Poster Presentation P3

BISMUTH COMPOUNDS IN ORGANIC SYNTHESIS: BISMUTH TRIFLATE CATALYZED SYNTHESIS OF 2,4-DIMETHOXY-2-METHYLDIHYDROBENZOPYRANS

<u>Joshua N. Arnold</u>, Katherine E. Peterson and Ram S. Mohan* Department of Chemistry, Illinois Wesleyan University

Dihydrobenzopyrans are obtained in good yields by treatment of a variety of salicylaldehydes with 2 mol % bismuth triflate and 3 equivalents of 2,2-dimethoxypropane in anhydrous CH₃CN. Bismuth compounds are attractive as reagents in organic synthesis because of their remarkably low toxicity and ease of handling. The effects of the solvent, temperature and catalyst on this reaction are being investigated. The results of this study will be presented.