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**\*\*\***PLEASE **RSVP** for our meeting by contacting Sarah Leibowitz: Sleibowitzacs@gmail.com by Sunday, February 10th and note **we are limited to the first 25 respondents.**

Thank you!



**ACS**

 Chemistry for Life

* **AMERICAN CHEMICAL SOCIETY 1876-2019**
* **143 YEARS**
* **\*Make sure to check out our website!!**
* **http://kcacs.sites.acs.org/**

**FEBRuary meeting**

**WHEN: Wednesday, February 13, 2019; 5:30 Social; 6:00 p.m. Dinner; 6:15 Presentation**

**WHERE: Shimadzu Scientific, 8052 Reeder St., Lenexa KS**

**GUEST SPEAKER: Dr. Jim Mott, Senior Tech Support Specialist for Shimadzu’s Midwest Region**

**\*(Please see the following page of this publication for Dr. Mott’s bio and an abstract of his presentation.)**

**TALK TITLE: “Cannabis and Hemp Analysis: Methodology and Instrumentation use in the Determination of Potency, Pesticides, Terpenes, Mycotoxins, Residual Solvents, Heavy Metals, and even Moisture in the Marijuana Plant and Products”**

**MENU: Catered by Zarda BBQ; COST: $10**

**\*Please Note: We are limited to the first 25 who sign up because of space, so please RSVP ASAP. Thank you very much!**

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**CONTEST!**

Win your own Sidney Harris cartoon! A contest will be held in which ACS members can submit “one original cartoon caption” of 35 words or less. Cartoonist Sidney Harris will draw a cartoon based on the winning caption. The grand prize winner will receive the original cartoon based on his/her winning caption. The runner-up will receive a personally autographed copy of one of Harris’s most famous cartoons chosen by Harris. For more information and the official entry form, go to: <http://acshist.scs.illinois.edu/index.php>

FEBRUARY 2019

Volume 70 Issue 7

**Chair Elect**

**Dr. Thomas Metz was born in Emporia Kansas in 1942. He received a Bachelor of Arts degree from Emporia Kansas State University in 1964. He then earned his PhD from the University of Nevada, Reno in 1971. He worked at Bayer Crop Science from 1970-2006 and is now a part time teacher at MCCKC, Longview, and has been since 2006. His ACS experience includes being Secretary from 1979-1980; Chair-Elect in 1981; Chair in 1982; and Councilor from 1983-1998. Dr. Metz is interested in expanding the representation in the KC section and bringing some fresh life to the section. He will attempt to get guest speakers from our local Universities, MRI, and Industry. He prefers to keep favorite spots for meetings like our local brewery and winery, but also will look to add some dinner meetings. He looks forward to working with the Executive Committee to achieve these and other goals to energize the section.**

**Secretary**

**Dr. Gregory D. Claycomb is an Assistant Professor of Chemistry at Park University. He teaches general, analytical, and physical chemistry courses as well as introductory physics. He is dedicated to providing a quality education in the classroom, and often works with students outside of the classroom by mentoring them in research related to the chemical analysis of food products. In addition to working with Park students, he serves the high school chemistry community by acting as the coordinator of the KC-ACS USNCO, the High School Chemistry Olympiad. He was educated first at the University of New Mexico, and then at Kansas State University where he studied the chemistry solid surfaces and received the degree of PhD in 2006.**

**Treasurer**

**Dr. Gary Clapp is the President & CEO of the Institute for Industrial and Applied Life Sciences and of DT Search and Design which are both located in the Kit Bond Science and Technology Incubator on Missouri Western State University’s campus. He received his undergraduate degree in Chemistry from Minnesota State University, Mankato in 1984, and his PhD from Oregon State University in 1990. For the past 20 years, Dr. Clapp has been involved with many operational activities of independent businesses performing laboratory testing and research development in support of human and animal pharmaceutical drug development operations for Aptuit, AAI Development Services, Oread Laboratories and Hauser Chemical Research. Dr. Clapp’s duties included oversight and supervision of work performed in Biotechnology, BioAnalytical, Pharmaceutical Chemistry, Pilot Plants and Preformulation/Formulation for pharmaceutical solid dosage forms. He has been an active member of the ACS for 26 years and has served as an officer in the KC section for the past 12 as Treasurer, Vice-Chairman and Chairman. Dr. Clapp has also served as an invited technical reviewer on numerous National Institute of Health (NIH) technical evaluation committees. In addition, he has served as the Chairman for the western region of the American Council of Independent Laboratories (ACIL).**

**Councilor**

**Dr. Eckhard Hellmuth is asking for your vote at the end of his second term as Councilor (’06-’11). He would be sincerely honored to represent the Section in serving on the ACS Council for a second three year term; the continuation of his work on the Bylaws & Constitution (B&C) Committee of the ACS depends on winning your support. He hopes to interact with everyone for a few more years. For many years he had the great pleasure to work closely with Chemists at the local and national level. Together he hopes to explore ways and means in identifying goals, and areas of interest of our members. “How can we find better, more relevant activities to suit your needs? How can we facilitate better interactions, more networking opportunities, scientific & technical task exchanges, and last but not least, social contacts between us, you, and your colleagues in Engineering and the Sciences in the large geographical area of the Section?” Dr. Hellmuth has served as Chair (’02, ’05), Secretary (’68), Alternate Councilor (’03-’05), and as Chair of many Section Committees including Education (70’s, 80’s), Science Start-Up (90’s), SEED (70’s, ‘00’s), and Program Committee (‘98-present). He also committed many hours to planning and administration of our 2001-2011 Spencer Awards including establishing good personal interactions with the Executive Committees of the ACS Divisions of Agricultural & Food Chemistry and Agrochemicals in support of the Spencer Award Events. Eckhard Hellmuth graduated with an MS (’55) and a PhD (’60) from the University of Marburg, Germany, did post-doctoral research in Marburg and at Rensselaer Polytechnic Institute in Troy, NY, and started his career at UMKC in Polymer and Physical Chemistry in 1965.**

**Alternate Councilor**

**Dr. Gary Clapp … Please see above under “Treasurer” …**

the kc chemist

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| ABOUT OUR SPEAKER…**James Mott, Ph.D.**Dr. Jim Mott is the Field Technical Support Supervisor for the Midwest Region of Shimadzu Scientific Instruments. Dr. Mott received his Bachelor’s Degree in Chemistry from Winona State College and his Ph.D. in Synthetic Medicinal Chemistry from Purdue University, where his dissertation was on the synthesis of antitumor analogs of Mitomycin C. After graduate school, Dr. Mott held a postdoctoral position at the University of Iowa Department of Medicinal Chemistry, working on synthetic dopamine congeners, some of which showed very interesting hyperactivity effects (this is a topic of discussion all on its own). This was followed up by a year as a research scientist in the University of Iowa Department of Biochemistry, where he worked on the synthesis of subunit locking molecules for hemoglobin for the possible treatment of Sickle Cell Anemia.At this point, Dr. Mott’s career took an interesting twist. He obtained a research scientist position at the University of Iowa Department of Psychiatry Analytical Neuropsychobiology Laboratory. Not only did he have the opportunity to study the possible mechanisms of action for neuroleptic agents and possible biological markers for psychotic episodes, but he also took a serious interest in the field of instrumental analysis. This is where he was first exposed to instrumentation manufactured by Shimadzu Scientific Instruments.Every good story needs to have a dark turn. After leaving the University of Iowa, Dr. Mott took a position with Delta Instrument Company, where he participated in <gulp> sales activities. Despite spending 12 years in this endeavor, even rising to the level of Sales Manager, it was clear that Dr. Mott’s true value was in training and applications. Dr. Mott was hired as a Senior Technical Support Specialist by Shimadzu and is nearing completion of his 20th year with the company.Dr. Mott has been working in the field of analytical instrumentation for 38 years, either as an end-user or a representative. His experience covers a wide variety of instrumentation types, including HPLC, GC, and mass spectrometers. In addition to his duties as a technical support generalist, he has authored numerous support documents, webinars, and instructional seminars.ABOUT HIS PRESENTATION…**Cannabis and Hemp Analysis – Avoiding Mass Confusion: Methodology and Instrumentation used in the Determination of Potency, Pesticides, Terpenes, Mycotoxins, Residual Solvents, Heavy Metals, and even Moisture in the Marijuana Plant and Products**Cannabis and Hemp are certainly hot topics throughout the country. As an example of the excitement being generated, Kansas is potentially positioning itself as the hemp growing capital of the US and using hemp as a savior to the agricultural community. But, with any new consumable commodity, quality matters must be considered. LC-MS/MS has been promoted by some as the only instrument needed for a suite of cannabis analyses including potency, aflatoxins, pesticides, terpenes, etc. While LC-MS/MS is a powerful tool, it alone cannot perform all of the required analyses to the needs expressed by many state regulations. Furthermore, operational costs for LC-MS/MS are much higher than more conventional HPLC analysis. Precision and accuracy are known to degrade, which requires more frequent calibration, and changing sources. For many cannabis laboratory operations, it is more efficient to use a low cost HPLC for potency and mycotoxins, than an LC-MS/MS. Pesticides that are difficult to analyze by LC-MS/MS, can be easily analyzed by GC-MS/MS. LC-MS/MS typically only measures 6 aromatic terpenes, but with interference from co-eluting terpenes; GC or GC-MS methods have been used to measure more than 36 terpene compounds by headspace analysis, as well as residual solvents.This presentation will examine the different technologies that have been used to successfully meet rigorous state regulations for cannabis analysis.#IYPT2019 Celebrate 150 years of Mendeleev's Table on February 26th with ACS!! |
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| **Tuesday, February 26th**at**6:45pm ET**  |

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| **The countdown has begun to our next free ACS Program-in-a-Box!** Locations in our area taking part in ACS P-I-B (5:30pm CT)**Missouri Western State University (MWSU): Room 328 Agenstein Hall, St. Joseph MO; (Contact Gary Clapp: 816-341-3230 or email:** **gclapp@missouriwestern.edu****). Pizza & Soft Drinks provided. Free.****Park University: Findlay Wakefield Science Hall, SC310, Parkville MO (Hosted by the CHEM club). Pizza & Soft Drinks provided. Free**It's the International Year of the Periodic Table! One-hundred and fifty years ago, Dmitri Mendeleev first presented his periodic system to the Russian Chemical Society, forever shaping the way we look at the elements. Join hundreds of groups from around the U.S. and the globe for this live celebration of one of chemistry’s greatest achievements! |

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| Explore the early efforts of scientists to organize the elements, be the first online to answer elemental "Table Trivia," and learn how the Table continues to grow with the addition of new super heavy elements.[Register your group by Friday, February 1st](http://r20.rs6.net/tn.jsp?f=001h7qEgmhW1zLhfl37ofAKhwEJpp78NxlEpL0ezQyQUgBla5z4FojPEJaTdruC8JjbvyK1QL1C9xTJcniBfoTlRrmcnWraPMEHQB9flsIuBo8LZihKHYuAWRRC2t_qsK1092UdPh2fKfkCAqcMS7LahBcprF_xP6V964RmqbCNwZIs9ohK8_rdiDdLCkXEnVwquy3bHgzMNO9Unjo-cUSoYpPiLu7Tr-WfFJnUhhb45u_4BKbSsEJ9odobH0zFYXo3&c=Og5Gte3M_i68ydc7kgxwpi81m0hPBDeZn-rzwvHodlpIuGbJq_GYtQ==&ch=TM6gqlxqwV_rez7w5_Uwmt7uUQyEIJ5tW9CsvB0jGZ6R7XAhh4hBfA==) to receive your FREE box\* of raffle prizes, handouts, and other hosting materials to make this your easiest event of the Spring!  |

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| \**This event is aimed at collegiate-level students and above, though it may be appropriate for certain high school groups. Contact the ACS PIB team at**multimedia@acs.org**if you have any questions about the event content.*  |

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| **Featuring** |

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| **Carmen Giunta***Le Moyne College* |

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| **Alexa Billow***ACS Reactions* |

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| **Samuel Lemonick***C&EN* |

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| ACS Program-in-a-Box is the easiest event you'll ever host because "it's all in the box." With very little effort (acquire the space and gather the crowd), you can host an energetic science event that engages chemistry students and early career chemists.Register now to receive a physical box of materials and resources delivered directly to you at no cost and a link to join the live interactive video on February 26th at 6:45pm ET.\*\* Learn more and sign up at [www.acs.org/PIB](http://r20.rs6.net/tn.jsp?f=001h7qEgmhW1zLhfl37ofAKhwEJpp78NxlEpL0ezQyQUgBla5z4FojPEB8BTsiLNSwDy0ZosP3OAXjV6PN4UNQVxBUI0iAE2HsDMzMLlv_325AvPuIDyW7EgxXn3b6olAFoF_6YDk2orXym4qhbv5S-ImlPAqIQQrvQm_H21ZYHaZHcA4bxFLp32uqOLCkciW3Jsf9cK9hP8zs5LXEj1FhoOpKooyuzGfiTjXUTINZ1SN2BklaCj5JB5w==&c=Og5Gte3M_i68ydc7kgxwpi81m0hPBDeZn-rzwvHodlpIuGbJq_GYtQ==&ch=TM6gqlxqwV_rez7w5_Uwmt7uUQyEIJ5tW9CsvB0jGZ6R7XAhh4hBfA==) ***\*\*ACS Program-in-a-Box is now international! If you are an active***[***ACS International Chemical Sciences Chapter***](http://r20.rs6.net/tn.jsp?f=001h7qEgmhW1zLhfl37ofAKhwEJpp78NxlEpL0ezQyQUgBla5z4FojPEJaTdruC8JjbJip4j8D4PAfN0rfXZen1hm9XMvfqGZyhjcCdRuwdrISrkQ158D9FBSUfg5RFoKQhQgyKih4WSVfp4DhcW32YJrEfnqNpoWHBzFZCR15dpZF5-MNGkxSvT750FV6mJZiReHWvYM-h0uAzzUZgHjTJaJUWuLDXIgsS&c=Og5Gte3M_i68ydc7kgxwpi81m0hPBDeZn-rzwvHodlpIuGbJq_GYtQ==&ch=TM6gqlxqwV_rez7w5_Uwmt7uUQyEIJ5tW9CsvB0jGZ6R7XAhh4hBfA==)***or***[***ACS International Student Chapter***](http://r20.rs6.net/tn.jsp?f=001h7qEgmhW1zLhfl37ofAKhwEJpp78NxlEpL0ezQyQUgBla5z4FojPEJaTdruC8JjbBsGtR3n48iwqIVrXTZA0QqPJitzNjI1nlWyA32YwJ_Ya_J2O8o-n7KnUC6gi9Svg4QYJnImPUKpcrknHKozrguu4xVJPIcVb-SHTnB_mTeS5vqzOIAT12T_MxVLbOLuTKK9tq7gr7nCx6fhi3XYiPsK1fEmzWjV3_576YoRgfv3QaCnNGxzoukbDVaOnwmBXt7L4GpogWbrBfhBd5S6tsg==&c=Og5Gte3M_i68ydc7kgxwpi81m0hPBDeZn-rzwvHodlpIuGbJq_GYtQ==&ch=TM6gqlxqwV_rez7w5_Uwmt7uUQyEIJ5tW9CsvB0jGZ6R7XAhh4hBfA==)***, you may qualify to receive a physical box. Register above and we will contact you to confirm eligibility and shipping information.*** *\*\*Physical boxes are an exclusive benefit for active ACS-affiliated groups (Student Chapters, ChemClubs, Local Sections, etc...) All other groups will receive a digital download of box materials.****Physical boxes can only be shipped to non-P.O. Box addresses****. The ACS PIB team will contact you after registration to confirm your shipping eligibility and information. If you have any questions about your group's eligibility for receiving a box, please contact us at****multimedia@acs.org******.***  |

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**ACS-KC Section Local Section**

**Standing Committees & Chairs**

**Consider volunteering on one (or more) of our committees! We welcome your thoughts, ideas and contribution!**

\*Please contact Michele Sanders at: msanders@harcros.com if you are interested in joining one of the committees, or chairing one of the “open” committee positions. Thank you; we could really use your help!

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**COMMITTEES and CHAIRS**

AWARDS……………………………………………………………………Dr. Innocent Pumure, UCM

EDUCATION………………………………………………………………Dr. Jeffrey Woodford, MWSU

ENVIRONMENTAL IMPROVEMENT………………………......**OPEN**

FINANCE……………………………………………………………………Dr. Eckhard Hellmuth, UMKC

LONG RANGE PLANNING…………………………………………..**OPEN**

MEMBERSHIP…………………………………………………………...Dr. Jeffrey Woodford, MWSU

MINORITY AFFAIRS…………………………………………………...**OPEN**

NATIONAL CHEMISTRY WEEK & GREEN CHEMISTRY COORDINATOR……Dr. Gary Clapp, MWSU

NEWSLETTER EDITOR………………………………………………..Mrs. Mary Jean Clapp, SJSD/emPowerU

NOMINATIONS Local Section Executive Committee….Mr. Jon Tally, Park University

PROFESSIONAL RELATIONS……………………………………….**OPEN**

PROGRAM………………………………………………………………..Dr. William Gutheil, UMKC

PUBLIC (Government) AFFAIRS………………………………….**OPEN**

PUBLIC RELATIONS……………………………………………………Dr. Gary Clapp, MWSU

SAFETY………………………………………………………………………Ms. Michele Sanders, Harcros Chemicals

SENIOR CHEMIST………………………………………………………Dr. Eckhard Hellmuth, UMKC

SPENCER AWARD NOMINATIONS……………………………..Mr. Jon Tally, Park U (Acting Chair; Long Term is **OPEN**)

WEBMASTER…………………………………………………………….Dr. Gary Clapp, MWSU

WOMEN CHEMISTS…………………………………………………..Ms. Michele Sanders, Harcros Chemicals

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US 2019 **National Chemistry Olympiad**: The screening exam is scheduled for March 23, 2019 at 10:30 at UCM.

**Invitation for High School Chemistry Teachers and their Students to participate in the 2019 US National Chemistry Olympiad competition**

The Kansas City chapter of the American Chemical Society (KC-ACS) is inviting you and your high school chemistry students to participate in the 2019 U.S. National Chemistry Olympiad (USNCO). For your convenience, the rules, past selection exam papers (from the years 2000-2018), national exam papers (from the years 1999-2018) together with their associated keys are readily accessible in downloadable formats from the following website: [http://www.acs.org/content/acs/en/education’/students/ghighschool/olympiad.html](http://www.acs.org/content/acs/en/education%27/students/ghighschool/olympiad.html). There are no fees required to participate and there is no limit to the number of students who may participate in the screening exam.

Please begin registering your students as soon as possible by sending your completed registration form (found below) to Innocent Pumure by regular mail or by email (most preferred) to pumure@ucmo.edu. To find out about the local section you belong to, enter your zip code at: <https://lslooku.acs.org/lslookup/localsearch>

All students who participate are eligible for four $500 scholarship awards to be given by the KC-ACS. To become an award winner, a student must complete the Olympiad screening exam AND must go through the award nomination process. The nomination forms will be sent to you by the end of February 2019 and/or upon request. We hope these recognitions will serve to stimulate interest in chemistry and to promote a positive attitude towards the discipline. Teachers are welcome to enter as many students as they may wish. Names of previous winners of the 2018 competition are posted on our KC-ACS website: <https://kcacs.sites.acs.org/>

**UPCOMING EVENTS OF INTEREST:**

**MO-RISE:** (MO Regional Industrial Science and Engineering) Networking Event Registration is now open. MO-RISE 2019 will be held on February 28, 5:30-8:30p.m. at MWSU, Remington Hall Atrium, 4525 Downs Drive, St. Joseph MO 64507. Don't miss this opportunity to meet and network with STEM professionals and students from the Greater St. Joseph and Kansas City area. This event provides students with an opportunity to network and hear from potential employers and provides regional science, technology, and engineering companies with an opportunity to meet with potential employees. This year we are excited to add computer science and applied computer technology to the event. <https://www.eventbrite.com/e/mo-rise-2019-tickets-51253839614>

**ACS NATIONAL MEETING & EXPO: March 31-April 4, 2019; Orlando FL Chemistry for New Frontiers**

**68th ANNUAL GREATER KC SCIENCE & ENGINEERING FAIR: April 3-6, 2019; Union Station, 30 W. Pershing Road (STEM Grades 4-12) Our KC local section is proud to sponsor an award for this event.**

**STEM Night at Academie Lafayette: March 27, 2019; 5:00-7:00pm**

**ACS KC SECTION 2019 EXECUTIVE BOARD MEMBERS**

**Chair: Dr. Bill Gutheil (UMKC) (816) 235-2424**

**Chair-Elect: Dr. Sarah Leibowitz (DeLaval Manufact.) (816) 891-6974**

**Check out our website!!** American Chemical Society

Kansas City Section

Visit us at: **http://kcacs.sites.acs.org/**

**Treasurer: Dr. Gary Clapp (MWSU) (816) 271-4100**

**Secretary: Ms. Katie Dixon (Edward Jones) (913) 764-1037**

**Councilors: Dr. Eckhard Hellmuth (UMKC) (816) 536-1891**

 **Dr. Sarah Leibowitz (DeLaval Manufact.) (816) 891-6974**

**Alternate Councilors:**

**Dr. William Gutheil (UMKC) (816) 235-2424**

**Dr. Gary Clapp (MWSU) (816) 271-4100**

**Newsletter Editor: Mary Jean Clapp** **Clappmj@aol.com**

**Website Director: Gary Clapp** **gclapp@missouriwestern.edu**

**Immediate Past Chair: Michele Sanders (Harcros) (913) 621-7889**

FEBRUARY 2019

American Chemical Society

Kansas City Chemist

2903 Wilshire Court

St. Joseph MO 64506