



Apr 21st, 2:00 PM - 3:00 PM

Synthesis of Vicinal Amino Alcohols and Acyl Aziridines from Bicyclic Aziridines

Eizabeth Sacho, '02
Illinois Wesleyan University

Alexander Smetana, '01
Illinois Wesleyan University

Jeff Frick, Faculty Advisor
Illinois Wesleyan University

Follow this and additional works at: <https://digitalcommons.iwu.edu/jwprc>

Sacho, '02, Elizabeth; Smetana, '01, Alexander; and Frick, Faculty Advisor, Jeff, "Sythesis of Vicinal Amino Alcohols and Acyl Aziridines from Bicyclic Aziridines" (2001). *John Wesley Powell Student Research Conference*. 7.

<https://digitalcommons.iwu.edu/jwprc/2001/posters2/7>

This Event is protected by copyright and/or related rights. It has been brought to you by Digital Commons @ IWU with permission from the rights-holder(s). You are free to use this material in any way that is permitted by the copyright and related rights legislation that applies to your use. For other uses you need to obtain permission from the rights-holder(s) directly, unless additional rights are indicated by a Creative Commons license in the record and/ or on the work itself. This material has been accepted for inclusion by faculty at Illinois Wesleyan University. For more information, please contact digitalcommons@iwu.edu.

©Copyright is owned by the author of this document.

Poster Presentation 18

**SYNTHESIS OF VICINAL AMINO ALCOHOLS AND ACYL AZIRIDINES
FROM BICYCLIC AZIRIDINES**

Elizabeth Sacho and Alexander Smetana, and Jeff Frick*

Department of Chemistry, Illinois Wesleyan University

Vicinal amino alcohols are found in many biologically important molecules, including hydroxyamino acids. While there are many ways to synthesize these types of compounds, we present the synthesis via a bicyclic aziridine intermediate. The bicyclic aziridine is synthesized in 4 steps, starting with 2-butene- 1,4-diol. The bicyclic aziridine can be opened with an alcohol and a Lewis acid to form an oxazolidinone, intermediate which can be hydrolyzed to the amino alcohol. Alternatively, the bicyclic aziridine can be converted to an acyl aziridine by treatment with amines.

