Luke Hanley has been a faculty member at the University of Illinois at Chicago (UIC) since 1990. He received his B.Sc. and Specialist in Chemistry from the University of Toronto in 1983 and his Ph.D. in physical chemistry from the State University of New York at Stony Brook in 1988. He was awarded a National Science Foundation (NSF) Postdoctoral Research Fellowship in Chemistry in 1988 which he served at the University of Pittsburgh, was an NSF Young Investigator in Chemistry from 1994 to 1998, and also a University of Illinois Scholar during this period. He was awarded the UIC Researcher of the Year Award and was elevated to Fellow of the American Vacuum Society in 2009. Finally, he spent 2017 - 2018 as an NSF Program Officer in the Chemistry Division in Alexandria, VA.

His research has focused on the modification and analysis of organic, nanocomposite, and biological surfaces and films. He has developed and applied various advanced instrumental methods in mass spectrometry, photoionization, and photoemission. His nearly 140 refereed papers cover a diverse array of topics including laser desorption, laser photoionization, surface science, mass spectrometry, analytical chemistry, bioengineering, and microbiology. Wiley-VCH will publish in 2020 the book that he co-edited with Ralf Zimmermann: "Photoionization and Photo-induced Processes in Mass Spectrometry: Fundamentals and Applications". He is currently using advanced methods in mass spectrometry imaging to identify biomarkers of the ancient biofilms that are thought to have formed the Earth’s atmosphere and explore how phenotype impacts metabolic processes in multispecies microbial communities. His work has been funded by NSF, the National Institutes of Health, NASA, the Department of Defense, and the Department of Energy. He has also been exceptionally active in service and educational innovation during his entire career at UIC, including serving as Head of the Department of Chemistry from 2010 - 2017.

Harnessing Photoionization for the Analysis of Complex Biological & Synthetic Systems

WEDNESDAY, NOVEMBER 20, 2019
3:30 – 5:30 P.M.

750 S. Halsted St., Chicago, IL
Cardinal Room, Student Center East
Reception to follow
Please RSVP to lasevents@uic.edu no later than November 15.