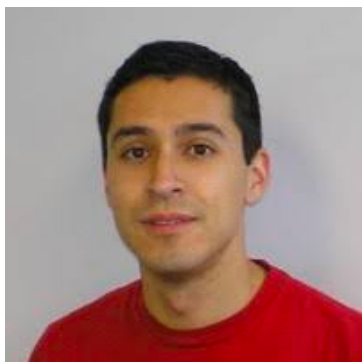


TODAY'S TOPICS

- basic principles
- mechanisms
 - oxidative addition
 - electrophilic activation
 - CMD
 - 1,2-addition
 - σ -bond metathesis

CHEMIST OF THE DAY



name?
institution
known for?

QUOTE OF THE DAY

"If you're going through hell,
keep going."

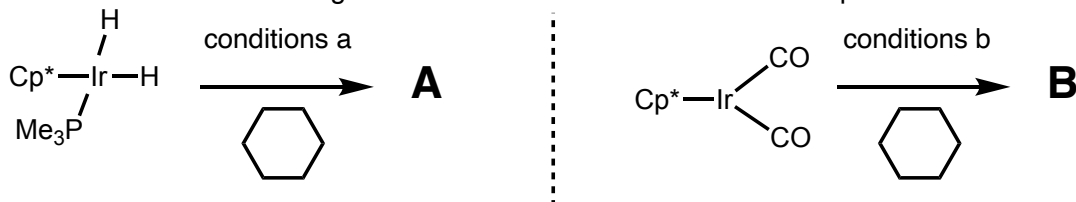
- Winston Churchill

READING

Hartwig: Ch. 18

PROBLEMS OF THE DAY

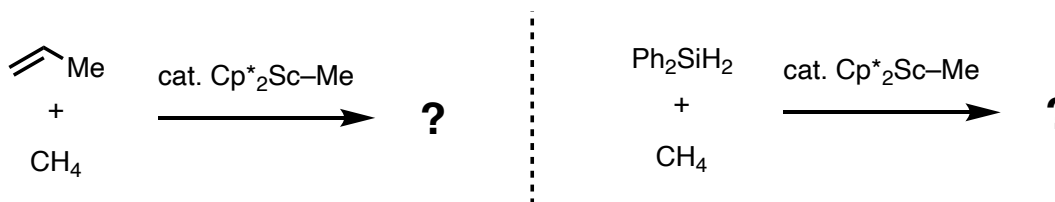
#1 The two reactions below are among the earliest well-defined C–H activation processes.



A. Provide the oxidation state, electron count, and coordination number for the two starting complexes.

B. Predict the products and provide reasonable reaction conditions (i.e., activation mode).

#2 For the two Sc-catalyzed reactions below, provide the products and propose a reasonable catalytic cycle.



#3 Using C–H functionaliation logic, propose a simplifying disconnection for each of the three molecules shown below.

