

Biological Oceanography School of Biology Atlanta, GA 30332-0230

Biology 8005: Signals in the Sea Spring 2006

Instructor: Joseph Montoya

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Meetings: MW 1-2

224 Cherry Emerson

Course description and goals:

An introduction to chemical ecology and chemical signals in marine systems. We will take a broad view of chemical signals, including broad-scale geochemical processes as well as smaller scale phenomena occurring on an organismal scale or smaller.

Course Format:

One weekly meeting to discuss papers, hear student presentations, or hear from guest speakers. Student participation will be critical in our weekly discussions.

Requirements:

This course may be taken for a letter grade or on a P/F basis. Attendance is required, and any unexcused absences may result in a failing grade.

Course grades will be based on:

- 1) Oral presentation (20%): Each student will lead one class meeting focused on a topic relevant to some aspect of our broad definition of chemical signals in the sea. A core set of 1-2 papers for discussion should be distributed a week before the class session.
- 2) Research presentation(20%): Each student will give a 45 minute talk focused on his/her research interests. This is an opportunity to begin developing your dissertation proposal.
- 3) **Proposal (20%):** Each student must turn in a well-written, concise research proposal in standard NSF format.
- 4) Participation (40%): In addition to attending class, active participation in discussions will be an integral part of the overall grade.

Tentative Schedule (MW1-2)

Wk	Date	Speaker	Topic (tentative)	Notes
1	11-Jan	JPM	Organizational Meeting	
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2	16-Jan	Holiday		
	18-Jan	JPM	Geochemical signals	-
3	23-Jan	JPM	Organization/scheduling	
	25-Jan	Andy Turner	Seminar: Th 1/26 1100	-
4	30-Jan	JPM	Isotope paleostuff	
	1-Feb	Jean Lynch-Stieglitz	Isotopes & Paleoceanography	-
5	6-Feb	Sarah Delavan	Webster overview	JPM away
	8-Feb	Don Webster	Flows and such	SD to host
6	13-Feb	Nick Parnell	Research Proposal	
	15-Feb	Ruth Armour	Research proposal	
7	20-Feb	Rachel Lasley	Research proposal	JPM away
		Elizabeth Padilla	Loeffler overview	
	22-Feb	Frank Loeffler	Microbial something	
8	27-Feb	Jenn Hill	Weissburg overview	
	1-Mar	Marc Weissburg	Sensory something	
9	6-Mar	Miranda Watts	Relyea overview	
	8-Mar	Rick Relyea	Seminar: TBD	
10	13-Mar	Nick Parnell	Wilson overview	
	15-Mar	Alan Wilson	Microcystins (I think)	
11	20-Mar	Spring Break		
	22-Mar			
12	27-Mar	Rachel Lasley	Fenical overview	
	29-Mar	Bill Fenical	Seminar: TBD	
	31-Mar	Bonnie Bassler	Seminar: F 3/31 1200	
13	3-Apr	Ruth Armour	Lindquist overview	JPM away
	5-Apr	Niels Lindquist	Seminar: TBD	
14	10-Apr	Sara Delavan	Research proposal	JPM away
	12-Apr	Bob Thacker	Seminar: TBD	
15	17-Apr	Miranda Watts	Research proposal	JPM away
	19-Apr	Paul Jensen	Seminar: TBD	
16	24-Apr	Jenn Hill	Research proposal	JPM away
	26-Apr	Elizabeth Padilla	Research proposal	