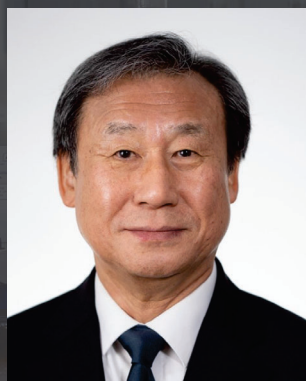


FEATURED SPEAKER



**KINAM PARK,
PHD**

*Showalter Distinguished
Professor of Biomedical
Engineering, Purdue University*

Professor Kinam Park is the Showalter Distinguished Professor of Biomedical Engineering and Professor of Pharmacy at Purdue University. He has studied controlled drug delivery systems for four decades, with a recent focus on understanding PLGA polymer properties and the mechanisms of drug release from long-acting injectable formulations. He is currently developing 2~6-month long-acting naltrexone/buprenorphine injectable formulations for treating opioid use disorder. Professor Park also serves as the president of Akina, Inc., specializing in specialty biodegradable polymers for applications in biomaterials and drug delivery. His lifetime goal is to explore every distilled spirit in the world.

SPRING 2023

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PRESENTS

DRUG DELIVERY SYSTEMS: THE REVOLUTION-EVOLUTION CYCLES

Date: April 19, 2023 **Time:** 4:00 p.m. - 5:00 p.m. EST

Location: DLR 131 **Zoom Link:** <https://bit.ly/3HsTf5R>

Meeting ID: 990 3469 5890 **Passcode:** CPR

ABSTRACT

The history of controlled drug delivery is 70 years long. There have been two cycles of revolution-evolution in drug delivery technologies. The first revolution occurred in the early 1950s, resulting in the development of numerous oral and transdermal delivery systems delivering small molecules for a day. The second revolution occurred in the late 1980s with the introduction of long-acting injectable formulations. The current COVID-19 vaccine development is a remnant of the evolution following the second revolution, comprising long-acting injectables, PEGylation, antibody-drug conjugates, and nucleotide delivery. We are entering the twilight zone of the third revolution in drug delivery technologies that can fulfill current and future unmet needs. As life expectancy increases, more people require long-term care for various diseases. Knowing the drug delivery history is essential in understanding the limitations of the current delivery systems and obtaining a glimpse of new technologies to come. This presentation deals with a bird's eye view of the drug delivery system's history and preparation for the future.



Center for Paralysis Research