Syllabus: CHEM 4940 (1 credit hour)
Chemistry Seminar, Spring 2016

Instructor: Dr. LeGrande M. Slaughter (legrande.slaughter@unt.edu); office phone: 940-565-4350
Seminar time & location: Unless otherwise announced, Fridays 3:30 – 4:30 PM, CHEM 109

Spring 2016 Seminar Schedule (subject to amendment and/or revision)

1/22 Brad Pierce, University of Texas at Arlington (Host: Slaughter)
EPR, Mössbauer and Kinetic Interrogation Of The Promiscuous Thiol Dioxygenase (3-Mercaptopropionic Acid Dioxygenase)

Wes Borden, UNT – Davidson Lecturer (Host: Richmond)
(Lecture 1) Tunneling by Carbon: Calculations Tell Experimentalists Where to Look and What to Look For (*special Thursday seminar in ENV 130, 3:30 p.m.)

1/29 (Lecture 2) Why Does 1,2,3,4-Cyclobutanetetraone, (CO)4, Have a Triplet Ground State; Whereas, (CO)3, (CO)5, (CO)6, and (CS)4 All Have Singlet Ground States?

2/5 R. Tom Baker, University of Ottawa (Host: Richmond)
Base Metal Catalysis Approaches to Greener Hydrofluorocarbon Synthesis

2/12 Banglin Chen, University of Texas at San Antonio (Host: Omary)
Metal-Organic Frameworks: Platform for Multifunctional Materials

2/19 Organic Faculty Candidate – To Be Announced†

2/26 Organic Faculty Candidate – To Be Announced†

3/4 Alan Heyduk, University of California - Irvine (Host: Cundari)
Multimetallic Complexes Containing a Redox-Active Cofactor

3/11 Richard Adams, University of South Carolina (Host: Richmond)
C-Au versus C-H Bond Activation: The Synthesis and Reactivity of Bridging Aryl Ligands in Metal Carbonyl Cluster Complexes

3/18 Spring Break & ACS Meeting – No Seminar

3/25 Good Friday – No Seminar

4/1 Joseph Bozenko, Drug Enforcement Administration – Tentative (Host: Verbeck)
Title To Be Announced

4/8* Bonner Denton, University of Arizona (Host: Richmond)
*Title AND LOCATION To Be Announced

4/15* Robert Grubbs, California Institute of Technology (Host: Slaughter)
*Title AND LOCATION To Be Announced

4/22 Chia-Kuang “Frank” Tsung, Boston College (Host: Omary)
Controlled Encapsulation of Catalysts in Metal-Organic Frameworks

4/29* Graduate Student Research Day – 3rd Year Talks (*Schedule and rooms to be announced)

5/6 “Reading Day” – No Seminar

†There will likely be a third, non-Friday Organic Faculty Candidate seminar sometime in February; date to be announced
**Course Objectives**
The primary objective of this course is to provide advanced chemistry majors with exposure to topical areas of chemistry research through seminars given by prominent researchers from the chemical community. A second objective is to foster critical thinking and open exchange of ideas with scientists from outside UNT.

**Credit Toward a Chemistry Major**
CHEM 4940 is not a core required course for Chemistry majors. However, it may be counted as part of your 42 required credit hours of advanced (3000- and 4000-level) coursework.

**Grading**
This course is graded on a Pass/No Pass basis only. The sole criterion for passing the course will be attendance/participation.

**Attendance Policy**
Students are expected to attend and participate in each scheduled seminar. Any absence must be approved by the instructor and must have a valid reason that can be documented. Valid reasons include illness requiring a visit to the doctor, travel to a research conference, and religious holidays. Personal travel and social events are not valid reasons for missing seminar. You are allowed a total of two absences during the semester. Missing more than two seminars will lead to a grade of No Pass for the course.

**Participation**
You are strongly encouraged to ask questions during the question-and-answer period (typically, 10 minutes at the end of the seminar). Because not everyone will have an opportunity to do so, the instructor will provide a slip of paper to each student at the beginning of each seminar on which you should write a question to the speaker related to the seminar topic. The instructor will select some of these questions for the speaker to answer. Note that these slips will also be used to record attendance/participation. You *must* write a question in order to receive credit for attending the seminar.

**Special Seminars**
Two non-Friday seminars are currently planned: the first Davidson Lecture by Prof. Wes Borden on Thursday, January 28, and one seminar by an Organic faculty candidate (date and time to be announced). You are strongly encouraged to attend these special seminars if your schedule allows it. However, missing non-Friday seminars will not count toward your two allowed absences. There is also a Graduate Student Research Day scheduled for the last seminar date, April 29. This program will likely start earlier than the regular 3:30 – 4:30 seminar time. You will be required to attend at least the normal time period, and you are strongly encouraged to attend other sessions if your schedule allows it. The schedule for April 29 will be posted later in the semester.

**Canceled Seminars**
If the University is closed due to weather or other circumstances, seminar will be cancelled. In the event the seminar is rescheduled, you will be notified by email.

**Required Materials**
None. A notebook or electronic device for taking notes is strongly recommended.

**Course Web Page**
Any updates to the seminar schedule will be posted on the Blackboard Learn page for CHEM 4940. To access this page, use the following link with your EUID and password:  
https://learn.unt.edu/

**Instructor Office Hours**
Monday and Wednesday, 1:30 – 3:00 PM, CHEM 307E