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 40591)
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 8 (eight) seminar summaries during the semester will receive a “U” grade.

Please Note: We are scheduled to have 11 seminars, so in principle you only need to attend 73% 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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<th>Date</th>
<th>Speaker</th>
<th>Topic</th>
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<td>September 16</td>
<td>David Rueda, Wayne State University</td>
<td>Splicing Dynamics: Lessons from Single Molecule Spectroscopy</td>
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<td>September 23</td>
<td>Mike Sevilla, Oakland University</td>
<td>Science and Ethics: Can We Have One Without the Other?</td>
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<td>September 30</td>
<td>Nessan Kerrigan, Oakland University</td>
<td>Phosphine-Catalyzed Reactions of Ketenes</td>
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<td>October 7</td>
<td>Charles Brooks, University of Michigan</td>
<td>Development of pH-Dependent Molecular Dynamics Methods</td>
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<td>October 14</td>
<td>Gregory Auner, Wayne State University</td>
<td>Advanced Real-Time Pathogen and Chemical Detection</td>
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<td>October 21</td>
<td>Nils Walter, University of Michigan</td>
<td>Tackling Complexity: Increasingly Larger RNAs Monitored Through the Single Molecule Lens</td>
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<td>October 28</td>
<td>Carolyn Anderson, Calvin College</td>
<td>Synthesis of N-Alkyl Pyridones: Methodology and Mechanism</td>
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<td>November 4</td>
<td>Jin K Cha, Wayne State University</td>
<td>Small Ring-Mediated Organic Synthesis</td>
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<td>November 11</td>
<td>Vanessa McCaffrey, Albion College</td>
<td>Substituent Effects and Magnetic Exchange – Using Organic Linkers to Tune Magnetic Interactions</td>
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<td>November 18</td>
<td>Kenneth Katz, Conservation and Museum Services</td>
<td>The Use Of Dihydronium Monoxide And Other Solvents In The Conservation And Restoration Of Artistic And Historic Objects</td>
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<td>November 25</td>
<td>Thanksgiving – No Seminar</td>
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<td>December 2</td>
<td>Chenzhong Li, Florida International University</td>
<td>Nanotechnology in Biomedical Applications: Nanomedicine, Biosensing and Potential Risk Assessments</td>
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More Information at 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?
______________________________________________________________________________
______________________________________________________________________________
______________________________________________________________________________