

## TODAY'S TOPICS

- Synthetically important reaction classes
- Chemoselectivity trends
- Mechanism
- History

## CHEMIST OF THE DAY



name?  
institution  
known for?

## QUOTE OF THE DAY

"Our greatest glory is not in never falling, but in rising every time we fall."

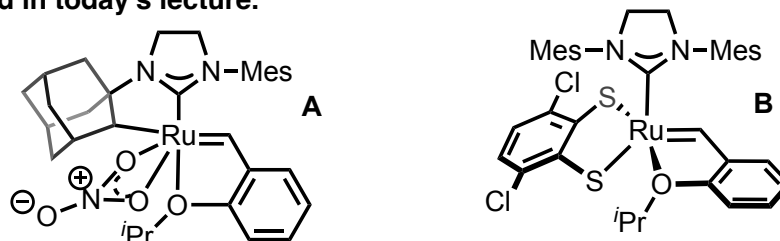
- Confucius

## READING

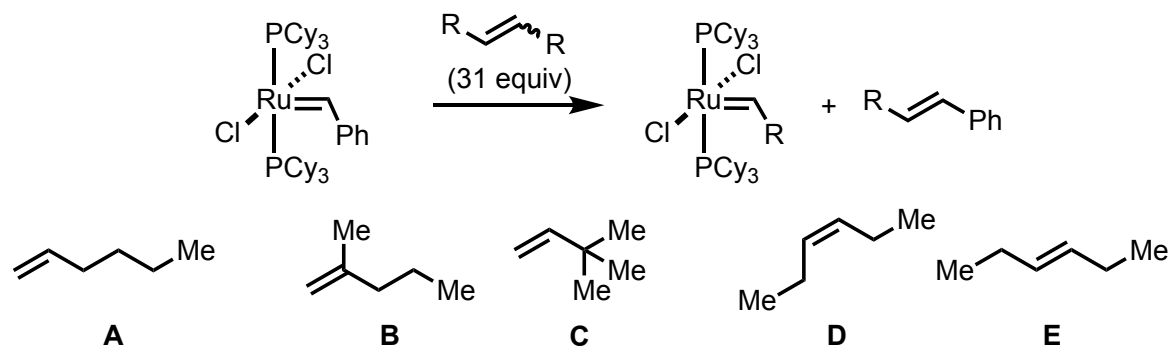
Hartwig: Ch. 21  
Crabtree: Ch. 12.1

## PROBLEMS OF THE DAY

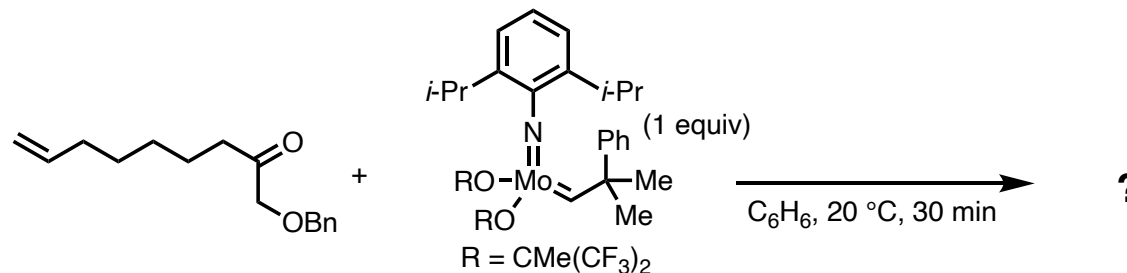
**#1** The two Z-selective pre-catalysts **A** and **B** were developed by the Grubbs and Hoveyda labs, respectively. **Propose plausible syntheses of the two catalysts from any of the other precatalysts covered in today's lecture.**



**#2** For the reaction below, **order the olefins from most to least reactive.**



**#3** Consider the reaction below by Fu and Grubbs using the Schrock catalyst (*JACS.* **1993**, *115*, 3800).  
**A. Provide the oxidation state, d-electron count, and overall electron count of the Mo complex.**



**B. Predict the product and propose a plausible mechanism.**