

September Section Meeting:
**Thomas Edison's Chemical Developments to
be Recognized as a
National Historic Chemical Landmark in
Michigan**

**Greenfield Village at The Henry Ford
Dearborn, Michigan
Saturday, September 20, 2014
11 am, Menlo Park Laboratory
(For Directions and Map, see page 10)**

American inventor and businessman Thomas Alva Edison will be recognized as a National Historic Chemical Landmark in Dearborn on Saturday, September 20, 2014. Thomas Edison developed an interest in chemistry as a boy in Michigan, and applications of chemistry were a common theme in many of his inventions including carbon filaments used in light bulbs, development of the nickel-iron alkaline electric storage battery, and research into domestic sources of rubber. Edison's legendary "invention factory" in Menlo Park, N.J., was moved from its original site to Dearborn in 1928 when it was reconstructed by Edison's close personal friend, Henry Ford.

The family-friendly event will begin at 9:30 am with assisted tours of the laboratory and hands-on experiments and chemistry magic show at Town Hall. The commemoration ceremony will start at 11:00 am at the laboratory, complete with Edison discussing his invention and boxed lunches available on a first-come

(Continued on page 2)

(Continued from page 1)

first-served basis. In case of inclement weather, the festivities may be moved to the Village Pavilion. The American Chemical Society, ACS Detroit Local Section, and The Henry Ford are sponsoring the event.

Additional celebrations of Edison's work in chemistry were held by the ACS at the present-day locations of his laboratories. The Edison Botanical Laboratory at the Edison & Ford Winter Estates was commemorated on May 25, 2014, in Fort Myers, Fla., in partnership with the South Florida Section of ACS. Edison's West Orange laboratory complex was commemorated at the Thomas Edison National Historical Park in West Orange, N.J., on June 6, 2014, in partnership with the ACS North Jersey Section.

The Menlo Park Laboratory at The Henry Ford will join two existing National Historic Chemical Landmarks in Michigan: commercial production of bromine by Herbert H. Dow in Midland and the discovery of organic free radicals by Moses Gomberg at the University of Michigan.

The American Chemical Society established the National Historic Chemical Landmarks program in 1992 to recognize important achievements in the history of the chemical sciences. Subjects recognized through this program have included Bakelite, the world's first synthetic plastic; the discovery and development of penicillin; and the work of historical figures such as Joseph Priestley, George Washington Carver and Rachel Carson. More information is available online at www.acs.org/landmarks.

Detroit ACS and Facebook

Please "like" our Facebook page. You can do this one of two ways, you can either go to our web site at <http://detroit.sites.acs.org/> and click the "like" button on the right hand side of the home page, or you can find us on Facebook directly. Our page is called Detroit Section of the American Chemical Society. Once the page comes up, please click the "like" button to receive innovative scientific findings provided by the National ACS and also to hear what's going on locally in the Detroit Area with the Detroit Section of the ACS.

Sincerely,
Kevin Perry

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

Brewing Chemistry

Detroit, Michigan

Brewing Chemistry is a monthly lectures series. These informal talks are designed to make science fun and accessible for all. The lectures take place at 7 p.m. on the third Tuesday of every month at:

Traffic Jam & Snug, 511 West Canfield Street, Detroit, MI 48201

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.. For more information, contact Meghann at 313.993.1259 or meghann@brewingchemistry.com

www.brewingchemisry.com

Tuesday, September 20th, 2014 at 7 PM

Stained Glass

Presented by:

**Tomak Baksik, Artist, Scientist & Owner,
Julian Glass, Nethercraft & Julian Bronze**

If you've ever felt overwhelmed by the games of light and color of stained glass, then you've felt how well chemistry connects with art and beauty. The chemistry of stained glass overlaps with the very chemistry of glass: glass is obtained from the fusion of silicon dioxide sand or silica. Tomak Baksik of Julian Glass makes specialty stained glass surfaces for architectural, lighting and sculptural application, and custom stained glass sheet and tile. Years of bottom-up research have enabled distinctive advancements in the art, from druzi and mineral cluster simulations to life-sized neoclassical sculpture. Their colors are formulated to complement a painterly palette with both subtle and complex patterns.

Tomak Julian Baksik studied fine art and physics at the University of Michigan, and currently exhibits at several national tradeshow and festivals.

www.brewingchemistry.com

Resume-Building Volunteer Opportunity!

Are you looking for a way to gain experience to put on your resume?

Are you searching for networking opportunities to help find a job?

Would you like name recognition with potential Detroit area employers?

Would you like to make use of your Microsoft Office software capabilities?

If you answered “yes” to these questions, then you might be the perfect person to become the Detroit Local Section ACS’s new Newsletter Editor! We are currently seeking someone who is responsible and reasonably computer-savvy to fill this position. The approximate time needed would be ~10-20 hours per month, working from home on your own time and schedule. Your duties would include the following:

1. Solicit (via E-mail) articles from the Executive Committee members.
2. Create an electronic layout of the submissions using publishing software.
3. Send finished document to Webmaster for posting on the Detroit ACS website.
4. E-mail “plain text” version to enrolled ACS members.
5. Deliver electronic copy to printing service for (limited) hard copy mailings.
6. Coordinate with other Communications Committee members to update E-mail and hard copy mailing lists.

We anticipate this position to be available starting in January, 2015 and will help assist and train any interested volunteer. Ideally, we would like someone who is willing to commit to a 2-year term. **Please note that this is a crucial role for the Detroit Local Section ACS and your involvement would have high impact.** If you are interested, please contact Charlene Hayden at hayden2@oakland.edu.

Thank you -- your service will be both rewarding and greatly appreciated!



National Chemistry Week Volunteers Needed

National Chemistry Week (October 19 - 25) is a community-based annual event that unites American Chemical Society (ACS) local sections, businesses, schools, and individuals in communicating the importance of chemistry to our quality of life. The theme for 2014 is "The Sweet Side of Chemistry—Candy", showcasing the chemistry involved in candy and confections!"

The Detroit Section of the American Chemical Society will hold two National Chemistry Week programs this year. Both programs involve hands-on chemistry experiments for kids.

The Detroit Zoo will host our NCW program as part of their Zoo Boo event. For those not familiar with the Zoo Boo, it is a "trick or treat" around the zoo with activities set up in tents. The program will run from 5:00 – 9:00 PM on **Saturday and Sunday, October 11, 12, 18, 19, 25, and 26**. The Detroit Zoo is located on Woodward Avenue in Royal Oak. Information and a map can be found on their website at detroitzoo.org.

Cranbrook Institute of Science will host our NCW program as part of their Halloween Science event on **Saturday, October 18**. The program will run from 2:00 – 4:00 PM. The museum is located on the Cranbrook Educational community campus on Woodward between Lone Pine and Long Lake roads in Bloomfield Hills. Information and a map can be found on their website at science.cranbrook.edu.

We are looking for volunteers for each program to staff the individual hands-on experiments, to lead the children through activities, and answer questions about the chemistry in the world around us. Children will have fun making things like slime, putty, and candy while learning about the properties of everyday materials.

This is a great opportunity to come out and mix socially with your fellow chemists while performing a valuable public outreach. Please, come join us for one of these programs. If you would like to participate, you can respond directly to our program organizer, Denise Grimsley, at denise.grimsley@basf.com.

2014 U.S. National Chemistry Olympiad Detroit Local Section Student, Steven Li wins Silver Medal

U.S. National Chemistry Olympiad program would like to proudly announce the success of the Alpha Eta Team at the 46th International Chemistry Olympiad competition, which concluded July 29, 2014 in Hanoi, Vietnam.

U.S. Team students:

- Andrew Chen, West Windsor Plainsboro High School South, NJ, won silver medal
- Robert Kao, Edwin O. Smith High School, CT, won gold medal
- Stephen Li, Troy High School, MI, earned silver medal
- Derek Wang, North Allegheny Senior High School, PA, received silver medal

Congratulations to Team USA for this great achievement!



Li (from left), Chen, Kao, and Wang celebrate after winning their medals.
Photo by Melissa Barranger-Mathys

Margaret Thatcher
Program Administrator
U.S. National Chemistry Olympiad
American Chemical Society

Jamil Baghdachi and Stephanie L. Brock Named ACS Fellows

The American Chemical Society has named 99 members as ACS Fellows. The new fellows were feted at the society's national meeting in San Francisco this August at a ceremony hosted by ACS Immediate Past-President Marinda Li Wu.

"As part of the ACS presidential succession, I have the joy and honor of participating in the ACS Fellows ceremony at the fall national ACS meeting," said Wu in announcing the 2014 class of fellows. "It is quite exciting to recognize members for their outstanding contributions and service to both chemistry and to society. ACS Fellows over the years have come from academia, industry, government labs, and small business. Congratulations to all who have achieved this distinction and helped advance the chemistry enterprise and ACS!"

Two members of the Detroit Section were named to this august company:

- *Jamil Baghdachi*, Eastern Michigan University:
 - Contribution to the science/profession: Significantly contributed to polymers, coatings, and adhesives research and development and education in industry and academia. Recognized by the American Coatings Association with the 2012 Industry Excellence Award.
 - Contribution to the ACS community: As an ACS member for 35 years, served the Polymeric Materials: Science and Engineering Division, starting with volunteer recruitment, symposium organizer, Secretary, Vice Chair, Chair-Elect, and ultimately Chair.
- *Stephanie L. Brock*, Wayne State University:
 - Contribution to the science/profession: Pioneered methods for synthesizing nanoparticles of transition metal phosphides with applications in magnetism and catalysis and created a new class of materials with energy and environmental applications: chalcogenide aerogels.
 - Contribution to the ACS community: Advanced the impact of ACS Publications through leadership of the Joint Board-Council Committee on Publications. Promoted women in the profession through canvassing and nomination for ACS national awards.

The fellows program began in 2009 as a way to recognize and honor ACS members for outstanding achievements in and contributions to science, the profession, and ACS.

Detroit Section Wins 2014 ChemLuminary for Fostering Interactions Between Local Sections & Student Chapters

At the Fall 2014 ACS Meeting in San Francisco, the Society Committee on Education recognized that the Detroit Section's involvement with ACS Student Chapters greatly expanded this year to include participation from groups from various Universities. Each provided a key component to success of the Chemists Celebrate Earth Day and National Chemistry Week outreach programs.



Megan Klein (left) and Denise Grimsley (right) present a poster showcasing the Section at the 2014 ChemLuminary Award Reception in San Francisco.

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Upcoming ACS Webinars®

- September 18, 2014 Tragic Chemical Accidents – Round 2, Mary Beth Mulcahy
<http://www.acs.org/content/acs/en/events/upcoming-accs-webinars/chemical-accidents-2.html>
- September 25, 2014 Drug Discovery 7: Pharmacoeconomics and IP Strategies in Drug Development Richard Willke and Robert Koch
<https://www2.gotomeeting.com/register/251473674>
- October 2, 2014 Chemistry of Death Lucas Zarwell
<https://www2.gotomeeting.com/register/886918986>
- October 7, 2014 Special Presentation: ACS Program-in-a-Box, 7:00 PM Eastern Time, Speaking Simply: Communicating Your Science, Co-sponsored by ACS Younger Chemists Committee Douglas Dollemore and Darcy Gentleman Group Registration:
<http://www.acs.org/content/acs/en/events/program-in-a-box.html>
- October 23, 2014 A Planet of Viruses Carl Zimmer
<https://www2.gotomeeting.com/register/722658666>
- October 30, 2014 Drug Discovery 8: Future of Drug Discovery – Challenges, Risks, Rewards Rich Connell and Jeff Zablocki
<https://www2.gotomeeting.com/register/251473674>
- November 6, 2014 Cannabis Chemistry 201 Chris Hudalla
<https://www2.gotomeeting.com/register/849095674>

About ACS Webinars®

ACS Webinars® is a free, weekly online event serving to connect ACS members and scientific professionals with subject matter experts and global thought leaders in the chemical sciences. ACS Webinars are divided into several series that include careers, business and innovation, professional growth, joy of science, extreme chemistry, entrepreneurial initiative, green chemistry, and more. Each is about 60 minutes in length, comprised of a short presentation followed by Q&A with the speaker. Live presentations are held on Thursdays from 2-3pm ET. Recordings of the webinars are available online to ACS members at <http://acswebinars.org/> where you may also find the schedule of upcoming webinars.

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Calendar of Upcoming Events

Second Tuesday of the Month: Section Executive Committee Meeting – from September through May. The meetings will start at 7:00 PM.

Third Tuesday of Every Month: Brewing Chemistry. Please see <http://brewingchemistry.com> and page 3 for information on the September event.

September 20: National Historical Chemical Landmark commemoration: see page 7.

October 1-4: CERM in Pittsburg: see <http://www.acscerm2014.org/>: for details

October: National Chemistry Week: see page 5

October 21: Brewing Chemistry at Traffic Jam & Snug, 7 pm: <http://brewingchemistry.com/events.html>

October 23: FDA Analytical Chemistry with Felix Schneider— details to be announced (TBA)

November 3: Monthly Meeting: Dr. Peter Bonk on Spontaneous Resolution at Madonna University 7 pm, contact Megan Klein

November 6: Anachem Symposium: <http://anachem.org/>

November 8: Tenth Annual Girl Scout Day—volunteers needed, contact Mary Kay Heidtke: mkheidtke@aol.com

November 13: Sam Kean, author of *The Disappearing Spoon*, free lecture, details TBA

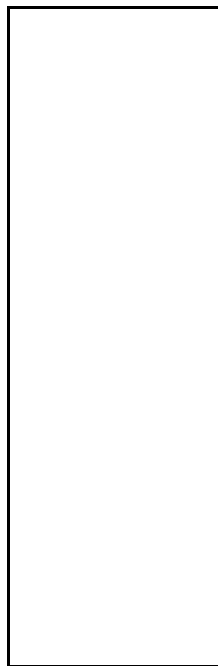
November 10: Brewing Chemistry at Traffic Jam & Snug, 7 pm: <http://brewingchemistry.com/events.html>

December 16: Brewing Chemistry at Traffic Jam & Snug, 7 pm: <http://brewingchemistry.com/events.html>

May 2015: Joint CERM and Great Lakes Regional Meeting

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