

Problem Set 5

March 29

Take a moment to look at the Protein Data Bank

<http://www.rcsb.org/pdb/>

and if you need a refresher, check out:

Protein Structure Basics

http://www-structure.llnl.gov/Xray/tutorial/protein_structure.htm

this is from Crystallography 101

<http://www-structure.llnl.gov/Xray/101index.html>

and to see the many kinds of modeling challenges, glance at:

Judging the Quality of Macromolecular Models

<http://www.usm.maine.edu/%7erhodes/ModQual/>

Professor Catherine Drennan of the Chemistry dept. will be our guest speaker.

Please look these sites over:

<http://www.umass.edu/molvis/francoeur/levinthal/lev-index.html>

and there are quicktime movies at:

<http://www.umass.edu/molvis/francoeur/movgallery/moviegallery.html>

Worth a look to compare with what is being done today.

Please post on the MIT server a discussion of what these three authors mean by "models" and what they would say the relationship is between a "model" and a "visualization". The idea here is to come up with some distinctions among them. For each, you might want to quote a sentence and then explain how the term is used in the context of the rest of the article.