



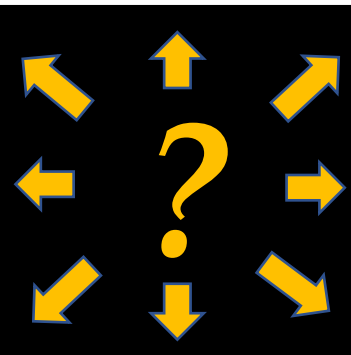
2021 The Year of Hope

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2021 Award Events

Maryland Local Section Newsletter

Editor in chief: [Beatrice Salazar](#)

Policy

Pumtiwitt McCarthy, Chair-2020

Sarah Zimmerman, Web Master

[Jennifer Schmitt](#), Social Media Liaison

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Editorial

2021 THE YEAR OF HOPE



2021 is a year of hope but it is also a challenging year. We start the year hoping everything will get back to normal soon. However, experts tell us it will be months. How many months? they are not sure. There are many things to consider: not least, the race

between the effort to vaccinate people to help reach herd immunity vs. the spread of the mutant viruses. See our NEWS page (p 8).

Would a successful vaccination campaign restore a belief in science? Closed schools, loss of jobs, the list goes on. What could the ACS Maryland Local Section, do? Feel free to express your thoughts and we will do our best to help in the implementation of efforts to do something good for the community.

In this issue we cover concerns about the education of our children (p 13). We report changes in the venues for regular programs (p 4,6). We share the dreams of the poet Amanda Gorman (p 9). We celebrate love once again by adding some real chemistry to Valentine's day (p 14). We announce the Women Chemists Committee lecture by Dr. Birthe V. Kjellerup Associate Professor, The Pedro E. Wasmer Professor in Engineering University of Maryland, her lecture "Wastewater testing tracing of COVID -19" will be of interest to all chemists, please join us (p 15). We remember Professor David R. Yarkony last December's Award Lecture (p 16) and finally, we report changes in our administration (p 17).

We have several sections where you could readily participate (p 11). The BOOKS section presents a brief description of five books that inspired and made a difference in your life as chemist. The Literature Spotlight is a comment on a recent article of interest to chemists. There is also a section for your own article on your research, ideas, critiques, or comments. The sky is the limit.

Thank you for your contributions and cooperation.



Beatrice Salazar

Editor-in-Chief, ACS Maryland Section

January 20, 2021

CHAIR'S MESSAGE



Dr. C. Eric Cotton
Associate Professor

Chair, ACS Maryland Section
acsmaryland.org

C. Eric Cotton, Ph.D.

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Greetings fellow members of the Maryland Section of the ACS. I am proud to serve as the chair of the Maryland Section for the 2021 calendar year, and I hope to do some good work in that regard. The start of 2021 finds us still in the midst of a global pandemic. It finds many of us working at home, some reporting to work (albeit with additional PPE), and it even finds some of us underemployed or unemployed. Whatever your situation, I feel like the pandemic has deeply affected all of us, and I wanted to take this moment to acknowledge our members during this crisis. As with most organizations, we have had to cancel all face-to-face events. This includes the annual luncheon honoring our members that have been with us 50 or more years. This also includes student award banquets, the Maryland Chemist of the Year award banquet, Braude Award meeting, local membership meetings, section officer meetings, and not to mention the semiannual ACS National Meetings. In short, I know we are all ready to ditch Zoom for a while, and maybe even spend some time in rush hour traffic. I know that I will be excited (however briefly) to get back to driving to Baltimore every day.

Despite these challenges, it is my goal to continue to support the section and bringing you excellent content (virtual for the time being) and other programming. Specifically, I have three major goals for this year. First, I hope to continue to support women chemists by improving outreach and programming activities that arise from and are related to the work of the Maryland Section's Women Chemist Committee. Next, I would also like to expand our network of young career chemists, newly graduated chemists, or soon to be graduates in chemistry. Lastly, I hope that we can all return to meeting face-to-face by holding in person events with an eye towards late summer or early fall. This, of course, will depend on safety and the status of the pandemic. If you have ideas or would like to volunteer to help support some of these initiatives or to get more involved with the section in any way, do not hesitate to contact me. Further, if you have notices of job openings, interesting stories, or information that would serve the Maryland chemistry community, I invite you to submit them for publication here in the Chesapeake Chemist.

I hope this brief note finds you well, and I wish you a happy new year.

Respectfully,


Dr. C. Eric Cotton
ccotton2@ccbcmd.edu

Student Awards

is scheduled for Sunday, April 11, 2021 at 2:00 P.M.

Speaker

DR. LEE BLANEY, Ph.D.

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

He is the recipient of the 2020
BRAUDE AWARD



Professor Blaney's will present a virtual lecture and address students during the Student Awards Ceremony. More details will be announced in the Chesapeake Chemist Vol. 78 No. 1 March Issue No. 3, 2021. Any announcement or congratulatory remarks could be sent to [Beatrice Salazar](#), Chesapeake Chemist Editor, before March 25, 2021 or to [George Farrant](#), Student Awards Program Coordinator.

Read an interesting article written by Professor Blaney for the Chesapeake Chemist on [June/July issue, 2020](#), p 4-7 "*Occurrence of contaminants of emerging concern in the Environment*" and the award presentation in his honor on the [October issue](#).



Request to all professors and student Awardees

Please send the complete information of your ACS student awardee or if you are a nominee to this award send all required information. We need your complete name, email address and mail address, a head shot photo taken against a neutral background of 500kb or greater. A smart-phone photo will work as long it is 500kb or larger. In addition, we need the name of your school, the name of your nominator, the degree you are seeking and if it is possible, a short description of your nomination.

Let us know about you, it is an honor to receive this award; you will be and inspiration to others. All this information should be directed to [George Farrant](#) at garrant@yahoo.com no later than Friday, Feb. 19, 2021 so that materials can be sent out to awardees and the April Chesapeake Chemist newsletter by mid-March. We appreciate your collaboration and prompt response.

US National Chemistry Olympiad

Beatrice Salazar, USNCO Coordinator, Maryland, ACS

[HOME](#)
[ABOUT](#)
[PHOTO GALLERY](#)
[BLOG](#)
[CONTACT](#)

[WEBSITE](#)



Photo taken at Notre Dame of Maryland University

Welcome to U.S. National Chemistry Olympiad 2021

**VIRTUAL USNCO
VIRTUAL LOCAL EXAM**

The U.S. National Chemistry Olympiad, USNCO
Local and National Exams will be offered virtually
this new year 2021.

We had an excellent experience the first time we
used ZOOM and will continue this year to provide a
safe opportunity to all our young participants.

Zoom.us will be used for the virtual exams
Details will be sent to all students and teachers
that registered for the competition

USNCO Digital National Exam, Part I, Part II
 April 17, 2021 3:00 - 4:30 P.M. ET
 April 24, 2021 3:00 - 4:45 P.M. ET

Welcome High School Teachers and Students

Apply as early as possible.

1. **Complete the 2021 registration form**, January 1st. - March 26th, 2021
2. **A letter of recommendation only for students that qualified for the National Exam**
3. **Take the Maryland Local Section Exam between March 1- 27, 2021.**
 This year the Local Exam is virtual. **Exam date: March 27, 2021 Digital Local Section Exam administered by ACS, proctoring by Local Sections Coordinators.**



Questions	Exam Topic
1 – 6	Stoichiometry/Solutions
7 – 12	Descriptive/Laboratory
13 – 18	States of Matter
19 – 24	Thermodynamics
25 – 30	Kinetics
31 – 36	Equilibrium
37 – 42	Oxidation - Reduction
43 – 48	Atomic Structure/Periodicity
49 – 54	Bonding/Molecular Structure
55 – 60	Organic/Biochemistry

[Learn more about USNCO](http://www.acs.org/olympiad) www.acs.org/olympiad

[Attend a Webinar](#)

CONTACT:
 Beatrice Salazar, U.S. National Chemistry Olympiad Coordinator
beatricesalazar1@gmail.com

Virtual ACS AWARDS and PROGRAMS



Student Awards began in March 1978. All Universities and colleges in Maryland select students to receive this award. ACS member students are nominated on the basis of Merit; each professor creates his/ her own nomination criteria.

Photo: Coordinator of the award ceremony Dr. George Farrant.

Apply before February 19th of each year.



Senior Award Since 1964. All 50 years ACS Members are eligible for this award.

They are automatically nominated from ACS. Senior chemists are in a unique position to share a lifetime of experiences with students at all levels, young chemists and the public.

Dr. Merle Eiss and Linda Gonzalez (photo) coordinate the seniors' lunch and event.



Student Travel Award All ACS members students of Chemistry and related areas

apply twice every year to travel to National Scientific meetings.

Photo: coordinator of the award Dr. Louise Hellwig.

Apply by January 20th and by April 2nd of each year.

The Braude Award established in 2003 in memory of Dr. George L. Braude

Nominations start in November of each year.



Ira Remsen Award Since 1946. The Maryland Section of ACS presents each

year the distinguished Ira Remsen Award to a deserving Chemist with an extraordinary contribution to the Chemistry Field.

Coordinators of the award Dr. Dana Ferraris and

Professor Dr. David Yarkony from JHU

Nominations start in November of each year.



Maryland Chemist of the Year Award Since 1975 The Maryland

local section of the ACS has honored chemists with this distinguished award.

Photo: Coordinator of the Award Dr. Angela Sherman,

Nominations start on December of each year.



USNCO, The National
Chemistry Olympiad

Chemists Celebrate

Earth Day

Beatrice Salazar Coordinator



National
Chemistry Week and
Earth-day Week

Rose Pesce-Rodriguez

Coordinator



Beer and
wine tours

Michele Foss &

Louise Hellwig

Coordinators

To contact coordinators on each program, see emails on page 18

ACS MARYLAND Local Section Councilor's Corner...



Beatrice Salazar, Councilor

PLANS: To bring the best communication between ACS and Maryland members in order to improve their professional career.



Jan Kolakowski, Councilor

PLANS: To continue to support the development and employment of chemical professionals as I represent our Section at ACS meetings.



Stephanie Watson - Councilor

PLANS: to maintain contact with ACS National and represent our Section's concerns and needs to ACS National staff and committees.



Kelly Elkins, Councilor

PLANS: To continue to support the Maryland Section at ACS meetings



What does a councilor do for ACS Maryland Local Section?

Dr. Martin D. Rudd – Vice Chair, ACS Council Policy Committee address the new Councilors for 2021. An excerpt of his letter follows:

"Dear ACS Leaders,

Congratulations on your election as Councilor of the American Chemical Society (ACS)! Election to Council represents an opportunity to participate as an ACS volunteer leader at the national level. On behalf of the Council Policy Committee (CPC), I invite you to attend the **2021 New Councilor Orientation Virtual Program for all newly elected Councilors and Alternate Councilors on Friday, March 12 from 4:00-5:00 p.m., ET** with a special virtual networking session with Committee Chairs and Mentors to follow from 5:00-6:00 p.m."

- This orientation has the objective to become familiar with the responsibilities as a Councilor.
- if you will be attending the orientation and networking session send an email to Semora Smith (s_smith@acs.org) no later than Monday, March 1
- The Pre-National Meeting Webinar for New Councilors on Tuesday, February 9 from 3:00- 4:00 p.m.ET
- The program will introduce Mentorship Program for new Councilors.
- A valuable resource to help you navigate your role as a Councilor is the recently revised **ACS Handbook for Councilors**. It can be found on the [ACS Council webpage](#). (By Beatrice Salazar, Councilor 2021)

"We need to reestablish the trust of the American people in science." F. Arnold

News...



The 22-year-old Amanda [Gorman read her poem "The Hill We Climb"](#) she acted in such an ingratiating manner to all of listeners and viewers that captivated audiences and I was very much interested as well.

Dwight Gardner said in the New York Times Jan. 21, 2021: "Her poem blended the political and the personal. She imagined, she wrote, a country and a time, ...*Where a skinny Black girl descended from slaves and raised by a single mother can dream of becoming president only to find herself reciting for one.*"



Dwight Garner is a book critic for The New York Times. editor for the Book Review. His essays and criticism have also appeared in The New Republic, Harper's, Slate.



Dr. Anthony Fauci answers questions on COVID-19 Vaccine. [See Video:](#) <https://vimeo.com/507565387>



President-elect Joe Biden has chosen **Eric Lander**, Broad Institute mathematician and geneticist, to serve as the presidential science adviser and to head the White House Office of Science and Technology Policy. For the first time in history, the science adviser will be a cabinet-level position.

Frances Arnold, chemistry Nobel Laureate has been selected cochair of the President's Council of Advisors on Science and Technology https://cen.acs.org/policy/Eric-Lander-will-be-Biden-science-adviser-a-cabinet-level-position-for-the-first-time/99/i3?utm_source=Newsletter&utm_medium=Newsletter&utm_campaign=CEN

Kizzmekia Corbett
is 'not your
average' scientist



<https://www.nbcnews.com/news/amp/ncna-1181626> "There was, and is, already a fair amount of pressure," Corbett said. "A lot of people are banking on us or feel that we have a product that could, at least, be part of the answer this world needs. And, well, whew, just saying that out loud is not easy." **'Not your average pocket-protector scientist'**



Janell Ross is a reporter for NBC BLK who writes about race, politics and social issues.

A Poem of HOPE

'The Hill We Climb'

Amanda Gorman's inaugural poem

This is the poem delivered by the young poet at the Biden-Harris inauguration. 1/20/21

When day comes, we ask ourselves,
where can we find light in this never-ending
shade?

The loss we carry, a sea we must wade.

We've braved the belly of the beast

We've learned that quiet isn't always peace

And the norms and notions of what "just is" isn't always
"justice"

And yet the dawn is ours before we knew it.

Somehow we do it

Somehow we've weathered and witnessed

a nation that isn't broken

but simply unfinished.

We the successors of a country and a time

Where a skinny Black girl

descended from slaves and raised by a single mother

can dream of becoming president

only to find herself reciting for one.

And yes we are far from polished

far from pristine

but that doesn't mean we are

striving to form a union that is perfect.

We are striving to forge a union with purpose

To compose a country committed to all cultures, colors,
characters and

conditions of man.

And so we lift our gazes not to what stands between us
but what stands before us.

We close the divide because we know, to put our future
first,

we must first put our differences aside.

We lay down our arms

so we can reach out our arms

to one another.

We seek harm to none and harmony for all

Let the globe, if nothing else, say this is true:

That even as we grieved, we grew.

That even as we hurt, we hoped

That even as we tired, we tried.

That we'll forever be tied together, victorious

Not because we will never again know defeat

but because we will never again sow division.

Scripture tells us to envision

that everyone shall sit under their own vine and fig tree

And no one shall make them afraid.

If we're to live up to our own time

Then victory won't lie in the blade

But in all the bridges we've made

That is the promised glade,

The hill we climb if only we dare it.

It's because being American is more than a pride we
inherit,

it's the past we step into

and how we repair it.

We've seen a force that would shatter our nation
rather than share it

Would destroy our country if it meant delaying
democracy

And this effort very nearly succeeded.

But while democracy can be periodically delayed

it can never be permanently defeated.

In this truth

in this faith we trust

For while we have our eyes on the future
history has its eyes on us.

This is the era of just redemption.

We feared at its inception

We did not feel prepared to be the heirs

of such a terrifying hour

but within it we found the power

to author a new chapter

To offer hope and laughter to ourselves.

So while we once we asked,

how could we possibly prevail over catastrophe?

Now we assert

How could catastrophe possibly prevail over us?

We will not march back to what was

but move to what shall be

A country that is bruised but whole,

benevolent but bold, fierce and free.

We will not be turned around

or interrupted by intimidation

because we know our inaction and inertia

will be the inheritance of the next generation.

Our blunders become their burdens

But one thing is certain:

If we merge mercy with might,

and might with right,

then love becomes our legacy

and change our children's birthright.

So let us leave behind a country
 better than the one we were left with
 Every breath from my bronze-pounded chest,
 we will raise this wounded world into a wondrous one.
 We will rise from the golden hills of the west,
 we will rise from the windswept northeast
 where our forefathers first realized revolution.
 We will rise from the lakeland cities of the midwestern
 states,
 we will rise from the sunbaked south.
 We will rebuild, reconcile and recover
 and every known nook of our nation and
 every corner called our country,

our people diverse and beautiful will emerge,
 battered and beautiful.

When day comes we step out of the shade,
 aflame and unafraid
 The new dawn blooms as we free it
 For there is always light,
 if only we're brave enough to see it
 If only we're brave enough to be it.

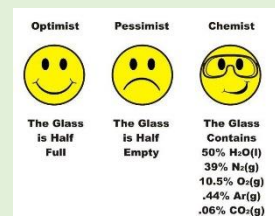
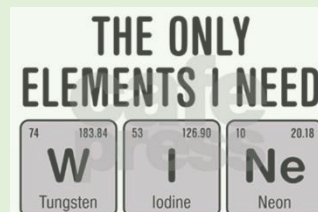
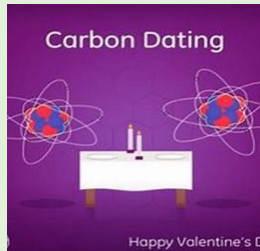
*Amanda Gorman became the
 youngest inaugural poet at
 22. Watch her recite her poem
 at [bit.ly/3caodO3](https://www.youtube.com/watch?v=3caodO3).*

Source:

<https://www.tampabay.com/opinion/2021/01/20/the-hill-we-climb-column/>



Laugh a Little



- **What do you call an acid with an attitude?** A-mean-oh-acid
- **A neutron walks into a bar and orders a beer, the barman says, "For you there's no charge"**
- **Anions aren't negative, they're just misunderstood**
- **Why is organic chemistry difficult?** Those who study it have alkynes of trouble
- **Why are chemists great solving problems?** They have all the solutions
- **Think like a proton and stay positive**

Send your contribution to any of these sections.

Section: CHEMISTRY LITERATURE
SPOTLIGHT

Sample:

Welcome to the section created for chemists to discuss chemistry

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

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

Discussed by Dr. C. Rojas "**What id the science behind COVID-19?**"

Sample:

Second discussion - from Chemical reviews.

Introduction: Reactivity of Nitrogen from the Ground to the Atmosphere

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



Section: BOOKS, write about 5 books that inspired you and your career.

Sample

BOOKS...

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



Section:

Memory of people's pandemic experiences

Invitation... to all ACS Maryland Section Members.

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



Section: **Articles**, poems, comments, your own events or news. Let us share with the chemistry community your research and life interest.

JOBS

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

ADVERTISE HERE!

Section:



Why I chose
ACS Maryland
Local Section

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



Useful Links:

- <https://www.editage.com/insights/a-young-researchers-guide-to-perspective-commentary-and-opinion-articles>
- Senior Chemists presentations:
[Dr. G. Lozos, Dr. R. Berninger and Dr. C. Milton](https://acsmaryland.org/chemistry-video-links/)
<https://acsmaryland.org/chemistry-video-links/>

OLD CHESAPEAKE CHEMISTS ISSUES:

<https://maryland.sites.acs.org/chesapeakechemist.htm>

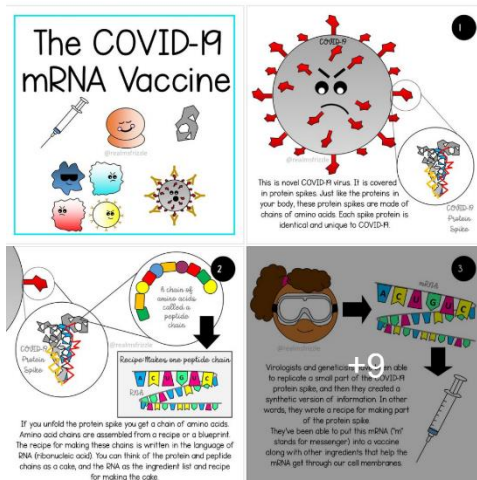
The Education of Our Children

Featuring Real Ms. Frizzle



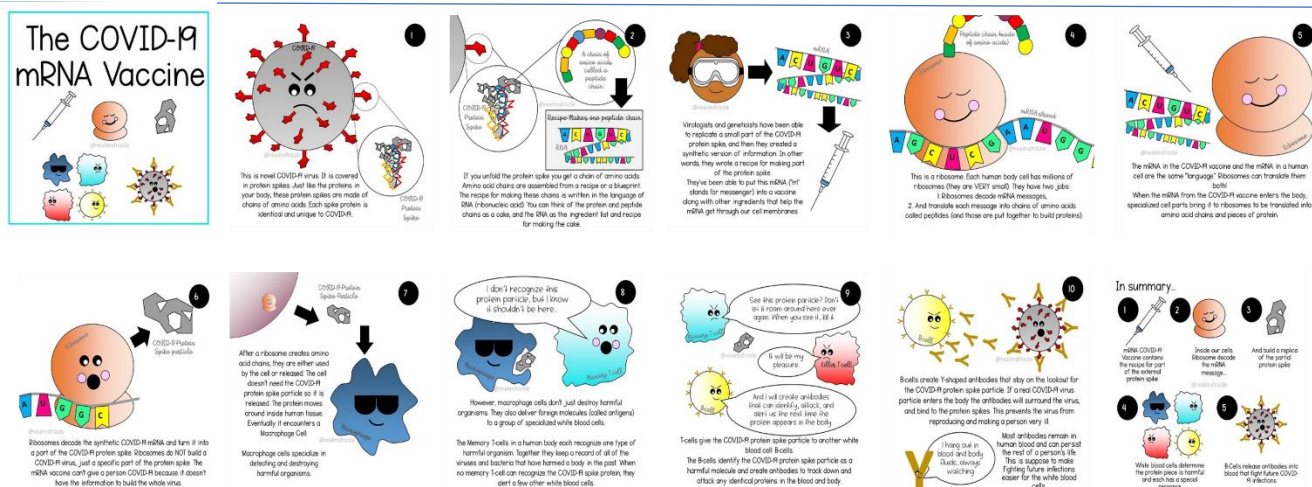
How do we explain the virus COVID-19 to our elementary and middle school children? Recently, I received an email from a teacher co-worker from my previous employment the Baltimore County Public Schools, BCPS, addressing this question. The creativity of many teachers is skyrocketing these days. A case in point is this wonderful artistic story telling of the behavior of the virus COVID-19 in our body and what exactly is the vaccine made of and what it is doing to eliminate the virus.

Ms. Frizzle has a Facebook blog under the subtitle "Making Jr. High Science exciting again! The topics discussed in her blog are the most interesting ones. They are done by



Ms. Frizzle discusses the COVID-19 vaccine and the use of mRNA to create antibodies (article from Dec. 23, 2020). She created a series of posters to explain 6th-10th graders the process. It is a clear rendition of the steps involved in a cartoonish depiction used as introduction to have a general idea of the biology and chemistry involved. The Immunology, cellular processes and virology are more complicated subjects to discuss but as a starting point this graphical and simplified approach will help many at home, and teachers to excite their students through online classes to know more about our bodies and the immune system. By Beatrice Salazar, Editor

her and many other teachers with a genuine interest in good science (in the next issue of the Chesapeake Chemist we will discuss "Bad science and how to recognize it," feel free to send comment for this topic).



LINKS:

Lesson for teachers to use in their classroom see:

[Ms. Frizzle free Go ogle Slides lesson for you!](#)

[Face book entry 1](#)

See All

Real Ms. Frizzle
December 23, 2020

Real Ms. Frizzle
Tutoring
Making Jr. High science exciting again!
<http://www.realsfrizzle.com/>
1,322 people like this

Real Ms. Frizzle
December 23, 2020
s. Frizzle
Jr. High science exciting
<https://www.realsfrizzle.com/>
22 people like this

Happy Valentine's Day Everyone!

THE CHEMISTRY OF WINE

86%
WATER

12%
ETHANOL

1%
GLYCEROL

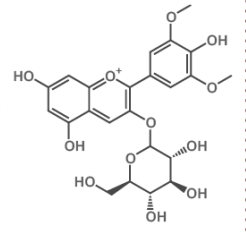
0.4%
ORGANIC ACIDS

0.1%
TANNINS & PHENOLICS

0.5%
OTHER COMPOUNDS


NOTE THAT THESE FIGURES ARE FOR AN AVERAGE COMPOSITION - EXACT PERCENTAGES WILL VARY DEPENDING ON THE PARTICULAR WINE

ANTHOCYANINS

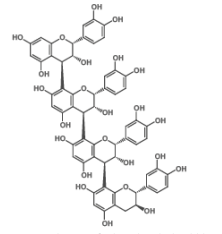


MALVIDIN-3-GLUCOSIDE

Anthocyanins are found in the skin of grapes. As soon as the grapes are crushed, they can react with other chemicals in wine to produce polymeric pigments. Anthocyanins on their own are also coloured, but the colour varies depending on pH.

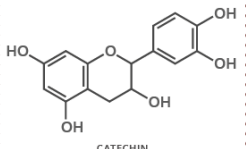


TANNINS



Tannins are polymers of other chemicals within wine. Condensed tannins are polymers of flavan-3-ols, and give red wine its astringency, causing a dry feeling in the mouth after drinking. Changes in tannin structure over time are an important factor in wine aging.

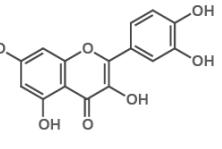
FLAVAN-3-OLS



CATECHIN

Flavan-3-ols originate in the seeds of grapes, and are known for their bitterness. In red wine, the amount present can reach up to 800 milligrams per litre. 20 milligrams per litre is the amount required in order for a bitter taste to be imparted.

FLAVONOOLS

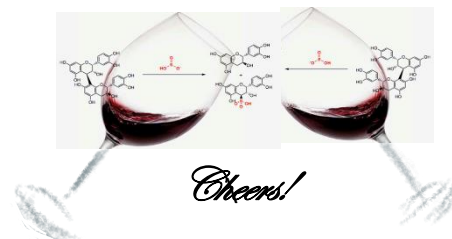


QUERCETIN

Flavonols can help enhance the colour of red wine, via a process called 'co-pigmentation'. These compounds have potential anti-oxidant and anti-carcinogenic effects; however, their concentration in red wine is likely too low to confer any significant health benefits.

OVER 1000 DIFFERENT COMPOUNDS

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Valentine's day is always a wonderful day to celebrate love with our partner. Just grab one of these "Educated Guess" wine bottles and enjoy the time engaging in a chemistry conversation with your loved one. This year, as we need to spend more quality time with those close to us, a copy of the Chesapeake chemist will do along with the history of valentine and a good science book.

HISTORY

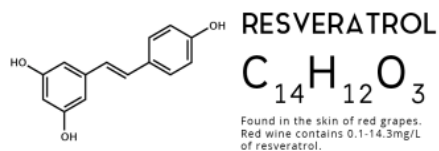
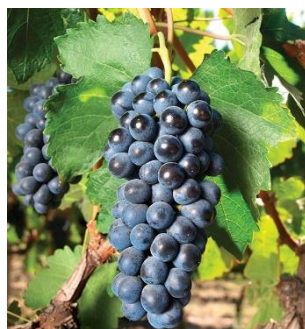


Valentine's day is about true love, sacrifice and commitment. It is a religious, romance and commercial celebration.

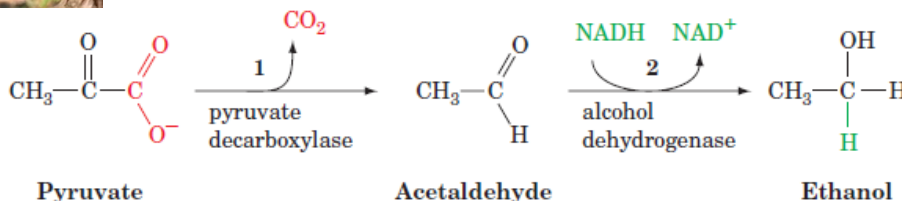
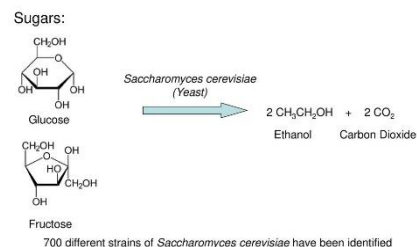


A good **BOOK** on the [science of wine](https://www.sciencedirect.com/book/9780128161180/wine-science)

<https://www.sciencedirect.com/book/9780128161180/wine-science>



Yeast Ferments Sugars of Grapes to Ethanol



WOMEN CHEMISTS COMMITTEE

FEBRUARY LECTURE

“Wastewater testing tracing of COVID - 19”

Lecture Coordinators

Sara Narayan and Kelly Elkins



Birthe Veno Kjellerup, Ph.D.

Associate Professor, The Pedro E. Wasmer
Professor in Engineering
Chair for Diversity, Equity, and Inclusion

University of Maryland at College Park
A. James Clark School of Engineering
Department of Civil and
Environmental Engineering
1147 Glenn L. Martin Hall
College Park MD, 20742
Office: 301-314-1535
Email: bvk@umd.edu

Birthe V. Kjellerup University of Maryland

Associate Professor, The Pedro E. Wasmer Professor in Engineering

Birthe Kjellerup is an Associate Professor at the University of Maryland in the Department of Civil and Environmental Engineering with a secondary appointment in the Fischell Department of Bioengineering. Dr. Kjellerup began her training at Aalborg University, Denmark, where she received her PhD in 2004 with a thesis titled "Monitoring, detection and control of bacteria involved in biocorrosion in district heating systems", while also doing research in microbial populations in wastewater. In January 2015 she started as Assistant Professor at University of Maryland. Here, Dr. Kjellerup continued her research and teaching interests in biofilms and wastewater.

2020 Intra- and Extramural Service

Leading the University of Maryland Campus wastewater surveillance program for SARS-CoV-2; Chair of ASM Microbe Virtual Session 'SARS-CoV-2 in the environment - What have we learned?' Participant in International Study 'SARS-CoV-2 in sewage'.

Virtual Lecture:

“Wastewater testing tracing of COVID -19”

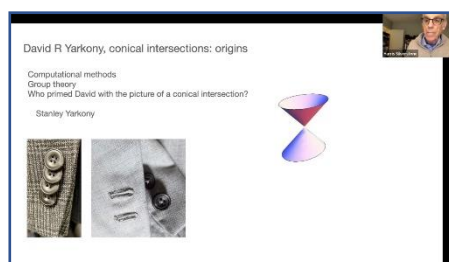
February 24, 2021
6:00 P.M.
ZOOM Link TBA

Congratulations!

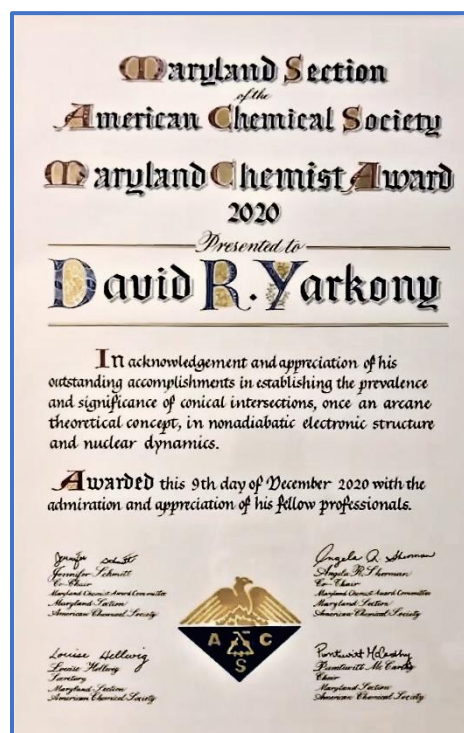
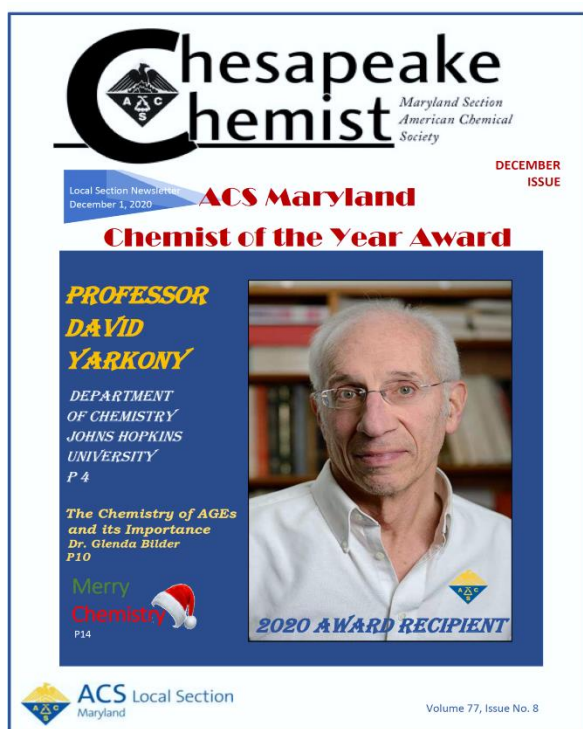
Dr. David R. Yarkony

On December 9, 2020, the Maryland Section of the American Chemical Society celebrated the achievements of Chemistry Professor David Yarkony from Johns Hopkins University. He was the recipient of the 2020 Maryland Chemist of the Year Award

Dr. Yarkony presented a lecture titled: "**Conical intersections can ruin a perfectly good approximation - the Born-Oppenheimer (BO) approximation.**" We are thankful that Professor Yarkony allowed us to record his lecture to make it available for all to watch, review and enjoy. Use the link [Conical Intersections](#). The abstract, biography and additional details on this lecture can be found in last year's issue of the Chesapeake Chemist ACS Maryland Local Section newsletter (click on the figure below).



Professor Yarkony was introduced by Dr. Harris Silverstone, also from Johns Hopkins. He shared with us an interesting anecdote of Dr. Yarkony's original idea of Conical Intersections. You can see it all in the video.



2021 ADMINISTRATION OFFICERS

2021 SECTION OFFICERS

Chair 2021.....	Eric C. Cotton, Community College, of Baltimore County, cccotton2@ccbcmd.edu
Vice-Chair 2021.....	Sarah Zimmerman, Web Master, Chair of Member Assistance Committee scatzim@gmail.com
Chair-Elect (Chair 2023)....	Kelly Elkins Kmelkins@towson.edu
Secretary 2021.....	Louise Hellwig, Morgan State University, louise.hellwig@morgan.edu
Treasurer 2021.....	Lee Lefkowitz, lee_lefkowitz@hotmail.com
Past Chair (2020).....	Pumtiwitt McCarthy, Morgan State University, pumtiwitt.mccarthy@morgan.edu

2021 SECTION COMMITTEE ON NOMINATIONS and ELECTIONS

Chair of the Committee on Nominations.....

Additional 4 members:	Dana Ferraris, Chair-2019, dferraris@mcdaniel.edu
.....	Pumtiwitt McCarthy, Chair-2020, pumtiwitt.mccarthy@morgan.edu
.....	Beatrice Salazar, Chair-2018, beatricesalazar1@gmail.com
.....	Sara Narayan, Stevenson University, SNARAYAN@stevenson.edu

COUNCILORS/COMMITTEES

1. 2020-2022 Kelly Elkins Kmelkins@towson.edu
2. 2021-2023 Beatrice Salazar beatricesalazar1@gmail.com
3. 2021-2023 Jan Kolakowski jek6042@gmail.com
4. 2021-2023 Stephanie Watson stephanie.watson@nist.gov

ALTERNATE COUNCILORS/COMMITTEES

1. 2021-2023 Alexander Samokhvalov alexandr.samokhvalov@morgan.edu
2. 2021-2023 Rob Clapper rob.clapper@scioninstruments.com
3. 2021-2023 Michele Foss foss.michele@gmail.com
4. 2020-2022 Paul Smith pjsmith@umbc.edu

MEMBERS-AT-LARGE

1. Angela Sherman, asherman@ndm.edu
2. Fasil Abebe fasil.abebe@morgan.edu
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4. Rose A. Pesce-Rodríguez, rose.a.pesce-rodriguez.civ@mail.mil
5. Sara Narayan, Stevenson University, SNARAYAN@stevenson.edu

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

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

CONTACT US: acsmarylandsection10@gmail.com

PROGRAM CHAIRS

AWARDS

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

PROGRAMS

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

EVENTS CONTACT

The U.S. National Chemistry Olympiad
USNCO MARYLAND

URL: <http://www.beatricesalazarusncocoordinator.webs.com>

Jan - April

Student Travel Awards

<https://acsmaryland.org/travel-awards/>

Email: Louise Hellwig <Louise.Hellwig@morgan.edu>

Jan – March

Student Award <https://acsmaryland.org/student-awards/>

Email: George Farrant, gfarrant@yahoo.com

Chemists Celebrate Earth Day

April

Senior Awards

Email: Merle Eiss, meiss32@aol.com

Email: Linda Gonzalez <linda_gonzalez@mccormick.com>

May

National Chemistry Week Events

[Rose Pesce-Rodriguez](#)

<http://www.beatricesalazarusncocoordinator.webs.com>

Beer Tours: Louise Hellwig <Louise.Hellwig@morgan.edu> &
Michele Foss <foss.michele@gmail.com>

May to Sept.

Braude Award

<https://acsmaryland.org/braude-award/>

Email: Louise Hellwig <Louise.Hellwig@morgan.edu>

Oct.

The Remsen Award

<https://acsmaryland.org/remsen-award/>

Email: Dana Ferraris (dferraris@mcdaniel.edu)
<dferraris@mcdaniel.edu>

Nov.

The Maryland Chemist of the Year Award

<https://acsmaryland.org/maryland-chemist-of-the-year/>

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

Dec.



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