



Please RSVP to Sarah Leibowitz:  
[sleibowitzacs@gmail.com](mailto:sleibowitzacs@gmail.com)  
by Monday, Nov. 11<sup>th</sup>  
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.



**ACS**  
Chemistry for Life

- AMERICAN CHEMICAL SOCIETY 1876-2019
- 143 YEARS
- \*Make sure to check out our website!!
- [www.acs-kc.com](http://www.acs-kc.com)

### Inside this issue:

|                        |    |
|------------------------|----|
| November Meeting       | p1 |
| SAVE THE DATE!         | p1 |
| Speaker Bio & Abstract | p2 |
| SurveyMonkey Voting    | p2 |
| Exec. Board Candidates | p3 |
| ACS Scholars Program   | p4 |
| Ballot for Voting      | p5 |
| Exec. Board Members    | p6 |

## 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.



**IT'S ELECTION TIME FOR OUR LOCAL SECTION!  
PLEASE CAST YOUR VOTE!!**

Electronic voting closes on November 15<sup>th</sup>. Members, please check your email!! You will receive an email from our Past Chair, Michele Sanders, via SurveyMonkey. 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!**

## **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.

**THE ACS SCHOLARS PROGRAM 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](#) online or [download our informational flyer](#) 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.*

## 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](mailto: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!**



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.....                             | <b>OPEN</b>                         |
| FINANCE.....   | Dr. Jeffrey Woodford, MWSU          |
| LONG RANGE PLANNING.....                                   | <b>OPEN</b>                         |
| MEMBERSHIP.....  | Dr. Jeffrey Woodford, MWSU          |
| MINORITY AFFAIRS.....                                      | <b>OPEN</b>                         |
| NATIONAL CHEMISTRY WEEK & GREEN CHEMISTRY COORDINATOR..... | Dr. Gary Clapp, MWSU                |
| NEWSLETTER EDITOR.....                                     | Mrs. Mary Jean Clapp, SJSU/emPowerU |
| NOMINATIONS Local Section Executive Committee....          | Mr. Jon Tally, Park University      |

|                                  |   |
|----------------------------------|---|
| PROFESSIONAL RELATIONS.....      | <b>OPEN</b>   |
| PROGRAM.....                     | Dr. William Gutheil, UMKC                                       |
| PUBLIC (Government) AFFAIRS..... | <b>OPEN</b>   |
| PUBLIC RELATIONS.....            | Dr. Gary Clapp, MWSU  |
| SAFETY.....                      | Ms. Michele Sanders, Harcros Chemicals                          |
| SENIOR CHEMIST.....              | <b>OPEN</b>   |
| SPENCER AWARD NOMINATIONS.....   | Mr. Jon Tally, Park U (Acting Chair; Long Term is <b>OPEN</b> ) |
| 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  
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](mailto:Clappmj@aol.com)  
Website Director: Gary Clapp [gclapp@missouriwestern.edu](mailto:gclapp@missouriwestern.edu)  
Immediate Past Chair: Michele Sanders (Harcros) (913) 621-7889

**Check out our  
website!!** American  
Chemical Society  
Kansas City Section  
Visit us online:  
**[www.acs-kc.com](http://www.acs-kc.com)**

NOVEMBER 2019  
American Chemical Society  
Kansas City Chemist  
2903 Wiltshire Court  
St. Joseph MO 64506