**Monthly Membership Meeting**

**STUDENT/TEACHER AWARDS**

**MAY 2020**

**Our Monthly membership meeting, in which we recognize and honor students who qualified to take the United States National Chemistry Olympiad Exam and their teachers, will take place virtually later this month. We regret that we cannot meet to celebrate these students and teachers at our Annual Banquet but we must put safety first.**

**Please see page 2 of this publication for more information on these well deserving students. Thank you to the mentors who continue to help our students prepare for this challenging competition.**

**Links for the latest COVID-19 Information.**

<https://www.cdc.gov/>

<https://health.mo.gov/>

<https://www.who.int/>

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

**Can Vaccine Development be Safely Accelerated?**

<http://www.processdevelopmentforum.com/articles/can-vaccine-development-be-safely-accelerated/>

Please join us in congratulating our 50 & 60 year members!!

They are:

**Dr. Patricia N. Dalrymple (50 year)**

**Dr. Derek H. Ball (60 year)**

**Dr. Milton E. Noelken (60 year) and**

**Mr. Gerald l. Schwebke (60 Year)**

Thank you all for your many years of membership & service!!

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* **AMERICAN CHEMICAL SOCIETY 1876-2020**
* **144 YEARS**
* **\*Make sure to check out our website!!**
* **www.acs-kc.com**

**ACS**

 Chemistry for Life

the kc chemist

may 2020

Volume 71 Issue 9

**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” …**



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| **2020 UNITED STATES NATIONAL CHEMISTRY OLYMPIAD** **The competition will be held in Istanbul, Turkey July 6-15, 2020.****Congratulations to those students who qualified to take the 52nd international chemistry Olympiad exam!!****Due to COVID-19, there was a two-part Digital National Exam administered and taken April 26 & May 3 online from home. The students who qualified to take Part One of the Digital National Exam are (in no particular order):****Luke Chen, Blue Valley North High School****Rishab Gaur, Pembroke High School****Wade Boohar, Olathe High School****Suhan Syeed, Blue Valley Northwest High School****Alan Abraham, Blue Valley West High School****Noah Lively, Liberty High School****Samuel Liu, Olathe High School****Drake Smith, Blue Valley Northwest High School****Abihith Kothapalli, Blue Valley West High School****Kendal McMullen, Liberty High School****We are pleased to announce and congratulate two of these students who qualified to take Part Two of Digital National Exam on May 3!! Nationwide, only the top 150 students from Part One were invited to take Part Two this year!****Those students are: Abihith Kothapalli, Blue Valley West High School (Bradley Banning, Teacher) and** **Alan Abraham, Blue Valley West High School (Bradley Banning, Teacher)****Please join us in congratulating these two students and their teacher for this accomplishment! Thank you, also, to all the mentors who continue to help our students prepare for this challenging competition.****Congratulations to you all and best wishes!****Upcoming Events/Save the Date****June’s Virtual Meeting: Wed., June 17, 2020****Talk Title:** “The Concept of Hierarchical Interactions in State Systems: Applications to Polyprotic Acids and Bases, and Hemoglobin Oxygen Binding Equilibria”**Our Presenter will be Dr. Bill Gutheil, UMKC School of Pharmacy** **Annual Kenneth A. Spencer Award Banquet: October 8, 2020****Sponsored by the ACS-KC Section. Our Spencer Award Winner is** **Dr. Jerry W. King.** The Annual Award Presentation and Banquet will be held on Missouri Western State University’s campus this year. Stay tuned to our newsletter this summer as the details emerge but please mark your calendar and plan on celebrating Dr. King’s achievements with us!**About our virtual speaker in June**Dr. William Gutheil has been an ACS member since 1982. CURRENT POSITION: Professor, UMKC School of Pharmacy. EDUCATION: Bachelor of Science (1983), Biochemistry, California Polytechnic State University, San Louis Obispo, CA. Doctor of Philosophy (1989), Chemistry, University of Southern California; Postdoctoral Research Fellow (1989-1991), Harvard Medical School, Boston MA; Postdoctoral Research Associate (1991-1994), Department of Biochemistry, Tufts University School of Medicine, Boston MA; Career Publications: 55. RESEARCH: Dr. Gutheil established and directs the UMKC School of Pharmacy LC-MS/MS resource. His primary research focus is on antibacterial drug action, resistance, and new drug discovery. He also has a longstanding interest in theoretical and applied biophysics.**About the presentation**Systems with multiple equilibria are common in chemical and biochemical systems. Examples include polyprotic acids, polyprotic bases, and hemoglobin oxygen binding. Classic methods for formulating these systems are inadequate for a deep understanding of their behavior, and this has impeded our ability to analyze and interpret their behavior. In this talk I will present a system for treating such systems based on the concept of hierarchical interaction. This approach has deep connections to probability theory, and statistical thermodynamics. This approach will be illustrated by its application to the analysis of the proton equilibria of a number of polyprotic acids and bases.\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***ABOUT OUR KENNETH A. SPENCER AWARD WINNER**Jerry King was born on February 19, 1942. Dr. King has over 55 years of experience in supercritical fluid technology, chemical separations, chromatography, and applied chemical engineering & chemistry. He is a native of Indianapolis, Indiana, graduating from Butler University in 1965 with a B.S. in Chemistry. Dr. King continued with graduate studies at Butler University and the University of Utah, where he worked with Professor J. Calvin Giddings on supercritical fluid chromatography. In 1973, Dr. King received his Ph.D. in surface characterization studies using chromatographic methods from Northeastern University in Boston, Massachusetts under the direction of Professor Barry Karger. He then conducted postdoctoral research in physical chemistry under Professor Daniel Martire at Georgetown University in Washington, DC.Dr. King currently is a R&D Consultant at CFS in Fayetteville, AR. Prior to this, he held an Endowed Professorship in the Department of Chemical Engineering at the University of Arkansas from 2005-2012., From 2002-2005, he was Program Manager/Research Scientist in the Supercritical Fluid Facility at the Los Alamos National Laboratory. Dr. King was also the Lead Scientist of the Critical Fluid Technology Group at the National Center for Agricultural Utilization Research (NCAUR) in Peoria, Illinois for 16 ½ years. His research interests include the development of critical fluid technology for food and agro-material processing, materials science, and analytical applications. He has authored over 275 publications (205 are peer-reviewed, including three patents) in SFE, SFC, and related separation techniques; and has lectured extensively on these subjects over the past 40 years at national and international symposia, including the ACS Short course on SFE/SFF/SFC with Professor Larry Taylor. Dr. King has organized many symposia on SFE and SFC, including the well-known International Symposia on SFC and SFE. He serves on the editorial board of the Journal of Supercritical Fluids, Italian Journal of Food Science, Journal of the American Oil Chemical Society, INFORM, and is a member of ACS, AIChE, AOCS, IFT, AOAC, ASTM, and US or international critical fluid technology groups. He is a Vice President of the International Society for the Advancement of Supercritical Fluids (ISASF). Dr. King has also worked at several industrial companies and R & D organizations. These have included Arthur D. Little, Inc. (Cambridge, Massachusetts), Union Carbide Corporation (Bound Brook, New Jersey), and CPC International (Summit-Argo, Illinois). His activities while with ADL involved technical support to chemistry, food & agribusiness sectors of the company, and collaboration with the supercritical fluid venture development team. At CPC, he was in charge of HPLC methods development for biotechnology, installation of a process chromatography, and industrial analysis of saccharides and starch polymers. While at USDA and Los Alamos, Dr. King interacted extensively with industrial partners via CRADA and SBIR collaborations to commercialize processes dealing with environmentally-benign production of value-added agricultural and botanical materials and CO2 – based cleaning and microelectronics production. His R & D activities have involved extensive interaction with government regulatory agencies such as FSIS, FDA, FGIS, EPA, and DOE as well as Euro-based agencies.  In 1993, Dr. King was named Scientist of the Year at NCAUR, and in 1994 was elected a corresponding member of the Accademia dei Georgofili in Florence, Italy. Dr. King has been awarded the Chicago Chromatography Discussion Group’s Merit Award for significant contributions to chromatography and elected to Who’s Who in America. He was awarded AOAC’s prestigious Harvey Wiley Award in 1997 for his research in analytical SFE. In 1998 he received the the Merit Award from the Midwest SFC Group/Tri-State Discussion Group for consistent contributions in the supercritical fluid technology field, and the Award of Excellence at the 8th International Symposium on SFC/SFC for “pioneering achievement, leadership, and enthusiasm in the development of supercritical fluid technology and the education of others”. He was awarded an Underwood Fellowship in 1999 for sabbatical study in the United Kingdom. In the year 2000, he received the Keene P. Dimick Award at Pittcon for his contributions to the field of gas and supercritical fluid chromatography. Dr. King has also awarded the 1st Place Award for Consumer Products from the Federal Laboratory Consortium for Technology Transfer - Midwest Region. He also has been awarded the Herbert J. Dutton Award from the American Oil Chemists’ Society for his contributions to the analysis and processing of lipids and oils. He was selected for a Marie Curie Chair by the European Union in Brussels, Belgium in 2004. Dr. King has been Adjunct Professor in the Department of Food Science at the University of Arkansas. In 2007 he was the Outstanding Researcher in the Department of Chemical Engineering at the University of Arkansas. In 2008 he was appointed as the Mariwala Visiting Professorship at UICT in Mumbai, India. In 2009, Dr. King chaired and organized the 10th International Symposium on Supercritical Fluids, held in San Francisco, CA, May 13-16, 2012. He serves as USA liaison to Innovation Fluides Supercritiques, a French organization for the promotion of supercritical fluids. In May 2012, he was elected a fellow of the American Oil Chemists’ Society. In 2013, he was also elected a Fellow of the Industrial & Engineering Division of the American Chemical Society. In 2015, Dr. King was appointed to a Visiting Fulbright Research Chair at the University of Alberta. In 2018, he was the Chairman of the Separation Science & Technology a Sub-Division of the ACS. He currently serves as the Program Chair for the ACS sub-division on Cannabis Chemistry. In August, 2020, he will receive the Kenneth A. Spencer Award from the American Chemical Society for his contributions to agricultural & food technology based on his research in the use of “green” analysis and processing technologies related to environmental sustainability and consumer safety. |
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**ACS-KC Section**

**Standing Committees & Chairs**

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

**\*Please contact Sarah Leibowitz at:** **sleibowitzacs@gmail.com** **if you are interested in joining one of the committees, or chairing one of the “open” committee positions.**

**We thank you and welcome your input and assistance!!**

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may 2020

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