

Fall 2010	<b>PTE 502 Advanced Reservoir Characterization</b>	
Dr. I. Ershaghi	<a href="mailto:ershaghi@usc.edu">ershaghi@usc.edu</a> Phone: 310 9911337 Wednesdays 3:30-6:10 PM PT	
25-Aug	Introduction; Tools and Techniques for Reservoir Characterization	
1-Sep	Sedimentary Rocks; Radiometric and Biostratigraphic Zonation	
8-Sep	Physics of Sedimentation; Geologic Control on Reservoir Quality	
15-Sep	Fluvial, Eolian, and Non Deltaic Shallow Marine Deposits	
16-Sep	Delatic and Deepwater Deposits	Makeup for 9/22*
17-Sep	Sequence Stratigraphy	Makeup for 9/29*
6-Oct	<b>Mid term</b>	
13-Oct	Carbonates and Evaporite Systems	
20-Oct	Rock Mechanics, Stress Mapping and Analysis	
27-Oct	Characterization and Flow Systems in Fractured and Faulted Structures	
3-Nov	Basinal Models	
4-Nov	Forward and Inverse Methods for Reservoir Characterization	Makeup for Nov. 10*
17-Nov	Seismic Methods	
24-Nov	Geochemical Methods	
1-Dec	Case Studies - Presentation by Students	
13-Dec	Final Exam	
*	Makeup lectures may be given at different times. Check the updates.	
	Grading	
	HW 20 Points	
	Mid Term 40 Points	
	Final Exam 30 Points	
	Project: 10 Points	
	Source Materials:	
Textbook	<b>Stratigraphic Reservoir Characterization by Roger Slatt, Elsevier, 2006</b>	
Plus:	Lecture Materials and references	
Case Studies	Fractured Shale Oil and Shale Gas	
	Basement Rocks	
	Chalk Reservoirs	
	Gulf of Mexico	
	Fractured Carbonates	
	Fluvial Systems	
	Monterey Formation	
	Geomodeling	
	Basin Modeling	
	Geothermal Reservoirs	