

CHEM209 Syllabus

Fall 2009 Topic: Organic Aerosols in the Atmosphere

Instructor: Professor Lynn Russell (lmrussell@ucsd.edu).

Office Hours: by appointment at NH343.

Office: SIO/Nierenberg Hall 343 at 8810 Shellback Way (at LJSB), 534-4852.

Seminar: Fridays 4:00pm-5:00pm, NH327.

Student Coordinator: Lelia Hawkins (lnhawkins@ucsd.edu), Keck/OAR 228, 534-6856.

Course Topics and Schedule:

The topics covered in this seminar course are based on current research in organic aerosol chemistry. Students will be expected to give one 30-40 minute presentation on their current research with emphasis on literature comparisons in order to demonstrate the relevance of the new knowledge or understanding, as it pertains to organic aerosol sources and transformations. The course will also include seminars by UCSD researchers and world experts, including one speaker invited by the class. Presenters will expect participants to be familiar with organic and inorganic chemistry, aerosol-cloud interactions, and the current literature. Attendance at seminars is mandatory since missing a class can result in a lowered participation grade and missing a presentation relevant to one's own presentation.

Class Web-page: <http://aerosols.ucsd.edu>

Recommended:

John Seinfeld and Spyros Pandis, *Atmospheric Chemistry and Physics: From Air Pollution to Climate Change*, Wiley Interscience, 1997.

Grading (Pass/Fail for 1 unit)

Presentation 50%

Class Participation 50%

Week	Date	Speaker	Topic
0	9/25/09	Dr. Bruce Albrecht	Aerosol-Cloud Interactions
1	10/2/09	Lelia Hawkins	Biomass Burning Aerosol
2	10/5/09	Dr. Ranjit Bahadur	ATOFMS-STXM Comparison
2	10/5/09	Dr. Satoshi Takahama	Single Particle Morphology
3	10/9/09	Shang Liu	AeroSCOPE 09 Measurements
4	10/16/09	Dr. Paul Ziemann	SOA Formation Mechanisms
5	10/23/09	Dr. Doug Day	Organonitrates at Scripps Pier
6	11/6/09	Patrick Shaw	Arctic Aerosols
7	11/13/09	Ashley Corrigan	Review of SOA Chamber Studies
8	11/20/09	Rachel Schwartz	Whistler Aerosol
9	11/27/09	Thanksgiving Holiday	
10	12/4/09	Amanda Frossard	ICEALOT Aerosol