

DEPARTMENT OF CHEMISTRY AND ENVIRONMENTAL SCIENCE
SEMINAR SERIES
FALL 2021

DATE: WEDNESDAY, DECEMBER 1, 2021

LOCATION: Kupfrian Hall - 117

TIME: 1:00-2:20PM

GUEST SPEAKER

Dr. Jennifer Apell
Assistant Professor
Department of Civil and Urban Engineering
New York University
New York City, NY

TOPIC

The fate of pesticides in environmental systems: moving towards predictive modeling and improving guidance

ABSTRACT

Pesticides are a unique class of chemicals because their use necessitates their direct release into environmental systems. While most pesticides are subject to federal regulations that require a relatively thorough evaluation of environmental behavior, there are still large knowledge gaps. This presentation will demonstrate how characterizing the sunlight-driven degradation pathways of these chemicals can help us better predict the environmental fate of these chemicals as well as structurally related compounds. We will also discuss how advances in environmental chemistry can be leveraged to improve the guidance for environmental fate assessments conducted by chemical manufacturers.

BIO

Dr. Jennifer Apell is an Assistant Professor in the Department of Civil and Urban Engineering at NYU. Her research focuses on characterizing the processes that control the environmental fate of manmade organic pollutants with the aim of protecting ecological and human health. Dr. Apell earned her PhD in Environmental Chemistry from MIT in 2017 and completed her postdoctoral research at ETH Zurich in the Department of Environmental Systems Science. She has previously worked as an environmental engineer at a consulting firm and water utility and has been a visiting researcher at the National University of Singapore, Hokkaido University (Japan), and Harvard School of Public Health.

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