



# CINTACS

Cincinnati Section of the American Chemical Society

*Celebrating Over 125 Years of Chemistry in Cincinnati!*

## National Chemical Historical Landmarks in Cincinnati

The [ACS National Chemical Historical Landmarks](#) program honors chemical discoveries, innovations as well as chemists that transformed lives and our understanding of chemistry. The program, established in 1992, features more than 90 landmarks related to major chemical inventions and chemists. These landmarks honor scientists like Joseph Priestley, the discoverer of oxygen, inventions like Bakelite, the world's first synthetic plastic, and the legacy of Rachel Carson's Silent Spring. Cincinnati features two National Chemical Historical Landmarks.



### The Development of Tide Synthetic Detergent

This landmark was dedicated in October 2006. Procter and Gamble first released Tide in 1946. Tide was not only a new product but a type of laundry detergent featuring not only the technology of fully synthetic detergents but also synthetic builders, compounds which enable cleaning performance in hard water. More information on the Development of Tide Synthetic Detergent from the ACS' National Chemistry Historical Landmarks program. "The Development of Tide" commemorative booklet. (PDF download).



### The Oesper Collections in the History of Chemistry

In March 2022, the University of Cincinnati and the American Chemical Society celebrated the dedication of the Oesper Collections as a National Historical Chemical Landmark. An audience of 100 people attended the dedication ceremony. The curator of the museum, Professor Emeritus William Jensen gave a talk describing the life of UC Professor Ralph Oesper who not only started the collection of rare books and journals but also left endowments supporting scholarships in chemistry.

Read a [report on the event celebrating the dedication on the University of Cincinnati website](#).



*The curator of the museum, Prof. emeritus William Jensen next to a bust of Antoine Lavoisier, considered the founder of modern chemistry.*

## Chemistry Highlights



April 28th  
Northern Kentucky University  
Ball Room, Student Union

Join us for an exciting evening recognizing a range of achievements and fun chemical demonstrations. We will recognize Greater Cincinnati students who excelled in the Chemistry Olympiad and Science Fairs with Chemistry related projects, Cincinnati Science and Chemistry K-12 Educators, and local long term ACS members.

You will have a chance to see demonstrations from this year's Chemists Celebrate Earth Week Event: "The Buzz about Bugs" (see below).

For more information and to register for in person or remote (Zoom) attendance, please click [here](#).

## Chemists Celebrate Earth Week

### THE BUZZ ABOUT BUGS:

insect chemistry #ccew



### JOIN US FOR CHEMISTS CELEBRATE EARTH WEEK AND SEE FUN DEMONSTRATIONS

Be a Bee



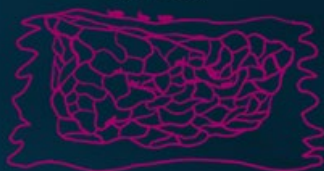
The Beauty of Butterflies



Lightning Bug Flashlights



Termites:  
Snacking on  
Wood?



Striders:  
Walking on  
Water?



Taking the Sting  
out of Bites



→April 22nd from 10 am-4 pm at the STEM lab  
of the Cincinnati Museum Center

→April 23rd from 12 pm-5 pm at Summit Park

[WWW.ACSCINCINNATI.ORG](http://WWW.ACSCINCINNATI.ORG)

The theme of this year's Chemists Celebrate Earth week event is "The Buzz Around Bugs: Insect Chemistry."

Our local Section will be present with chemical demonstrations at the [Greater Cincinnati Earth Day Celebration](#) at Summit Park in Blue Ash on April 23rd from 12pm-5pm.

You will also have an opportunity to see these chemical demonstrations in the on April 22nd from 10am-4pm at the STEM lab of the Natural History and Science Museum of the Cincinnati Museum Center.

You can find additional educational resources including activities for kids and general interest resources for college students and adults at the [ACS Chemists Celebrate Earth Week page](#).

## Analytical Discussion Group



Dr. Yao Wu, Johns Hopkins University: "Advances in Real-time Molecular Monitoring"  
Wednesday, April 20th, 12-1pm on Zoom

Join us for a Discussion Group in Analytical Chemistry Discussion Group focusing on "Advances in Real-time Molecular Monitoring". The ability to continuously monitor the concentration of specific molecules in the body is a long-sought goal of biomedical research. For this purpose, interstitial fluid (ISF) was proposed as the ideal target biofluid because its composition can rapidly equilibrate with that of systemic blood, allowing the assessment of molecular concentrations that reflect full-body physiology. In the past, continuous monitoring in ISF was enabled by microneedle sensor arrays. Yet, benchmark microneedle sensors can only detect molecules that undergo redox reactions, which limits the ability to sense metabolites, biomarkers, and therapeutics that are not redox active.

Our speaker, Dr. Yao Wu will present recent research efforts towards the first use of microneedle-supported electrochemical, aptamer-based (E-AB) sensors. Dr. Wu joined Dr. Netz Arroyo's group as a postdoctoral fellow in the Department of Pharmacology and Molecular Sciences at Johns Hopkins University School of Medicine, where she has been working on the development of DNA-based electrochemical sensors to monitoring wound healing and chemotherapeutic-driven tumor shrinkage, as well as microneedle aptamer-based sensors for continuous, real-time molecular monitoring.

Please feel free to invite students and colleagues, even if they are not ACS members, to attend. Register for attending via Zoom [here](#).

## At a Glance: Upcoming Events

- April 20 **Analytical Discussion Group**  
12 PM via Zoom ([register](#))
- April 22 **Chemists Celebrate Earth Week: The Buzz about Bugs Chem Demo**  
10AM - 4PM at STEM Lab of the Natural History and Science Museum,  
Cincinnati Museum Center
- April 23 **Chemists Celebrate Earth Week: The Buzz about Bugs Chem Demo**  
12PM - 5PM at Summit Park in Blue Ash, part of the Greater Cincinnati Earth Day Celebration
- April 28 **Chemistry Highlights**  
Northern Kentucky University ([more info](#))