

Fall Semester 2017 : PTE 502: Advanced Reservoir Characterization

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 2017

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21-Aug	Petroleum Systems-Major Petroleum Systems of the World	
28-Aug	Depositional Environments and Models	
4-Sep	Labor Day Holiday	
11-Sep	Facies Models/Sequence Stratigraphy	
18-Sep	Tools of Reservoir Characterization- Petrophysics	
25-Sep	Tools of Reservoir Characterization-Geophysics-Geomechanical Parameters	
2-Oct	Tools of Reservoir Characterization-Production, injection, Well tests and Tracer Data	
9-Oct	SPE ATCE No Class	
Make Up	Uncertainty in Reservoir Description	
16-Oct	Mid Term Exam	
23-Oct	Flow Units /Structural Control	
30-Oct	Basin Modeling	
6-Nov	Fractured Reservoirs	
13-Nov	Conventional and Unconventional Resources	
20-Nov	3D Geologic Modeling Methods	
27-Nov	Student Project Presentations	
11-Dec	Final Exam 2-4 PM	
	Grading	
	HW	20%
	Mid Terms	30%
	Final Exam	40%
	Term Project	10%
		Various Readings from SOE. AAPG and SEG will be assigned
	References USE USC Elibrary	
	Author/Editor	Title
	Schon	Physical Properties of Rocks Elsevier 2011
	Hantschel/Kauerauf	Fundamentals of Basin and Petroleum System Modeling, Springer 2009
	Veekan	Seismic Stratigraphy and Depositional Facies Models Stratigraphic Reservoir Characterization for Petroleum Geologists,...Elsevier 2013
	Slatt	online