CHM 400 Chemistry Seminar
Wednesdays 1:15 – 2:15 P.M.
Room 372 SEB

Instructor: John Seeley
Office: 267 SEB
Telephone: (248) 370-2329
Office Hours: By appointment

Course Prefixes: CHM 400, Section 001 (CRN 10175)
Credit Hours: 0

Course Objectives:
On completion of this course you will be able to:

• understand the process/conventions by which chemists transmit knowledge to peers

• distinguish between well-presented and poorly-presented results of knowledge development in the chemistry discipline

• feel comfortable participating in the question/answer discussions that follow the formal presentation portion of seminars

• describe how scientific research is commonly conducted in an academic environment

• learn the status of some leading edge work in chemistry

Two semesters of CHM 400, Chemistry Seminar, are required of all chemistry majors in order to graduate with a bachelor's degree in Chemistry. The course consists of weekly lectures by invited speakers mostly from outside Oakland University.

The grades for this course are “S” (satisfactory) or “U” (unsatisfactory). The basis for assigning a grade to a student will be attendance at the seminar sessions and turning in a “Presentation Summary” sheet for each seminar attended. Students who turn in less than 9 (nine) seminar summaries during the semester will receive a “U” grade.

Please Note: We are scheduled to have 14 seminars, so in principle you only need to attend 64% of the seminars, but we normally have one or two cancellations per semester. Thus, you should only skip a seminar when it is absolutely necessary and when you are certain that you will have ample opportunities to make it up.

Academic Conduct: Each student is expected to independently fill-out the "Summary" sheet during the presentation. The answers should reflect a reasonable impression of the presentation.

Note: This syllabus was written by Dagmar Cronn.
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<tr>
<th>Date</th>
<th>Speaker</th>
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<td>January 7</td>
<td>Stanislaw Ostrowski, University of Podlasie</td>
<td>Synthesis of Highly Substituted meso-Tetraarylporphyrins</td>
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<td>January 14</td>
<td>David M. Bartley, University of Detroit Mercy</td>
<td>Synthesis of Phosphorus Containing Pseudopeptide Inhibitors of Foly/polyglutamate Synthetase</td>
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<td>January 21</td>
<td>David Loeffler, Beaumont Hospital</td>
<td>New Developments in Alzheimer’s Disease Research from an Aging Baby Boomer: Significance of Brain Inflammation, and Possible Treatment with Intravenous Immunoglobulin</td>
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<td>January 28</td>
<td>Keith E. Taylor, University of Windsor</td>
<td>By-Product From the Lowly Soybean Creates Jobs and Saves the Planet</td>
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<td>February 4</td>
<td>Yi Liu, Wayne State University</td>
<td>Some Applications of Electron Microscopy</td>
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<td>February 11</td>
<td>Scott C. Barton, Michigan State University</td>
<td>Enzymatic Electrodes for Biofuel Cells</td>
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<td>February 18</td>
<td>Joseph Stetter, SRI International</td>
<td>Chemical Sensors, Arrays, and Intelligent Sensing: Analysis in the Palm of Your Hand</td>
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<td>March 4</td>
<td>Michael P Jensen, Ohio University</td>
<td>Biomimetic Sulfur Coordination Chemistry at Nickel(II)</td>
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<td>March 11</td>
<td>John R. Cable, Bowling Green State University</td>
<td>Exciton Coupling in Short Diphenylalkanes</td>
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<td>March 18</td>
<td>Thomas W. Hamann, Michigan State University</td>
<td>Outer-Sphere Redox Shuttles In Dye-Sensitized Solar Cells</td>
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<td>March 25</td>
<td>Jessica Tischler, University of Michigan-Flint</td>
<td>Taking The Plunge: Cleaning Up Traditional Organic Reactions Using Subcritical Water</td>
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<td>April 1</td>
<td>Ricardo Aroca, University of Windsor</td>
<td>SER(R)S, Plasmonics and Single Molecule Detection</td>
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<td>April 8</td>
<td>S. Patrick Walton, Michigan State University</td>
<td>Design of Functional siRNA Therapeutics</td>
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<td>April 15</td>
<td>Heinz-Bernhard Kraatz, University of Western Ontario</td>
<td>Electrochemical Biosensors: From Bioconjugate to Application</td>
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More Information at [www2.oakland.edu/chemistry/chemsem.cfm](http://www2.oakland.edu/chemistry/chemsem.cfm)
CHM 400 Presentation Summary

Turn in one summary for each seminar attended.
Turn in before leaving the room at the end of the seminar period

Date: ___________     Name: _________________

Name of Presenter: _____________________________________________________________
Affiliation: ___________________________________________________________________
Title of the Presentation: ________________________________________________________
____________________________________________________________________________
What is the basic chemical field of the talk? (e.g., organic, bioinorganic, physical, environmental,
chemical education, etc. _________________________________________________________
____________________________________________________________________________
What is one relevant application of the topic mentioned by the speaker? ________________
____________________________________________________________________________
Is the research experimental, theoretical, practical, or a combination or something else?
____________________________________________________________________________
How would you change this talk to make it more accessible? _____________________
____________________________________________________________________________
____________________________________________________________________________
____________________________________________________________________________
Describe in lay terms the main goals and results of this work. Keep your answer to no more than
three to four sentences.
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Extra credit: What question did you ask the speaker and what was the answer?
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