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NOVEMBER 2019

Volume 71 Issue 3

Please RSVP to Sarah Leibowitz: sleibowitzacs@gmail.com by Monday, **Nov. 11th**

Thank you.

**Please vote for our Executive Committee Officers!! Details and ballot are included in this publication.**

**NOVEMber membership meeting**

**Please plan on joining us!!**

**WHEN: Wednesday, November 13, 2019; 6:00pm**

**WHERE: MWSU; 4525 Downs Drive, St. Joseph MO: Agenstein Hall, Room 330**

**SPEAKER: Dr. Gary Clapp**

**Talk Title: “Wrath of Grapes” Bio and Abstract on page 2.**

**Menu: Pizza & soft drinks**

**Cost: $5**

**Looking ahead…Save the Date!!**

**December’s Social Gathering will take place on Tuesday, December 10; 5:00-8:00pm at Boulevard Brewing Co., (at their BEER HALL), 2534 Madison (just adjacent to the Brewery), KCMO**

**MO-RISE 2020**

Missouri Western State University will host **MO-RISE 2020** on **Tues., March 3**, in the Fulkerson Center. The Missouri Regional Industrial Science and Engineering (MO-RISE) event will once again bring together regional employers with students pursuing STEM degrees for an evening focused on regional employment and professional networking. The MO-RISE 2020 Web Registration Page is now open. More details to follow in the coming months.

* **AMERICAN CHEMICAL SOCIETY 1876-2019**
* **143 YEARS**
* **\*Make sure to check out our website!!**
* **www.acs-kc.com**

**ACS**

 Chemistry for Life

**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

Dr. Clapp first became interested in grape growing and wine when he and his future wife moved to Oregon to pursue his advanced degree. Upon entering Oregon State University, he met a group of motivated Organic Chemists who were spending several weekends a year at a small vineyard owned by one of the University employees (Rodger Kohnert). The meetings were mostly social at first but the simple seeds about grapes and wines had been planted. After graduation Dr. Clapp took his first job in Central Washington. In Washington, he was immediately drafted into service on the Central Washington Board of Directors for the Enological Society. And when he had moved to Missouri he made friends at Holyfield Vineyard and Winery. He continued his reading and study with both trips to the vineyard and seminars such as the one presented by Dr. Grace Sun (The French Paradox).

Fast forward to today, after an opportunity arose to use much of what was learned through his experiences and then expand upon that to student applied learning, Dr. Clapp approached Dr. Woodford and the members of the Alchemy Club at MWSU about helping save a local vineyard that had gone dormant for about 3 years. Tonight we will hear a short story about year one of trying to save a vineyard and the experiences and lessons learned from this first year of applied learning in the wine industry.

About his presentation

**WRATH OF GRAPES**

In this presentation, a new laboratory experience for the second semester general chemistry curriculum is presented.  Students travel to a local vineyard and collect samples of soil, leaves and grapes; various analyses are conducted on them in order to determine the overall health of the vineyard.  But the most laborious task is the determination of the calcium content in grape leaves.  Students must perform dry ashing of the leaves, dissolve the ash in acid, and then measure the calcium content in the extract using both an instrumental technique (atomic absorption) and a wet chemical technique (EDTA titration).  This component of the project brings together important techniques such as pipetting, instrumental calibration, titration, and solution stoichiometry in order to arrive at the desired quantity, mass percent of calcium in grape leaves.  In addition, students must function well within their groups and divide labor effectively in order to complete the numerous tasks that are expected of them.  The conclusion of the project is a discussion of the pros and cons of each experimental technique.  A survey of student attitudes in response to this project was distributed; their results will also be presented in this presentation.

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| **IT’S ELECTION TIME FOR OUR LOCAL SECTION!** **PLEASE CAST YOUR VOTE!!** Electronic voting closes on November 15th. Members, please check your email!! You will receive an email from our Past Chair, Michele Sanders, via SurveryMonkey. Cast your vote by clicking on the survey “ACS-Kansas City Election of Officers, 2020”. PLEASE NOTE: A paper ballot is included in this newsletter for those wishing to vote via snail mail. Choose a method and cast your vote!! If voting via snail mail, please remember you must sign your envelope as membership verification. **Mail your ballot to: Bill Gutheil UMKC School of Pharmacy, 2464 Charlotte St., Kansas City MO 64108-2718.** If mailing your ballot, please make sure it arrives by November 15, 2019! \***You may also bring your ballot to the November Membership Meeting!** |

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 **ACS-KC SECTION EXECUTIVE COMMITTEE SLATE OF OFFICERS 2020**

**Below are Biographies of those running for Executive Office.**

Terms begin January 1, 2020 and are one year terms with the exception of Councilor which term is three years. However, the Councilor position Sarah Leibowitz is running for is the one-year vacancy left by the passing of our friend and colleague, Dr. Eckhard Hellmuth.

**\*Our new Chair is Dr. Sarah Leibowitz. Thank you for your willingness to serve Dr. Leibowitz!**

**Chair-Elect: Dr. Jeff Woodford:**

Jeff Woodford, Associate Professor of Chemistry, earned his B.S. in Chemistry from Carnegie Mellon University, and his Ph.D. in Physical Chemistry from the University of Nebraska-Lincoln.  He served as a professor at Eastern Oregon University before coming to Missouri Western State University in 2010.  His research interests include computational studies of cyclic peroxides, conformational studies of natural products, and the pseudo-Jahn-Teller effect.

**Secretary: Ms. Katie Dixon:** Ms. Dixon received her Bachelors of Science in chemistry from Park University in 2011. Upon graduation, she began working as a quality control specialist for Magellan, a refined petroleum products pipeline. In 2017, she transitioned to serving individual investors as a Financial Advisor with Edward Jones. She lives in Olathe, KS with her son Quentin, 13, and their 3 dogs. She volunteers in her community, is a member of Central Exchange, and is passionate about increasing interest in chemistry and STEMM in the KC area. She served as the secretary of the KC-ACS this past year and is willing to continue in that capacity in order to give back to the ACS and stay involved in the KC chapter.

**Treasurer: Dr. Gary Clapp:**

Dr. Clapp is an Associate Professor of Chemistry and Director of Workforce Development at Missouri Western State University in St. Joseph Missouri and has been an active member of the American Chemical Society for the past 30+ years serving as the CCEW and NCW Coordinator

(2018), Treasurer, Secretary, Vice-Chairman and Chairman for the KC section during the past 18 years. Before joining the University, Dr. Clapp spent more than twenty years in contract pharmaceutical development and in helping business start-ups. Dr. Clapp also serves as an invited technical reviewer on numerous National Institute of Health (NIH) and National Institute on Drugs of Abuse (NIDA) technical evaluation committees. In addition, Dr. Clapp acts as the MT1 (Manufacturing Technology 1) Administrator and Subject Matter Expert for Chemistry and Thermodynamics in the Manufacturing Technology 1 certificate program. This program is a National Association of Manufacturers (NAM) Certified program at the regional High School Technical Center. He also serves on numerous committees and groups focused on workforce development in NW Missouri. He is also one of a group of individuals who helps administer the annual Kenneth A. Spencer Award in Food and Agricultural Chemistry. Dr. Clapp is a member of the NW Missouri Workforce Development Board organized under the Workforce Innovation and Opportunity Act (WIOA) as the Higher Education representative on the Board of Directors. Dr. Clapp remains passionate about STEM in our rural communities and continues to help bring Science to those who cannot access these activities in the rural townships through grants and other funding that support these efforts.

**Councilor: Dr. Sarah Leibowitz:**

Dr. Leibowitz develops new Animal Hygiene products in her role as a Senior Research Scientist with the Milk Quality and Animal Health team at DeLaval Manufacturing. Previously Sarah worked at Bayer CropScience in Formulation Development, Research, and Manufacturing areas. Sarah is running for Councilor to help our section provide opportunities for more of our members to engage with the ACS. She currently is a member of the National Membership Affairs Committee (MAC). Sarah has been an active chemical professional throughout her career. She started as a student affiliate in the Canadian Chemical Society at McGill University in Montreal where she earned her BSc in Chemistry; and continued as a student ACS member at Texas A&M University where she earned a PhD in Physical chemistry. Sarah served as the Kanas City ACS Chair in 1998, and organized both National Chemistry Olympiad and National Chemistry Week activities.  Since 2000, Sarah has been responsible for the financial investments used to fund the Spencer Award for Excellence in Agriculture and Food Chemistry. Sarah shares her enthusiasm about chemistry by taking hands-on experiments to classrooms, so students learn science the way STEM professionals do.

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| **The**[**ACS Scholars Program**](http://www.mmsend73.com/link.cfm?r=xT9TyAne1Xq9N6BD4T3LMA~~&pe=aEmV7pxvzjbNf_K3hhnf5e1iCSKw_UFgcSllOtGsfH9SGMnLyojjrQkd3n3yywR8yf_i4WuEP_PyvQf212MsQw~~&t=qWGVcsaA3gYWe01F-6lW8g~~)**is accepting applications for its 2020 cycle!** The program awards renewable scholarships to underrepresented minority students from the high school seniors to undergraduate students majoring in chemistry-related disciplines, and are also intending to pursue careers in chemistry-related fields. Selected recipients are awarded up to $5,000\* per academic year. To date, over 3,000 students have received funding from the ACS Scholars Program. Learn more about the [**ACS Scholars Program**](http://www.mmsend73.com/link.cfm?r=xT9TyAne1Xq9N6BD4T3LMA~~&pe=EL4E5889EkQhW1fmLuc3R-CWBp0NKEoDpk18dkwMKNEt6FzlxYRss9T8xUaMMsQUToeMfxvaCK_1frkdY0euVw~~&t=qWGVcsaA3gYWe01F-6lW8g~~)online or [**download our informational flyer**](http://www.mmsend73.com/link.cfm?r=xT9TyAne1Xq9N6BD4T3LMA~~&pe=J5DQG9vrpSj-21B4U1Gy37NCIOx0brIyEUOO3BQhjJLw9vj2XQXgo_1-gD9AFmN0qd8MvxmbxKCZGm30wJCwxw~~&t=qWGVcsaA3gYWe01F-6lW8g~~) and help spread the word about this exciting opportunity to your students. ***\* Number of awards and award amounts are determined by school year, demonstrated financial need, and available funding.*** |

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**ACS-KC 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 welcome your input and help!**

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Check us out on Facebook: ACS-KC and LinkedIn: ACS-KC

**COMMITTEES and CHAIRS**

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

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

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

FINANCE……………………………………………………………………Dr. Jeffrey Woodford, MWSU

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………………………………………………………**OPEN**

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

**Ballot 2020**

**The executive officers of the acs-kc section**

**Term begins January 1, 2020 and is a one-year term with the exception of Councilor whose term is three years. However, the Councilor position Sarah Leibowitz is running for is the one-year vacancy left by the passing of our friend and colleague, Dr. Eckhard Hellmuth.**

**\*Please Note:** This ballot is included for those who wish to send in their vote via the US Postal Service or wish to bring it to the November meeting. If you’d like to electronically cast your vote, please see instructions on Page 2 of this publication. Thank you very much, in advance, for taking the time to vote!!

**Our new Chair will be Dr. Sarah Leibowitz. Thank you, Sarah, for your upcoming service to our section!**

**Chair Elect:**

**\_\_\_\_Jeff Woodford**

**Secretary:**

**\_\_\_\_Katie Dixon**

**Treasurer:**

**\_\_\_\_Gary Clapp**

**Councilor:**

**\_\_\_\_Sarah Leibowitz**

**\*Please return your ballot (postmarked on or before 11-15-19) with signed envelope to: Bill Gutheil, UMKC School of Pharmacy, 2464 Charlotte St., Kansas City, MO 64108-2718 *OR* bring it to the November meeting! Your signed envelope will provide membership verification. Thank you for taking the time to vote!!**

**ACS KC SECTION 2019 EXECUTIVE BOARD MEMBERS**

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

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

Kansas City Section

Visit us online**:**

**www.acs-kc.com**

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

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

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

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

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

**Alternate Councilors:**

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

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

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

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

NOVEMBER 2019

American Chemical Society

Kansas City Chemist

2903 Wilshire Court

St. Joseph MO 64506