



## Chem News - October 18, 2024

### Today

**Friday, October 18th at 4:00pm** in **CP 114**, Dr. Jarrett Vella from the Air Force Research Laboratory will present *Infrared Detection using Conducting Polymers*. His research seeks to identify ultralow cost infrared sensors with minimal size and weight requirements for use in terrestrial and space applications. For more information, click [here](#).

### Upcoming Events

**27<sup>TH</sup> ANNUAL  
LYLE RAMSAY DAWSON LECTURE**

**“Purely Organic Emitters for Organic Light-Emitting Diodes (OLEDs): A Journey through Organic Electronics”**

**Dr. Jean-Luc Brédas**

### 27<sup>th</sup> Annual Dawson Lecture

**Friday, October 25th at 4:00pm** in **CP 155**, The Department of Chemistry presents the Lyle Dawson Lecture Series. This year's speaker is Dr. Jean-Luc Brédas from the University of Arizona, Department of Chemistry & Biochemistry. This year's topic is *Purely Organic Emitters for Organic Light-Emitting Diodes (OLEDs): A Journey through Organic Electronics*. For more information, click [here](#).

**SUSAN A. ODOM  
LECTURE**

**“Chemo-mechanics  
in all solid state  
batteries”**

**Dr. Kelsey Hatzell**

Associate professor, Princeton University

Established in memory of Professor Susan A. Odom '03  
(1980 - 2021)  
UK Chemistry faculty, 2011 - 2021

## Susan A. Odom Lecture

**Friday, November 1st at 4:15pm** in **JSB 121**, The Department of Chemistry Presents the Susan A. Odom Lecture Series. This year's speaker is Dr. Kelsey Hatzell from Princeton University. She will present *Chemo-mechanics in all solid state batteries*. This lecture series commemorates the life and legacy of Professor Susan Odom, an energetic, productive, and driven faculty member in the Department of Chemistry from 2011 to 2021. For more information, click [here](#).

**Friday, November 8th at 4:00pm** in **CP 114**, Dr. Laurent Nahon from the French Synchrotron Laboratory in Saint Aubin, France, will present *Scientific opportunities in molecular sciences offered by coupling VUV synchrotron radiation with a double imaging electron/ion coincidence spectrometer*. For more information, click [here](#).

**Friday, November 22nd at 4:00pm** in **CP 114**, Dr. Thuy Duong Nguyen Phan from the U.S. Department of Energy National Energy Technology Laboratory (NETL) will present *Overview of NETL's Low Temperature CO<sub>2</sub> Electrolysis Research*. For more information, click [here](#).

For a list of all past and upcoming events, please visit our [Events Overview](#).

## Student Spotlight

### 'UK at the Half': Enhancing research skills with CURE Summer Fellowship

Fourteen University of Kentucky students spent the summer expanding their research skills through the **Commonwealth Undergraduate Research Experience (CURE) Fellowship program**, sponsored by the **Office of Undergraduate Research** and the **Office of the Vice President for Research**. UK junior Carter Pryor worked with Kenneth Graham, Ph.D., in the College of Arts and Sciences' Department of Chemistry, on finding new ways to measure the electric conductivity of certain types of materials.

*“Research is not as intimidating as you might think. A lot of people are happy to work with you. Don't be afraid to give it a shot because it really does have the opportunity to provide you with amazing experiences you wouldn't get otherwise, no matter what field you're going into. Even outside the sciences, there's a lot of opportunities in research. I highly recommend it.”* - Carter Pryor

## CURE Fellowship

## Faculty Spotlight



### Markey Cancer Center Names UK Chemistry Professor as Co-Leader of Translational Oncology Research Program

The Markey Cancer Center at the University of Kentucky has appointed Samuel G. Awuah, PhD, as the co-leader of the **Translational Oncology Research Program**. Awuah's research program is focused on the discovery and development of chemical probes and therapeutic leads to interrogate complex biological processes and cure inflammatory and cancer-related diseases.

[Read More](#)



### UK Professor Appointed to Federal Fusion Energy Sciences Advisory Committee

Beth Guiton, professor of chemistry, Frank J. Derbyshire Professor of Materials Science and director of undergraduate studies in the University of Kentucky's Department of Chemistry in the College of Arts and Sciences, has been appointed to join the federal **Fusion Energy Sciences Advisory Committee**. Guiton's research group uses microscopy to study the chemistry of nanomaterials in real-time and on the single atom length-scale.

[Read More](#)

## Employment Opportunities

**The U.S. Federal Bureau of Investigation (FBI) Critical Incident Response Group (CIRG)** is accepting applications for their Visiting Scientist Program (VSP). CIRG consists of a cadre of special agents and professional support personnel who provide expertise in crisis management, hostage rescue, surveillance and aviation, hazardous devices mitigation, crisis negotiations, behavioral analysis, and tactical operations. As a **research fellow** with the Critical Incident Response Group (CIRG) Visiting Scientist Program (VSP), you will enhance your professional development and increase your research capabilities by participating in research initiatives under the mentorship of CIRG research personnel. The VSP will expose you to a work environment in a high security government facility and will provide an opportunity to perform research in areas of interest unique to law enforcement and national security. Applications are reviewed on a rolling basis. For more information and to apply, click [here](#).

**The Office of Dietary Supplements (ODS)** is seeking a Postdoctoral Fellow for a project entitled, "Healthy Kids, Healthy Force, Healthy Nation." The ODS serves as the lead program office focused on advancing and disseminating research on dietary supplements to foster knowledge and optimize health across the lifespan. This project centers on the role of exercise,

dietary supplements, behavioral health, and underlying dietary habits on obesity, musculoskeletal health, and resilience in youth populations, including and especially those who are underserved and experiencing health disparities. Under the direction of a mentor, the fellow will learn how to design, contribute to, and perform timely literature reviews of efficacious well-designed interventions and programs, commentaries or position papers, and novel epidemiological analyses. The goal of these collective research efforts is to draw attention to the pressing need to prioritize prevention health behaviors (physical activity, nutrition, dietary supplement use, and healthy weight), with a frame of whole person health throughout the life course to promote workforce readiness. Applications will be reviewed on a rolling-basis, and mentors will select candidates as projects become available. For more information and to apply, click [here](#).

**The Advanced Materials and Manufacturing Technologies Office (AMMTO)** is seeking Fellows to engage in existing efforts in material circularity. AMMTO funds research and development that enables and advances circular supply chains through Re-X pathways such as recycling, reuse, repair, remanufacturing, and repurposing. Fellows will provide technical and policy advice on AMMTO's material circularity portfolio and support the team's active project management of existing portfolio. This portfolio spans multiple offices within DOE and will include coordination and collaboration with the Office of Science, Bioenergy Technologies Office (BETO), Strategic Analysis, and others. Additionally, Fellows will collaborate on interagency connections between DOE efforts and the efforts within NSF, EPA, State Department, and Department of Commerce. Fellows will also provide input on analysis efforts and stakeholder engagement that inform and provide direction for future investment in material circularity. This Fellowship will last one year, with the opportunity to renew for additional years at the discretion of the sponsoring office. Applications are reviewed on a rolling basis. For more information about AMMTO, click [here](#). To apply, click [here](#).

**The Joint Office of Energy and Transportation (JOET)** is seeking dynamic, innovative Fellows for electric vehicles charging research. JOET applies a collaborative interagency approach to support the investment in, and deployment of, a convenient, reliable, affordable, accessible, and equitable national EV charging network supporting the successful execution of BIL funds for (1) states to build a national EV charging network along corridors, (2) community EV charging, (3) low- and no-emission transit buses, and (4) electric school buses. This Fellowship will last one year, with the opportunity to renew for additional years at discretion of the sponsoring office. Applications are reviewed on a rolling basis. For more information and to apply, click [here](#).

**The Office of Critical and Emerging Technologies (CET)** is searching for a fellow to collaborate closely with all elements of the CET Office and with relevant DOE program offices across the complex. The CET facilitates an exchange among Departmental entities responsible for the development of critical and emerging technologies to advance Department of Energy (DOE) mission priorities. Emerging Technologies may include but are not limited to artificial intelligence and machine learning, quantum information and sensing technologies, high-performance computing, communications technologies, semiconductors and microelectronics, biotechnology, biomanufacturing, synthetic biology, genomics, pandemic surveillance and detection, advanced materials and manufacturing, and robotics and automation. The fellow will be mentored by the CET Director. For more information and to apply, click [here](#).

**The Building Technologies Office (BTO)** is seeking innovative fellows to participate in U.S. Department of Energy (DOE) clean energy initiatives. As a Fellow, you will engage and interact closely with BTO staff and National Laboratory scientists on research, development, and deployment of building energy codes and building performance standards to produce significant energy savings across the built environment. Fellows will experience full immersion in the **Building Energy Codes Program (BECP)** and **Commercial Buildings Integration (CBI)** technical projects and activities, interacting with experts in academia, industry, and at the National Labs. Fellows will also engage a diverse mix of state, local, and non-governmental stakeholders. You may also engage with other programs at the Department of Energy and across the Federal government. This Fellowship will last one year, with the opportunity to renew

for additional years at the discretion of the sponsoring office. For more information and to apply, click [here](#).

**C&EN Job Opportunities** brought to you by the **American Chemical Society**.



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