SYLLABUS

Course: **CH 370.2 Senior Seminar in Chemistry**
Semester: Spring, 2005
Professor: **Carl Salter** CHS 228
          phone 610-625-7920

**Course Objectives:**
To prepare you to speak in front of an audience on chemical subjects.

**Assignments and Tentative Schedule:**

Jan 12   Distribute evaluation sheets, schedule, define rapporteur,
         Piaget's theory of learning, Bloom's taxonomy, Perry stages of cognition.

         rapporteur report.  **Biochem talk**

         **Friday, Jan 21 Select *J Chem Ed* papers.**

Jan 26   Open **Biochem talk**
          Feb 2   **Student talks from J Chem Ed -- demonstrations okay! 15 min. Written outline.**

          Feb 9   Turn in rapporteur report, evaluation conference
          Feb 16  Open
                 **Friday, Feb 18 Select *Accounts of Chemical Research* paper.**

Feb 23   **Prof. Barbara Reisner, James Madison University.**  
*Title* The Role of Synthetic Conditions on Product Formation and Dimensionality in Framework Phosphates and Phosphonates  
*required paper*  
Inorg Chem, 2004, 43, 7308-7314

March 2  Open.

March 9  Spring Break

March 16 Open.

         **Friday, March 18 Select papers from ACS Journal, written summary including two references**
March 23  **Student talks and written summary, Accounts of Chemical Research. 15 min. Written outline.**
March 30  **Prof. Eric Williamson, Ursinus College.**  
*Title* Comparative Chromatographic Studies of Separation on Fluorinated and
Hydrocarbonaeous High-Performance Liquid Chromatographic (HPLC) Stationary Phases

required papers

April 7   Turn in rapporteur reports, evaluation conferences for Accounts talks

April 14   Open

April 20 and 27   Student talks and written summary on a paper from an ACS Journal.  30 min. Written outline.

Turn in rapporteur reports one week later.

Evaluation:
Written Summaries 15%
Evaluation and Rapporteur reports 15%
Two 15 minute talks 40%
30 minute talk 30%

Responsibilities: Each member of the audience must come to the seminar room with enough evaluation forms for all talks. The first page of the evaluation form must be initialed and dated.

With every talk the speaker must distribute to each member of the audience a written outline that includes the title of the talk, date of the talk, name of the speaker, and journal article (author, title, and citation). The outline will also indicate how the speaker used ideas about learning (Piagetian learning/Perry's levels/Bloom's taxonomy) in preparing the talk. (For the second and fourth talks one copy of a written summary of the article must be also submitted.) The speaker is responsible for arranging all audiovisual materials and hand outs. The speaker must plan the talk to fit the allotted time; talks that are too long or too short will be receive lower evaluations! After the allotted time for the talk there will be a brief question and answer period. Then the speaker and the professor will leave the room.

An envelope bearing the speaker's name will contain the name of the rapporteur. The primary job of the rapporteur is to gather the evaluations of the audience and write the rapporteur report, which is a summary of comments, criticisms, and suggestions for the speaker. After the rapporteur is identified, the rapporteur will lead a roughly five-minute discussion of the talk with the audience going over the items in the evaluation form. The audience members may write new comments on the form based on the discussions. When the rapporteur is satisfied, he or she gathers the evaluation forms (and written summary) and places them in the envelope. The next speaker summons the professor and speaker to return to the room.

The rapporteur should evaluate the content and presentation of the talk, its appropriateness for the audience, how well it reflected the material in the article, and how well the speaker followed the outline in giving the talk. The report should include suggestions for future talks. The rapporteur report should be one-page long, singled-spaced; it must include the name of the speaker, the title of the talk, and the date of the talk--it must NOT contain the name of the
rapporteur.

One week after the talk the rapporteur submits two copies of the report. The rapporteur meets for roughly ten minutes with the professor to discuss the rapporteur report. The rapporteur returns the written evaluations and summary. After the meeting with the rapporteur, the professor meets with the speaker for roughly ten minutes to present the speaker with his or her copy of the rapporteur report; they review the report and evaluate the talk. The professor retains one copy of the rapporteur report and either an outline or summary for his records. The professor returns to each audience member the first page of the evaluation form.

Variations: For outside speakers a rapporteur team will be appointed to write the rapporteur report. The seminar students will meet briefly following the talk to review the evaluation, and the team will collect the forms. At the next class meeting the rapporteur report will be read and discussed.