



The Detroit Chemist

April 2024

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Career Development Workshop!

Saturday, May 18, 2024, 9:00 – 12:00

University Detroit Mercy

Seasoned professionals will be available to help you...

- Develop a strategy for your Job and Career Search
- Resume Review and Mock Interviews
- Speed Elevator-Speeches

Refreshments to be served!



2024 Skills Beyond the Bench: Navigating Success and Wellness in times of Transition

Save the Date • Registration coming soon

Regardless of your career path in the chemical sciences, barriers will arise to challenge you. These barriers may be in the form of physical and mental health obstacles or difficult decisions regarding which career or promotion path to take. How do you decide what is best for you and your family? Our panel of speakers from area industry and academia will discuss how they have been able to define their own success in the face of these challenges.

Networking • Individual Stories in Success • Panel Discussion

hors d'oeuvres and mocktails served

Friday, April 12th • 4:00-6:00 • University of Michigan-Flint

Questions? Please contact Jessica Tischler, jtisch@umich.edu



ACS
Chemistry for Life®

NOBCCChE™
National Organization for the Professional Advancement
of Black Chemists and Chemical Engineers

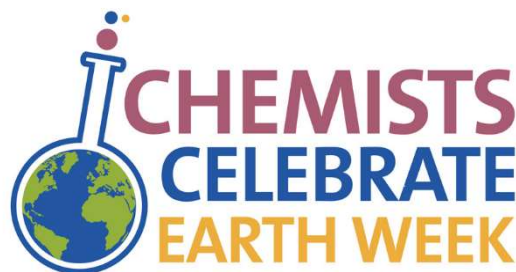


ACS Local Section
Detroit

Jim Landis, Editor

Connecting our diverse community through our love of chemistry

Chemists Celebrate Earth Week (CCEW) Workshop



To promote the positive role that chemistry plays in the world, ACS established the Chemists Celebrate Earth Week (CCEW) public awareness campaign. During CCEW, ACS members and chemistry enthusiasts celebrate by coordinating events and communicating the importance of chemistry.

Celebrate batteries and their role in creating a more sustainable world during April 21-27, 2024, which is Chemists Celebrate Earth Week.

This year is all about batteries. Batteries have the power because they can accept energy from alternative energy sources such as solar, wind, and hydropower, then store it in chemical bonds. Anywhere and anytime we want, batteries release electrical energy. Today, batteries are an indispensable part of our world. We use them in devices, such as remote controls, wheelchairs, hearing aids, cars, mobile phones, laptops, bike lights, and more.

Did you know that by 2025, the global EV (electric vehicle) market is expected to be valued at \$567 billion? Innovations in battery design and efficiency for the entire lifecycle of batteries will protect our environment even more. Get a Charge out of Chemistry as you learn about batteries and their impact on our everyday lives!

On Saturday, April 20, the Detroit Section will celebrate Earth Week with a family workshop from 10:00am-3:00pm at the Livonia Ford Field and Veterans Park (off Farmington Rd between 5 Mile Rd and I-96, *see map on page 3 below*). Bring your own lunch, if desired. This event will include Kid-oriented battery demonstrations and experiments. A special model rocketry make-and-launch workshop: **"Why, Yes, Chemistry IS Rocket Science!"** will also be included. In the model rocketry activity, we'll learn the chemistry of model rocketry, and attendees will be able to build a simple model rocket, decorate it and then launch it. Robert Alway, a retired chemist out of Kalamazoo, will give a presentation on model rocketry.

Robert Alway has given over a dozen events for the boy scouts and elementary schools. He is a member of many model rocketry organizations including SMASH rocketry (Southwest Michigan Association of Spacemodeling Hobbyists, section #500 of NAR, National Association of Rocketry). He is the current senior advisor for smash rocketry (<http://www.smashrocketry.org/>). He has participated in contest rocketry at local, regional, and sometimes nationally. Robert and his brother Peter have a patent for "Rocket with backwards gliding recovery" and Peter has authored several rocketry books.



Chemists Celebrate Earth Week (CCEW) Workshop

To sign up for the CCEW/Model Rocketry workshop, please fill out the form that can be found at:

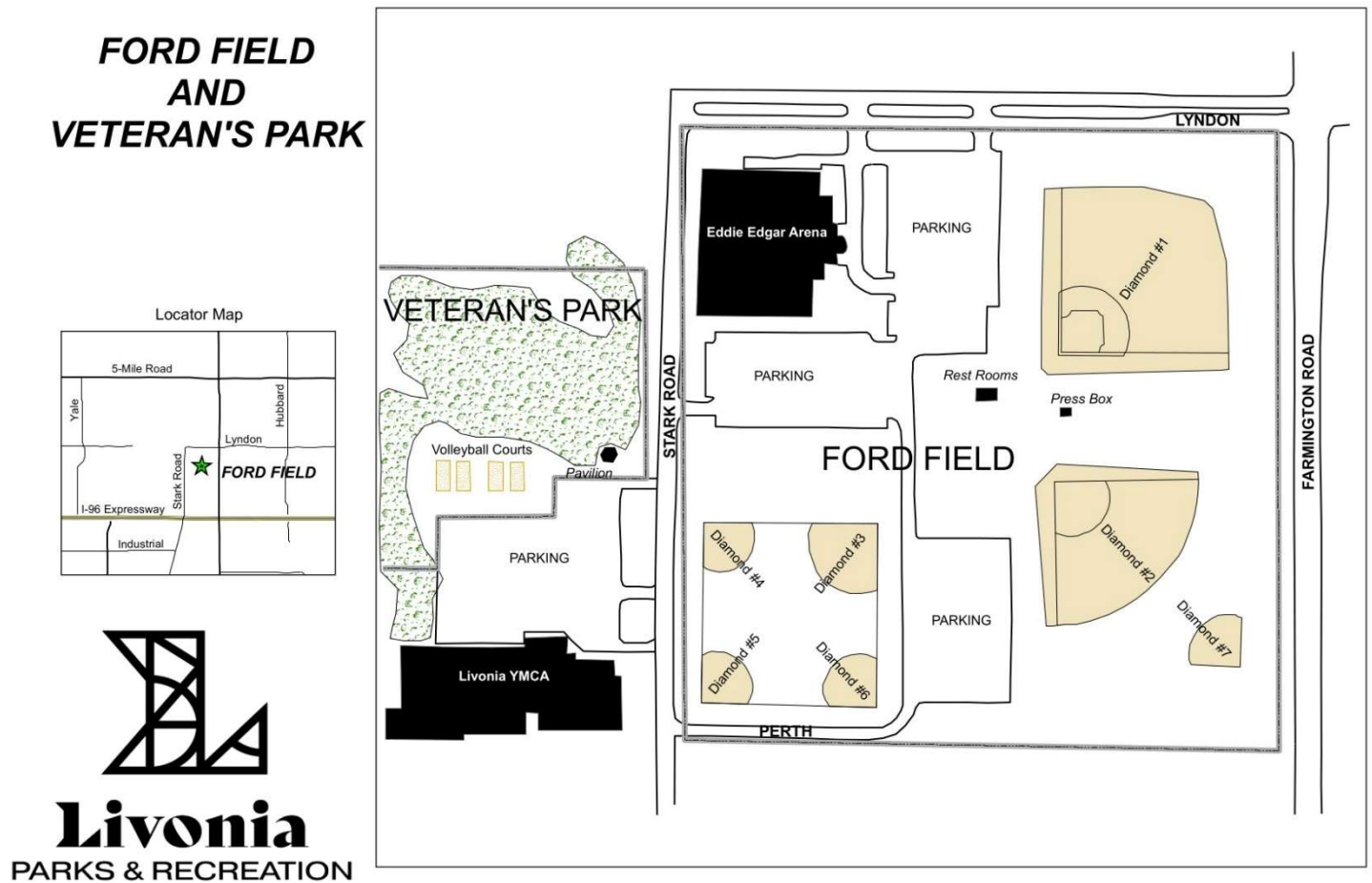
<https://forms.gle/KsZjyg5hNBFZoDaA8>

Due to time and safety considerations, the number of rockets that can be launched at the event is limited to adults and children 9 years old or older, so reservations with a refundable \$5 fee for the rocket make and launch activity will be required for each rocket built.

Note that in case of rain the event will be postponed until Sunday, April 21.

For any additional questions email: Jim Landis: jlandis@home.msen.com

or Carmen Folk: cmlfolk@gmail.com



Project SEED

Dear ACS Detroit Community,

Detroit ACS is now accepting student applications for PAID (\$4000) summer research fellowships. This year the Detroit Local Section is sponsoring four research fellowships for 8–10 weeks in the Department of Chemistry at Wayne State University. **Applications close on April 3, 2024.** Students currently in grades 10 or 11 with at least one year of chemistry are encouraged to apply. Students must also qualify financially as described on the Project SEED website. Please share this opportunity with anyone who may be interested or can share this with high school students.

For full eligibility requirements and to apply:

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

For questions on this year's program, please reach out to the 2024 Project SEED Coordinator:
Ms. Sue White,
saw@wayne.edu

Best regards,
Sue White
Chair and Project SEED
Coordinator
ACS Detroit

Project SEED



ACS Project SEED
Chemistry for Life®

ABOUT:

Project SEED is a summer fellowship program for high school students. Students spend 8-10 weeks in a lab working on a project with a mentor and additional lab members.

BENEFITS:

- Paid fellowship (\$4,000)
- Hands-on research experience in a lab
- Great addition for your resume and college application
- Scholarship opportunities for college (\$5,000 - \$20,000 in scholarships over 1–4 years)
- **Research in the Chemistry Department at Wayne State University, Detroit, MI**

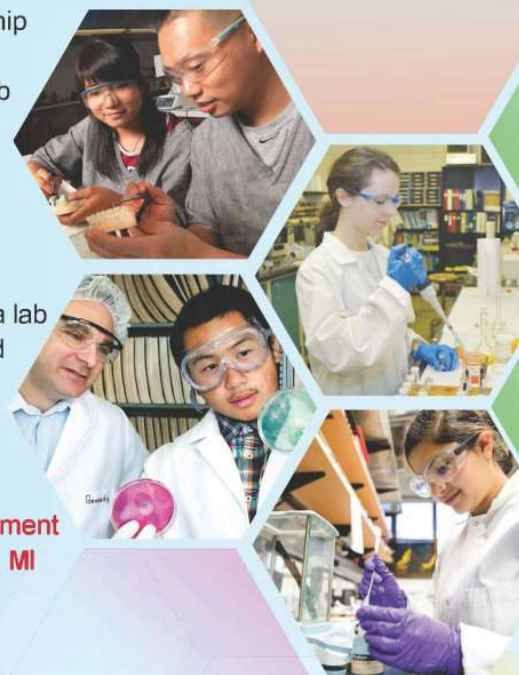
ELIGIBILITY:

- Interest in chemistry/science
- Qualify as low-income based on the program criteria (refer to our website for more information)
- Successfully completed at least one course of high school chemistry

APPLICATION OPENS:

February 13–April 3, 2024

Website: For more info on program dates, eligibility criteria, and to apply visit www.acs.org/projectseed or contact Sue White, saw@wayne.edu.



BREWING CHEMISTRY

American Chemical Society – Detroit Local Section – Younger Chemists Committee *Presents:*



Brewing Chemistry is a monthly lecture series. These informal talks are designed to make science fun and accessible for all.

Sturgeon Recovery in the Detroit River

Justin Chiotti, Fish Biologist, U.S. Fish and Wildlife Service

Tuesday, April 16, 2024

7pm presentation

An evening of libations, edible delights and science inquiry

There is no admission charge, and free parking is available.

Feel free to join us before the talk at 6:00 PM for a Dutch-treat dinner.



Maverick's | in the enclosed covered patio | 20970 West Rd, Woodhaven, MI 48183

The U.S. Fish and Wildlife Service, in partnership with Michigan Sea Grant, conducts Sturgeon recovery research. Join Justin Chiotti on a discussion of the Lake Sturgeon recovery being conducted in the St. Clair – Detroit River System.

“The Detroit River and the St. Clair River do more than just connect the upper Great Lakes to the lower Great Lakes. While most people know the Detroit River and St. Clair River — referred to collectively as the Huron-Erie Corridor — as major commercial waterways used to support shipping and fishing. But this 32-mile connecting channel has another distinction: until the late 1800s, the corridor was an important spawning ground for lake sturgeon. Its fast-moving waters attracted thousands of the large, primitive fish every spring.

In the following decades, the number of lake sturgeon plummeted due to pollution, over-harvesting and loss of spawning habitat. The current population of lake sturgeon in Michigan is estimated to be about 1 percent of its former abundance. Organizations like Michigan Sea Grant and the U.S. Geological Survey are working to restore lake sturgeon and other native fish habitat in the waters of the Detroit River.” – from Michigan Sea Grant – partner in the Sturgeon Recovery Effort



Please RSVP for a headcount

<https://forms.gle/u5Kf3kv6mVPisnDg8>

Brewing Chemistry: Upcoming Events

American Chemical Society – Detroit Local section
Younger Chemists Committee

7 PM, Every 3rd Tuesday of the Month

Companion Planting

by Linda Simpson
Macomb County Master Gardening
Association, MSU extension

Tuesday, May 21, 2024
7:00 pm presentation

O'Mara's Irish Restaurant | 2555 Twelve Mile Rd, Berkley,
MI 48072

Connect with us on Facebook for Event updates: <https://fb.me/e/3YIzPTDRQ>



Facebook: Brewing Chemistry
Instagram: @BrewingChemistry
Twitter: @Brewingchem



Walker L. Cisler Lecture

Lawrence
Technological
University

COLLEGE OF
ARTS AND
SCIENCES

AN ORGANIC CHEMIST'S ROLE IN THE ELUCIDATION OF THE ENDOGENOUS EXPOSOME

WALKER L. CISLER LECTURE 2024

Amanda Bryant-Friedrich

Dean, Wayne State University Graduate School
Professor of Pharmaceutical Sciences
Past Chair, Medicinal Chemistry Division, American Chemical Society

Tuesday 4|16|24

6 p.m. - Reception

7 p.m. - Lecture

Mary E. Marburger Science and
Engineering Auditorium S100

LTU's annual Walker L. Cisler lecture is dedicated to the improvement of science education and is generously supported by the Holley Foundation.



See next page for more details

Walker L. Cisler Lecture

AN ORGANIC CHEMIST'S ROLE IN THE ELUCIDATION OF THE ENDOGENOUS EXPOSOME

Dr. Amanda Bryant-Friedrich

Dean, Wayne State University Graduate School

Professor of Pharmaceutical Sciences

Past Chair, Medicinal Chemistry Division, American Chemical Society

Abstract:

Organic chemistry plays a critical role in the understanding of disease etiology and of course the treatment of disease. I have had the opportunity to gain knowledge, experience and perspectives from excellent researchers in three countries. This training has brought me to tackle the many questions still existing surrounding the connection between human genetic makeup and health. One area of interest that has evolved to answer these questions is the study of the "exposome." The exposome has been defined as the measure of all the exposures of an individual in a lifetime and how these exposures relate to health. When we think of this concept, it is easy to begin to catalogue the many chemical entities encountered by an individual through the body's exogenous environment, but what about the endogenous environment? The biological mechanisms that dictate life processes produce a multitude of chemical entities that can be catalogued as the endogenous exposome. These substances come in the form of reactive oxygen and nitrogen species, sugar fragments, nucleic acid damage products and lipid oxidation products. Through the use of organic chemistry heavily supported with analytical chemistry, our laboratory has developed a toolbox for the identification of biological molecules that can be attributed to the internal exposome. This work is based on the use of site specifically modified substrates that can be photochemically activated under biologically relevant conditions to decompose to small molecule fragments which are by-products of cellular respiration, metabolism and aging just to name a few. In this presentation the creation and utilization of this toolbox will be described.

Would You Like Be On An ACS National Committee?

Dear ACS Colleague:

It is time to begin the process of making appointments to ACS Council-related committees for 2025. If you are interested in serving on an ACS Committee, the [online committee preference form](#) for committee assignments is the key way to let us know your committee preferences, your background and your interests.

The online preference form will be open March 1 thru July 1, 2024 at

<http://www.cmte.acs.org>.

When assembling recommendations for appointments by the ACS President and/or Board Chair, and the Committee on Committees (ConC) seeks to identify and involve individuals from across the Society. Members with a wide range of experiences, backgrounds and perspectives helps ensure that ACS remains relevant, innovative, and effective. Therefore, we are also encouraging local section and divisions officers to circulate the online preference information throughout their membership to encourage participation in the Society through committee service.

All submissions from the preference form are reviewed by ConC as it develops recommendations during the ACS Fall Meeting. ConC only makes the *recommendations* for committee appointments and reappointments. The ACS President and/or Board Chair, both individually and jointly, review the recommendations and make the actual *appointments* in late fall. Although not all can be appointed to committees, I can assure you that you will receive thorough consideration for an assignment.

As a reminder, your ACS membership must be in *good standing* to complete your committee preferences. Please make a committee preference only if you feel that you can attend and actively participate in a committee's meetings either virtually or in-person. **ACS committees are working committees; attendance (virtually or in-person) and participation at committee and subcommittee meetings are important.**

If you experience any problems or need assistance during this process, please contact the Office of the Secretary at secretary@acs.org. Thank you in advance for your cooperation, and for all your efforts on behalf of our Society. Sincerely,

Brian Mathes, Chair

ACS Committee on Committees (ConC)

SCHEDULE OF UPCOMING ACTIVITIES

Date	Arranging Group	Program	Presenter	Location	Time
2024					
April 1	Carmen and Alicia	Detroit Science Book Club	Meeting #6, Group Discussion	Virtual, Google Meet	6:45pm chit chat, 7:15pm discussion
9 April	EC	Detroit ACS Executive Committee Meeting	Chair Sue White	WSU	7-8pm
12 April	WCC/NOBCCHE	Skills beyond the Bench (see page 1 for details)	Jessica Tischler	UoM-Flint	4-6pm
16 April	YCC	Brewing Chemistry: Lake Sturgeon Recovery	Justin Chiotti, Fish Biologist, U.S. Fish and Wildlife Service	Maverick's in Woodhaven	6pm Dinner 7pm Presentation
18 April	USNCO	National Exam for Chemistry Olympiad	see Mark DeCamp	N/A	N/A
April 20/ (Rain date: April 21)	ACS and Rocketry Volunteers	Chemists Celebrate Earth Week: Battery and Model Rocket Educational and Social Event (see pages 2-3 for details)	Robert Alway	Livonia Ford Field and Veterans Park	10am-3pm
14 May	EC	Detroit ACS Executive Committee Meeting	Chair Sue White	WSU	7-8pm
18 May	Career Services with aid from Mark Benvenuto & YCC	Career Event: about how to get jobs, how to be effective in them once a person has a job, one-on-one resume & CV guidance	Heinz Plaumann, Mark Benvenuto,	UDM	9am-12
21 May	YCC	Brewing Chemistry: Companion Planting	Linda Simpson, Master Gardener	O'Mara's Restaurant in Berkley	6pm Dinner 7pm Presentation
June 1/ (Rain Date: June 8)	ACS and Rocketry Volunteers	Model Rocket Educational and Social Event	Robert Alway	Livonia Ford Field and Veterans Park	10am-3pm
June	Carmen and Alicia	Detroit Science Book Club	Meeting #7, Group Discussion	In-person, TBD	6:45pm chit chat, 7:15pm discussion

SCHEDULE OF UPCOMING ACTIVITIES

Date	Arranging Group	Program	Presenter	Location	Time
18 June	YCC	Brewing Chemistry: Latine Undergraduate Students' Science Identity Formation	Danielle Maxwell, Ph.D. Candidate in Chemistry, University of Michigan	O'Mara's Restaurant in Berkley	6pm Dinner 7pm Presentation
16 July	YCC	Brewing Chemistry: Chemistry Moth?		O'Mara's Restaurant in Berkley	6pm Dinner 7pm Presentation
TBD July?	EC	Annual Ice Cream Social, Meet the Leadership	EC committee	Clark's Ice Cream in Berkley	6-9pm?
20 August	YCC	Brewing Chemistry: Show and Tell?		O'Mara's Restaurant in Berkley	6pm Dinner 7pm Presentation
10 September	EC	Detroit ACS Executive Committee Meeting	Chair Sue White	WSU	7-8pm
September	Carmen and Alicia	Detroit Science Book Club	Meeting #8, Group Discussion	In-person, TBD	6:45pm chit chat, 7:15pm discussion
17 September	YCC	Brewing Chemistry: TBD		O'Mara's Restaurant in Berkley	6pm Dinner 7pm Presentation
8 October	EC	Detroit ACS Executive Committee Meeting	Chair Sue White	WSU	7-8pm
15 October	YCC	Brewing Chemistry: TBD		O'Mara's Restaurant in Berkley	6pm Dinner 7pm Presentation
TBD, Saturday in Fall	Career Services with aid from Mark Benvenuto & YCC	Career Event: TBD, one-on-one resume & CV guidance	Heinz Plaumann, Mark Benvenuto, academia, industry volunteer	UDM	TBD
TBA November	Minority Affairs	Girl Scout Chemistry Day	Michele Allen	First United Methodist Church of Troy (FUMC Troy)	9am-1pm
TBA November	Anachem	Annual Anachem	see Felix Schneider/Anachem	TBD	TBD

SCHEDULE OF UPCOMING ACTIVITIES

Date	Arranging Group	Program	Presenter	Location	Time
12 November	EC	Detroit ACS Executive Committee Meeting	Chair Sue White	WSU	7-8pm
November	Carmen and Alicia	Detroit Science Book Club	Meeting #9, Group Discussion	In-person, TBD	6:45pm chit chat, 7:15pm discussion
19 November	YCC				
October/November Fall 2024 Museum Meetup	YCC	Museum Meetup: Casual Networking	N/A	Dossin Great Lakes Museum	TBD
10 December	YCC	Brewing Chemistry: Field Trip			

Colors

Gray = Chair/CERM, planning meetings, National events

Yellow = YCC

Green = USNCO, Kids and Chemistry, Kids-related event

Pink = Detroit Science Book Club

Blue = General Detroit Local Section Event

Reddish/orange = Anachem

Greenish/Blue = Career Services