

Newsletter for the Kalamazoo Local Section of the American Chemical Society



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Issue Highlights...

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Project SEED students presenting their work at K-College (end of August)

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Register Now for the ACS Outreach Program

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Reminder that 2019 is the International Year of the Periodic Table

Project SEED Students Present! You are invited—Please Attend at Kalamazoo College



Yanari Raines (L) and Riannat Sanusi (R) – Kalamazoo Local Section Project SEED Fellows – Summer 2019

Introducing our 2019 Project SEED Fellows

Dear Local Section Members, I am delighted to introduce you to our current Project SEED Fellows. Project SEED provides summer research experiences in chemistry for high school students from low income households. This has been a powerful program. Over 11,000 students have participated, and ACS Assessments show that it has had a strong impact on the academic and career pathways of those students. The Kalamazoo local section has sponsored 75 student projects in the last 25 years. Each Project SEED fellowship costs our local section about \$2000 after matching funds from ACS. Your donations to national or local section Project SEED programs are vital to the success of the program. Donations to our local section funds are allocated entirely for local student stipends. Please contact me at dwilliams@kalsec.com if you would like to learn more about supporting us.

You have an opportunity to meet both of our Project SEED fellows in person and hear about their work at a summer research symposium in the Kalamazoo College Dow Science Center from 11 AM – 2 PM on Friday, Aug 23. Please join us if you are interested and available.

Doug Williams (Kalamazoo ACS Project SEED Coordinator)

Yanari Raines (by Yanari)

I am a rising senior at Kalamazoo Central High School and I will be graduating in June of 2020. My current interests and hobbies are running both cross country and track, starting my internship through my law enforcement EFE, and volunteering. My current plans after high school, however, are to start my path to becoming a United States Marine. I will be attending an NROTC college in the South and training to become an officer in the summer. And even though my career path does not correlate directly with chemistry I still have the chance to major in any subject I want. Therefore, after being a part of Project SEED I will definitely consider majoring in the sciences. I learned about this opportunity through my high school chemistry teacher, Dr. Chartanay Bonner. At first, I was not sure about applying because I didn't have much science experience (only biology and honors chemistry), but soon that became the exact reason why I wanted to. My Project SEED mentor is Dr. Kelly Teske (WMU Chemistry) and our project is focused on developing analogues of 2-4-diphenylquinazoline. However, our goal is to manipulate this small molecule to globally upregulate tumor suppressive miRNA in breast cancer. What I appreciate about this project so far is how hands on it is compared to high school classes, the challenge it brings with its advanced information, and the one on one teaching. I am the only Project SEED fellow at WMU this year but I think it is helpful to schedule periodic meetings with other Project SEED fellows throughout the summer. Even though we have different projects I can say from experience that we struggle the same. We both know it's one thing to be the youngest student in a lab, but to know next to nothing about organic chemistry is even harder. To future Project SEED fellows, I recommend that you stay focused, open minded, and positive. But you also have to be patient, (especially if you ever run a preparative chromatography column 😊). Just understand that organic chemistry is probably one of the hardest subjects you will ever encounter, so ask questions! And remember, no one expects you to come in as a chemical genius, but I promise with time you will fit right in.

Riannat Sanusi (by Doug Williams)

Riannat is a rising junior at Kalamazoo Central High School, who plans to graduate in June 2021. She came to the US about four years ago with her family from Nigeria, where her mom ran her own food business and Riannat began to learn some agricultural science. Riannat continues to be interested in math and science and plans to take advanced chemistry this fall. She is not sure of her study plans beyond high school but is presently hoping to attend Univ. of Michigan or Michigan State Univ. Riannat was also a member of the KCHS Mock Trial Team that won its 21st Michigan

State Championship and competed in May in Athens, GA at the Nationals. Riannat learned about Project SEED from her high school chemistry teacher, Dr. Chartanay Bonner. Her Project SEED mentor is Dr. Dwight Williams (Kalamazoo Chemistry). She is working on the synthesis of novel non-nitrogenous serotonin receptor ligands based upon the 2-(2-phenylethyl)chromone scaffold. Her work builds upon the work of previous Project SEED students Victor Plascencia (2017) and Daniel Calco (2018) in the Dr. Williams group at K-College.

Outreach Training Program Webinar Series

Register Now for the Outreach Training Program Webinar Series!



The [Outreach Training Program \(OTP\)](#) is designed to help ACS Members improve their science outreach skills and fully maximize Society resources for planning hands-on science events. In-person workshops will be offered at two regional meetings (NERM and SERMACS). If you can't attend the training in person, register now for the seven-webinar series offered through the [ACS Learning Management System](#).

The program includes sessions on the history of ACS Outreach, safety in outreach settings, event planning and fundraising, communicating through hands-on activities, marketing and partnerships, leading volunteers, and monitoring success. Attendees will learn to successfully plan and execute hands-on science outreach events, as well as have an opportunity to network and build a community with others who are passionate about science outreach and ACS. For more information, click below to register, visit the [OTP web page](#) or contact outreach@acs.org.

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:

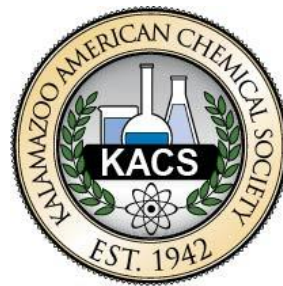
https://www.facebook.com/events/2261489874120479/?active_tab=ab

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 20.180
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 55.845	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				
rubidium 37 Rb 85.468	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 102.905	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 126.905	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	wolfram 74 W 183.85	reuterium 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	bohrium 105 Db 262	seaborgium 106 Sg 266	bohrium 107 Bh 264	hassium 108 Hs 277	meitnerium 109 Mt 268	darmstadtium 110 Ds 271	roentgenium 111 Rg 272	copernicium 112 Cn 277	unnilium 113 Uut Unknown	flerovium 114 Ft Unknown	unquadium 115 Uup Unknown	livecolumbium 116 Uuh Unknown	tennessine 117 Uus Unknown	oganesson 118 Uuo Unknown			

lanthanum 57 La 138.905	cerium 58 Ce 140.12	praseodymium 59 Pr 140.908	neodymium 60 Nd 144.24	promethium 61 Pm 144.913	samarium 62 Sm 150.36	europium 63 Eu 151.964	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 173.054	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 252	fermium 100 Fm 257	mendelevium 101 Md 258	nobelium 102 No 259	lawrencium 103 Lr 262

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



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Visit our website www.kalamazooacs.org

or

