

TODAY'S TOPICS

- 1,1-migratory insertion
- α -elimination
- 1,2-migratory insertion
- β -elimination
- transmetalation

CHEMIST OF THE DAY



name?
institution
known for?

QUOTE OF THE DAY

"An investment in knowledge
pays the best interest."

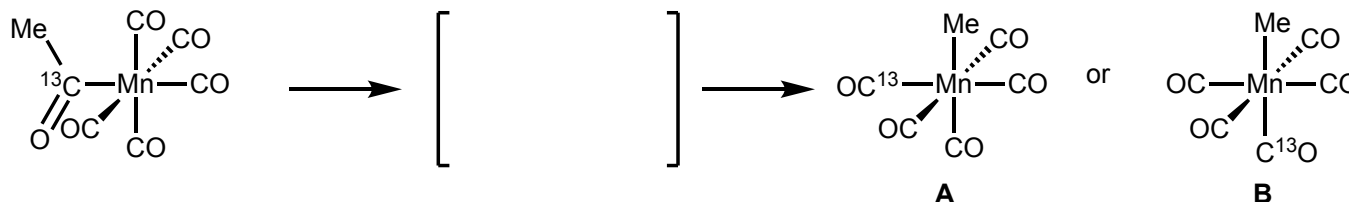
- Benjamin Franklin

READING

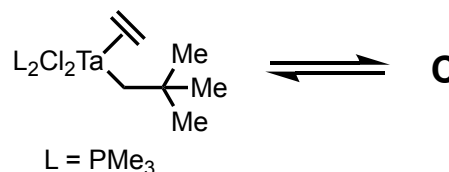
Hartwig: Ch. 3.2, 8–9, 19.4
Crabtree: Ch. 7

PROBLEMS OF THE DAY

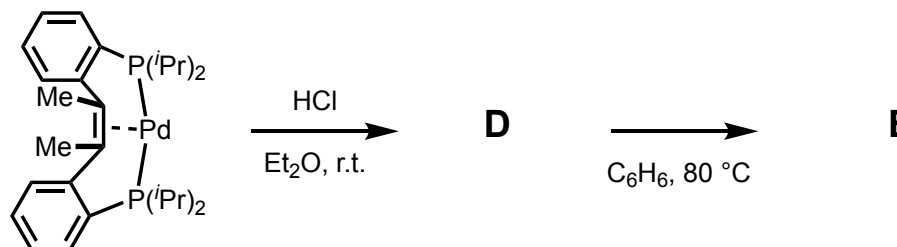
#1 Consider the following manganese complex. **Propose the intermediate and product (A or B).**



#2 In solution in C_6D_6 , the following tantalum complex is in equilibrium with a tautomeric form, **C**. **Predict the structure of C and propose a mechanism to form it.**



#3 P, π, P -pincer palladium complex reacts with HCl to form a new well-defined palladium(II) species **D** that eventually reacts further to form a distinct palladium(II) species **E**. **Predict the products.**



#4 Upon treatment with $ArB(OH)_2$ and NaF, N,N, π -palladacycle is converted to a new complex via the presumed intermediacy of **F** and **G**. **Provide the structures for F and G and the names of the elementary reactions involved in their formation.**

