

Newsletter for the Kalamazoo Local Section of the American Chemical Society



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Celebrate National Chemistry Week 2019

Chemistry Day at the Museum

33rd Chemistry Day at the Museum

Hands-on activities and resources for all ages!

Saturday, October 12 • noon — 4 p.m.

Kalamazoo Valley Museum

230 N. Rose St., Kalamazoo

FREE!

Co-sponsored by the
Kalamazoo Section of the American Chemical Society
(Kalamazooacs.org)
and the Kalamazoo Valley Museum (kalamazoomuseum.org)

This year's **Chemistry Day at the Museum** is scheduled for **Saturday, October 12th, from noon to 4 pm at the Kalamazoo Valley Museum**. This is the Kalamazoo Section of the American Chemical Society (KACS) community outreach event for National Chemistry Week (museum notice attached). This very popular public event typically attracts 600 to 1000 people and **we need volunteers to run Demos** that are appropriate for young children (K through 8th grade). Please let me or Lydia Hines (lemhwgh@gmail.com) know as soon as possible if you are willing to participate in this event. Visitors to the event are always excited to see new demos. We also have a list of activities that have been presented in the past if you are looking for ideas to present.

The 2019 National Chemistry Week theme is "Marvelous Metals" but all age and location appropriate activities which introduce children to science concepts are welcome. A major goal of events like these is to introduce our visitors to scientific concepts and therefore all presenters need to model appropriate lab safety (safety glasses and/or lab coats, shields, etc.) even if using commonly-available materials (chemicals) and visitors need to be alerted to the importance of safety even if materials being used in a hands-on demonstration may be "items found in the kitchen"; the one PPE item they **MUST** wear is safety goggles, which we provide on entry.

With enough advance notice the Kalamazoo Valley Museum assists with purchasing common supplies (things that can be bought at Walmart, Meijer's, Amazon, etc.) for demos, but specialty items must be provided by the presenters (glassware, chemicals, etc.)

Please share this article with others that might have an interest in assisting or attending this very popular KACS outreach event. We appreciate your consideration to volunteer your time in support of this event. This event is free of charge and open to the public, so please consider attending even if you are not able to help with presenting a demo this year.

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**

**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

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)

Funding provided through a generous grant by



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!

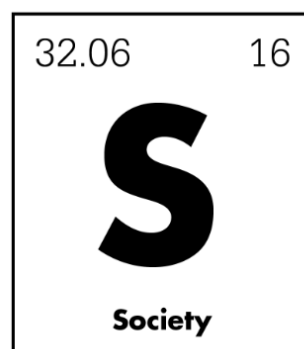
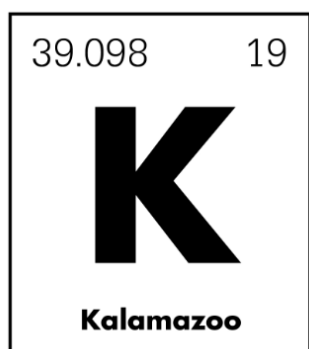
<https://www.iypt2019.org/>

Visit the ACS periodic table page:

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

For a list of events and resources, including the World's Largest Periodic Table event out on 19 October at Grand Valley State University:

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





Celebrating the International Year of the Periodic Table

Hydrogen 1 H 1.008																		Helium 2 He 4.003													
Lithium 3 Li 6.941		Beryllium 4 Be 9.012																		Boron 5 B 10.811		Carbon 6 C 12.011		Nitrogen 7 N 14.007		Oxygen 8 O 15.999		Fluorine 9 F 18.998		Neon 10 Ne 20.183	
Sodium 11 Na 22.990		Magnesium 12 Mg 24.305																		Aluminum 13 Al 26.982		Silicon 14 Si 28.086		Phosphorus 15 P 30.974		Sulfur 16 S 32.065		Chlorine 17 Cl 35.453		Argon 18 Ar 39.948	
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 55.933	Cobalt 27 Co 58.933	Nickel 28 Ni 58.693	Copper 29 Cu 63.546	Zinc 30 Zn 65.39	Gallium 31 Ga 69.722	Germanium 32 Ge 72.61	Arsenic 33 As 74.922	Selenium 34 Se 78.96	Bromine 35 Br 79.904	Krypton 36 Kr 83.8												
Rubidium 37 Rb 84.468		Strontium 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 98.907	Ruthenium 44 Ru 101.07	Rhodium 45 Rh 102.906	Palladium 46 Pd 106.42	Silver 47 Ag 107.868	Cadmium 48 Cd 112.411	Indium 49 In 114.818	Tin 50 Sn 118.71	Antimony 51 Sb 121.760	Tellurium 52 Te 127.6	Iodine 53 I 126.904	Xenon 54 Xe 131.29												
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 183.85	Rhenium 75 Re 186.207	Osmium 76 Os 190.23	Iridium 77 Ir 192.22	Platinum 78 Pt 195.08	Gold 79 Au 196.967	Mercury 80 Hg 200.59	Thallium 81 Tl 204.383	Lead 82 Pb 207.2	Bismuth 83 Bi 208.980	Polonium 84 Po 209	Astatine 85 At 210	Radon 86 Rn 222											
Francium 87 Fr 223		Radium 88 Ra 226		88-103		Rutherfordium 104 Rf 261	Dubnium 105 Db 262	Seaborgium 106 Sg 266	Bohrium 107 Bh 264	Hassium 108 Hs 277	Meitnerium 109 Mt 268	Darmstadtium 110 Ds 271	Röntgenium 111 Rg 272	Copernicium 112 Cn 277	Ununtrium 113 Uut Unknown	Fermium 114 Fi 289	Unquadium 115 Uup Unknown	Livermorium 116 Uuh 293	Unseptium 117 Uus Unknown	Unoctium 118 Uuo Unknown											

Lanthanum 57 La 138.906		Cerium 58 Ce 140.115	Praseodymium 59 Pr 140.908	Neodymium 60 Nd 144.24	Promethium 61 Pm 144.913	Samarium 62 Sm 150.36	Europium 63 Eu 151.966	Gadolinium 64 Gd 157.25	Terbium 65 Tb 158.925	Dysprosium 66 Dy 162.50	Holmium 67 Ho 164.930	Erbium 68 Er 167.26	Thulium 69 Tm 168.934	Ytterbium 70 Yb 173.04	Lutetium 71 Lu 174.967
Actinium 89 Ac 227	Thorium 90 Th 232	Protactinium 91 Pa 231	Uranium 92 U 238	Neptunium 93 Np 237	Plutonium 94 Pu 244	Americium 95 Am 243	Curium 96 Cm 247	Berkelium 97 Bk 247	Californium 98 Cf 251	Einsteinium 99 Es 254	Fermium 100 Fm 257	Mendelevium 101 Md 258	Nobelium 102 No 259	Lawrencium 103 Lr 262	

Nominations for KACS Secretary

KACS is seeking nominations for the position of Secretary. Please send nominations to Dr. Kelly Teske at kelly.teske@wmich.edu

Chemistry Night at One Well

October 21 – Mark Your Calendar to Celebrate IYPT at One Well Brewing!

KACS is collaborating with One Well Brewing (4213 Portage St., Kalamazoo, MI 49001) in the first of our events to celebrate the International Year of the Periodic Table (now 150 years old). Please mark your calendar for the evening of Monday, Oct 21. Times and program details will be coming in our next newsletter and Facebook page. This will be a dine to donate event in which a share of our food and drink purchases will be donated by One Well to support our local Project SEED fund. Thank you to One Well.



WMU Chem Club Update

This fall, we have big plans for the WMU Chem Club! We will be participating in Chemistry Day at the Museum in October and performing demonstrations for students from Portage Northern when they visit campus in October. We are also working to coordinate additional events including Science Night at Lake Center Elementary, a demo day at Prairie Ridge Elementary, and maybe an event with the Boy Scouts. In addition, we have several meetings planned to increase student exposure to research and industry. And of course, we'll have plenty of social events as well. We are off to a great start this year and are looking forward to an amazing semester!

Best,

Megan Callaghan
WMU Chem Club President

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

