

## STEINER LECTURE

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OBERLIN CLASS OF '93

**ADAM JOHNSON**

HARVEY MUDD COLLEGE

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**WEDNESDAY****4/2/08****4:45 P.M.****SCIENCE CENTER A255*****“Catalytic Reactions with Chiral  
Titanium Amide-Alkoxides”***

Our research group studies the asymmetric intramolecular hydroamination reaction catalyzed by chiral titanium complexes of amino alcohol ligands. Our first generation ligands resulted in low enantiomeric excesses (ee's up to 16%). We have also used a more rapid catalytic screen using the alkylation of benzaldehyde. Our ee's for this reaction are up to 40% with the amino alcohol ligands. Our second generation ligands, with substantially increased steric bulk, give ee's up to 70% for the benzaldehyde reaction. Details of the catalytic process and results of hydroamination with the new ligands will be presented.

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THERE WILL BE A RECEPTION FOR THE SPEAKER AT 4:30 P.M.  
WEDNESDAY IN LOVE LOUNGE, REFRESHMENTS WILL BE PROVIDED

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