



# 2023 WARF Therapeutics Symposium

## Presenters



**Ben Chi**  
**Emily Schroeder**  
**Tony Meza**  
UW-Madison  
Dept. of Chemistry



**Prof. Sarah Reisman**  
"New Ni-Catalyzed  
Cross-Electrophile  
Coupling Reactions"  
Caltech



**Dr. Craig Ruble**  
"Catalysis at the Intersection  
of Medicinal and Process  
Chemistry"  
Eli Lilly & Company

**Wednesday April 19<sup>th</sup>, 2023**



Department of Chemistry  
UNIVERSITY OF WISCONSIN-MADISON

**3:30 – 6:15 PM**  
**North Tower, Room S413**



**SynCat**

**Faculty Host: Prof. Shannon Stahl**

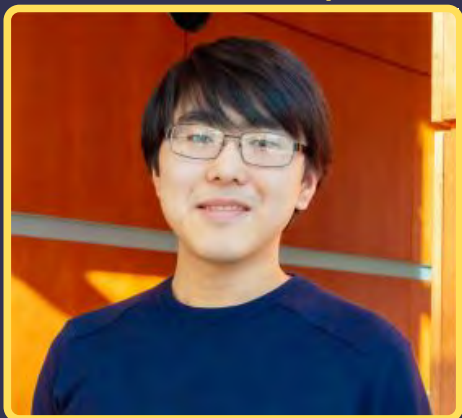
For more information, contact Mandi Thies ([mandi.thies@wisc.edu](mailto:mandi.thies@wisc.edu)) or Spencer Heins ([sheins@wisc.edu](mailto:sheins@wisc.edu))

# S413 – North Tower Schedule

3:30 – 4:15 PM

## Student Flash Presentations

**Ben Chi**  
Weix Group



**“Environmentally Friendly  
Nickel-Catalyzed Reductive  
Difluoromethylation of  
Aryl Bromides”**

**Emily Schroeder**  
Schomaker Group



**“Expanding the Scope of Silver-BOX  
Catalyzed Enantioselective C-H  
Amination via Nitrene Transfer”**

**Tony Meza**  
Buller Group



**“Biocatalytic Assembly of  
 $\beta$ -hydroxy- $\alpha$ -amino Amino Acids  
With Stereoselective C-C  
Bond Forming Reactions”**

4:20 – 5:00 PM

## Dr. Craig Ruble – Eli Lilly & Company

### **“Catalysis at the Intersection of Medicinal and Process Chemistry”**

**Abstract:** This talk will describe the role of the SynTech team within Discovery Chemistry at Eli Lilly and Company with a focus on catalysis and reaction screening capabilities. The role of the group will be highlighted by two different short vignettes. The first will describe the large scale preparation of a small, chiral diamine reagent, while the second will showcase work done in the group to reduce the need for carbon monoxide use in discovery laboratories.

5:15 – 6:15 PM

## Prof. Sarah Reisman – Caltech

### **“New Ni-Catalyzed Cross-Electrophile Coupling Reactions”**

**Abstract:** Transition metal-catalyzed reactions represent powerful tactics for carbon-carbon bond formation that have revolutionized the synthesis of natural products and medicinal chemistry leads. As an outgrowth of our natural product synthesis efforts, we have an active program in the development of new nickel-catalyzed enantioselective cross-electrophile coupling reactions, which have emerged as strategic methods to form  $C(sp^3)-C(sp^2)$  and  $C(sp^3)-C(sp^3)$  bonds. This seminar will discuss our recent progress, featuring our work in Ni-catalysis and emerging applications of Ni-catalyzed reactions in natural product synthesis.