

Chemistry 380 – Seminar

Spring 2011, 4:00 pm Thursdays in LS-142

Instructor: Duarte Mota de Freitas, FH-002, dfreita@luc.edu

Teaching Assistant: Dawn Kissack, FH-217, dkissack@luc.edu

In this course you will learn to obtain, process, and evaluate research-related information. Each week there will be a seminar or a TA presentation for a total of 10 seminars and 3 presentations. The topics of the talks will cover the entire range of chemistry and will be given largely by outside speakers. You must attend each seminar and use what you learned from the speaker and what you searched on the web to write a seminar report.

Your report **must** contain the following parts:

A: Speaker's name and affiliation.

B: Explanation of the importance and originality of the research presented in the seminar. (5 to 10 meaningful sentences)

C: Evaluation of the quality of the presentation. What features of the presentation or speaker you did or did not like? Did you find the seminar interesting and easy to follow? (5 - 10 meaningful sentences)

D: Evaluation of the quality of the research generated in speaker's lab. This evaluation should contain the following data: 1) Funding sources for the presented research (These are usually mentioned by the speaker at the very end or very beginning of his seminar); 2) Number of articles published by the speaker in the past 5 years (i.e., 2006-2010); 3) The full reference of the article published in a journal with the highest impact factor, including its numerical value; and 4) The speaker's Hirsch index (h-index).

Your reports must be hand delivered to the TA at the beginning of the next seminar or TA presentation. A report will be considered acceptable and eligible for one credit point if it contains all required parts and these items are correct. Reports that are incomplete and/or contain incorrect information will be awarded 0.5 points. Missed reports, if not made up, carry zero credit; check below for situations when missed reports are accepted. During TA presentations, your TA will cover topics of professional interest, e.g., how to write a good resume. She will also invite guests, for example, an employment counselor. As for seminars, you are required to submit a one-page summary of each TA presentation at the beginning of the next seminar. The last report based on the April 28 seminar must be submitted electronically or as a hard copy to the TA by 5 pm on May 5; no exceptions will be made.

You need to work on your reports and summaries individually. Identical or very similar reports submitted by two or more students will be scored as a missed assignment and will be reported to the Dean's office as a violation of Academic Integrity. If you submit 13 acceptable reports you will receive an A, 12 will get you an A-, 11 will be a B+, 10 will provide a B, 9 will be a B-, 8 will be a C+, 7 will be a C, 6 will be C-, 5 will be D+, 4 will be D, and less than that will be an F.

Any illness, accident, etc. that results in a missed assignment must be communicated within two calendar days to the instructor and TA by e-mail; supporting documentation (e.g., doctor's note, obituary) must be provided to the instructor. Under these exceptional circumstances, you can make-up a missed seminar by submitting a report that contains parts A and D.

List of seminars and meetings

Date – Seminar Title, Speaker, Institution (Host)

January 20 – Aziridinium Ion Chemistry: Formation and Ring Opening Methodology and Synthetic Application, Hyun-soon Joy Chong, Department of Chemistry, IIT (Babler)

January 27 – Preparation of Organogels Based on 1,3-butadiyne units: Toward New Soluble, Low-Band-Gap Polymers for Organic Electronics, Jean-Francois Morin, Universite Laval, Québec (Ciszek)

<http://www.chm.ulaval.ca/jfmorin/2009/Accueil.html>

February 3 – TA

February 10 – Detecting prehistoric human cannibalism with stable isotope geochemistry, Rhonda Quinn, Anthropology, Loyola (Alanah)

February 17 – Amanda Jonsson, Department of Chemistry, University of Chicago (Olsen)

February 24 – Molecular Mechanisms of Parkinson's Disease, Quyen Hoang, Department of Biochemistry and Molecular Biology, Indiana University School of Medicine (Liu)

March 3 – TA

March 10 – Spring break

March 17 – TBA (Brown)

March 24 – TBA (Daubenmire)

March 31 – Nestor Zaluzec, Argonne National Lab (Schmeling)

April 7 – TA

April 14 – TBA George Kenyon (biochemical division; Miguel hosts)

April 21 – Easter Break

April 28 – TBA (Crumrine)