

Fall Semester 2015: PTE 502: Advanced Reservoir Characterization

Comments		Petroleum Engr. Program Mork Family Department of Chemical Eng. and Materials Science University of Southern California
		Mondays 3:30-6:10 PM OHE 136
		Fall Semester 2015
		Dr. Iraj Ershaghi ershaghi@usc.edu 3109911337
		TA: Qianru Qi
	Aug. 24- 31	Petroleum Systems-Geological Control on Reservoir Systems- Case Studies Depositional Models
	7-Sep	Labor Day Holiday
The Class will not be held at regular time but a make-up session will be arranged	14-Sep	Depositional Environments/Continental, Transitional,
	21-Sep	Depositional Environments/ Marine, Evaporates, Glacial
ATCE Meeting- No class on Sept 28th attend make up session on Sept 25th	28-Sep	
	25-Sep	Facies Interpretation/Facies and Lithology/Sequence Stratigraphy
	5-Oct	Tools of Reservoir Characterization-Review of Petrophysics
	12-Oct	Introduction-Uncertainty in Reservoir Description/Geomodeling
	19-Oct	Flow units/Reservoir Rock Properties/Structural control on Heterogeneity
	26-Oct	Midterm Exam
	2-Nov	Review of Basin Modeling/Tectonic History/ Compartmentalized Reservoirs
	9-Nov	Seismic Data Processing and Imaging ,Analysis of Production, Tracers and Well Test data for Geological Modeling
	16-Nov	Stress Impact/ Fracture models/Carbonate, Chalk and Chert Reservoir Systems
	23-Nov	Integration of Geology, Petrophysics, Geophysics, and Reservoir Engineering for Reservoir Characterization Studies
	30-Nov	Project Presentation
	14-Dec	Final Exam 2-4 PM
References	Grading System	
By Harold G. Reading - Sedimentary Environments: Processes, Facies and Stratigraphy: Third Edition Paperback – January 1, 1997 Wiley and Sons	HW	20%
	Mid Term	30
Various SPE and AAPG papers (to be assigned)	Project	10
	Final Exam	40
		100%