

**CHEM 483: GREEN CHEMISTRY  
SPRING 2015**

**PRESENTATION/PAPER**

*Case Studies of Issues in Green Chemistry* – Some suggestions are listed below. Groups should have their topic selection completed and approved by February 13, 2015. (First come, first receive)

- Alternative reaction media
  - Supercritical fluids
  - Water
  - Ionic liquids
- Green solvents
- CO<sub>2</sub> capture (CCS)
- CO<sub>2</sub> utilization (CCU)
- Renewable energies
- LCA – complications
- Polymers from renewables
- CH<sub>4</sub> vs coal power plants
- Nuclear energy
- Renewable vs sustainable
- Paper vs plastic bags
- Recycling PET
- Potable water
- Reactor designs
- Separation design – avoiding distillations
- Greener synthesis of Lexan
- Chemicals produced from glycerol
- Global warming
- Green chemicals from CO
- Formic acid for H<sub>2</sub> storage.