



Missouri Water Resources Research Center
Department of Civil and Environmental Engineering
Department of Chemical Engineering

Chancellor's Distinguished Visitors Program Lecture By Professor Bruce Rittmann

Friday, October 23, 2015
4:30 PM
Ketcham Auditorium
Lafferre Hall

Pizza will be served afterwards.

Dr. Bruce E. Rittmann is Regents' Professor of Environmental Engineering and Director of the Swette Center for Environmental Biotechnology in the Biodesign Institute at Arizona State University. His research focuses on the scientific and engineering fundamentals needed to "manage microbial communities to provide services to society." Services include generating renewable energy, cleaning water and soil, and improving human health. Dr. Rittmann is a member of the National Academy of Engineering; a Fellow of the American Association for the Advancement of Sciences, the Water Environment Federation, and the International Water Association; and a Distinguished Member of ASCE. Dr. Rittmann was awarded the first Clarke Prize for Outstanding Achievements in Water Science and Technology from the National Water Research Institute and the Walter Huber Research Prize and the Simon Freese Award from ASCE. Dr. Rittmann is on the List of Most Highly Cited Researchers of the Institute for Scientific Information and has published over 570 journal articles, books, and book chapters. Together with Dr. Perry McCarty, Dr. Rittmann authored the textbook *Environmental Biotechnology: Principles and Applications* (McGraw-Hill Book Co.).



Dr. Bruce Rittmann



Making CO₂ a Resource, Not a Liability

Abstract: This presentation lays the context for why society needs to exploit photosynthetic microorganisms to replace fossil fuels. It then focuses on two paths for utilizing photosynthetic bacteria to generate massive amounts of renewable fuel feedstock that can replace the energy services we now obtain from fossil fuels.