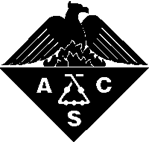
September 2025

Volume 77 Issue 2

**ACS**

Chemistry for Life



Please RSVP to Sarah Leibowitz: [sleibowitzacs@gmail.com](mailto:sleibowitzacs@gmail.com) by Saturday, Sept. 20, 2025.

Thank you!

**Inside this issue**:

Member Meeting p1

Spencer Award p1

Quasquicentennial P1

Bio/Abstract Upcoming Events p2

Comm. Chairs p3

Exec. Board Members p4

**ACS-KC Section Monthly membership meeting**

**WHAT: Quasquicentennial Celebration and Giveaway**

**When: Thursday, September 25, 2025; 6:00pm**

**Where: Arthur Mag Conference Center, 425 Dr. Martin Luther King Jr. Blvd, KCMO**

**Menu: Salad, Variety of Pasta Dishes and Dessert Catered by Garozzo’s. We will also have wine, ciders, beer, and water**

**Speaker: Mr. Alex Marin, Materials Engineer, KC National Security Campus, managed by Honeywell**

**Title: “Chemistry of (Polymer) Additive Manufacturing”**

**COST: $5 for students and retirees; $10 for everyone else**

**\*Make sure to check out the giveaways (listed below)!**

**Kenneth A Spencer Award Winner, Dr. Gary List**

**Please mark your calendar and plan on joining us as we celebrate this year’s Spencer Award Recipient, Dr. Gary List, on Thursday, October 16, 2025. The Banquet and Presentation will be held at Grand Street Café, 4740 Grand Ave., KCMO.**

Dr. List is nationally and internationally recognized as an authority on oilseed processing and edible fats and oils. His research has encompassed analytical methods development, deterioration of soybeans in international trade, alternative oil processing, causes of non-hydratable phosphatides in soybean processing, long term storage of vegetable oils, lecithin recovery, use of supercritical fluids in lipid chemistry, interesterification of triglycerides, hydrogenation, removal of trans fats from the food supply. Formulation of trans free margarines and spreads…His research has had major impact on the edible industry. Analytical methods he developed are used in quality control labs worldwide. His research brought first generation trail modified soybean oils to commercialization. Three major oil processors brought zero trans fats to the marketplace based on his research on interesterification and modified hydrogenation technologies.

**ACS-KC Section Celebrates its quasquicentennial**

This year, the KC Section is celebrating its Quasquicentennial, which is our **125th Anniversary!** That’s right, the section was founded in 1900!

The section recently received a $2,000 grant from the National ACS in support of our Quasquicentennial Celebration, and **we will have a giveaway** at our ***September membership meeting and another at the Spencer Award Ceremony in October*** so we hope you can join us! The giveaways: Bambu Lab A1 3-D printer (2024 Desktop 3D Printer of the Year from 3D Printing Industry; Tom’s Hardware Editor’s Choice Award Winner). One printer has an Automatic Material System (multicolor) and the other printer has a Sunlu S2 filament dryer. Each printer comes with spare parts such as additional build plates and hotends and multiple 1kg spools of Sunlu PLA/PETG filament (50 hours of printing per spool). There will also be a wide variety of chemistry-related and fun 3D printed trinkets available for all attendees. We hope to see you at both the Mag Center Sept. 25th and Grand Street Cafe on Oct. 16th!

We are also planning a membership meeting where we will review the past 125 years of history of the section. If you have ideas for events or celebrations that you would like to see for our Quasquicentennial, please do not hesitate to contact Jeff Woodford at [jwoodford@missouriwestern.edu](mailto:jwoodford@missouriwestern.edu).

* **AMERICAN CHEMICAL SOCIETY 1876-2025**
* **149 YEARS**
* **\*Make sure to check out our website!!**
* **www.acs-kc.com**

the kc chemist

**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” …**



**Bio on September’s Speaker:**

Alex Marin works as a Materials Engineer at the Kansas City National Security Campus (managed by Honeywell Federal Manufacturing & Technologies). In this role, he investigates mechanical properties and degradation of polymers. Alex also researches new applications for additive manufacturing technologies and maintains engineering specifications for manufacturing inputs as a product engineer. Alex has a Bachelors in Materials Science and Engineering from Georgia Tech and a master’s in business administration from UMKC. In his free time, Alex enjoys soccer, hiking, and traveling, and serves as the Secretary for the Kansas City Section of the American Chemical Society (ACS).

**Abstract for September’s Membership Meeting:**

Additive manufacturing (AM) has rapidly expanded in recent years, with desktop extrusion and resin-based systems becoming widely available to average consumers and new technologies being implemented on an industrial scale. AM processes fundamentally rely on chemistry, with molecular design, polymerization pathways, and formulation strategies governing printability, interlayer adhesion, and final material properties. This talk will discuss the role of thermoplastics, thermosets, and reactive resins in extrusion, vat photopolymerization, and powder-based AM processes. Highlights include how additives, crosslinkers, and fillers are used to tune rheology, cure kinetics, and mechanical performance and illustrating how chemical control enables advances in sustainability, multifunctional materials, and next generation AM applications.

**Upcoming Events:**

**ACS Midwest Regional Meeting 2025**

**October 12-14, 2025, Columbia MO**

**Host Section:** University of Missouri Local Section

Visit: mwrm2025.org for more information.

**Spencer Award: Congratulations to Dr. Gary List (D.Sc.)!**

Dr. List was a Lead Scientist at the National center for Agricultural Utilization Research in Peoria IL. He has been involved in research for over 50 years, and we welcome the opportunity to celebrate him at our Annual Awards Dinner & Presentation on **Thursday, October 16, 2025, at Grand Street Café**, KCMO. Dr. List’s talk title is: “Thermodynamic Properties of Triglycerides: Experiments and Models.” Mark your calendar and stay tuned for more information. While Dr. List will be honored in person in Kansas City, we’re excited to share that we’ll be hosting a high-quality virtual symposium dedicated to his incredible contributions. This engaging online event will take place *after* the ACS National Meeting, offering a convenient and accessible way for everyone to participate and learn.

**A person with a white beard

AI-generated content may be incorrect.**

**November Membership Metting:** We will meet on Tues., November 11, 2025 for a talk by Amy Christiansen, Assistant Professor of Chemistry, School of Science and Engineering, UMKC. Her talk title is: “From Farm to City: A Primer on Multi-Scale Atmospheric Chemistry Relevant to Midwestern Air Quality.”

**30% Membership Discount!** Claim your ACS membership discount (for joining or renewing) between September 5- November 15, ’25 by entering code: **LSGROW2025.** Visit <https://www.acs.org/membership.html> to join or renew today!

**Slate of Officers:** It’s time to consider taking a position on the Executive Board! Open positions include Chair-Elect, Treasurer, and Secretary. Voting will take place prior to November 15, 2025. We’d love to have you join the discussion on where to take the section!

**ACS-KC Standing Committees & Chairs**

**Please consider volunteering on one (or more) of our committees!**

**We welcome your thoughts, ideas, and contribution!**

**\*Please contact Gary Clapp (**[**geclapp424@yahoo.com**](mailto:geclapp424@yahoo.com)**) if you are interested in one of the committees. Thank you! We would appreciate it, and we welcome your input and assistance!**

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A green check mark in a circle

Description automatically generatedCheck us out on Facebook: ACS-KC and LinkedIn: ACS-KC

**COMMITTEES and CHAIRS**

AWARDS……………………………………………………………………Alcinda Ruuskanen, MWSU

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

ENVIRONMENTAL IMPROVEMENT………………………......Dr. Shuo Han, UMKC

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

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

MEMBERSHIP…………………………………………………………...Mr. Alex Marin, Honeywell

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

NCW & GREEN CHEMISTRY COORDINATOR……………….**OPEN**

NEWSLETTER EDITOR………………………………………………..Mary Jean Clapp, EDUStaff/emPowerU

NOMINATIONS Local Section Executive Committee….**OPEN**

PROFESSIONAL RELATIONS……………………………………….Dr. David Van Horn, UMKC

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

PUBLIC (Government) AFFAIRS…………………………………Dr. Gary List, University of IL, Urbana-Champaign

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

SAFETY………………………………………………………………………Michele Sanders, Harcros Chemicals

SENIOR CHEMIST………………………………………………………Mr. Mark Northrup, Retired

SPENCER AWARD NOMINATIONS……………………………..Dr. Tom Hemling, TCH Animal Health, LLP

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

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

**ACS-KC Section 2025 EXECUTIVE BOARD MEMBERS**

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

**Visit our website!!** American Chemical Society

Kansas City Section

View online**:**

**www.acs-kc.com**

**Chair-Elect: Dr. Gary Clapp (Retired, MWSU) (816) 341-3230**

**Treasurer: Dr. Jeff Woodford (MWSU) (816) 271-4100**

**Secretary: Mr. Alex Marin (Honeywell) (919) 215-6425**

**Councilor: Dr. Sarah Leibowitz (TriRX Pharm. Serv.) sleibowitzacs@gmail.com**

**Alt. Councilor: Michele Sanders (Harcros Chemicals) (913) 621-7883**

**Newsletter Editor: Mary Jean Clapp (SJSD)** [**Clappmj@aol.com**](mailto:Clappmj@aol.com)

**Website Director: Gary Clapp (Retired, MWSU)** [**geclapp424@**](mailto:gclapp@missouriwestern.edu)**gmail.com**

**Immediate Past Chair: Mr. James Partridge (Honeywell) (913) 669-2441**

SEPTEMBER 2025

American Chemical Society

Kansas City Chemist

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