



LOCAL SECTION
ILLINOIS HEARTLAND
AMERICAN CHEMICAL SOCIETY



2017 Newsletter #1

A MESSAGE FROM VICTORIA NGUYEN

THE 2017 CHAIR OF THE ACS ILLINOIS

HEARTLAND SECTION:



Dear Local ACS Section Members,

Greetings. I am extremely excited to serve as your local section chair for 2017! Chemistry is a part of everyone's everyday lives, from the foods that we eat to the cell phones that we carry with us. During this year, I would like to offer appropriate outreach activities/demos that can effectively communicate to the public about how chemistry is a part of their world.

I also believe that the promotion of chemistry should start with our youth and supporting our K-12 science teachers; whether it is bringing demos into their classrooms, have a scientist visit their classroom, or help provide resources such as pH

probes or instrumentation training to help science teachers teach.

For our members who are still pursuing their degree, I hope to offer you support in the form of resume writing workshops and mock interviews.

For those of us who are already involved in our careers, I hope to bring professional development opportunities to you; as well as a chance to come together and collaborate with each other and with the surrounding local ACS sections.

I am interested in hearing your concerns, thoughts and ideas for events and activities that you feel our local section should support and be involved in. Through

listening, understanding and supporting each other, we can make a difference.

I hope that you will join me and the Executive Committee in promoting and supporting Chemistry. I was asked by National ACS to submit my three goals for this year, so I would like to share with you my goals for this year:

1) Increase engagement and collaboration with Student Chapters, Local section members and the public community within the Illinois Heartland local section.

2) Promote collaboration with K-12 science teachers in the Illinois Heartland local section.

3) Increase the attendance numbers for local section meetings and events through local community organizations such as museums, radio stations, business partnerships.

I hope to see you at a future local section event!

Sincerely,
Victoria Nguyen
2017 Chair-IL Heartland Local
ACS Section



2017 ILLINOIS
HEARTLAND ACS
SECTION OFFICERS

Chairperson:

Victoria Nguyen, (NCAUR;
vhnguyen3@gmail.com)

Chair-elect:

Hind Abi-Akar (Caterpillar;
hindma4@gmail.com)

Treasurer:

Brent Chandler (Illinois College;
brent.chandler@gmail.com)

Secretary:

Marjorie Jones (ISU, Chemistry;
majone3@ilstu.edu)

Councilor:

Greg Ferrence (ISU, Chemistry;
gferren@ilstu.edu)

Alternate Councilor:

Kurt Field (Bradley University)

Immediate Past-chair:

Michael Appell (NCAUR;
michael.appell@gmail.com)

2016 National Chemistry Week Illustrated Poetry Contest Local Section Winners

9th-12th Grade:

1 st Place: Tatem Davis	Washington Community High School	Teacher: Jennifer Miller
2 nd Place: Emily Junker	Washington Community High School	Teacher: Jennifer Miller
3 rd Place: Anaghasri Arla	Normal Community High School	Teacher: Paul Krogmeier

6th – 8th Grade: No entries

3rd- 5th Grade:

1 st Place: Jacob Calhoun	Washington Elementary School	Teacher: Kelly Mathy
2 nd Place: Jayden Sikorski	Washington Elementary School	Teacher: Kelly Mathy
3 rd Place: Maxwell Irving	Washington Elementary School	Teacher: Kelly Mathy

K-2nd Grade:

1 st Place: Clayton White	Argenta-Oreana Elementary School	Teacher: Cheryl England
2 nd Place: Jacob Williams	Argenta-Oreana Elementary School	Teacher: Cheryl England
3 rd Place: Gracie Painter	Argenta-Oreana Elementary School	Teacher: Cheryl England

Thank you to our judges Lauren Duvall, Kervin Evans, Marjorie Jones, Susan McCormick, Angela Peverly, Brad Rose and Diandra Soemardi.

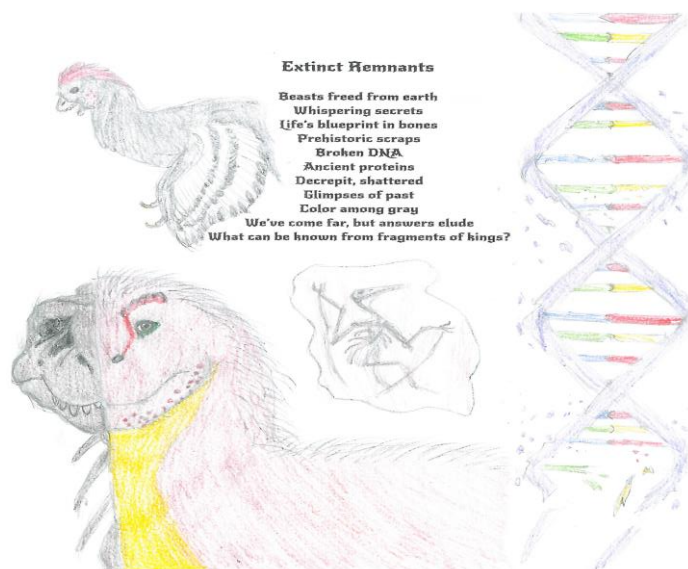
Future Illustrated Poetry Contest Theme and Date

Chemist Celebrate Earth Day, April 2017

Topic: Agriculture

Theme: "Chemistry Helps Feed the World"

Below is the 1st place winning entry for the 9th-12th grade level



Our Local Section Vote for amendments to Bylaws: This vote was held at the Local Section meeting on Thursday February 9 at ISU (Julian Hall 226) and was approved unanimously.

BYLAW XII

Amendments to Bylaws

Section 1. A proposed amendment to these bylaws must first be submitted in writing to the Executive Committee. If it is approved by a majority of the Executive Committee and after review by the Committee on Constitution and Bylaws, the Secretary shall furnish all members of the Section with copies of the proposed amendment at the time when notice of the next meeting of the Section is given.

Section 2. Any proposed amendment not approved by the Executive Committee within 60 days from the time it is submitted thereto, may be brought to a vote of the membership in the aforementioned manner by a petition signed by not less than 15 members of the Section.

Section 3. At the second meeting of the Section after notice of the proposed amendment is given, the amendment(s) will be adopted if voted affirmatively by two-thirds of the members present.

Section 4. Amendments to these bylaws, after adoption by the Section, shall become effective upon approval by the Committee on Constitution and Bylaws, acting for the Council of the SOCIETY, unless another date is specified in the amendment.

Respectively submitted, Mike Appell, 2017 Immediate Past-Chair

Also at the February meeting, gifts were given to Mike Appell (as immediate Past-Chair and Hind-Abi-akar as outgoing Secretary) for their work with the Local Section:



Councilor Greg Ferrence presenting a pin to Mike

Dean Campbell presenting a book to Hind

Local Section Awards:

Please see Local Section website for more information: <http://ilheartland.sites.acs.org/>

Nomination deadline Monday, March 6

-Chemist of the Year

-Collegiate Scholar Award

-Distinguished Service Award

-ACS/AACT Teacher of the Year

-Early Career Chemist Award

Please nominate people for these awards.

National ACS scholarships/awards/grants:

ACS Scholars Program deadline March 1

<https://www.acs.org/content/acs/en/funding-and-awards/scholarships/acsscholars.html>

ACS awards renewable scholarships to underrepresented minority students who want to enter the fields of chemistry or chemistry-related fields. Awards of up to \$5,000* are given to qualified students. African American, Hispanic, or American Indian high school seniors or college freshman, sophomores, or juniors pursuing a college degree in the chemical sciences or chemical technology are eligible to apply.

ACS-Hach Second Career Teacher Scholarship due April 1

<https://www.acs.org/content/acs/en/funding-and-awards/scholarships/hachsecondcareer.html>

The ACS-Hach Second Career Teacher Scholarship is awarded to professionals in the chemistry field pursuing new careers as high school chemistry teachers.

Scholarship recipients receive:

- Scholarship stipends (up to \$6,000 for full-time study or up to \$3,000 for part-time study) towards the completion of a Masters degree in education or secondary chemistry/science certification.*
- Support and mentoring throughout their three year teaching commitment.

The scholarship can be applied to tuition, books, room and board, and other education-related expenses and are renewable up to 3 years.

High School Chemistry Classroom Grant deadline April 14

The American Chemical Society is offering up to \$1,500 to high school chemistry teachers to help fund laboratory equipment, instructional materials, professional development, etc. The eligibility for this grant is "Applicants must be a high school chemistry educator teaching in a U.S. or U.S. territory school." The deadline is April 14, 2017. For more information and to apply please visit:

<https://www.acs.org/content/acs/en/funding-and-awards/grants/hachhighschool.html>

LOCAL SECTION ACTIVITIES PLANNED FOR SPRING 2017

- Local Section Award Deadlines March 6
- The 4th Annual Battle of the Chem Clubs will be held Saturday March 25, 10am-5pm at Bradley University
- April 2-6 National ACS meeting in San Francisco, CA
- April 14 Chemistry High School grants due
- April 22 Chemists Celebrate Earth Day with the theme: "Chemistry Helps Feed the World" and Poetry Contest

AND THE LOCAL SECTION IS STILL LOOKING FOR VOLUNTEERS TO HELP; PLEASE CONTACT **HIND ABI-AKAR** (HINDMA4@GMAIL.COM) TO GET INVOLVED

AND KEEP IN MIND...

We are always looking for involvement and ideas from our members.

Please contact any of the Executive Committee members. We would love to hear from you!

Local section website: <http://ilheartland.sites.acs.org/>

And, visit the ACS web site - ACS offers resources to help members in a myriad of areas:



A blue-bordered banner containing three columns of resources. Each column has an icon at the top, a main heading, and a list of sub-resources below it.

Careers	Education	Member Benefits & Discounts
		
Job Search Continuing Education	Adventures in Chemistry Middle School Chemistry	Member Benefits Member Handbook

We are seeking members to volunteer as a committee chair for the following committees:

- Climate Science Outreach Team:
- Long Range Planning: Lauren Denofrio (Heartland Community College, Normal, IL) has agreed to chair the Long Range Planning committee; still accepting committee members
- Senior Chemists Committee:
- Webmaster:
- Younger Chemists Committee:

If you are interested in volunteering or have questions, please contact Victoria Nguyen at vhnguyen3@gmail.com or Hind Abi-akar (hindma4@gmail.com)

2017 Outreach Events in February:

The Peoria Lakeview Branch Library hosted a Harry Potter Book Read Night Thursday February 2 from 5-7:30pm and Hind Abi-akar, Marge Jones, and Bill Darrow (from ISU Chemistry Club) did 'magical' hands on experiments with the participants.



Dean Campbell (Bradley University Chem Club Advisor) reported that on Saturday February 11, 2017, the Bradley University Chemistry Club Demo Crew broke the twenty thousand "customer" mark (at the Peoria Riverfront Museum) and thanks the Local Section for "supporting our science outreach efforts"! Congratulations to this very active Chemistry Club.

Contact Dr. Campbell (campbell@fsmail.bradley.edu) if you would like to volunteer for future activities with the Bradley Demo Cred.



Pictures from the Peoria Riverfront Museum Event on February 11, 2017 **Events within Our Local Section:**

March 23, 7:30pm in Westbrook Auditorium at Illinois Wesleyan, former president of Mexico, Felipe Calderón will be speaking about environmental issues. Calderón served as president of Mexico from 2006 to 2012. Currently, he is a member of the Advisory Council of the World Business Council for Sustainable Development, a member of the Board of the World Resources Institute, and chairman of the Global Commission on the Economy and Climate. He has been honored as a world leader on environmental issues, and is founder and president of the Sustainable Human Development Foundation.

UPCOMING EVENT: National ACS 'Program in a Box' sponsored by two Local Section Chem Clubs:

TITLE: Chemistry of Sports: Smarter, Safer, Faster
Tuesday, February 21 @ 6:00 pm

Two Locations:

Illinois College-Parker Science Building Rm 106
Illinois State University- Julian Hall Rm 225

What This Involves: In the world of competitive and professional sports, chemistry is more impactful than you might think. Discover the materials that chemists are creating to enable athletes to perform better and stay safer, as well as how analytical chemistry is advancing to detect performance enhancing substances in order to keep the playing field level for everyone. During this interactive event, viewers will be able to network with young chemists and have an opportunity to ask questions live to the experts regarding the amazing work that is being done in sports science.

What Your Group Will Learn:

- How Shear Thickening Fluids can be used for impact protection and concussion mitigation
- Textile Innovation within the sports performance categories
- How fiber formulation and materials innovation will make or break a brand
- How analytical science can help deter drug misuse
- How mass spectrometry provides the optimum tool for the job
- Why analytical chemists should remain vigilant and use state-of-art analytical tools to detect newly-emerged doping agents.

This is a free event.

SPRING Inspired Chemistry

Naturally-Dyed Easter Eggs that you can do at home



Per cup of water use:

- 1 cup chopped purple cabbage — makes blue on white eggs, green on brown eggs
- 1 cup red onion skins — makes lavender or red eggs
- 1 cup yellow onion skins — makes orange on white eggs, rusty red on brown eggs
- 1 cup shredded beets — makes pink on white eggs, maroon on brown eggs
- 2 tablespoons ground turmeric — makes yellow eggs
- 1 bag Red Zinger tea — makes lavender eggs

→ **Add 1 tablespoon white vinegar to every cup of strained dye liquid**

→ **For every dozen eggs, plan on using at least 4 cups of dye liquid**

Pour the amount of water you need for the dye you're making into a saucepan — you can make 4 separate batches of different colors or 1 large batch of a single color; follow the ratios given above for each ingredient to make more or less dye.

Add the dye matter (purple cabbage, onion skins, etc.) and bring the water to a boil. Turn the heat down to low and simmer, covered, for 15 to 30 minutes. The dye is ready when it reaches a hue a few shades darker than you want for your egg. Drip a little dye onto a white dish to check the color. When the dye is as dark as you like, remove the pan from the heat and let the dye cool to room temperature. (I put the pot on my fire escape and it cooled off in about 20 minutes.)

Pour the cooled dye through a fine-mesh strainer into another saucepan (or into a bowl then back into the original pan if that's all you have). Stir the vinegar into the dye — use 1 tablespoon of vinegar per cup of strained liquid.

Arrange the room-temperature eggs in single layer in a baking dish or other container and carefully pour the cooled dye over them. Make sure the eggs are completely submerged.

Transfer the eggs in the dye to the refrigerator and chill until the desired color is reached. Carefully dry the eggs, and then massage in a little oil to each one. Polish with a paper towel. Store the eggs in the refrigerator until it is time to eat (or hide) them.

<http://www.thekitchn.com/how-to-make-vibrant-naturally-dyed-easter-eggs-holiday-projects-from-the-kitchn-112957>