

# American Chemical Society – Kalamazoo Local Section Newsletter

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## Ink

John H. Engelmann

Soon our students are going back to school. Soon they will be listening to teachers, going to the library and writing things. Many of the final copies of their writing efforts will be printed using laser jet printers. These printers use a Xerographic process which does not involve inks.



John H. Engelmann, Ph.D.  
(KACS Chair)

However, printed materials the students use in their studies involve inks. In addition, the students may write notes about the lectures which they attend, and the references which they read. These notes may be written using graphite pencils, but in many cases they are written in ink. Thus, even in this digital age, ink plays a large part in education. There are many varieties of inks. There are fountain pen inks, ballpoint pen inks, roller ball inks, printer inks, colored inks and, of course, the traditional black ink. The most ancient inks are black inks. Ancient Chinese inks used soot and collagen from animal sources. In India similar carbon based inks were used. Inks based upon carbon black and gelatin are still on the market today under the name "India Ink."

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### 2014 KACS Executive Officers

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Do you have questions, comments, or would like to contribute to this newsletter?  
Send an email to: [ACSkzoo@gmail.com](mailto:ACSkzoo@gmail.com)

# Miscellaneous

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Colored inks may be based upon soluble dyes or pigment particles. The soluble dyes are soluble in the carrier, and once the ink is applied to the paper, the carrier evaporates, and the ink remains in the substrate. This is fine unless the substrate becomes wet and the dye migrates. In general dye inks are not as stable as pigment inks, although in recent years dye inks have improved. Pigments are solid colored particles suspended in a carrier. They can be very stable although they provide a smaller color pallet than dye inks. So as the new school year starts let the ink flow.

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## Second and last (?) call for volunteers for our 2015 National Chemistry Week (NCW) outreach event - Chemistry Day at the Kalamazoo Valley Museum

By Lydia Hines

National Chemistry Week is creeping up on us as September approaches! The Week itself is October 19-25 but our annual outreach event at the Kalamazoo Valley Museum will be on **Saturday, October 11, from noon to 4 p.m.** This year's theme is "**The Sweet Side of Chemistry – Candy**" and our hard-working collaborator at the Museum, Annette Hoppenworth, is looking forward to the successful execution of this immensely popular program for the 28th time! A sincere Thank You to the six individuals who have already said they would help, but we truly need many more! Adults as well as the children become active learners at the activity smorgasbord, and they all appreciate the written information which they take to their homes and their schools for encouragement in their science learning - inquisitive and truly curious patrons and happily engaged presenters make for a great experience.

To volunteer for the event please contact **Lydia E. M. Hines** at [lemhwgh@gmail.com](mailto:lemhwgh@gmail.com) or **269-375-7349**; if you are at a loss for an activity, she has a list she can send you, and she can train you in an activity of your choice. We count on you to volunteer your time and engaging disposition for its success again this year. Thank you!

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## 248<sup>th</sup> ACS National Meeting and Exposition

By Lydia Hines

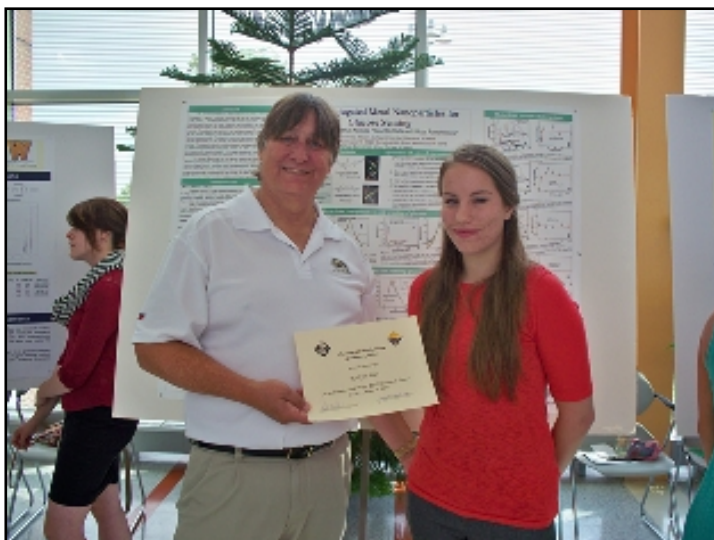
To learn more about recent ACS news and plans, you may read our Councilor's, Lydia E. M. Hines', written report from the recent Council meeting in San Francisco on the website, [KalamazooACS.org](http://KalamazooACS.org)

# Project SEED Student Posters

By Lydia Hines (with photos by Fayth H. Moore)

Over two summer months our KACS, once again under the leadership of Dr. Donald Schreiber of WMU, helped to support the research engagement of 2 SEED [Science Experience for the Economically Disadvantaged] students from high schools in our Local Section's geographic area. **Kathryn Way**, a junior from Comstock High School, worked in the laboratory of **Dr. Ramakrishna Guda**, and **Ixtlazihuatl Soto**, a senior from Loy Norrix High School, studied in the lab of **Dr. Gellert Mezei**; both mentors are faculty in the chemistry department at WMU and we appreciate their generous contribution to our students' growth as aspiring scientists.

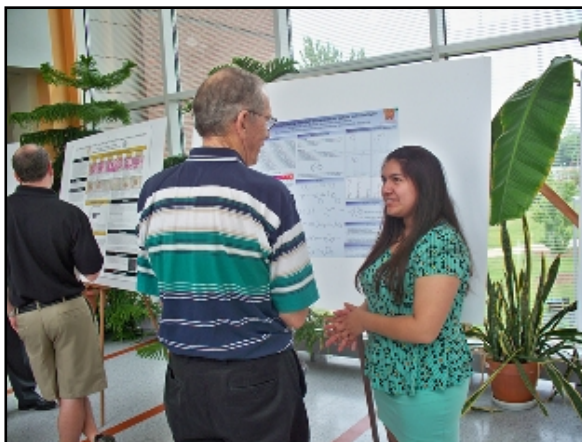
Each of these 2 students prepared a poster and responded to visitors' queries concerning their work, from 10 a.m. to 12 noon on Wednesday August 6, 2014 in the Haenicke Hall atrium on the WMU campus. Several KACS members came by to visit with these students; Kathryn, a junior, anticipates being back next year, and Ixtlazihuatl is now enrolled at Northern Michigan University to study criminal justice/forensics and, because of her summer experience, thinks she may also major in chemistry!



Dr. Donald Schreiber presenting Kathryn Way her participation certificate



Dr. Donald Schreiber presenting Ixtlazihuatl Soto with her participation certificate



A KACS member chats with Ixtlazihuatl Soto.

# Upcoming Events

## Tuesday, September 23

A Reminder about the talk on “**Who pays for safety failures in the Chemistry Laboratory?**” by **Dr. Ken Fivizzani**, which will be held in the lecture hall of the Dow Science Building on the Kalamazoo College Campus at 6:00 p.m. on Tuesday, September 23. Dr. Fivizzani, has also offered his time and expertise from 4:30-5:30 p.m. to meet in a “roundtable discussion” with students (graduates and undergraduates) who would want to speak with him about the variety of career options available to those with chemistry degrees. Please avail yourselves of these opportunities and show our guest your appreciation.

## Saturday, October 11

Chemistry Day at the Kalamazoo Valley Museum, October 11, 12-4 p.m. This year's theme is “**The Sweet Side of Chemistry – Candy**”. Hands-on activities, take-home science fun information for anyone ages 2-102.

## Thursday, October 23

We will be having another Science Café, this time on the theme of Art! Mark your calendars for Thursday, October 23 (mole Day), our speaker will be **Mr. James Engelmann**, Exhibition Designer, Cleveland Museum of Art, on “**Chemistry in Art – Paintings, Materials, Restoration and Forgery**”. Invite any friend or colleague interested in the subject. Location and time TBA.

## Early November

Recycle-a-Poster at Bell's Eccentric Café. Look for more information in the next newsletter.

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## Joint Great Lakes Central Regional Meeting

By Lydia Hines



On May 27-30 of 2015 the Great Lakes and Central Regions of the American Chemical Society have the privilege of hosting a Joint Regional Meeting at the Amway Grand Plaza Hotel and DeVos Place in downtown Grand Rapids, Michigan. Capitalizing on the interests in our geographic area, the three **focus themes** chosen for the meeting are **Food, Health, Environment**.

Encompassing primarily the full states of Illinois, Indiana, Michigan, Minnesota, Ohio, North Dakota and Wisconsin this meeting offers affordable accessibility to faculty and students as well as industrial members to present their research, hear lecturers of renown and to network with other science professionals. Our plenary speaker on Wednesday, May 27, will be **Dr. Scott Denmark**, an award-winning faculty member at the University of Illinois in Urbana-Champaign.

At our website <http://jglcrm2015.com> you will find contact information so that you may get involved, register to attend the meeting, a form for submitting symposium recommendations, and forms to nominate deserving individuals for awards which will be presented at the Awards Banquet during the meeting. Please check the website regularly for updates on the preliminary program, keynote speakers, and events that will make the Joint Great Lakes-Central Regional Meeting a Grand Enterprise.



# ChemLuminary Awards

## KACS earns two ChemLuminary Awards in San Francisco

By Elke Schoffers



It was a privilege to represent our Local Section at the 16th Annual ChemLuminary Awards celebration during the 248<sup>th</sup> ACS National Meeting in San Francisco, CA, on August 12, 2014. The goal of the ceremony was to recognize local sections, regional meetings, and divisions for their efforts to promote chemistry and the chemical sciences during 2013.

The evening began with a reception during which finalists displayed posters and banners to highlight their outstanding activities being recognized. The awards presentation was opened by ACS President Tom Barton and followed by a keynote address by Dr. Robert A. Pribush (Butler University) titled "Volunteerism and the Ripple Effect – Drop a Pebble Today!" He was the recipient of the 2014 ACS Volunteer Service Award and was recognized for his exemplary volunteer efforts in the Indiana Local Section, with ACS Governance, with the ACS Exams Institute, and with Regional Meetings. Afterwards, the celebration continued on the dance floor until midnight.

A total of 17 committees identified outstanding volunteer work by 187 ACS Local Sections, 32 Divisions and 8 Regional Meetings in 2013. This year, KACS was a ChemLuminary finalist in three categories and won the coveted prize in two of them. As the designated representative, it was my distinct pleasure to walk up to the stage and accept both awards on behalf of our Local Section. Dr. David Gottfried, chair of the Committee on Public Relations and Communications, gave the first award "to recognize Local Sections for outstanding efforts in promoting chemistry to the public." The "Chemistry & Culture: Elements of Dance" event at the Kalamazoo Institute of Arts on November 1, 2013 was acknowledged as the "Best New Public Relations Program of a Local Section". It was made possible through funding by AAAS, Aldrich Chemistry, WMU President Office, WMU-BTR, and Bader Fine Arts Collection.

The second award was given by the chair of the Corporation Associates Committee, Dr. Dawn Mason, "to recognize outstanding efforts in producing an event that benefits industry members or students seeking a career in industry." Our section received it for the poster session at Bell's Eccentric Café titled "Sustainable Science – Recycle a Poster," which took place on Oct. 8, 2013 for the third year in a row. It was made possible through a generous grant from Zoetis and attended by about 100 people.

Last but not least, I would like to thank everybody who has graciously volunteered his / her time when I chaired the Local Section for two years in a row. This recognition would not have been possible without this team effort!

For a complete listing of the 2014 ChemLuminary awards and additional photos, visit <http://www.acs.org/content/acs/en/funding-and-awards/awards/community/chemluminary.html>

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# ChemLuminary Awards

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## KALAMAZOO LOCAL SECTION AWARDS:

### Committee on Public Relations and Communications

#### Best New Public Relations Program of a Local Section

"The section spearheaded a ballroom dance event for the public with the Kalamazoo Institute of Arts. The mayor of Kalamazoo served as the Master of Ceremonies and a total of 217 people participated, including 70 students."



The mayor of Kalamazoo, Bobby Hopewell (left), was the MC and participated in a line dance with chemistry graduate and undergraduate students at the KIA.

### Corporation Associates

#### Outstanding Local Section Industry Event

"For the third consecutive year, the Kalamazoo local section hosted a poster session titled "Sustainable Science – Recycle a Poster" at a local brewery. There were 100 attendees from industry and academia, including graduate and undergraduate students."



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# ChemLuminary Awards - Photos

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Denis Billen (Zoetis) and Elke Schoffers (WMU)



Elke Schoffers presented the KACS poster during the ChemLuminary reception in the San Francisco Palace Hotel



Left to right: David Gottfried (chair of the Committee on Public Relations and Communications), Elke Schoffers and ACS President Tom Barton



Left to right: Dawn Mason (chair of the Corporation Associates Committee), ACS Past-President Marinda Wu, Elke Schoffers, and Denis Billen