

CHEM 633

Advanced Organic Chemistry: Physical Presentation Assignment

Goals

- To understand a mechanistic paper and be able to explain it to others
- To see how mechanistic studies are performed “in the real world”
- To learn what kinds of mechanistic questions people are asking (and how they are answering them)

Deadlines

Fri, Oct 11, 5pm	Choose your paper and your partner. You must note your choices on the sign-up sheet posted by Mary's office door.
Fri, Nov 8, 5pm	Presentations emailed to Mary. Mary will compile the presentations and email all of them to the class by 8am on Sat morning.
Sat, Nov 9, 9am–12noon	Special Saturday Presentations, 220 BRL Bagels will be provided.

Guidelines

The grade you earn on your presentation represents 30% of your overall grade.

The preparation of your presentations must be a joint effort! To ensure that both partners equally understand the material and contribute equally, I will randomly choose who will present on the day of the presentation.

I will set the order of presentations on Sat, Nov 9.

Presentations should be professional in appearance and content. Use ChemDraw (or an analogous program) for schemes (DO NOT JUST COPY AND PASTE SCHEMES FROM THE PAPER!!!). You should use PowerPoint (or an analogous program) for the presentation. Your slides should look nice and clearly convey your message!!!

Presentations should be 15–20 min long. We will take 5 min for questions and discussion for each presentation.

Your presentation should explain why the paper is important, what mechanistic questions they asked, and how they answered them. You should explain the methods and analysis that they used, as well as the results of the mechanistic experiments. You will likely need to read the Supporting Information and references, as well as the paper itself.

You should be prepared to intelligently answer questions about all aspects of the paper and their methods.

Questions on at least one paper will be included on the final exam.

Papers

- 1) Zuend, Jacobsen. *J. Am. Chem. Soc.* **2007**, *129*, 15872.
- 2) Blackmond. *Angew. Chem. Int. Ed.* **2005**, *44*, 4302.
- 3) Harper, Sigman. *Proc. Nat. Acad. Sci.* **2011**, *108*, 2179.
- 4) Shekhar, Ryberg, Hartwig, Mathew, Blackmond, Strieter, Buchwald. *J. Am. Chem. Soc.* **2006**, *128*, 3584.
- 5) Byers, Jamison. *J. Am. Chem. Soc.* **2009**, *131*, 6383.
- 6) Deprez, Sanford. *J. Am. Chem. Soc.* **2009**, *131*, 11234.
- 7) Sun, Gorelsky, Stuart, Campeau, Fagnou. *J. Org. Chem.* **2010**, *75*, 8180.
- 8) Lutz, Rathbun, Stevenson, Powell, Boman, Baxter, Zona, Johnson. *J. Am. Chem. Soc.* **2012**, *134*, 715.

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Presentation Sign-Up Sheet

Paper	Presenter 1	Presenter 1
Zuend, Jacobsen. <i>J. Am. Chem. Soc.</i> 2007 , <i>129</i> , 15872.		
Blackmond. <i>Angew. Chem. Int. Ed.</i> 2005 , <i>44</i> , 4302.		
Harper, Sigman. <i>Proc. Nat. Acad. Sci.</i> 2011 , <i>108</i> , 2179.		
Shekhar, Ryberg, Hartwig, Mathew, Blackmond, Strieter, Buchwald. <i>J. Am. Chem. Soc.</i> 2006 , <i>128</i> , 3584.		
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