**Reading:** This week we will complete our discussion of aggregation on Tuesday, including gelation phenomena, aggregation with steady input, and a brief treatment of the island growth model. Please finish reading sections 5.1–5.5 of the text. On Thursday, we begin treating adsorption phenomena. Please start reading section 7.1 of the text.

**Reminder:** An in-class midterm will be given on Thursday October 27. I’ve posted the PY 542 midterms from fall of 2008 and fall of 2007 for practice. As I mentioned in lecture, there will be one problem that involves applying a scaling ansatz to a system that you have not yet encountered.

**Problems:** Due Monday, October 24 by 5:00pm.

1. Text 5.8. The point of this problem is to solve constant-kernel aggregation with steady input by working with the master equations as a function of time and not resorting to generating function methods.

2. Text 5.10. Please notice that in the presence of a steady input, the quantity $\sum kc_k$ is no longer equal to one.