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1ST & 2ND QUARTER 2016

HURON VALLEY SECTION NEWSLETTER

ARTICLES

SCIENCE OUTREACH

CAYMAN CHEMISTS INVITED TO MILL CREEK SCHOOL... 1

ACS POLY/PMSE STUDENT CHAPTER UPDATE

STUDENT CHAPTER PROUD TO HOST WORKSHOPS... 2

SCIENCE FAIR JUDGING

HOSTED BY KEYSTONE ELEMENTARY SCHOOL... 2

STUDENT CHAPTER OUTREACH...3

GUEST SPEAKERS VISIT STUDENT CHAPTER... 3

EARTH DAY FESTIVAL SUMMARY

ACS CHAPTER SUPPORTS LOCAL EARTH DAY FESTIVAL... 4

CONGRATULATIONS... 4

STUDENT CHAPTER SOCIAL ACTIVITIES... 5



The Cayman participants pictured from left to right are: Jeremiah Alicea, Dani St. Germaine, Roxanne Franckowski, Sara Rozny, Paul Dobrowolski, Holly Grenke, Bryanna Dadabbo, Fred Ciske, Joe Wagner (son of a Cayman employee), Greg Keyes. Thanks to all who participated!

SCIENCE OUTREACH

CAYMAN CHEMICAL CHEMISTS INVITED TO MILL CREEK MIDDLE SCHOOL'S 1ST SCIENCE CAREER EXPLORATION NIGHT

By Paul Dobrowolski

Cayman Chemical Chemists joined other area organizations on March 9, 2016 in reaching out to about 100 Mill Creek Middle School students in answering questions about science careers while helping them at 6 hands-on demo stations. This first event was considered a

success upon seeing the interest shown by the students as they participated in the following stations set up by Cayman Chemical: Oscillating Clock, Slime, Silver Mirror, Glue from Milk, Crystallization, Science Trivia to win a prize.



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ATTENTION ALL CHEMISTS OF WASHTENAW COUNTY!

CHECK OUT THE HURON VALLEY ACS SECTION WEBSITE!

You can find us at:

huronvalley.sites.acs.org/

The website includes upcoming events and activities and even allows you to register to be kept updated on all happenings of our section.

Check it out!

SCIENCE FAIR JUDGING AT KEYSTONE ELEMENTARY SCHOOL

The Huron Valley ACS membership once again supplied judges for the annual Science Fair at Keystone Elementary School in Belleville. Thanks to students and post docs from the lab of Professor Alison Narayan at U of M for stepping up to the task! The following participated in the judging: Alison Narayna, April Lukowski, Tyler Doyon, Jamie Do, Seth Wiley, Summer Baker Dockrey, Kevin Romero, Stephanie Chun, Meagan Hinze, Meghan Breen.

Since only 60 of 700 students in the school participated in the Science Fair, there is interest to have a stage program with demos for the whole school in the fall. If you are interested in helping with this science outreach, contact Paul Dobrowolski (pdobrowolski@caymanchem.com).



5th year Macromolecular Science and Engineering student Scott Zavada taught polymer chemistry at Polymer Fundamentals Bootcamp.

ACS POLY/PMSE UPDATE

ACS POLY/PMSE STUDENT CHAPTER PROUD TO HOST TWO EDUCATIONAL WORKSHOPS

By Leanna Foster

“Polymer Fundamentals Bootcamp” was a two-day workshop hosted in January that provides students and professional scientists the opportunity to begin or strengthen their understanding of polymer science and engineering. These peer-led lectures were taught by members of the Macromolecular Science and Engineering program at the University of Michigan, and attracted 57 participants from the University of Michigan-Ann Arbor and Eastern Michigan University.

In April, the student chapter teamed

with members from Toastmasters International to host a “Preparing for Presentations” workshop. This event provided tips for presentations and public speaking, as well as the opportunity for students to present and receive immediate constructive feedback provided by members of Toastmasters. 20 students attended, 7 of which presented highlights of their current research.

GUEST SPEAKERS IN STUDENT CHAPTER

The ACS POLY/PMSE Student chapter is pleased to have hosted 3 speakers during the 1st and 2nd quarter. On February 22, 2016, Dr. Jay Schieber joined us from the Illinois Institute of Technology to present on “Rigorous Theoretical Modeling of Entangled Polymer Dynamics Told Through Pictures.” On April 6, 2016, Dr. Lei Li from the University of Pittsburg to present on “Understanding the Intrinsic Water Wettability of Graphene and Other 2D Materials” as a joint seminar with the Chemistry department at the University of Michigan-Ann Arbor. Dr. Li is a University of Michigan alumnus from the Macromolecular Science and Engineering, and engaged in career coaching during a joint-lunch with students during his visit. On April 15, 2016, Dr. Zhenan Bao from Stanford University presented on “Skin-Inspired Electronic Materials and Devices” as a joint seminar with Materials Science and Engineering, and was attended by over 100 students and faculty. Upcoming speakers include Dr. Jeffrey Moore (University of Illinois, October 3rd), and many more at the Macromolecular Science and Engineering Symposium (October 27th).

STUDENT CHAPTER OUTREACH

By Leanna Foster



Simon Adorf (2nd year, Chemical Engineering) leads students in a hands-on activity to describe different kinds of polymers in their every day life.

One significant part of the activities organized by the ACS POLY/PMSE student chapter is outreach to schools in the Ann Arbor and Greater Detroit Area. This outreach program brings polymer-focused interactive lessons to the schools, discussing various aspects of polymer science including polymer classification, plastics manufacturing, polymer crosslinking, and

polymer innovations in medicine. This past year, graduate students in the chapter visiting 15 schools, 33 classrooms, and presented to over 1000 students at no cost to the schools and teacher. Additionally, the student chapter participated in Xplore Engineering, hosted by the University of Michigan to reach another 60 students.

Students create their own cross-linked polymer (Gak) by combining borax and Elmer's glue, under the guidance of Megan Dunn (3rd year, Chemical Engineering).



EARTH DAY FESTIVAL SUMMARY

ACS CHAPTER SUPPORTS ANN ARBOR EARTH DAY FESTIVAL

By Aaron Brackman

CONGRATULATIONS TO
MELANIE S. SANFORD!

The Huron Valley Section is proud to recognize our friend and colleague Melanie Sanford, who is being honored as a 2016 ACS Fellow. Within the ACS community Melanie has served as an Associate Editor of the flagship Journal of the American Chemical Society. Among her other significant contributions, she chaired the Division of Organic Chemistry Graduate Fellowship Program and served on ACS National Award committees. In the wider scientific community Melanie was recognized for her pioneering work in C-H activation catalysis, both in terms of creation of innovative, high-value synthetic methods and highest-level mechanistic understanding. Everyone take a moment to congratulate Melanie on her wonderful accomplishments, and for being such a great member of our Huron Valley Section!



Volunteers work with participants at the Ann Arbor Earth Day Festival.

Ann Arbor Earth Day Festival was held on Sunday, April 17th at the Leslie Science and Nature Center in Ann Arbor from noon until 4pm. The weather was great for this outdoor event. The event was estimated to have around 3000 attendees comprising of mainly of kids of the elementary age group, parents, teachers and general public from the community. HVACS teamed up with NSF International to have 2 demonstration tables at the event. The demos were a filtration

station and a water pollution demonstration that kids were able to participate, learn from and enjoy. A special Thank You goes out to the following students and HVACS members for helping at the event: Justin Powers, Rachel Kirpes, Anna Leemon, Natalia Anaya, Tayler Murphy, Peter Goldberg, Jacob Kawalrzyk, Heather Schellie, Alec Edgar, and Aaron Brackman.



STUDENT CHAPTER SOCIAL ACTIVITIES

By Leanna Foster

Students enjoyed two highlight socials these past months. In January, students joined together to celebrate the Lunar New Year, complete with dumpling making and hot pots. May brought new adventure when students participated in team building activities at the West Bloomfield Adventure Park. Climbing to new heights, students learned to balance more than their academic workloads, and zip lined through the treetops!



Students gathered to celebrate the Lunar New Year with dumplings and hot pots.



Students (Rose Cersonky & Eric Madsen: Left, Harry van der Laan: Right) climbed, balanced, and zip-lined to build chapter camaraderie at West Bloomfield Adventure Park.

HURON VALLEY ACS SECTION NEWSLETTER

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HURON VALLEY SECTION

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