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Soft Optical Systems as Biointegrated Technologies: From Biological Research to Clinical Health Care

Tuesday, March 7, 2023 1:00 PM - 2:00 PM EST

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.: About This Webinar

Advanced optoelectronic systems that can intimately integrate with soft living tissues have the potential to accelerate progress in biological research and to serve as the foundations for new approaches in patient care. Specifically, capabilities for deploying miniaturized electronics, light sources, photodetectors, colorimetric indicators, and other components onto the surfaces of or into the depths of such tissues will open up unique and important opportunities to explore fundamental principles in biology and improve outcomes in health care.

John Rogers, Ph.D., of Northwestern University describes foundational concepts in optics, device physics, and manufacturing processes for these types of technologies, along with examples of commercialized systems for neuroengineering and patient monitoring. These examples include cellular-scale optoelectronic neural probes for behavioral research on animal models, and colorimetric microfluidic systems for assessing biochemical markers of physiological state in human subjects.

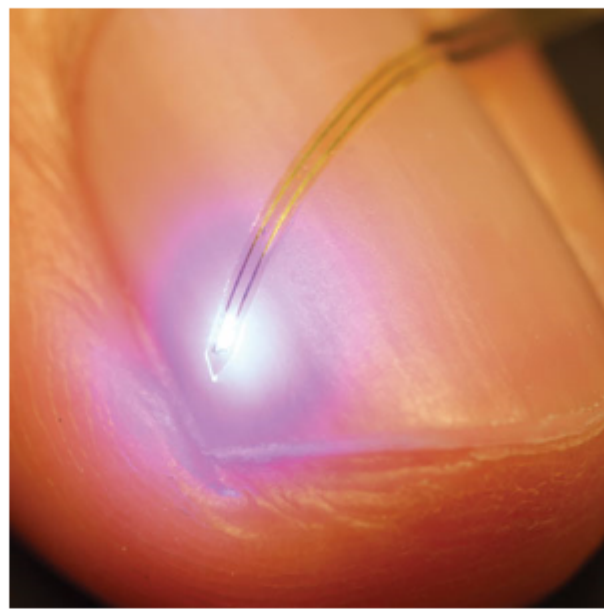
Who should attend:

Engineers, laboratory technicians, clinicians, scientists, and researchers who utilize optical systems in their work. Those who work in biology, biophotonics, the pharmaceutical industry, microscopy, spectroscopy, and medicine using optics, optoelectronics, photodetectors, miniaturized electronics, and light sources.

About the presenter:

John A. Rogers, Ph.D., is a professor at Northwestern University. He obtained bachelor's degrees in chemistry and physics from the University of Texas at Austin in 1989, a master's degree in physics and chemistry from MIT in 1992, and a doctorate in physical chemistry in 1995. He was a junior fellow in the Harvard University Society of Fellows from 1995 to 1997. He then joined Bell Laboratories as a member of the technical staff, later serving as director of the Condensed Matter Physics Research Department from 2000 to 2002. Next, Rogers spent 13 years on the faculty of the University of Illinois, most recently as the Swanlund Chair Professor and director of the Frederick Seitz Materials Research Laboratory. In 2016, he began working at Northwestern University, where he is the director of the recently endowed Querrey Simpson Institute for Bioelectronics.

Rogers has co-authored nearly 900 papers and is co-inventor of more than 100 patents. His research has been recognized with many awards, including a MacArthur Fellowship in 2009, the Lemelson-MIT Student Prize in 2011, the Smithsonian American Ingenuity Award in the Physical Sciences in 2013, the Benjamin Franklin Medal from the Franklin Institute in 2019, and a Guggenheim Fellowship in 2021. He is a member of the National Academy of Engineering, the National Academy of Science, the National Academy of Medicine, and the American Academy of Arts and Sciences.



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