

# THE MIDLAND CHEMIST

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## Contents

Chair Column – Blooming Interest in STEM .....	1
Virtual Earth Day Seminar Event, May 20 .....	2
Call for Nominations for 2022 Officer and Director Candidates.....	3
Midland Section Far Outpaces Other Local Sections in Receiving ChemLuminary Awards for Outstanding Local Section .....	3
More Gratitude for Chemistry .....	5
Dow’s A.N. Sreeram Wins 2020 Henry Whalen Award.....	7
New Midland ACS Scholarship Fund Challenge.....	9
Congratulations to our 2021 Scholarship Recipients.....	9
Chemistry Students Take Part in Virtual 2021 U.S. National Chemistry Olympiad.....	10
2021 ACS Virtual Great Lakes Regional Meeting.....	11
Upcoming Dates, Events, and Other Updates.....	12

## Chair Column – Blooming Interest in STEM

*Robbyn Prange, Chair, Midland Section ACS*



Spring blossoms are always a refreshing, hopeful sight after a Michigan winter. Just as refreshing and hopeful is the blossoming interest in STEM that our Midland Section fosters in area youth. Our efforts as well as the curiosity and energy of STEM youngsters were in full bloom during the Earth Action Expo held on May 1 at Dow High School in Midland. Here kids of all ages, along with their adult counterparts, roamed the tables and tents learning how to make things like seed bombs, wind and solar energy; creating corn (syrup) to ethanol reactors; and exploring the mechanical engineering of bicycles and rocket ship propulsion. It was a wonderful event representing the great diversity that STEM encompasses, offering something for everyone. How great it was to see volunteers and attendees so engaged in an education-minded environment!

The Earth Action Expo had me reminiscing about my unscripted childhood discoveries: finding a four-foot by six-foot beehive with lots of wonderful honey; seeing a dairy milking bucket vacuum process; and learning about crop farming. I was fortunate to have access to endless “field days” where I could explore and learn in a hands-on manner. Today, I’m grateful that the Midland Section provides STEM exposure opportunities to children through events and expos, [structured summer camp programs](#), urban garden plots, and more. For those interested in urban farming, either for educational or food purposes, I encourage you to consider a

Creative 360/ACS Community Garden plot. A garden is a wonderful place to unfold multiple science lessons and soak up fresh air, sun, and family time. Please call 989-837-1885 for details.

For older kids, still young at heart, don't miss the opportunity to continue your STEM exploration at the upcoming [2021 ACS Virtual Great Lakes Regional Meeting June 6-9](#).

**Virtual Earth Day Seminar Event, May 20**  
**Gina Malczewski, Outreach Committee, Midland Section ACS**

You are invited to attend our last Virtual Earth Day Seminar event for 2021 on Thursday, May 20, 4:00-5:30 PM. Beyond the public at large, this topic may be appropriate for sociology and environmental issues classes as well. This is a free event and open to the public. Just click on the link <https://msu.zoom.us/j/96111588873>, and enter the passcode ACS. For questions, please contact Gina Malczewski at [reginamalczewski@gmail.com](mailto:reginamalczewski@gmail.com).

**An Earth Day Virtual Seminar**  
**FREE and Open to the Public; click the link to participate!**

**Environmental Justice in Detroit:  
A Movement That Helped Redefine the Meaning of  
Mainstream Environmentalism**

**Catherine Diggs,  
Mgr of Programs &  
Outreach,  
Detroitters Working  
for Environmental  
Justice**





**Raquel Garcia,  
Executive Director,  
Southwest Detroit  
Environmental Vision**

**Thursday, May 20, 2021 4:00-5:30 pm**

The speakers will discuss environmental justice (EJ) landscape in Detroit, its history, the work that both organizations are doing to address certain issues, and how the general public can support the EJ movement in the city and beyond. Although EJ touches upon all areas of life from water, to housing, to jobs, Raquel and Cat will be overviewing the following issues that Detroitters face every day: air quality, zoning, public health, energy and waste management.

**LINK:** <https://msu.zoom.us/j/96111588873>      **Passcode: ACS**



**DETROITERS WORKING FOR  
ENVIRONMENTAL JUSTICE**



**sdev**





American Chemical Society  
Midland Section



MSU St. Andrews  
MICHIGAN STATE UNIVERSITY

## **Call for Nominations for 2022 Officer and Director Candidates** *Shuting Feng, Chair, Nominations and Elections Committee, Midland Section ACS*

Here is your opportunity to become more involved in your local ACS section! We need candidates to run for the following positions for 2022:

- Chair-elect (1-year term)\*
- Secretary (1-year term)
- Treasurer (1-year term)
- Chair, Nominations and Elections Committee (1-year term)
- Directors (3 open positions for 3-year terms)

\*Note: The election of a Midland Section ACS member to the Chair-elect position triggers a rolling three-year commitment, the first year as Chair-elect, the second year as Chair, and the third year as Past Chair. The Chair and Past Chair positions are not subject to the annual elections process unless a vacancy arises.

If you are interested in running for any of these positions, or if you know of someone who might be interested, please contact Shuting Feng at [sfeng7@dow.com](mailto:sfeng7@dow.com) (preferred) or by phone at 989-496-1617. If you have any questions regarding the responsibilities of any of the positions, please contact the current officers or Shuting Feng. You are also encouraged to visit our website at [www.midlandacs.org](http://www.midlandacs.org).

## **Midland Section Far Outpaces Other Local Sections in Receiving ChemLuminary Awards for Outstanding Local Section**

*Wendell L. Dilling, Historian and Director, Midland Section ACS*



The Midland Section of the ACS has far outpaced all other local sections in the country in the number of ChemLuminary Outstanding Local Section Awards that it has received from 2000-2020, winning 16 of the 21 awards given since these awards became available in 2000. And the last eight awards to the Midland local section were won consecutively!

The New York Section garnered the next largest number of these awards with ten. For purposes of fair competition, ACS local sections are grouped according to the number of members in the section: small (s, 50-199), medium small (ms, 200-399), medium (m, 400-799), medium large (ml, 800-1599), large (l, 1600-3199), and very large (vl, 3200 and above). The Midland Section was in the ml category in award years 2000-2001 and the m category in award years 2003-2020. The New York Section was in the vl category.

The table at the top of page 4 shows the years that the Midland Section ACS has won the ChemLuminary Outstanding Local Section Award from 2000 to 2020, along with the Section Chair who was serving during the Activities Year for which the award was given.

Award Year	Activities Year	Section Chair in the Activities Year
2000	1999	Debora Bergstrom
2001	2000	Wendell Dilling
2003	2002	Patrick Cannady
2004	2003	Michael Owen
2006	2005	Patrick Smith
2007	2006	Buford Lemon
2008	2007	Dee Strand
2011	2010	John Blizzard
2013	2012	Regina Malczewski
2014	2013	Wayde Konze
2015	2014	Michelle Cummings
2016	2015	Regina Malczewski
2017	2016	Jaime Curtis-Fisk
2018	2017	Anne Kelly-Rowley
2019	2018	Wenyi Huang
2020	2019	Amanda Palumbo

For comparison, the other ACS local sections that have won this award from one to six times over the same period of time, along with their sizes, are listed in the following table (data from the ACS website):

<b>6 Awards</b> (two local sections)			
Indiana (ml, l)	Nashville (m, ml)		
<b>5 Awards</b> (four local sections)			
Illinois Heartland (ms)	Kentucky Lake (s, ms)	San Diego (l)	Savannah River (ms)
<b>4 Awards</b> (five local sections)			
Brazosport (ms)	Delaware (l)	North Jersey (vl)	Peoria (ms)
St. Louis (ml, l)			
<b>3 Awards</b> (three local sections)			
California (vl)	Chicago (vl)	Pensacola (s)	
<b>2 Awards</b> (seven local sections)			
Erie (s)	Greater Houston (l)	Illinois-Iowa Border (s)	Pittsburgh (l)
Portland (ml)	Richland (m)	Southwest Georgia (s)	
<b>1 Award</b> (19 local sections)			
Alaska (s)	Binghamton (s)	Cincinnati (ml)	Cleveland (ml)
Colorado (l)	East Tennessee (m)	Eastern New York (ml)	Lehigh Valley (ml)
Michigan State (m)	Mid-Hudson (ms)	Minnesota (l)	Mobile (s)
North Carolina (l)	Northeast Tennessee (m)	Penn-Ohio Border (s)	Princeton (ml)
Rochester (ml)	Southern Illinois (s)	Wyoming (s)	

Before 2000, similar outstanding section awards were called Phoenix Awards. Data for only a few of these awards are currently available. The Midland Section ACS was recognized for its outstanding activities with Phoenix Awards for the years 1973, 1990, 1991, 1992, 1993, 1994, and 1998. The remaining data will be reported when available.

## More Gratitude for Chemistry

**Steve Keinath, Co-Editor, *The Midland Chemist***

Editor's note: This article is reprinted, in part, from the Tuesday, April 13, 2021 issue of *ACS Matters*, an online news publication of the American Chemical Society. Readers may recall that Mark Jones penned an initial "Gratitude for Chemistry" article in the May 2020 issue of the *Midland Chemist* under his Chair Column at the time. That article was also published in parallel by the National ACS in their May 21, 2020 issue of *Industry Matters Newsletter*, an online news publication.



**Mark E. Jones** (photo at left), PhD, Member of the ACS Committee on Public Relations and Communications and the Chemical Heritage Landmark Committee, and 2020 Midland Section Chair

Mark Jones retired as the Executive External Strategy and Communications Fellow at The Dow Chemical Company on March 31, 2021. He is a frequent speaker at a variety of industry events on industry related topics. He is a long-time supporter of ACS Industry Member Programs providing both written and webinar content, supporting the CTO Summits, and as a former member of Corporation Associates. He currently serves on the ACS Committee on Public Relations and Communications and the Chemical Heritage Landmark Committee. He is a member and former chair of the Chemical Sciences Roundtable, a standing roundtable of the National Academies of Sciences, Engineering, and Medicine. Mark is also the author of over a dozen U.S. patents and numerous publications.

The concept of "three gratitudes" came into my consciousness about a year ago. Stress is relieved, according to proponents of the three gratitudes exercise, by pausing to reflect and finding just three things that make you grateful or thankful. Those sold on the power of three gratitudes state that expressing gratitude can lead to increased happiness and reduced stress. I found three gratitudes for chemistry, three things tied to chemistry that made me grateful.

[My gratitudes last year](#) were a mixed bag. I saw optimism in drugs against COVID-19. That optimism was misplaced since treatments remain elusive. I was grateful that the SARS-CoV-2 is chemically fragile and easily destroyed. Studies show fomite transmission is unlikely, meaning that lots of sanitizer was wasted. I was also grateful that the chemical industry was able to continue operating to provide critical materials. That gratitude did hold up.

Now, it is time for three new gratitudes for chemistry.

A year into the COVID-19 pandemic, vaccines are providing hope. Vaccines were the stuff of biology. No longer. The story of Edward Jenner is not a story of chemistry. Inoculation with cowpox takes advantage of the biological similarities between two viruses, similarities sufficient to create a protective

immune response against the more devastating smallpox virus. The Salk vaccine required chemistry. Viruses were formalinized, treated with formaldehyde, rendering them incapable of causing infection. There was a chemical step, but the growth of the virus in living cells still made it feel more like biology than chemistry.

In recent months, I received a vaccine made through [chemistry](#). I am grateful for the chemical feats that made it possible. There is no weakened or inactivated version of a virus. The vaccine I got used messenger RNA, or mRNA. mRNA is a product of chemistry, designed and produced by chemistry. DNA plasmids are assembled by sequential reactions from amino acids. Chemical treatment of the plasmid DNA makes the mRNA that is injected. mRNA instructs the body's cells to produce copies of the SARS-CoV-2's spike protein and the immune system develops antibodies that guard against infection. One great thing about chemistry is that it is fast, far faster than biology. mRNA vaccines against variants are already being tested, requiring only changes to the synthesis instructions. I am grateful for the chemistry that enables these innovative vaccines.

Second, I am grateful that concrete steps are being taken to improve the sustainability of the chemical industry. Sustainability remains important. The pandemic certainly illustrated the value proposition for many chemical products, with disinfectants and plastic being near the top of the list. PPE relies extensively on plastics, versatile materials that are cheap enough to throw away after one use. Bag bans were put on hold in recognition of the fact that single use bags were the most sanitary option in a pandemic. It appeared we might be leaving sustainability behind. Any concerns over potential wilting of industry sustainability efforts were misplaced. Industry remains committed to aggressive greenhouse gas emissions targets and to addressing plastic waste. Recent announcements from [BASF, SABIC, and Linde](#) show commitment to low-emission e-cracking. Covestro just announced a polyurethane back to monomer recycling effort. I am grateful that the pandemic didn't derail sustainability efforts.

For my third gratitude, I'm sticking with sustainability, but with a focus on the larger chemical community. I am thankful for innovation, particularly innovation addressing sustainability. I am particularly heartened by academic efforts. Long ignored, improved processing and recycling are suddenly in vogue. Creative researchers are showing ways to get polyethylene-like properties in polymers designed for recycling, discovering new methods of upcycling, inventing new ways to utilize CO<sub>2</sub> and more. I am grateful for the new approaches, and for the creativity being shown.

I'm going to add a fourth gratitude. My last day as a paid industrial chemist was March 31, after a career of 11,308 days, all working for The Dow Chemical Company. Purists among you will point out that there were the Dow DuPont years and the Dow, Inc. years. My paycheck came from The Dow Chemical Company for all 30 years, 11 months, and 16 days.

I am grateful that a love of chemistry turned into a rewarding, challenging career. There wasn't a plan; I just did things I found interesting and challenging. It is what got me to graduate school, into the research group I joined, and what I was able to do during my Dow career. I am grateful for all the wonderful people I got to work with, and that Dow provided me the flexibility to volunteer with the ACS. It is something that I will continue. Douglas Adams summed up my career nicely, "I may not have gone where I intended to go, but I think I have ended up where I intended to be."

## Dow's A.N. Sreeram Wins 2020 Henry Whalen Award

*Steve Keinath, Co-Editor, The Midland Chemist*

Editor's note: The material appearing in this article is based, in part, on excerpts published in the March 8, 2021 issue of *C&EN* (page 36), in the March 25, 2021 issue of *Industry Matters Newsletter*, an online news publication of the American Chemical Society, and from an earlier "Boss Talk Conversation" article in the April 16, 2020 issue of *Industry Matters Newsletter*. For reference, the full Boss Talk article was also reprinted in the May 2020 issue of the *Midland Chemist*.

**Dr. A.N. Sreeram** (photo at right), Senior Vice President for R&D and Chief Technology Officer at Dow Chemical, is the 2020 recipient of the Henry F. Whalen, Jr. Award, presented by the ACS Division of Business Development and Management (BMGT). This prestigious award recognizes outstanding contributions to the development and management of business within the chemical enterprise.

At Dow, Dr. Sreeram has led the adoption of high-throughput experimentation for the discovery of new molecules in a variety of businesses, from electronics to paints and coatings. His work helped to accelerate the R&D process and lower costs for the company.

The ACS Division of Business Development and Management presented the award to Dr. Sreeram during a virtual awards ceremony segment at the 2021 Virtual National ACS Spring Meeting, on Monday, April 12, 4:00-5:00 PM EDT. ACS Past

President Diane Grob Schmidt, ACS Executive Director Tom Connelly, Dow's Mark Jones, and BMGT chair Matt Grandbois joined forces in honoring Dr. Sreeram by providing background information about the Henry Whalen Award and highlights of Dr. Sreeram's career in the chemical industry.



Congratulations to Dr. A.N. Sreeram!

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### About A.N. Sreeram from the April 16, 2020 Boss Talk Article in *Industry Matters Newsletter*

A.N. Sreeram is the Senior Vice President and Chief Technology Officer for Dow, where he focuses on accelerating new product commercialization through strategic collaboration with Dow's businesses and customers.

Sreeram leads a vibrant R&D organization at Dow focused on step-change technology development aligned with market demand. Under Sreeram's leadership, Dow transformed its innovation approach, significantly growing high-throughput experimentation and analysis capabilities extending from material discovery and processing through to application development. Sreeram has established strong value chain partnerships, giving Dow a seat at the customer's design table and strong connections to market signals. Dow's innovation pipeline is strongly aligned with strategic growth areas and global challenges, and empowering Dow researchers to excel. When combined, the capabilities and expertise of Dow's R&D organization provide a

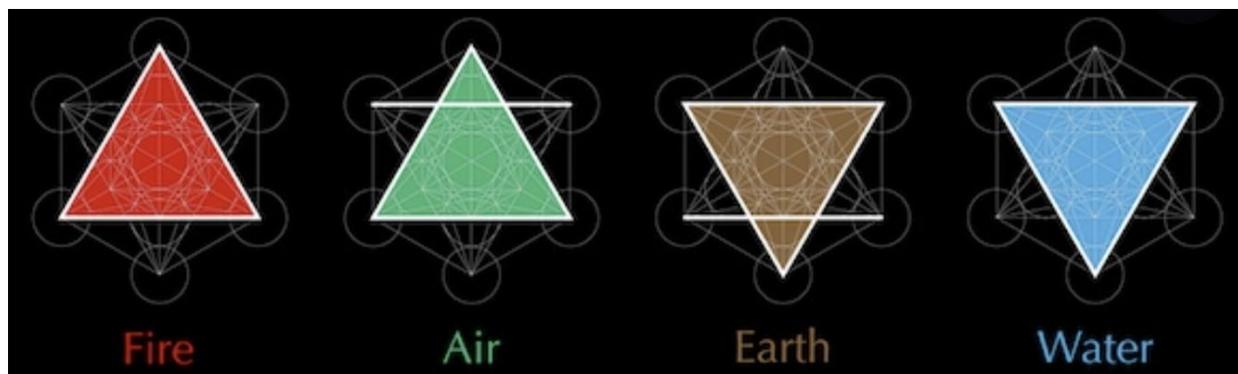
distinct competitive advantage, enabling the company to more quickly develop products, ensuring that new products meet customer needs, and rapidly commercializing new innovations into established and emerging markets.

Products developed at Dow under Sreeram's tenure have received many awards for innovation and sustainability, including R&D 100 Awards, Edison Awards, and the Presidential Green Chemistry Challenge. Examples of award-winning technologies include EVOQUE™ pre-composite polymer for paints, INNATE™ Precision Packaging Resins, INFUSE™ Olefin Block Copolymers, DOWSIL™ EP-9610 Cosmetic Powder, ECOFAST™ Pure Sustainable Textile Treatment, Dow Performance Silicones Moldable Optical Silicone, ROPAQUE™ Opaque Polymer for BLU4EST™ Thermal Paper, ACCUTRACE™ fuel markers and VORAGUARD™ polyol for combustion modified high resilience polyurethane foams.

Sreeram served as Vice President of R&D for Dow Advanced Materials prior to assuming his current role. He joined Dow in June 2006 as Vice President of Core R&D, driving innovation in a number of key market segments, including automotive, infrastructure, and health. He led the adoption of high-throughput technologies to significantly accelerate the R&D process, while lowering costs and dramatically increasing product successes.

Prior to joining Dow, Sreeram served as the Global Technology Director and Chief Technology Officer for DuPont Electronic Technologies. Prior to this, he served as Vice President of Worldwide Technology for Cookson Electronics, and before that, he led the Electronic and Flat Panel Display Program for Sarnoff Corporation.

Sreeram serves on the White House's President's Council of Advisors on Science and Technology (PCAST), since his appointment in October 2019. PCAST advises the President on matters of science, technology, education, and innovation policy, informing public policy relating to the American economy, the American worker, national and homeland security, and other topics. Sreeram holds more than 20 U.S. patents, earned his doctorate degree from the Department of Materials Science & Engineering at Massachusetts Institute of Technology (MIT), and his master's degree in Glass Science from Alfred University in New York where he currently serves as a member of Board of Trustees. He is also a graduate of the ceramics engineering program at the Indian Institute of Technology – BHU in Varanasi, India.



## New Midland ACS Scholarship Fund Challenge

*Gina Malczewski, Director and Scholarship Committee, Midland Section ACS*

The Midland Section of the ACS has been proud to offer scholarships to deserving undergraduate students majoring in a chemical science since 2002. Annually, two to four scholarships are awarded to candidates who have graduated from a high school in one of the Section's five counties (Bay, Midland, Saginaw, Isabella, and Gratiot), are studying at a Michigan University, and are ideally intending to pursue a career in some aspect of chemistry or chemical engineering. Selections are made by a committee and are based on academics, service, and extracurricular contributions, and an essay on the student's sources of motivation as well as future plans.

Awards usually range from \$1,000-2,000, depending on the financial performance of the Midland ACS Scholarship Fund (#399) administered through the Midland Area Community Foundation. A long-standing goal of the Section has been to raise the base amount to \$100,000 to serve more students.

**Dr. Wendell and Marcia Dilling** (photo at right), both trained chemists and stalwart supporters of our Local Section, are now prepared to help us reach that goal by donating up to \$18,000 as part of a Challenge Grant to the Scholarship Fund, which currently stands at \$64,953.22. **They will match 1:1 any new contributions to the fund at the Midland Area Community Foundation over the next couple of years (\$18,000 X 2 + \$64,953.22 = \$100,953.22).**



Please consider contributing to this worthwhile cause. And, read the accompanying newsletter article below which highlights this year's recipients, who demonstrate the caliber of the students we are supporting. **Your donations will help shape the future of chemistry!** If you have any questions about contributing to the Midland ACS Scholarship Fund, please call the Midland Area Community Foundation at 989-839-9661. Thank you.

## Congratulations to our 2021 Scholarship Recipients

*Gina Malczewski, Director and Scholarship Committee, Midland Section ACS*

Two scholarship awards of \$1,500 each will be awarded to two deserving chemistry students as a result of the 2021 Midland Section ACS scholarship application process. A committee composed of Denise Mason, Barb McManus, and Gina Malczewski evaluated eight submissions from area students, which included seven female applicants this year. All had earned grade point averages above 3.5 at the local high schools they attended, and all are studying chemistry.

One scholarship recipient, Hannah Bartels, attends the University of Michigan and has already done significant laboratory research, some of it voluntary (no credits or salary). She taught herself Computer-Assisted Design (CAD) to use it in her projects. Our second awardee, Madeleine Lang attends Grand Valley State University, tutors math in her spare time, and plans to go into medicine. Both of these women are highly motivated and extremely well-regarded by those with whom they have worked and/or volunteered, and both have university GPAs above 3.9.

We congratulate these students, wish them well, and hope to encounter equally talented applicants in the next round of submissions. The work of all those on the Scholarship Committee is also much appreciated.

## **Chemistry Students Take Part in Virtual 2021 U.S. National Chemistry Olympiad**

***Michael Tulchinsky, Chemistry Olympiad Chair, Midland Section ACS***

Nine high school students residing in Bay, Midland, and Saginaw counties took part in the virtual National Exam of the 2021 U.S. National Chemistry Olympiad (USNCO) on April 17. Like in 2020, the exam was offered remotely due to the elevated risk of COVID.

Before the National Exam, 88 chemistry students from five high schools registered and 73 eventually participated in the Midland Local Section Exam the week of March 15. This competition was held in-person at Bay City Western, Heritage, H.H. Dow, Midland, and Saginaw Arts and Science Academy (SASA) high schools and involved 60 multiple choice problems provided by the American Chemical Society. These high schools are situated in three mid-Michigan counties, which are served by the Midland Section of the ACS. The chemistry teachers administered and graded the exam.

The Midland Section ACS nominated ten students, who showed high scores at the Local Section Exam and met other requirements of the USNCO, to the National Exam. Nine students accepted the nominations and took part in the National Exam, Part 1 online: Shubhan Nagarkar and Kenneth Gu from H.H. Dow High School (chemistry teacher Adam Colvin); Nathaniel Striebel and Zoren Berlanga from Midland High School (chemistry teacher Jeffrey Yoder); Alyssa Burger and Sufyan Salameh from Bay City Western High School (chemistry teacher Gwenyth Kieser), Taylor Lewis and Christya Haddad from Heritage High School (chemistry teacher Melanie Galonska), and Devlin Wieszczeinski from SASA (chemistry teacher Dr. David Allan).

Midland Section ACS volunteers carried out the competition via Zoom with remote proctoring. Shubhan Nagarkar of H.H. Dow High School accomplished the highest scores among the mid-Michigan contestants at both the Local and National Exams, while Nathaniel Striebel of Midland High School finished as the second best. All nine students who participated in the National Exam, Part 1 were recognized with ACS certificates that they downloaded online. The students also received honor cords by mail as gifts from the Midland Section of the ACS.

In terms of the overall 2021 Chemistry Olympiad competition, this year 861 high school chemistry students across the country took Part 1 of the National Exam, and 200 students with the score of 37 out of 60 or higher were offered to participate in Part 2. The most successful twenty students in Part 2 received invitations to the Chemistry Olympiad Virtual Study Camp, which is conducted under the auspices of the American Chemical Society in June. The top four exceptionally qualified students from this cohort will represent the U.S. at the 53rd International Chemistry Olympiad (IChO) to be held virtually in Japan the week of July 25, 2021.

Several Dow volunteers helped with both the local and national exams. Dr. Robbyn Prange, the 2021 Midland Section Chair, promoted and encouraged the activities related to the Chemistry Olympiad. Dr. Stephanie Barbon and Dr. Jonathan Axtell served as National Exam proctors. Ms. Diana Deese purchased and provided the honor cords to recognize the students who participated in the National Exam. Dr. Michael Tulchinsky coordinated the overall activity.





Three of the nine Mid-Michigan high school students who participated in the National Exam of the 2021 U.S. National Chemistry Olympiad who provided their photos (from left to right): Shubhan Nagarkar, Nathaniel Striebel, and Taylor Lewis.

### 2021 ACS Virtual Great Lakes Regional Meeting

*Steve Keinath, Co-Editor, The Midland Chemist*

June 6-9, 2021 (**Save the Date**) – 2021 ACS Virtual Great Lakes Regional Meeting (GLRM), hosted by the Minnesota local section. Meeting theme: *Elevating the Importance of Diversity and Inclusion in Chemistry*. For more information, or to register for this meeting, please see <https://www.glrn2021.org/>.



Explore the Great Lakes Regional Meeting (GLRM) [schedule-at-a-glance](#) to see what's taking place during the virtual event!

Register today to participate in the virtual technical **symposia**, **flash talks** in place of poster presentations, **workshops**, a **career fair**, **networking opportunities**, and **award ceremonies**. Workshops and events for GLRM will begin as early as June 5 and end June 10, while the Technical Program will take place June 6-9.

**Please note:** The Great Lakes Region of the ACS formally welcomes the Central Region of the ACS to this virtual conference. The 2021 Great Lakes Regional Meeting will also serve as the 2021 Central Regional Meeting due to complications caused by the COVID pandemic and the cancellation of the 2020 Central Regional Meeting a year ago.

## Upcoming Dates, Events, and Other Updates

- May 3 (7:00 – 8:00 PM) – Midland Section ACS Board meeting, via a WebEx conference call connection at [Cisco Webex Meeting - May 2021](#), phone number: 989-633-1166.
- May 20 (4:00 – 5:30 PM) – Earth Day Virtual Seminar event, *Environmental Justice in Detroit: A Movement that Helped Redefine the Meaning of Mainstream Environmentalism*. Free and open to the public. Click on the link <https://msu.zoom.us/j/96111588873>, and enter the passcode ACS. For any questions, please contact Gina Malczewski at [reginamalczewski@gmail.com](mailto:reginamalczewski@gmail.com).
- June 6-9, 2021 (**Save the Date**) – 2021 ACS Virtual Great Lakes Regional Meeting (GLRM), hosted by the Minnesota local section. For more information, please see <https://www.glr2021.org/>. **Please note:** The Great Lakes Region of the ACS formally welcomes the Central Region of the ACS to this virtual conference. The 2021 Great Lakes Regional Meeting will also serve as the 2021 Central Regional Meeting due to complications caused by the COVID pandemic and the cancellation of the 2020 Central Regional Meeting a year ago.
- June 7 (7:00 – 8:00 PM) – Midland Section ACS Board meeting, MCFTA Board Room (anticipated location, in person), or via a WebEx conference call connection at [Cisco Webex Meeting - June 2021](#), phone number: 989-633-1166.
- August 2 (7:00 – 8:00 PM) – Midland Section ACS Board meeting, MCFTA Board Room (anticipated location, in person), or via a WebEx conference call connection at [Cisco Webex Meeting - August 2021](#), phone number: 989-633-1166.
- August 22-26, 2021 (**Save the Date**) – Fall 2021 National ACS Meeting & Exposition (**Atlanta, GA and Online**). Meeting theme – *Resilience of Chemistry*. For more information, please see <https://www.acs.org/content/acs/en/meetings/national-meeting/about/future-meetings.html>.
- September 7 (7:00 – 8:00 PM) – Midland Section ACS Board meeting, MCFTA Board Room (anticipated location, in person), or via a WebEx conference call connection at [Cisco Webex Meeting - September 2021](#), phone number: 989-633-1166. **Please note: This Board meeting is being held on Tuesday evening, not the usual Monday evening.**
- October 4 (7:00 – 8:00 PM) – Midland Section ACS Board meeting, MCFTA Board Room (anticipated location, in person), or via a WebEx conference call connection at [Cisco Webex Meeting - October 2021](#), phone number: 989-633-1166.
- November 1 (7:00 – 8:00 PM) – Midland Section ACS Board meeting, MCFTA Board Room (anticipated location, in person), or via a WebEx conference call connection at [Cisco Webex Meeting - November 2021](#), phone number: 989-633-1166.
- December 6 (7:00 – 8:00 PM) – Midland Section ACS Board meeting, MCFTA Board Room (anticipated location, in person), or via a WebEx conference call connection at [Cisco Webex Meeting - December 2021](#), phone number: 989-633-1166.

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