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Department of Civil Engineering  
2012 Autumn Semester  
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## Water Quality Dynamics

### Outline #9: Eutrophication of Lakes

1. Report of the last exercise (Ex8-1 to Ex8-3)
    - Presentation (Lauri, Shiena)
    - Discussion
  2. Equilibrium Chemical Model
    - Activity corrections
    - Equilibrium constant and temperature
  3. Eutrophication of Lakes
    - Major processes of eutrophication
    - Stoichiometry and limiting nutrient
    - Mass balance of total phosphorus in lakes
    - Dynamic ecosystem models
  4. Exercise (Ex9-1 to Ex9-3)
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