

MAR 8140 ORGANIC GEOCHEMISTRY

2007 Spring

Instructors: Ming-Yi Sun
(706) 542-5709
mysun@uga.edu

Chuanlun Zhang
(803) 725-5299
zhang@srel.edu

William Miller
(706) 542-4299
bmiller@uga.edu

1/9	Introduction/global carbon cycling	(Sun)
1/11	Organic chemistry background	(Sun)
1/16	Particulate organic matter	(Sun)
1/18	High molecular weight DOC (colloids)	(Sun)
1/23	Dissolved organic matter	(Miller)
1/25	Photooxidation of DOM	(Miller)
1/30	Paper discussion-I	(Miller)
2/1	Recent diagenesis	(Sun)
2/6	Carbon preservation	(Sun)
2/8	Carbon and nitrogen isotopes	(Sun)
2/13	Paper discussion-II	(Sun)
2/15	Protein/amino acids	(Sun)
2/20	Carbohydrates	(Sun)
2/22	Lignins	(Sun)
2/27	Paper Discussion-III	(Sun)
3/1	Midterm Exam	
3/6	Hydrocarbons	(Sun)
3/8	Fatty acids, triglycerides, wax esters	(Sun)
3/12-16	Spring break	
3/20	Pigments	(Sun)
3/22	Sterols	(Sun)
3/27	Alcohols and alkenones	(Sun)
3/29	Isotopic fractionations associated with biosynthetic pathways	(Zhang)
4/3	Microbial lipids of bacteria-general species	(Zhang)
4/5	Microbial lipids of bacteria-thermophilic autotrophs	(Zhang)
4/10	Humic substance/kerogen	(Sun)
4/12	Paper Discussion IV	(Sun)
4/17	Microbial lipids of bacteria-sulfate and iron-reducing bacteria	(Zhang)
4/19	Microbial lipids of archaea-general	(Zhang)
4/24	Microbial lipids of archaea-methanogens and crenarchaota	(Zhang)
4/26	Biosynthetic pathways of microbial lipids	(Zhang)

5/1

Paper Discussion-V

(Zhang)

5/3

Final Exam