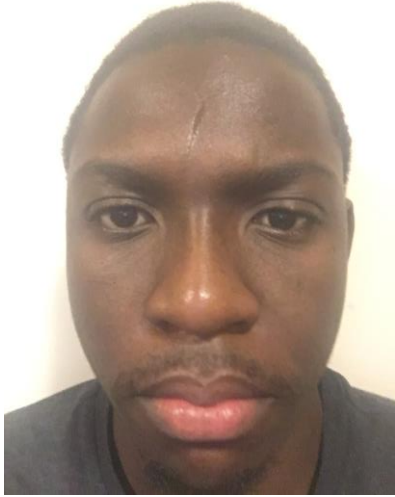
Rob Leikus
Community College of Baltimore County



Nathaniel McClean
Coppin State University



Dan Burgoon
Frederick Community College



Elton Kativhu
Goucher College



Sarah Wirick
Hood College



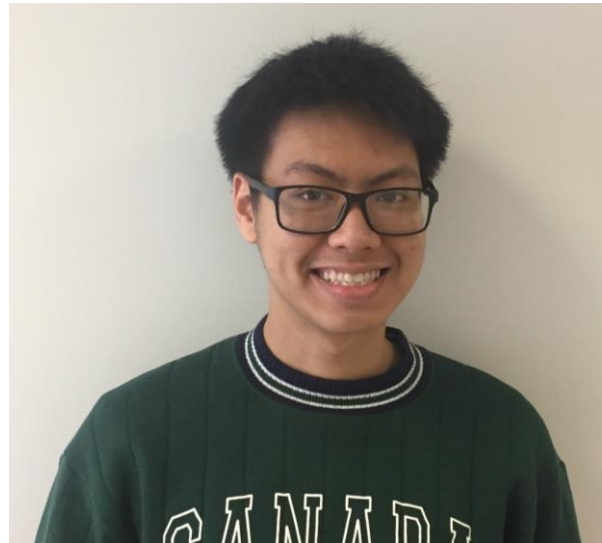
Faith Olulana
Howard Community College



Alexander E. Kossak
Johns Hopkins University



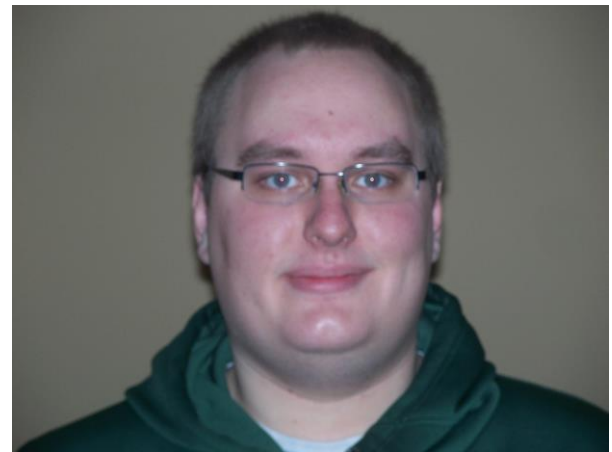
Jane Butler
Loyola of Maryland University



Phuc Truong
McDaniel College



Treshaun Sutton
Morgan State University



Kevin Jankowski
Mount Saint Mary's University



Jin Hee Yi
Notre Dame of Maryland University



Maxwell Madden
Saint Mary's College of Maryland



Krystine Hill
Stevenson University



Kayla Martin-Culet
Towson University



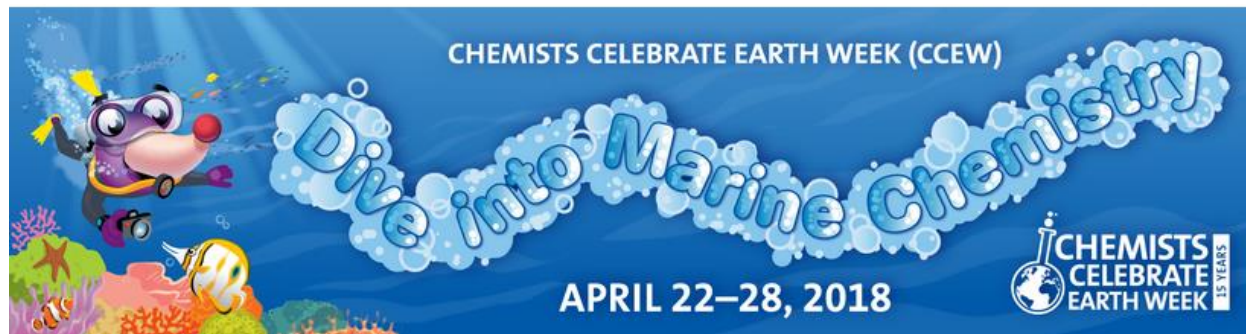
Mitchell Winkie
United States Naval Academy



Talon Bevan
University of Maryland Baltimore County



Simon Belcher
Washington College



Chemistry in the Library: Chemists Celebrate Earth Week Events

Programs are for children ages 7 & up; 7-8 year olds must be accompanied by an adult.

Miller Library program on 9 May at 7pm is open to all ages.

60 min. Registration required. Please register with the appropriate library system.

Howard County Library System
Glenwood Branch
Sat, April 7 @ 11 am
<https://hclibrary.org/>

Enoch Pratt Free Library
Govans Branch
Saturday, April 14 @ 2pm
www.prattlibrary.org/

Howard County Library System
East Columbia Branch
April 21 @ 2 pm
<https://hclibrary.org/>

Howard County Library System
Savage Branch
Sat, April 28 @ 2pm
<https://hclibrary.org/>

Howard County Library System
Elkridge Branch
Sat, May 5 @ 2 pm
<https://hclibrary.org/>

Howard County Library System
Miller Branch
May 12 @ 1 & 3 pm
Wednesday, May 9th @ 7pm (adult/family program)
<https://hclibrary.org/>

Howard County Library System
Central Branch
Sat, May 26 @ 2 pm
<https://hclibrary.org/>

Carroll County Library System
Eldersburg Branch
Sat 21 Jul @ 1pm
<https://library.carr.org/>



ACS Local Section
Maryland

is going on **another**
BREWERY TOUR!



Barley Hops
Integrity... yeast...
Enhancer...
Grains, Sugars, Spices...



BREWERY TOUR: **Peabody Heights Brewery**

<http://www.peabodyheightsbrewery.com/>

- Location** 401 E 30th St,
Baltimore, MD 21218
- Date/Time:** Saturday, May 12, 2018 at 2:00 P.M.
- Cost:** FREE admission! (just pay for your drinks)
- RSVP** to <https://doodle.com/poll/imebe95v74spbnbm>

Tour the Peabody Heights Brewery & learn how beer is made!

Tour includes lots of baseball history, since the brewery is on the site of an Old Orioles stadium!

You must be 21+ years of age to drink.

For safety reasons, no open toe shoes, flip flops, heels, etc.

Annual SFA STEM Club Earth Day/ Science Night

What: Annual SFA STEM Club Earth Day/Science Night

When: Thursday, April 26 - 5:30-7:15pm

Where: 3617 Harford Road, Baltimore, MD 21218

Who: Pre-K through 5th graders (and their parents!)

Why?: To celebrate Earth Day!

The SFA STEM Club will be hosting its annual Earth Day/Science Night for pre-K through 5th graders. Hands on experiments hosted by Maryland ACS members/student members, live animal exhibit from Scales and Tales, Blue Water Baltimore and the Maryland Master Gardeners will all be present to make for a GREAT educational and FUN evening for your student. (\$1 admission fee helps support the SFA STEM Club and includes admission and lite dinner.)

SUCCESS STORIES

Update on Project SEED Alumni

Corshai Williams, formerly a student at Western High School, was a Project SEED high school student at Morgan State University during the summer of 2013 (working with Dr. Yousef Hijji) and the summer of 2014 (Dr. Puntiwitt McCarthy). We have now received word that she has been accepted at MIT for a PhD in Chemistry with a full scholarship and teaching assistant position! Congratulations Corshai!

The ACS Project SEED summer research program allows economically disadvantaged high school students to intern in an academic, industrial, or government laboratory.

<https://www.acs.org/content/acs/en/education/students/highschool/seed.html>

Corshai's stipend was paid by the national ACS (50%) and by the Maryland Section.



Successful Activities

Maryland Section 2018

255th ACS National Meeting, NOLA

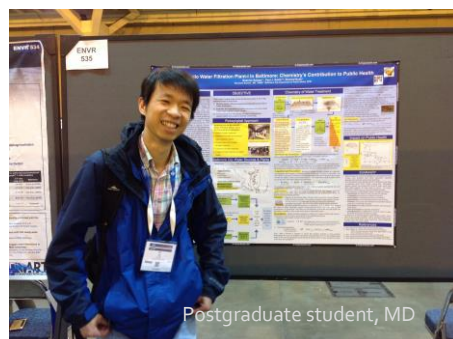
OUR STORY...

IN THIS ISSUE: *POSTER PRESENTATIONS*

MARCH 18-22 EVENT

On Sunday March 18th, ACS members from around the world arrived at New Orleans for the ACS National Meeting on Food, Energy & Water. I was one of 21 Maryland section members attending this meeting. We presented a poster on treatment and purification of water. The Poster was under the Technical Sessions of the Environmental Division *ENVR: Chemistry of Drinking Water Distribution systems & Infrastructure* (March 21st, Hall D at the Ernest N. Memorial Convention Center). The organizers of the session stated that understanding the chemistry of water infrastructure is imperative to the control of water quality and the delivery of reliable water supplies. To this extent the poster we presented included the infrastructure of a well-designed water treatment plant in Baltimore, Maryland. The Montebello Water Filtration Plant-I has been providing high quality, clean drinking water for more than one hundred years. Our poster reflects one of the most

successful outreach activities of the Maryland section. It is the result of several tours given to high school chemistry students and their teachers on treatment and purification of surface water at local water treatment plants. The title: *Montebello Water Filtration Plant-I in Baltimore: Chemistry's Contribution to Public Health*.



One of the Maryland section goals includes reaching out to the community especially high school students and their teachers to share chemistry knowledge and its applications. We want to make them aware of the processes of water treatment and the chemistry involved in the process; make students conscientious of the importance to maintain water resources clean in the area and their impact on public health, and finally we want their help in communicating the importance of clean drinking water to the community.

The Maryland local section began celebrating Earth-Day with a tour at the Montebello Water Filtration

Plant-I in Baltimore since 2015. The tour begins with the history of Baltimore in the 1800 a early1900's, the health issues at the time and how the water treatment plant was conceived, developed and finally built in 1915.

The chemistry involved in the process of water purification has applications to several STEM disciplines taught in high school. The tour has impacted students, teachers and administrators favorably. The community has embraced this tour, for the important information, the contribution to society and public health, *but most important, for the opportunity given to students to experience chemistry application in their own city*; an excellent opportunity to learn first-hand about water resources, the chemistry involved in water purification and how it impacts public health. Numerous comments from student state that they were unaware of this plant (although their school or their home is nearby) and what Baltimore city does to provide clean drinking water to its 1.800 million residents.

From these tours the idea of the poster was born and after discussing details of the research with scientists at the national conference we are studying the possibility of drawing high school chemistry lessons from it and expand on the chemistry involved in each step of the water treatment and purification processes.

... from these
tours the idea of
the poster was
born ...

Baltimore city was affected by deadly diseases in the 1800's and early 1900's. The research, done about the causes of cholera, dysentery, typhoid etc. that killed so many people at the time especially children under the age of five, encountered the solution in clean potable water. As we start explaining the process of disinfecting water from pathogens, microbes and viruses causing disease, it is like going through the first course of inorganic chemistry. The physical processes of separating matter from liquids, the forces that keep molecules together, the chemical elements that will be used to accomplish specific effect such disinfection with chlorine. The quantities required for each step of



the water treatment, etc. It is exciting! Each step of the treatment of water from the rivers until it reaches our homes contains generous doses of chemistry. These steps are:

- 1- **Disinfection** with chlorine (by adding sodium hypochlorite, NaClO)
- 2- **Coagulation** to remove pathogens and suspended matter
- 3- **Flocculation** (by adding, Aluminum Sulfate, $\text{Al}_2(\text{SO}_4)_3$)
- 4- **Sedimentation** (a physical method in large clarifier tanks)
- 5- **Filtration** (physical method using Rapid Sand Filtration, RSF)
- 6- **Fluoridation** (by adding H_2SiF_6 hydrofluorosilicic acid for caries prevention.
- 7- **Post chlorination** to continue disinfection in water as it travels through city metal-conduits,
- 8- **pH adjustment** (by adding lime, calcium oxide, CaO to prevent corrosion of pipes).

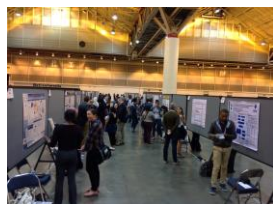
It looks simple at first but if we stop and think of the chemistry involved, the physical processes and what type of test water undergoes in each step of the treatment, we can discuss an entire chemistry course as is taught in high school 9-12 grades. It is fascinating! As we examine each step from the design of the tanks where the water will be treated, the regular test that have to be performed at each step of the process, the numerous changes that may occur and have to be solved before continuing the treatment, etc. all have application to technology, engineering and mathematics. In terms of public health, mortality due to waterborne pathogens, declined drastically since 1930 due to clean drinking water!

It was with so much pleasure that we brought this poster to scientists at the 255th ACS National Meeting. We wanted to make scientist aware of what we do in Maryland, to obtain advice from experts in the field, to get more ACS members involved in Maryland local section and in continuing our interest in developing chemistry lessons and laboratory experiments derived from treatment and purification of water for high school students.

POSTER IMPACT

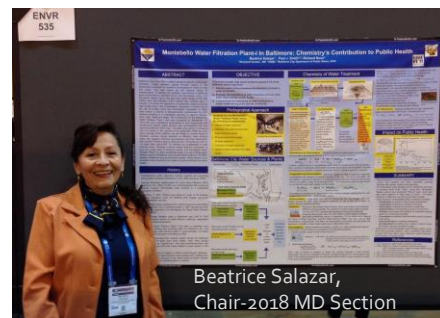
Approximately 21-25 visitors visited the poster. Some visitors were looking for the poster since they have already checked it out in the abstracts listed in the conference program.

- 5 connections with graduate students in chemistry related fields: chemical engineering
- 4 connections with graduate and undergraduate students who were presenting similar research
- 2 connections with chemist working in industry
- 1 future collaborator from UMBC!



The poster was visited by many young chemists, professors and professional people from chemical organizations.

This poster was possible thanks to the



collaboration of Dr. Paul J. Smith from UMBC & former Chair, Maryland Section and Richard Nuss, Laboratory Director & Tour Guide at Montebello Water Filtration Plant-I. DPW

Other interesting Events:

March 18th SE03- Woman Chemists of Color Networking event:

designed to empower women on being more assertive in negotiations and learning to say "no" at their work place. The discussion focused on salary information, changing jobs, getting internships and helping young chemist to realize they are at crucial times of their careers and to make sure their mentor was working in their interest. Other topics were: "I am a PhD, what do I do now?" and "how can we make sure our grant is successful?" The discussion involved opportunities for Project SEED grants, formalized mentor programs, peer/peer, and faculty and student relationships; as well as information on COACH workshops during the conference.

Future Events:

April 8th. In addition to the poster presentation at the NOLA meeting, we will have a second presentation during the Student Awards Ceremony on Sunday April 8th at Notre Dame of Maryland University. Several travel awardees will explain their research poster before lunch (11:30 A.M. – 12:15 P.M.) all are welcomed!

Contact:
Beatrice Salazar, Chair-2018
beatricesalazar1@gmail.com

Announcements

[ACS Call for papers Present Your Innovative Work at the 2018 Green Chemistry & Engineering](#)

[Conference](#). The call for abstracts is now open! Submit abstracts for presentation at the [22nd Annual Green Chemistry & Engineering Conference \(GC&E\)](#), to be held June 18-20, 2018, in Portland, OR. The theme for the 2018 GC&E is "Product Innovation Using Greener Chemistries."

Attention U.S. National Chemistry Olympiad (USNCO-2018) Participants

Due to the increased interest in the USNCO local participation we have decided to open the registration to this outstanding competition in advance:

- Registration for 2018 Local Exam is now open for all previous and new participants.
- Schools will receive a letter of invitation in January and February 2018
- The Local Exam will take place during the Month of March 2018
- The National exam will take place in April 14, 2018 (New location: Community College of Baltimore County, CCBC)

Please use the website <http://www.beatricesalazarusncocoordinator.webs.com> to find the registration form. The website will be updated soon to show the correct dates as soon as we receive confirmation from ACS headquarters.

Thank you for your continuous interest in USNCO local and National competition

REMINDER:

Receiving the Chesapeake Chemist

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

Changing your e-mail address? Moving out of the MD ACS area? E-mail changes can be updated either by:

- E-mailing us at acsmarylandsection10@gmail.com – give us your member #, full name, and e-mail changes and we can ensure that your records are updated with National ACS.
- **Contacting the National ACS membership division: 800-333-9511 (US only)** or service@acs.org

To ensure that you receive the Chesapeake Chemist, please add the MD ACS e-mail (acsmarylandsection10@gmail.com) to your accepted e-mail address list IF you have a spam filter.

If you are a member who currently doesn't receive the Maryland ACS Chesapeake Chemist but download it from our website, it is possible that National ACS does not have your e-mail address on file. If you want to receive the Chesapeake Chemist via e-mail, please e-mail us at acsmarylandsection10@gmail.com – give us

your member #, full name, and e-mail address and we can ensure that your records are updated with National ACS.

The current edition and previous editions of the Chesapeake Chemist can ALWAYS be obtained via our website: <http://maryland.sites.acs.org/>. Please see the Newsletter Archive link on the left-hand side of the website.



micron inc

ANALYTICAL SERVICES

MATERIALS CHARACTERIZATION
MORPHOLOGY CHEMISTRY STRUCTURE

OM / SEM / EDXA / TEM / SAED, EPA / WDXA
XRF / ESCA / AUGER / XRD
DSC / TGA / MFTIR

3815 LANCASTER PIKE, WILMINGTON, DE
19805

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

The Chesapeake Chemist is e-published monthly September through June by the Maryland Section of the American Chemical Society. Send submissions to the editor in electronic format. The Maryland Section is not responsible for opinions expressed herein. Editorials express the opinions only of the authors. The editor is not responsible for all unsigned material.