

Chemistry Student Scholarly Activities

Honors Project

Kelsey Alexander

“The Concerted Nature of Isocyanates”

PLNU advisor – Dr. Dale Shellhamer

Kyle Dornhofer

“Iron-Catalyzed Cross-Coupling Reactions with N-Aryl Chlorides and Secondary Grignard Reagents”

PLNU advisor – Dr. Marc Perry

Jasmine Myles

“Role of Dialkylmagnesium Species in the Cobalt-Catalyzed Kumada Coupling of Aryl Bromides”

PLNU advisor – Dr. Marc Perry

Melinda Reyes

“Pain Alleviation Associated with Metastatic Spinal Tumors”

Dr. Bassem Georgy

PLNU advisor - Dr. Sara Choung

Conference Presentations

Kelsey Alexander, Christine Licata, and Ryan Robinson, and Dale Shellhamer

The concerted nature of isocyanate reactions, 249th American Chemical Society National Meeting and Exposition, Denver, CO, March 22-26, 2015.

Brent Chicoine and Laurance Beauvais

Synthesis of metal-organic frameworks containing Mn-salen active sites and their catalytic activity, 249th American Chemical Society National Meeting and Exposition, Denver, CO, March 22-26, 2015.

Matthew Steinhaus, Jordan Reader, Matthieu Rouffet, Thomas Aldrich, Philippe Rolshausen, M. Caroline Roper and Katherine Maloney

Synthesis of derivatives of the natural product radicinin that inhibit the plant pathogen Xylella fastidiosa, 249th American Chemical Society National Meeting and Exposition, Denver, CO, March 22-26, 2015.

Kyle Dornhofer, Ryan Robinson, Catherine Soni Kay, Kelsey Alexander, Brent Chicoine and Dr. Matthieu Rouffet

ACS Student Chapter: PLNU chemistry club is involved in San Diego, 249th American Chemical Society National Meeting and Exposition, Denver, CO, March 22-26, 2015.

Catherine Soni Kay and Dr. Matthieu Rouffet

Synthesis of 2-(2-sulfonamidophenyl)benzothiazole and 2-(2-sulfonamidophenyl)benzimidazole as potential inhibitors of anthrax lethal factor and other zinc metalloenzymes, 249th American Chemical Society National Meeting and Exposition, Denver, CO, March 22-26, 2015.

Kyle Dornhofer and Marc C. Perry

Isonitrile Ligands in Iron-Catalyzed Kumada Couplings of N-Aryl Chlorides, 249th American Chemical Society National Meeting and Exposition, Denver, CO, March 22-26, 2015.

Jasmine Myles and Marc C. Perry

Role of Dialkylmagnesium Species in the Cobalt-Catalyzed Kumada Coupling of Aryl Bromides, 249th American Chemical Society National Meeting and Exposition, Denver, CO, March 22-26, 2015.

Kelsey Alexander and Dale Shellhamer

The concerted nature of isocyanate reactions, West Coast Biological Sciences Undergraduate Research Conference, San Diego, CA, April 15-18, 2015.

Papers Published

Kelsey L. Alexander, Summer A. Bunting, Sarah L. Elwin, Christine J. Licata, Jacob C. Milligan, Ryan D. Robinson, Danielle E. Shipowick, Lincoln B. Smith, Dale F. Shellhamer, and Marc C. Perry, *Improved Synthetic Utility of a Sluggish Electrophile: Reaction of Chlorosulfonyl Isocyanate with Unreactive and Reactive Alkenes*, *Synthesis*, **2015**, 47, 1944-1950.

Summer 2014 - Research Participants

<u>STUDENT</u>	<u>FACULTY ADVISOR</u>
Grant Abass	Dr. Matthieu Rouffet
Kelsey Alexander	Dr. Dale Shellhamer
Brent Chicoine	Dr. Laurance Beauvais
Kyle Dornhofer	Dr. Marc Perry
Sarah Elwin	Dr. Dale Shellhamer
Catherine 'Soni' Kay	Dr. Matthieu Rouffet
Christine Licata	Dr. Dale Shellhamer
Madeleine Mathews	Dr. Laurance Beauvais
Natasha Medici	Dr. Ariane Jansma
Joey Montemurro	Dr. Marc Perry
Jasmine Myles	Dr. Marc Perry
Juan Carlos Perez	Dr. Marc Perry
Jordan Reader	Dr. Katherine Maloney
Ryan Robinson	Dr. Dale Shellhamer
William Schumacher	Dr. Laurance Beauvais
Matthew Steinhaus	Dr. Katherine Maloney
Brittany Thomas	Dr. Ariane Jansma
Jordan Thompson	Dr. Matthieu Rouffet
Connor Voss	Dr. Matthieu Rouffet

CHE499 - Research Participants, Fall 2014 – Spring 2015

<u>STUDENT</u>	<u>FACULTY ADVISOR</u>
Grant Abass	Dr. Matthieu Rouffet
Kelsey Alexander	Dr. Dale Shellhamer
Brent Chicoine	Dr. Laurance Beauvais
Noelle Coen	Dr. Laurance Beauvais
Lindsey D'Elia	Dr. Katherine Maloney
Sarah Elwin	Dr. Dale Shellhamer
Christine Licata	Dr. Dale Shellhamer
Madeleine Mathews	Dr. Laurance Beauvais
Jasmine Myles	Dr. Marc Perry
Nicole Rowley	Dr. Marc Perry
Ryan Robinson	Dr. Dale Shellhamer
William Schumacher	Dr. Laurance Beauvais
Connor Voss	Dr. Matthieu Rouffet