

Syllabus for Chem. 490
Fall 2009

- Chemistry and Biochemistry Seminar

Course Description: A weekly seminar to prepare students for careers in Chemistry and Biochemistry and to present recent advances in the field.

Instructors: M.T. Doig and F.J. Heldrich

Grade Scale: 100-93, A; 92-90, A⁻; 89-87, B⁺; 86-83, B; 82-80, B⁻; 79-77, C⁺; 76-73, C; 72-70, C⁻; 69-67, D⁺; 66-63, D; 62-60, D⁻; <60, F

Grade Scheme: Participation: 50%
1st Essay: 15%
2nd Essay: 20%
CV or Resume: 15%

Participation includes attendance. Attendance is required unless you present a documented medical excuse (by a physician or campus health services) within 24 hrs of the scheduled seminars, or if you obtain permission of the instructor in writing at least a week prior to the seminar. You are expected to be attentive during seminar, to wear appropriate attire out of respect to the distinguished invited speakers, to interact with the seminar speakers, and at all times be considerate of the speaker and the audience. Use of cell phones, pda's etc. during seminar is not permitted.

The essays will be typed, double spaced and no more than 2 pages long. They must be submitted in writing and as a PDF file via WebCT. For each essay you will need to prepare a newspaper style article that summarizes a seminar. The technical level of each essay must be carefully considered so that the essay relays valuable information about the seminar to both a professional chemist and to any graduate of the College of Charleston, regardless of major. Assignments for essays will be posted on WebCT. The essays are due within the week after the date of the seminar being described.

You must complete and submit a CV or resume. Before you begin your CV or Resume you must have met formally with a staff member the Office of Career Services at the College of Charleston to discuss your career goals. Based upon your goal, you will then submit either a CV or a resume. Your electronic (PDF) CV or Resume is due before 5pm Nov. 20th.

If you are interested in having lunch or meeting with a seminar speaker, please contact the designated local host for the speaker.

WebCT will be used to post information related to this course.

Fall 2009 Department of Chemistry & Biochemistry Seminar Schedule

Date	Speaker	Affiliation	Specialty	Title (Tentative)	Local Host
27-Aug-09	Kristin D. Kratzman	CofC	Surface Modeling	Blasting with Buckyballs	Charles Beam
3-Sep-09	Bobby Cremins	CofC	Leadership, Coaching	Team Chemistry: What It Takes To Win	James Deavor
10-Sep-09	Rear Admiral Rob Wray	USN	Military Sealift Command	Opportunities in the Navy including the Navy Nuclear Power Program	Rick Heldrich
	Jennifer Hawkes		Navy Nuclear Power		
17-Sep-09	John Levigne	USC	Organic		Rich Lavrich
24-Sep-09	Nick Polfer	UF	Analytical MS	Vibrational spectroscopy of mass-selected biomolecular ions	Wendy Cory
1-Oct-09	Susan Lattuner	FSU	Molten Salts		Frank Kinard
8-Oct-09	Yaroslava G. Yingling	NC State	Multiscale molecular modeling	Understanding self-assembly of nucleic acids into advanced materials	Kristin Krantzman
15-Oct-09	Andy Gelasco	MUSC	Bio-Inorganic	Spatially Resolved Proteomics and Imaging of Heart Valves	Rick Heldrich
22-Oct-09	James Kindt	Emory	Computational Chemistry	Computational studies of lipid mixtures: steps towards understanding the complexity of biomembranes	Rick Heldrich
29-Oct-09	Donald Hamelberg	Georgia State University	Bio Computational		Henry Donato
5-Nov-09	Raquel Lieberman	Ga. Tech	Biophysical	Biochemical and Biophysical Research Activities at Georgia Tech: Stability Studies of Glaucoma-causing Myocilin Variants.	Pam Gelasco
12-Nov-09	Julia Chan	LSU	Solid State and Materials		Justin Wyatt
	Stefan Cooper				
19-Nov-09	Dev Arya	Clemson	Organic, Medicinal	Shape Recognition of DNA	Jason Overby
3-Dec-09	Jeff Oplinger	GlaxoSmithKline	Medicinal Chemistry	A glimpse into the role of a chemist in the pharmaceutical industry – Discovery of a novel compound for potential treatment in type 2 diabetes.	Marion Doig