

# 2023-2024 POCC Lecture Series

Nov 16, 2023, 7:30 PM

Dr. Alison Levens

FMC

*Discovery of Tetflupyrolimet and Rimisoxafen*

IN PERSON @:

Carolyn Hoff Lynch Lecture Hall Chemistry Building,  
University of Pennsylvania

6:30 Reception in the Nobel Hall

Food and drinks to be provided!



The Philadelphia Organic  
Chemist's Club



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**Abstract:** Tetflupyrolimet and rimisoxafen are new mode of action herbicides currently in development at FMC. These compounds were discovered as part of FMC's efforts to control resistant weeds, which pose a significant threat to growers' ability to produce sufficient food for a growing population. This presentation will highlight the discovery and the key steps in the optimization of these herbicides, enabling progression from greenhouse actives to compounds with commercial levels of activity in the field.

**Bio:** Alison completed her PhD in the labs of Professor David Lupton at Monash University (Australia), where she developed enantioselective NHC catalyzed all-carbon annulations. During her PhD, she also worked in collaboration with Professor Herbert Mayr (Ludwig-Maximilians-Universität München) to quantify the properties of NHCs. She then undertook post-doctoral studies as a fellow of the American Australian Association with Professor David Nicewicz at the University of North Carolina at Chapel Hill, focusing on aryl functionalization by photoredox catalysis. Following her post-doc, Alison joined the discovery chemistry group at FMC in 2018, where she has discovered and led advanced herbicide programs. She has also been responsible for FMC's New Investigator Award which recognizes outstanding early career professors in disciplines aligned with FMC's research. Additionally, Alison received FMC's New Employee Award in 2021 and is an inventor on three published patent applications from her work at FMC.

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