

ACS – Northeast Wisconsin Section

American Chemical Society

September 2011

Reaching Out

Once again we find ourselves in the beginning of a new semester and as September rolls in, it seems summer has packed up and left for an out of state school.

Our local ACS section is a good one, covering a broad geographical area that is home to many educational institutions with chemistry programs. We make efforts to rotate our meetings and many colleges and universities have graciously hosted our meetings. As we plan for the future we hope to continue that tradition, and become even more involved in our chemical community. We would like to collaborate more on student poster sessions, host some industrial events, and get more involved at the high school level. Indeed we will co-host a seminar in October with Chemshare, a science teacher affiliation in the Appleton area. We are also working with other ACS sections in the state to bring exciting tour speakers to the area.

On that note, we have the privilege of a presentation by Dr. Glenn Roy of PepsiCo, an interesting presentation on the simulation of taste for food development. See below for details; I'm looking forward to a great meeting.



Corey Cunningham – Chair

◆ **September 2011 Section Meeting**

Glenn Roy Ph.D.

PepsiCo

**The Electronic Tongue: A Taste
Sensor for Ingredient Screening**

Wednesday, September 21st at 6:30 pm
Lawrence University
Steitz Hall 102



[Map](#)

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Dr. Glenn Roy – “The Electronic Tongue: A Taste Sensor for Ingredient Screening”

The electronic tongue (an in vitro taste sensor) has been utilised to screen numerous chemical classes of literature-reported bitterness inhibitors when added to the bitter after-tasting sweeteners acesulfame (Sunette brand) or saccharin in a low pH carbonated or non-carbonated beverage model. Multivariate Statistics of the beverage model with additives provides Principal Component Analyses and Discriminant Factorial Analyses compared to reference standards of good, better, and best bitter-reduced model beverages. These analyses illustrate the quantitative inhibition effect of the bitter aftertaste. In certain cases where tasting is legally permitted, there is a defined positive sensory correlation to the device's interpretations of bitterness inhibition. We believe we have a high throughput screening assay (assessment tool) for evaluating potential new bitterness inhibitors when employing Soft Independent Modeling of Class Analogy (SIMCA) to quantify specific characteristics of new lead compounds. Appropriate toxicology and regulatory procedures may permit human sensory evaluations to confirm the absolute utility of the device.

Lawrence University Chemistry Department Welcomes New Faculty

Christopher Morong joins St. Norbert College as a visiting assistant professor of chemistry. Christopher earned his Ph.D. and M.S. from the University of Chicago, and his B.S. from the Illinois Institute of Technology. Most recently, Christopher served as an adjunct instructor of chemistry at the Dominican University.

UW-Oshkosh Chemistry Department Welcomes New Faculty

Margaret Schuelke joins the UW-Oshkosh Chemistry Department as a Research Specialist, and Chih Tsai, (Ph.D., Montana State University) will find opportunity as a Research Associate.

UW-Oshkosh to Add Faculty

UW-Oshkosh is pursuing an assistant Professor of Biochemistry for 2012 ([link](#)). Brush up your resume.

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ON THE WEB

What Motivates You?

O.K., not chemistry, but indeed people and organizations “do” chemistry. Here is a brief [video](#) that reminds us why we do science.

MIT Technology Review

The MIT Technology Review [website](#) is an excellent site for contemporary topics in science. Enter ‘chemistry’ into their search box for recent chemistry topics.

Free Webinars from ACS

The American Chemical Society offers on their website many [webinars](#). Past webinars are archived and available for free on demand.

Take the Periodic Table Quiz!

Can you fill in the Periodic Table? Of course not, but that doesn’t mean you shouldn’t give it a try. Take the [Periodic Table Quiz](#) (you’ll need Microsoft Excel). You can enter up to 20 ‘cheats’ to help you along. Let me know if you have improvements, I put it together myself!

Northeast Wisconsin Section Newsletter

Do you have items to share? Put it in the newsletter! Send an [email](#) and we’ll be glad to get it in print.

<http://newisc.sites.acs.org/>

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