

# 2018 Remsen Award



## "Colloidal Crystal Engineering with DNA"

Dr. Chad Mirkin Northwestern University Thursday, November 15, 2018 6:00 P.M. Remsen Hall Johns Hopkins University, Homewood Campus 3400 N Charles St. Baltimore, MD 21218

RSVP Dana Ferraris,Vice-Chair 2018, Maryland Section E-mail: <u>dferraris@mcdaniel.edu</u>

October. 2018



#### 2018 Section Officers:

Chair 2018 Beatrice Salazar, <u>beatricesalazar1@gmail.com</u>
Vice Chair 2018Dana Ferraris, McDaniel College, <u>dferraris@mcdaniel.edu</u>
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 2018Angela Sherman, Notre Dame of Maryland University, <u>asherman@ndm.edu</u>
Past Chair (2017)Stephanie Watson, N.I.S.T., <u>stephanie.watson@nist.gov</u>

#### **2018 SECTION COMMITTEE ON NOMINATIONS**

Nominated by current Chair, Congratulations!

Chair of the Committee on Nominations James Saunders, jsaunders@towson.edu
Additional 4 members:
Dana Ferraris, Vice Chair-2018, dferraris@mcdaniel.edu
Sara Narayan, Stevenson University, <u>SNARAYAN@stevenson.edu</u>
Sandra Young, RDECOM, <u>sandra.k.young26.civ@mail.mil</u>

#### COUNCILORS/COMMITTEES

0					
1.	2018-2020 Dana Ferraris	Chair of the Section Program Committee (McDaniel College), <u>dferraris@mcdaniel.edu</u>			
2.	2018-2020 Jan Kolakowski	Member of ACS Committee on Economic and Professional Affairs, Chair of Section Finance/Investmer	t		
		Committee, jek6042@gmail.com			
3.	2017-2019 Merle Eiss	Member of ACS Meetings and Expositions Committee, meiss32@aol.com			
4.	2017-2019 Paul Smith	Member of ACS Local Section Activities (LSAC) Committee			
		Associate/Chair of Long-Range Planning Committee (MARM-2019) (UMBC), <a href="mailto:pjsmith@umbc.edu">pjsmith@umbc.edu</a>			
5.	2018-2020 Stephanie Watson	Member of the ACS Committee on Committees (ConC) Liaison on			
		Nomenclature, Terminology and Symbols (NIST), stephanie.watson@nist.gov			

#### ALTERNATE COUNCILORS/COMMITTEES

1.	2017-2019 Kelly Elkins	Member of the ACS Ethics Committee, <u>Kmelkins@towson.edu</u>
2.	2017-2019 Pumtiwitt McCarthy	Chair of Publicity Committee, <a href="mailto:pumtiwitt.mccarthy@morgan.edu">pumtiwitt.mccarthy@morgan.edu</a>
3.	2017-2019 Sandra Young	Chair of Community Outreach Activities Committee, sandra.k.young26.civ@mail.mil
4.	2018-2020 Michele Foss	Committee TBA, <u>foss.michele@gmail.com</u>
5.	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, <u>suzanne.a.procell.civ@mail.mil</u> Rose A. Pesce-Rodriguez, RDECOM, <u>rose.a.pesce-rodriguez.civ@mail.mil</u> Sara Narayan, Stevenson University, <u>SNARAYAN@stevenson.edu</u> James Saunders, <u>jsaunders@towson.edu</u> George Farrant, <u>gfarrant@yahoo.com</u> <u>Awards Committee Chairs & Local Section Committees Chairs</u>

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

Webmaster: Pumtiwitt McCarthy, <u>Pumtiwitt.McCarthy@morgan.edu</u>

Chesapeake Chemist Editor-in-Chief: Pumtiwitt McCarthy, Pumtiwitt.McCarthy@morgan.edu Contact us at: acsmarylandsection10@gmail.com

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#### Maryland Section

### CHAIR'S MESSAGE BEATRICE SALAZAR



Welcome to our October issue of the Chesapeake Chemist!

Two special events took place during the 3<sup>rd</sup> executive committee meeting on September 24th. The first was the nomination of Dr. C. Eric Cotton from CCBC to attend the 2019 Leadership Institute Meeting. He joins Dr. Pumtiwitt McCarthy, current Chair-Elect from Morgan State University who was nominated in January 2018 to attend the same meeting. Congratulations to both!

The second was the approval of a new policy for ACS members of

the local section. This policy requires a five-month advance request for funds to support any new activity and the completion of a mandatory form that will be available in our website. You will find more information in this issue. Feel free to express your opinion on this; you may direct your questions and comments to me at <u>beatricesalazar1@gmail.com</u> or to any member of the Executive Committee; see the second page of any Chesapeake Chemist newsletter to address the local section board and chairs of various committees.

The celebration of the Braude Award is on the 25<sup>th</sup> of October; please refer to our <u>previous issue</u> for details. Join us for dinner and lecture by Dr. Jocelyn McKeon Associate Professor, Chemistry Department, Notre Dame of Maryland University where she will present her research on the *Identification of extracted antioxidant compounds and quantification of their binding affinities with proteins*.

Also, save November 15<sup>th</sup> to attend the 73<sup>rd</sup> Ira Remsen Award. The recipient this year is Dr. Chad Mirkin from Northwestern University. The award will be presented at Johns Hopkins University in the Remsen Hall at Johns Hopkins University Campus. See details in our front cover page.

The results of the Maryland Local Section governance positions will be ready after October 30<sup>th</sup>. Please continue sending your votes and nominate those you want to see in the leadership of the Maryland Section of the American Chemical Society.

Beatrice Galazar

ACS - Maryland Section Chair-2018 Information is key continues keeping you informed in detail about activities at the Maryland local section.

## Information is Key

The following includes a background on ACS and the Maryland Local Section, information on our website, and executive committee meetings and more section's programs for 2018. Please check the *2018 Year Events* to see in detail each month of activities. For information on previous month's events or other past activities please refer to Chesapeake Chemist publications: January, February, March, April, May, June, July and September.

### III. Executive Committee Meetings

Plans for this year include four regular executive committee meetings:

- First executive committee meeting: Monday Feb. 12, 2018 at Notre Dame of Maryland University
- Second executive committee meeting: Tuesday, April 24, 2018 at Stevenson University
- **Third** executive committee meeting in **Monday**, **September 24**, **2018**, UMBC Chemistry Department Fourth executive committee meeting in December 2018, exact date TBA

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. For minutes of previous meetings please check the website.

If you have any event to be considered please contact us before each month's meeting or send us the new event fund request form (see website) to any member of the executive committee.

### The Maryland Section Program for 2018 continues...

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.

### **OCTOBER**

In the following pages you will find more news on: <u>Mole Day celebration!</u> We wish you on October 23<sup>rd</sup> 6.02X10<sup>23</sup> moments of happiness!

The Braude Award: October 25, 2018.

#### NOVEMBER

### The Remsen Award Event don't miss it!



The Ira Remsen Award was inaugurated in 1946 in honor of Ira Remsen, second President of Johns Hopkins University . The **73<sup>rd</sup> Ira Remsen Award** (**2018**) will go to Professor Chad Mirkin of Northwestern University.

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### "Colloidal Crystal Engineering with DNA" Dr. Chad Mirkin Northwestern University Thursday, November 15, 2018 6:00 P.M. Remsen Hall Johns Hopkins University, Homewood Campus



**Brief Bio**: Dr. Chad A. Mirkin is the Director of the International Institute for Nanotechnology and the George B. Rathmann Prof. of Chemistry, Prof. of Chemical and Biological Engineering, Prof. of Biomedical Engineering, Prof. of Materials Science & Engineering, and Prof. of Medicine at Northwestern University. He is the recipient of over 130 national and international awards. A world-renowned chemist and nanoscience expert, Dr. Mirkin is known for his discovery and development of spherical nucleic acids (SNAs) and SNA-based biodetection and therapeutic schemes, the invention of Dip-Pen Nanolithography (DPN) and related cantilever-free nanopatterning methodologies, On-Wire Lithography (OWL), Co-Axial Lithography

(COAL), and contributions to supramolecular chemistry and nanoparticle synthesis. He is the author of over 720 manuscripts and over 1,100 patent applications worldwide (over 310 issued), and the founder of multiple companies, including AuraSense, Exicure, TERA-print, and CDJ Technologies. Dr. Mirkin holds a B.S. degree from Dickinson College (1986, elected into Phi Beta Kappa) and a Ph.D. degree in Chemistry from the Penn. State Univ. (1989). He was an NSF Postdoctoral Fellow at the MIT prior to becoming a professor at Northwestern Univ. in 1991. More information on his distinguished career can be found on his research group's website: <u>https://mirkin-group.northwestern.edu/people/chad-mirkin/</u>.

**Abstract**: The materials-by-design approach to the development of functional materials requires new synthetic strategies that allow for material composition and structure to be independently controlled and tuned on demand. Although it is exceedingly difficult to control the complex interactions between atomic and molecular species in such a manner, interactions between nanoscale components can be encoded, independent of the nanoparticle structure and composition, through the ligands attached to their surface. DNA represents a powerful, programmable tool for bottom-up material design. We have shown that DNA and other nucleic acids can be used as highly programmable surface ligands ("bonds") to control the spacing and symmetry of nanoparticle building blocks ("atoms") in structurally sophisticated materials, analogous to a nanoscale genetic code for material assembly. The sequence and length tunability of nucleic acid bonds has allowed us to define a powerful set of design rules for the construction of nanoparticle superlattices with more than 30 unique lattice symmetries, spanning over one order of magnitude of interparticle distances, with several well-defined crystal habits. Further, this control has enabled exploration of sophisticated symmetry breaking processes, including the bodycentered tetragonal lattice as well as the clathrate lattice, the most structurally complex nanoparticlebased material to date (>20 particles per unit cell). The nucleic acid bond can also be programmed to respond to external biomolecular and chemical stimuli, allowing structure and properties to be dynamically tailored. Notably, this unique genetic approach to materials design affords functional nanoparticle architectures that can be used to catalyze chemical reactions, manipulate light-matter interactions, and improve our fundamental understanding of crystallization processes.

# THE BRAUDE AWARD CEREMONY



**October 25, 2018.** The Braude Award Dr. Jocelyn McKeon Notre Dame of Maryland University Thursday, October 25, 2018 6:00 P.M. Doyle Formal Room Notre Dame of Maryland University 4701 N Charles St. Baltimore, MD 21210.

> Dr. Jocelyn McKeon 2018 Braude Award recipient

### "Identification of extracted antioxidant compounds and quantification of their binding affinities with proteins"

**Speaker Bio**: Dr. Jocelyn McKeon is an Associate Professor in the Chemistry Department at Notre Dame of Maryland University. She received her Ph.D. in analytical chemistry from North Carolina State University. After spending a year working in the pharmaceutical industry she completed a postdoctoral research appointment at West Virginia University. Her area of expertise is in the area of bioanalytical separations chemistry. Since joining the faculty at Notre Dame of Maryland University she has supervised undergraduate research projects involving the following analytical separation techniques: capillary electrophoresis, high-performance liquid chromatography and ion-exchange chromatography. These research projects have produced several poster presentations, grant submissions, and a forthcoming article submission on the use of capillary electrophoresis for the determination of binding constants between proteins and antioxidant flavonoid compounds.

Abstract: Within the context of this program undergraduate students engaged in research projects involving a variety of separation techniques. In particular gas chromatography-mass spectrometry (GC-MS) and affinity capillary electrophoresis (ACE) methodologies were developed for the identification of extracted antioxidant compounds and the determination of their binding strength with proteins. More specifically dlimonene- a cyclic monoterpene found in citrus fruit rinds, kavain - a lactone found in the roots of kava plant, and a set of flavonoids - polyphenolic plant compounds found in a variety of fruits, vegetables, grains, seeds, nuts, wine, beer, and tea - were investigated since these compounds have been shown to exhibit antioxidant properties when ingested. Moreover, in many studies it has been shown that the interaction between antioxidant compounds and proteins, in particular bovine serum albumin, affects antioxidant capacity and efficacy. Antioxidant compounds extracts were characterized using GC-MS. Additionally ACE methodologies were developed and applied for the determination of binding constants between three flavonoid compounds (quercetin, baicalein, and kaempferol) and bovine serum albumin. Data was collected from monitoring the shift in migration time of the flavonoids with increasing concentration of BSA added to the electrophoresis buffer solution. This migration time shift data was then analyzed using a linear regression Scatchard plot as a means of quantifying the binding constants between the flavonoid compounds and the protein.

## **REMINDER CAST YOUR VOTE:** <u>MD ACS OFFICER POSITIONS</u>

A reminder to all members that you should have received your voting materials for leadership in the Maryland Section of ACS and the voting period is open until Oct. 30, 2018. We encourage all members to participate in the leadership voting process. Open positions this year include Chair-Elect, Secretary, Treasurer, and 5 Members at Large. This is an opportunity for you to help guide the leadership of your society. Please remember to vote!

# New Policy for Requesting Funds for New Activities, Events or Presentations

All members of the Maryland Section who want to submit a request for funds from the Local Section for a new activity, event, science café, poster presentation etc. must comply with the following policy (approved September 2018). In addition, a form stating the purpose of the event and budget will have to be completed and submitted to vote by members of the local section board. The form will be posted in our website <u>www.maryland.sites.acs,org</u>.

### **Maryland Section Policy: Re: Funding Requests**

All requests for funding from the Maryland Section for any new activity or new event shall be presented to the Section's Executive Committee no fewer than five months prior to the proposed start date of the activity or event. Exceptions to the five-month requirement can be approved by unanimous (or two-thirds) vote of the Executive Committee. The members of the Executive Committee shall have no more than three months of the date of submission to consider the request and either approve or reject it. A vote on the matter shall be taken by the Executive Committee no later than the conclusion of the three-month period for consideration.

This provision applies solely to the funding of new activities or events and does not apply to any recurring activities or events. ACS and Maryland Section policies preclude the granting of funds for an individual's sole use apart from the Section's business.

Feel free to express any questions and/or concerns to any member of the Executive Committee. The list of Executive Committee Members are found on page 2 of any Chesapeake Chemist newsletter.



OCTOBER 21-27, 2018 www.acs.org/ncw

# CHEMISTRY IN THE LIBRARY

Ages 7 & up (7-8 year olds must be accompanied by an adult); 60 min. Registration required.

Celebrate National Chemistry Week with a chemist from the Army Research Laboratory and the American Chemical Society. Participate in hands-on experiments exploring the chemistry of and in outer space.

Glenwood Branch Howard County Public Library Sat, 15 Sep.@ 11 am.

ACS

Chemistry for Life®

East Columbia Branch • Howard County Public Library Sat, 22 Sep @ 2 pm

Central Branch Howard County Public Library Sat, 29 Sep @ 2 pm

Eldersburg Branch Carroll County Public Library Sat, 6 Oct @ 1pm Savage Branch Howard County Public Library 'Sat, 13 Oct @ 2 pm

Govans Branch Enoch Pratt Free Library Sat, 20 Oct @ 2pm

Miller Branch Howard County Public Library Tue, 23 Oct @ 7pm "No kids required" - for adults & families Miller Branch Howard County Public Library Sat, Oct 27 @ 1 pm & 3 pm

**Roland Park** Enoch Pratt Free Library Sat, Nov 3 @ 2pm

Elkridge Branch Howard County Public Library Sat, Nov 10 @2 pm

To contact the NCW Coordinator for the Maryland Local Section, visit www.ncwlookup.acs.org and search with your ZIP code. For general information about National Chemistry Week, visit www.acs.org/ncw.

STRY

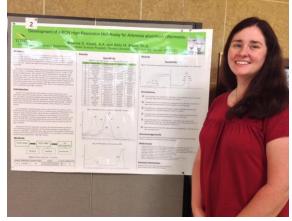
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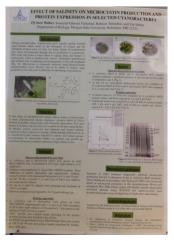
# **SUCCESS STORIES-2018**

**The 35th Mid Atlantic Plant Molecular Biology Society Annual Conference (AMAPMBS)** was held on August 14th and 15th, 2018 at the Patuxent Research Refuge 10901 Scarlet Tanager Loop in Laurel, MD 20708. One hundred and four registered participants attended the event with details of the meeting published on the MAPMBS website at <a href="http://wp.towson.edu/mapmbs">http://wp.towson.edu/mapmbs</a>. The society encourages presentations of research in the form of poster presentations as well as short oral talks from all participants in addition to a slate of 10 invited speakers on topics related to plant or plant viral Molecular Biology, Biochemistry, or Bioinformatics. In addition, we feature a special poster competition for the best poster for early career scientists at the levels of undergrad and grad students, technicians, and postdoc researchers which compete for cash awards and certificates. The goals of the meeting are to facilitate networking and the exchange information between plant researchers in the Mid-Atlantic region.



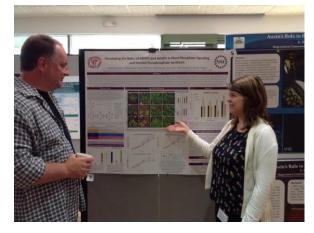
Photos courtesy of Beatrice Salazar





Some participants and members of the Maryland Section of the American Chemical Society:

- Morgan State University
- Stevenson University
- Towson
- University
  UMBC
- UMBC



This year, thanks to the collaboration of Dr. James Saunders, treasurer, organizer and editor of the AMAPMBS we are participating in their events. The Biology Society members are also invited to ACS Maryland Section events. We expect this partnership to improve and increase in membership on both societies.

Contact: Dr. James A. Saunders, Chair Nominations & Elections Committee, Maryland Section of the American Chemical Society and Treasurer, Mid Atlantic Plant Molecular Biology Society 14590 Triadelphia Mill Road, Dayton, MD 21036 jsaunders@towson.edu 443-386-4695

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### SUCCESS STORIES: <u>2018 U.S. National Chemistry</u> Olympiad Participant Made Honors

High School student Kevin Wang received honors in his U.S. National Chemistry Olympiad. Kevin participated in the Maryland section with other 13 nominated students. He was one of 1300 students who competed nationwide.

USA Team wins 4 gold medals at the 50th International Chemistry Olympiad. 296 students from 76 countries!



U.S. National Chemistry Olympiad program proudly announces the extraordinary performance of the Alpha Lambda Team at the 50th International Chemistry Olympiad competition, which concluded July 29, 2018, in Prague, Czech Republic. Jeffrey Shi of Marcellus High School, NY won the fourth highest-ranking gold medal; place 4<sup>th</sup> Michelle Lu of Pomperaug High School, CT, place 10th Andrew Wu from Park Tudor School, IN, place 12th Yutong Dai of Princeton International School, NY, place 13<sup>th</sup>

# **SUCCESS STORIES** <u>Update on Student Travel Awards and its impact to Chemistry</u> <u>Safety</u>

Sarah Ashleigh Wirick and her professor Christopher Stromberg research were featured in C&EN, March 26 edition. Congratulations!

**Some safety eyewear fails to protect against ultrafast lasers** Users should test eyewear under their own working conditions, researchers suggest by Jyllian Kemsley March 26, 2018 | Vol 96, issue 13 C&EN website <u>https://cen.acs.org/safety/lab-safety/safety-eyewear-fails-protect-against/96/i13</u>

To Maryland Section Executive Board: "Thank you. That feature was a direct result of us being able to attend the meeting, which we couldn't do it without the Maryland Section's support! Thanks, Chris" Christopher Stromberg.

Abstract ID: 2860140

**Femtosecond laser eyewear protection: Measurements and precautions** Maximilian Riedel-Topper <sup>1</sup>, <u>Sarah Wirick<sup>1</sup></u>, Joshua A. Hadler<sup>2</sup>, Brian G. Alberding<sup>3</sup> Edwin J. Heilweil<sup>3</sup>, <u>Christopher</u> <u>J. Stromberg<sup>1</sup></u>

<sup>1</sup>Department of Chemistry and Physics, Hood College, 401 Rosemont Ave, Frederick, MD 21710 <sup>2</sup>Applied Physics Division, Physical Measurement Laboratory, NIST Boulder, CO 80305 <sup>3</sup>Radiation Physics Division, Physical Measurement Laboratory, NIST Gaithersburg, MD 20899

Unlike continuous-wave lasers, femtosecond pulsed lasers have wide spectral bandwidths and extremely high peak power. Lasers such as Ti:Sapphire oscillators also have an adjustable center wavelength. These factors become an issue when selecting eyewear protection, as the eyewear may not protect the user from the entire laser spectrum, and the integrity of the eyewear material may be compromised by the high peak powers. This study was a continuation of a previous study

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that measured the effective optical densities of commercially donated filter samples. In this study, the same samples were tested to characterize their potential modes of failure using a 1 kHz Ti: Sapphire regenerative amplifier which generated ca. 80 fs pulses with various wavelengths, powers, repetition rates, and beam spot sizes. For some filters, the wide bandwidth and variable center frequency of the laser caused the observed optical densities to be significantly lower than the supplier's rating at the center frequency. The observed modes of failure included melting, burning, bleaching, and saturable absorption behavior. Several filters transmitted several orders of magnitude more light than the supplier's suggested optical density ratings without any physical signs of damage. In general, plastic lenses were considerably more likely to fail, while all glass samples tested maintained their integrity under the conditions tested. The results of these experiments indicate that eyewear protection should be tested under the given experimental conditions to determine their efficacy before use.

### SUCCESS STORIES: 2018 Project SEED Program

Morgan State University hosted an intern from Baltimore Polytechnic High School this summer, Rudy Diaz, through Project SEED. Rudy worked in Dr. Fasil Abebe's lab on rhodamine-based fluorescent and colorimetric chemosensors. Rudy (center) was partnered in the lab with Morgan Chemistry major, Khalil Makins-Dennis (right).



### <u>Update on</u> <u>Project SEED Alumni</u> & <u>50<sup>th</sup> Anniversary Celebration!</u>

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. Pumtiwitt 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.

<u>https://www.acs.org/content/acs/en/education/students/highschool/seed.html</u> Corshai's stipend was paid by the national ACS (50%) and by the Maryland Section (50%).

**This year we celebrate the success and 50<sup>th</sup> Anniversary of Project SEED!** Participating members of the Maryland section:

Pumtiwitt McCarthy, PhD, Chair Elect-2018, MD Section – Morgan State University Louise Hellwig, PhD, Secretary-2018, MD Section – Morgan State University Takashi Tsukamoto, PhD, Past Chair-2011, MD Section - Johns Hopkins University Beatrice Salazar, MS, Chair-2018, Maryland Section of the American Chemical Society

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### SUCCESS STORIES: 2018 Outreach Volunteer of the Year Award



Dr. Angela Sherman (Chemistry Department Chair at Notre Dame of Maryland University and Maryland Section Treasurer) has received the 2018 Outreach Volunteer of the Year Award for her commitment to the local section and the outreach programs. An announcement of the award and her picture came out in <u>February 8<sup>th</sup></u> on the ACS website.

# NEW PROGRAMS



## New Program for Senior Chemists

ACS Senior Chemists: Message from the ACS Senior

**Committee Chair** 

https://www.acs.org/content/acs/en/membership-and-networks/seniorchemists.html

Information on how to Start a <u>New Senior Committee</u> at your Local Section:

https://www.acs.org/content/dam/acsorg/membership/senior-chemists/seniorchemists-starter-kit.pdf

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## Announcements

### 2019 CHEMAGINATION COMPETITION

We are pleased to announce that the Maryland Section of the American Chemical Society will be sponsoring a 2019 Chemagination Competition. For this event, high school students are asked to imagine that they are living 25 years in the future and have been invited to write an article for ChemMatters, a magazine for high school students that focuses on the role of chemistry in everyday life. The subject of the article is: "Describe a recent breakthrough or innovation in chemistry and/or its applications that has improved the quality of people's lives today." The article is written to fit in one of four categories: Alternative Energy Sources, Environment, Medicine/Health, or New Materials. In addition to the article, students are asked to design a cover for the magazine.

It is a great learning experience for students. In addition to using and adding to their knowledge of science and chemistry, they can improve their "soft" skills of creativity, teamwork and public speaking, skills that will serve them well in their future careers.

There will not be an onsite competition. Rather student teams will be asked to submit an article and video presentation of their "research. First Place winners in each category will go on to compete in the 2019 Mid Atlantic Regional Competition will be held on Saturday, June 1 from 12:00 pm to 5:00 pm at the University of Maryland, Baltimore County (UMBC) in conjunction with MARM 2019 sponsored by the Maryland ACS Section.

Please contact George Farrant (gfarrant@yahoo.com) for more information about this contest and the rules of the competition. Any and/all high Schools in our area are encouraged to compete.

## **Undergraduate and Graduate Student Travel Grants**

Undergraduate and Graduate students may apply to the ACS Maryland Section to receive up to \$500 for travel and expenses to attend the Spring ACS National Meeting in Orlando Florida in 2019. This is open to ACS members who are enrolled full time in a college or university in the Maryland Section. The application should include:

- The meeting you plan to attend along with location and dates
- Your ACS membership number
- An estimated budget (cost for travel, registration, lodging, and meals)
- A 250 word essay describing your motivation for attending the meeting
- A copy of your abstract and the abstract number ACS gave it when your abstract was accepted
- A letter of support from your faculty advisor.

• Please state what would be the most convenient way for the check to be made out, in the event you are awarded a travel grant.

Applications for the spring 2019 national ACS meeting in Orlando FL will be accepted starting December 1, 2018. Decisions will be announced January 20, 2019. To a certain extent the decisions will be made on a first come, first served basis; however the goal is to allow students from as many schools as possible to attend, so special consideration will be given to the first student who applies from each college/university. We especially encourage schools which have never had a student apply for a travel grant, to consider applying for a travel grant this year. Submit your application to Louise Hellwig by e-mail:

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Louise.Hellwig@morgan.edu. If you are awarded a travel grant, the following items need to be submitted after the meeting:

• Photocopies of receipts totaling the amount of the award.

• Trip report summarizing your experience at the meeting and photos of yourself at your poster at the meeting so we can proudly post them on the section website.

### **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 <u>acsmarylandsection10@gmail.com</u> 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 <u>acsmarylandsection10@gmail.com</u>.

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 <u>acsmarylandsection10@gmail.com</u> – 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: <u>http://www.maryland.sites.acs.org</u> – please see the Newsletter Archive link on the left-hand side of the website.



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