GEOL/GEGN/PEGN 598B

Carbonate Reservoirs – Exploration to Production Fall 2009

Wednesdays: 1-3:50PM BH306

Aug. 26:	Introduction to Carbonate Sediments - Sarg
Sept. 2:	Carbonate Facies & Platform Architecture – Sarg
Sept. 9:	Visitor: Carbonate system – Sarg
Sept. 16:	Cont'd Seismic & Log Expression of Carbonate Platforms - Sarg
Sept.23:	Diagenesis I – Humphrey 1. carbonate chemistry, solutions, and equilibria 2. diagenetic processes & porosity evolution
Sept.30:	Diagenesis II – Humphrey 1. diagenetic environments, processes, and products 2. dolomitization
Oct.7:	Formation Evaluation (I) – Batzle & Prasad
Oct.14:	Formation Evaluation (II) –Prasad & Batzle
Oct. 21:	Formation Evaluation (III) – Batzle & Prasad
Oct .28:	Production Engineering: Reservoir performance – Kazemi 1. <i>Dry gas</i> vs. <i>gas-condensate</i> reservoir performance 2. <i>Primary, secondary and tertiary oil recovery</i> performance
Nov. 4:	Formation Evaluation (IV) – Ida Fabricius
Nov .11:	Production Engineering: Introduction – Kazemi 1. Flow in <i>fractures</i> as compared to flow in porous <i>matrix</i> 2. Flow in <i>dual-porosity</i> and <i>multi-continuum</i> porous media 3. What makes single-phase flow different from multiphase flow

Nov. 18: Production Engineering: Multi-scale physics - Kazemi

- 1. *Multi-scale physics* of flow and computation in naturally fractured porous rocks
- 2. The role of *geomechnics* on fracture flow: *poroelasticity* and *thermoelasticity*

Nov.25: Seismic & Log Expression of Carbonate Platform – Sarg

Dec.2: Class Project

Dec.9: Class Project