

Newsletter for the Kalamazoo Local Section of the American Chemical Society



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Congratulations to KACS Member Charissa Oliphant for winning a KVCC 2019 Faculty Instruction Award

The KVCC 2019 Instructional Award recipients were announced in the September 2019 edition of KV Focus, the Kalamazoo Valley Community College newsletter. The awards are designed to reward those instructors at Kalamazoo Valley who actively encourage students' intellectual curiosity, engage them in the enterprise of learning, and have a lifelong impact. Current students, faculty and staff may nominate for the recognition.

Congratulations go out to 2019 Award recipient, KVCC Chemistry Instructor and KACS member, Charissa Oliphant.

A student said this about Charissa: "Mrs. O. has been a phenomenal instructor. I was not excited about having to take chemistry and she has made the class so accessible and as easy to understand as possible. She actively works to make sure her students are informed about all the opportunities available to them for both learning and professional development. She is extremely patient with questions and is always willing to spare the extra time to help a student having trouble with a problem or concept".

Another nominator said, "Mrs. Oliphant helped create my love for chemistry. She is a great instructor and really cares about her students. She is very organized and puts her students in a position to succeed. Chemistry isn't the easiest class, but she was always willing to help and ensure her students were prepared. I would recommend her to anyone taking chemistry. She is a great instructor who explains everything clearly and is so helpful".

In addition to teaching chemistry at KVCC, Charissa has been a long-term active member of KACS. She received the Local Section Award for Meritorious Service in 2014. Her service continues today with her participation in KACS events like the Speed Networking Event for local college students, where she has been serving as a mentor.

Great work, very well done Charissa. You are a KACS hero.

Save the Date: Bells Poster Event

The KALAMAZOO Section of the American Chemical Society presents

From Lipid Probes to Tuberculosis Drugs: Two Decades of Chemical Biology Research

by Prof. Benjamin Swarts

**Associate Professor at the Department of Chemistry &
Biochemistry at Central Michigan University**



Inspired Brewing®

Bell's Eccentric Café (Back Room)

355 E Kalamazoo Ave, Kalamazoo, MI 49007

- Complimentary hors d'oeuvres
- Free and open to the public

Chemistry plays essential roles in understanding biology and creating new ways to combat human diseases. Ben Swarts, an Associate Professor at Central Michigan University, will discuss how chemical biology—the use of synthetic small molecules to study and manipulate biological systems—has been used in his research to explore novel approaches to diagnosing and treating the devastating bacterial disease tuberculosis. This story spans nearly two decades, ranging from Ben's early experiences as an undergraduate chemistry major, through his time studying as a postdoc in South Africa, and to his current work as a chemistry professor and director of a biosafety level 3 (BSL-3) tuberculosis research facility. It is hoped that this talk will illustrate how a passion for chemistry and a bit of serendipity can crystallize into an exciting, fruitful, and sometimes unpredictable career in the chemical sciences.



Sci-Mix Poster Session on Tuesday, Nov 12, 2019

Present a poster – see instructions below!

5-7 pm Poster Setup, Registration, Reception

6:45 pm KACS Announcements

7:00 pm Keynote Speaker: Prof. Benjamin Swarts

8 pm Prize Announcement

8-9 pm Poster Session, Network with Scientists and Speaker

Current ACS members, poster presenters and Zoetis employees are eligible for two complimentary drink tickets (if 21 years and older)

Undergraduate and graduate students are encouraged to participate. Your poster can either be newly prepared or a “recycled” poster. **Poster presenters who submit their abstract (150-200 words) by Monday, Nov. 4 can win a 50\$ cash prize!** Non-prize eligible presentations will still be accepted until Friday, **Nov. 8**. To reserve an easel, presenters should email the following information to kelly.teske@wmich.edu.

- the poster **title**
- **author list** with the presenter underlined and an asterisk (*) for the lead PI
- **institution** information
- an **abstract** to enter the prize drawing

Funding provided through a generous grant by



KACS Combines IYPT Celebrations with Project SEED Fundraising



We are off and running with our IYPT celebrations in the Kalamazoo Local Section. About 30 ACS members and supporters joined us at One Well Brewing on Mon, Oct 21 for a Dine to Donate event to raise funds for Project SEED. We raised over \$50 for Project SEED and had a great time. Check out our local IYPT events page [here](#) and mark your calendar for our next appearance at [Bell's Eccentric Café Back Room on Nov 12](#). Hopefully, you will have a chance to meet our Summer 2019 Project SEED fellows as they present their research results during the poster session. If you

would like to make a direct donation to our local Project SEED fund, please go our [NEW KACS Project SEED webpage](#) and follow the link to PayPal. Thanks, and see you around the table ... periodically.

Celebrate IYPT!

This year marks the 150th anniversary of Mendeleev's development of the first periodic table of the elements, making 2019 the International Year of the Periodic Table!

<https://www.iypt2019.org/>

Visit the ACS periodic table page:

<https://www.acs.org/content/acs/en/education/whatischemistry/periodictable.html>

For a list of events and resources:

https://www.facebook.com/events/2261489874120479/?active_tab=ab

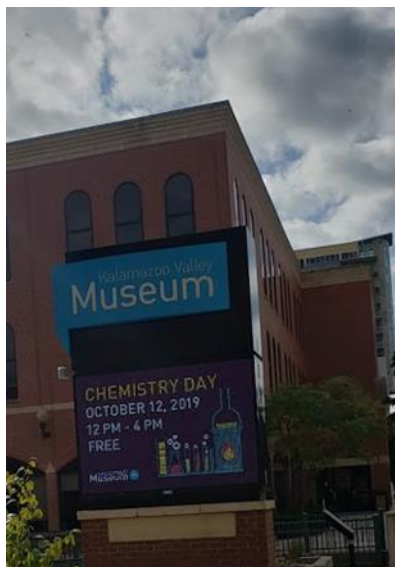
39.098 19 K Kalamazoo	227.028 89 Ac American Chemical	32.06 16 S Society
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Celebrating the International Year of the Periodic Table

Hydrogen 1 H 1.008	Lithium 3 Li 6.941	Beryllium 4 Be 9.012																	Helium 2 He 4.003		
Sodium 11 Na 22.990	Magnesium 12 Mg 24.305																			Neon 10 Ne 20.180	
Potassium 19 K 39.098	Calcium 20 Ca 40.078	Scandium 21 Sc 44.956	Titanium 22 Ti 47.88	Vanadium 23 V 50.942	Chromium 24 Cr 51.996	Manganese 25 Mn 54.938	Iron 26 Fe 55.845	Cobalt 27 Co 58.933	Nickel 28 Ni 58.693	Copper 29 Cu 63.546	Zinc 30 Zn 65.38	Gallium 31 Ga 69.723	Germanium 32 Ge 72.61	Arsenic 33 As 74.922	Selenium 34 Se 78.96	Bromine 35 Br 79.904	Krypton 36 Kr 83.80			Argon 18 Ar 39.948	
Rubidium 37 Rb 85.468	Sr 38 Sr 87.62	Yttrium 39 Y 88.906	Zirconium 40 Zr 91.224	Niobium 41 Nb 92.906	Molybdenum 42 Mo 95.94	Technetium 43 Tc 98.906	Ruthenium 44 Ru 101.07	Rhodium 45 Rh 101.07	Palladium 46 Pd 106.42	Silver 47 Ag 107.868	Cadmium 48 Cd 112.411	Indium 49 In 114.818	Sn 50 Sn 118.710	Sb 51 Sb 121.757	Te 52 Te 127.6	Iodine 53 I 126.905	Xenon 54 Xe 131.29			Helium 2 He 4.003	
Cesium 55 Cs 132.905	Barium 56 Ba 137.327	57-71		Hafnium 72 Hf 178.49	Tantalum 73 Ta 180.948	Tungsten 74 W 183.84	Rhenium 75 Re 186.207	Osmium 76 Os 190.23	Iridium 77 Ir 192.22	Pt 78 Pt 195.084	Au 79 Au 196.967	Hg 80 Hg 200.59	Tl 81 Tl 204.38	Pb 82 Pb 207.2	Bi 83 Bi 208.980	Po 84 Po 209	At 85 At 210	Rn 86 Rn 222			Helium 2 He 4.003
Francium 87 Fr 223	Radium 88 Ra 226	88-103		Rf 104 Rf 261	Db 105 Db 262	Sg 106 Sg 266	Bh 107 Bh 264	Hs 108 Hs 277	Mt 109 Mt 268	Ds 110 Ds 271	Rg 111 Rg 272	Cn 112 Cn 285	Uut 113 Uut 284	Fl 114 Fl 289	Uup 115 Uup 288	Uuh 116 Uuh 292	Uus 117 Uus 294	Uuo 118 Uuo 294			Helium 2 He 4.003

Lanthanum 57 La 138.905	Ce 58 Ce 140.12	Pr 59 Pr 140.908	Nd 60 Nd 144.24	Pm 61 Pm 144.913	Sm 62 Sm 150.36	Eu 63 Eu 151.964	Gd 64 Gd 157.25	Tb 65 Tb 158.925	Dy 66 Dy 162.50	Ho 67 Ho 164.930	Er 68 Er 167.26	Tm 69 Tm 168.934	Yb 70 Yb 173.054	Lu 71 Lu 174.967
Actinium 89 Ac 227	Th 90 Th 232.038	Pa 91 Pa 231.036	U 92 U 238.029	Np 93 Np 237.047	Pu 94 Pu 244.064	Am 95 Am 243.061	Cm 96 Cm 247.070	Bk 97 Bk 247.070	Cf 98 Cf 251.108	Es 99 Es 252.083	Fm 100 Fm 257.10	Md 101 Md 258.10	No 102 No 259.10	Lr 103 Lr 262.10

Annual Chemistry Day at the Museum



On October 12th, 2018 the 33rd Annual Chemistry Day at the Kalamazoo Valley Museum drew **550** patrons for an early celebration of National Chemistry Week. Approximately **60** volunteers presented **15** hands-on activities to the attendees. The theme of 2019's National Chemistry Week is marvelous metals, and volunteers did a great job showcasing the theme with activities including a penny demo that heated a zinc coated penny to form brass, shiny pennies, using metals to clean up oil spills, magnets, metal detectors, and iron in cereal. At another table, members shared the significance

of Kalamazoo's designation earlier this year as a National Historic Chemical Landmark for the development of steroid medicines at the Upjohn Company. KACS Volunteers from the Air Zoo, Kalamazoo Valley Museum, Pfizer, Perrigo, Kalsec, Kalexsyn, Western Michigan University, and Kalamazoo College, graciously volunteered their time to share these and other activities with the Kalamazoo community. A big THANK YOU to everyone that worked so hard to make this event a huge success. It is hard to describe the joy one experiences seeing the smile on young children's faces as they begin to understand the concepts behind these demonstrations. Hopefully some of these



curious young attendees will remember this positive event when deciding a college major 5 to 10 years from now and choose the chemical sciences. Anyone willing to present a demo at the Museum Day event in early November 2020 send me an email (hjude@kalsec.com) and I will stay in touch as next year's event approaches. The theme of 2020's National Chemistry week is Sticking with Chemistry (Glues and Adhesives).

Questions? Comments? or would like to contribute to this newsletter?

Send an email to Mike Weslosky, Communication Chair at
communications@kalamazooacs.org



Visit our website www.kalamazooacs.org

or

