



# ISOTOPICS

The Cleveland Section of the American Chemical Society

Volume 92 Issue 2

February 2016

## On Deck:

3/7/2016

Case Western Reserve U.

Meeting-in-Miniature

## February Meeting Notice

Wednesday, February 17, 2016

Center for Innovations in Medical Professions Building,  
Cleveland State University, E. 21<sup>st</sup> Street and Euclid Avenue,  
Cleveland

4:30 – 5:30	Executive Committee Meeting
5:30 – 6:15	Social/Networking
6:15 – 7:00	Dinner
7:00 – 8:00	Presentation

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### An Interactive Joint Meeting with ACS Perú, Lima, Peru

Cleveland has 22 sister cities around the world. One of them is Lima, Peru. Recently, the American Chemical Society approved a Peru International Chemical Sciences Chapter (known locally as ACS Perú) of the ACS, one of only 16 international chapters of the ACS so far. So, in what may be a first for ACS, the Cleveland Chapter is going to have an online introduction to our Peruvian colleagues in Lima as a way to reach out and welcome them. Once an internet connection has been established, each side will have 20 – 30 minutes to introduce each other. Hopefully, this outreach can be the beginning of a relationship that can help our Peruvian colleagues make their new chapter a long-term success! For those unable to attend, an opportunity to watch the interaction through live streaming should be available.

### DINNER RESERVATIONS REQUIRED:

Please RSVP to Dr. David Ball at [d.ball@csuohio.edu](mailto:d.ball@csuohio.edu) with the names and number of people in your party by 3:00 p.m. on Friday, February 12. A baked potato bar, with veggie and non-veggie toppings, will be offered. We now can take credit card payments, checks made out to “Cleveland ACS,” or cash. \$20 for members and guests, \$10 for retirees or unemployed, \$5 for students.

#### Cleveland Section Web Site:

[http://www.csuohio.edu/sciences/dept/cleveland\\_acs/](http://www.csuohio.edu/sciences/dept/cleveland_acs/)

## Directions and Parking:

Directions: The meeting will be held in the new Center for Innovations in Medical Professions (CIMP) building on the campus of Cleveland State University. The building is located on the southwest corner of the intersection of E. 21<sup>st</sup> Street and Euclid Avenue in downtown Cleveland.

Park in the South Garage (SG), entrance located off of East 21<sup>st</sup> Street or Carnegie Avenue. Take a ticket to get into the Garage, but be sure to get a validation QR code at the meeting so you don't have to pay for parking. Otherwise, you will have to pay to exit the Garage. The CIMP building is on the other side of the bus terminals, to the north of the Garage.



## Meeting-in-Miniature (MIM) 2016: Call for Abstracts

2016 Meeting-in-Miniature (MIM) of the ACS Cleveland Section will be held on Monday, March 7<sup>th</sup> at Case Western Reserve University, Cleveland. MIM provides a great opportunity for undergraduate and graduate students,

postdoctoral research fellows and industry professionals to present their chemistry research, and to network among the scientific community. By preceding the ACS Spring National Meeting and Exposition, MIM serves as a platform for Cleveland ACS presenters to sharpen their presentation skills in preparation for the ACS National Meeting. In an effort to expand the breadth of chemistry research showcased at MIM 2016, the organizers are looking forward to bringing aboard students from a number of community colleges, and researchers from area industries.

The half day program of MIM 2016 starting early afternoon will accommodate oral presentations of 15min and 5min questions by audience in each of its sections. Graduate and undergraduate presentations will be recognized with certificates and may be eligible for monetary awards. MIM 2016 Plenary Lecture, "Everybody Learns Russian Organic Chemistry", will be delivered by Prof. David E. Lewis of the University of Wisconsin – Eau Claire.

Submission of abstracts is now open. The registration is free for this event. Please limit your abstract to 250 words and include names and affiliations of all authors. Abstracts should be submitted through the online submission system; <http://goo.gl/forms/EQCo7TRkXC>. The deadline for submission is Feb. 29<sup>th</sup>.

MIM 2016 couldn't have come at a more exciting time for all chemists, as we celebrate a major milestone; the completion of seventh period in the periodic table of elements. Days before the dawn of 2016, the International Union of Pure and Applied Chemistry (IUPAC) announced the verification of discoveries of several elements, including the 118<sup>th</sup>, completing the seventh period.

## Call for Nominations: Heller Award

*Irene C. Heller Award Presented to an Outstanding High School Chemistry Teacher by the Cleveland Section of the American Chemical Society*

Annually, the Cleveland Section of the American Chemical Society sponsors an award to recognize an outstanding high school chemistry teacher in the Cleveland Section. The award consists of an honorarium of \$1,000 and a framed certificate; and is named for Irene Heller of North Olmsted High School in recognition of her contributions as an outstanding high school chemistry teacher and her service to the Cleveland Section.

The nomination package should include (1) a letter of nomination and (2) a detailed curriculum vita. The letter of nomination should highlight these significant contributions. The nominations should consist of information on the candidate's education, professional experience and activities, awards and honors, offices held and specifics on significant contributions.

All nominees must be sponsored by at least one member of the Cleveland Section. If you do not know a local section ACS member willing to serve as Champion for your candidate, contact Jeff Mathys who will provide one for you. The Cleveland Section is geographically defined by the counties of Cuyahoga, Geauga, Lorain, Medina, Huron, and Erie. Electronic nominations using Word or PDF Files should be mailed to [jamathys.family@gmail.com](mailto:jamathys.family@gmail.com) by March 15, 2016.

The award will be presented at the April, 2016 meeting of the Cleveland Section.

### **Volunteers Needed: NEOSEF ACS Special Awards Judges**

Every year, your ACS local section gives special awards to outstanding students in grades 7-12 who participate in the Chemistry Category at the Northeastern Ohio Science and Engineering Fair (NEOSEF). To select the award winners amongst ~100 projects, we need volunteer judges with a minimum of a Bachelor degree in Chemistry. Judging involves talking with the

students, which is very rewarding. This year, NEOSEF is at Cleveland State University March 15, 2016. The time commitment is a few hours in the afternoon (2:30 pm – 6 :00 pm), If you are interested in judging, please contact Genevieve Sauve at [genevieve.sauve@case.edu](mailto:genevieve.sauve@case.edu).

### **From ACS Discoveries: Toward consistently good pinot noir** *Journal of Agricultural and Food Chemistry*

The grapes used to make pinot noir are known to be literally and figuratively thin-skinned. They're highly sensitive to their environment, making it difficult for growers to determine their quality at harvest time. To get a better handle on the finicky fruit, scientists have now figured out how the grapes' aroma profile changes as they ripen. Their report appears in ACS' Journal of Agricultural and Food Chemistry.

As any wine connoisseur knows, aroma is a critical component to a vintage's quality. It changes as a grape matures, and ultimately, the blend of aroma-related compounds when the fruit is plucked from the vine determines how good the resulting wine is. But the current analytical techniques used to tell whether a wine grape is ready to be picked rely on sugar content and acidity. Michael C. Qian and Fang Yuan wanted to develop a way to determine maturity based on aroma.

The researchers identified 49 main odor compounds in young and ripe pinot noir grapes from two consecutive years, 2012 and 2013, using a technique called gas chromatography mass spectrometry. Of those, four were consistently found in mature grapes. Their results could help growers figure out the best time to harvest their crop and ensure its quality.