### ES486 Petroleum Geology Peer-to-Peer Learning Model Journal Article Summaries/Case Study Presentations

### (updated March 8, 2017 – Final Draft)

#### **Instructions:**

Each student will be assigned a recent case-study journal article on a petroleum geology topic. The objective is to read the case study, digest the information, and create a 12-15-minute powerpoint oral presentation of the topic. The general organization of the presentation will be as follows:

- I. Introduction to the topic, with outline of the main presentation headings (introduction should include figures with maps on location of the case study)
- II. State of the problem or technique(s) addressed in the article.
- III. Methodology
- IV. Results
- V. Conclusion and Summary

Required Slides: Title Slide, Outline/Overview Slide, Introduction Slide, Conclusion and Summary Slide

# Project Deliverables will include:

- -A 12-15-minute powerpoint slide show with images and text on topic, summary of take-home messages
- -1-page handout / outline with key summary bullet points on topic
- -Optional creative video-clip (youtube, etc.) illustrating the techniques or methods

Note: A general rule of thumb is to allow approximately 1 minute per slide of content in a scientific presentation. You presentation should be no more than 10-15 slides for a 12-15-minute presentation, depending on the complexity of the information you are trying to summarize. The presentations will be worth 20 points.

# Presentation Schedule TENTATIVE

#### Download papers at following link:

http://www.wou.edu/las/physci/taylor/es486\_petro/ES486\_Case\_Studies.htm

# Week 10 / Tuesday March 14 [HAT PARTY – Wear a Festive Hat, prizes to be awarded for creativity]

- 2:00-2:10 Taylor Introduction
  2:10-2:25 Glynn McGregor et al., 2012, Nile Basin System
  2:25-2:40 Hubbard Sen, 2013, Petroleum Occurrence Black Sea, Turkey
  2:40-2:55 Childers Holgate et al., 2013, Sedimentology and Stratigraphy of Troll Field, North Sea
  2:55-3:10 Lucas Gaswirth and Higly, 2013, Petroleum Analysis of West Edmund Field, Okla.
  3:10-3:25 Cardenas Tozer et al., 2014, Athabasca Oil Sands
  3:25-3:40 Sutter Hudec et al., 2013, Jurassic Salt Dome Systems, Gulf of Mexico
- 3:40-3:50 Taylor Conclusion

# Week 10 / Thursday March 16 [PAJAMA PARTY – Wear PJs or creative night wear, prizes for style]

- 2:00-2:10 Taylor Introduction
- 2:10-2:25 Edwards Bust et al., 2013, Petrophysical Analysis of Shale Gas Reservoirs
- 2:25-2:40 Fricke Neumair et al., 2014, Seal Assessment of Venezuala
- 2:40-2:55 L. Taylor Burgess et al., 2013, Identification of Carbonate Build-Ups with Seismic
- 2:55-3:10 Muncrief Amour et al., 2013, Carbonate Ramp Reservoirs
- 3:10-3:25 Jacobus Johansen, 2013, Seismic Facies Analysis Svalbard
- 3:25-3:50 Taylor Conclusion

### Topics of Choice: Choose one unique case-study journal article per student

Amour et al, 2013, Carbonate Ramp Reservoirs Baytok and Panter, 2013, Fault and Fracture Reservoirs Piceance Basin, Colorado Beglinger et al., 2013, Subsidence History and Thermal Maturation, Campos Basin, Brazil Boro et al., 2014, Fracture Analysis of Reservoirs, Northern Italy Burgess et al., 2013, Identification of Carbonate Build-ups with Seismic Reflection Bust et al., 2013, Petrophysical Analysis of Shale Gas Reservoirs Fan et al, 2012, Reservoir Fracture Propagation During Oil to Gas Transformation Gaswirth and Higley, 2013, Petroleum Analysis of West Edmond Field, Oklahoma Grant et al., 2014, Porosity trends in the Skagerrak Formation, Central Graben, United Kingdom Grotzinger and Alrawai, 2014, Carbonate Reservoirs, Sultan of Oman Haddad and Mancini, 2013, Reservoir characterization of Jurassic Smackover Formation, Southwest Alabama Holgate et al., 2013, Sedimentology and stratigraphy of the Troll Field, North Sea Hudec et al., 2013, Jurassic Salt Dome Systems, Gulf of Mexico Hudec et al., 2013, Louann Salt Gulf of Mexico Johansen, 2013, Seismic Facies Analysis Svalbard Karakitsios, 2013, Ionian Sea Petroleum Systems Kohl et al., 2014, Gas Reservoirs in the Marcellus Shale, Appalachian Basin Li et al., 2014, Resistivity as a Tool for Permeability Analysis Macgregor et al., 2012, Nile Basin System Max and Johnson, 2014, Gas Hydrates Milliken et al., 2013, Gas Reservoirs in the Marcellus Shale, Pennsylvania Moscardelli et al., 2013, Seismic Analysis of the Heidrun Field Norway Neumaier et al., 2014, Seal Assessment of Venezuela Nguyen et al., 2013, Diagenetic Effects on Reservoir Porosity in the North Sea Okere et al., 2013, Hydrocarbon Potential in Kazakstan Rateau et al., 2013, Igneous Intrusion and Hydrocarbon Accumulation in Shetland Roberts et al., 2013, Basin Modeling Sen, 2013, Petroleum occurrence in the Black\_Sea, Turkey Shimer et al., 2014, Basin Analysis of the Nanushuk Formation, Alaska Tozer et al., 2014, Athabasca Oil Sands Zeeb et al., 2013, Outcrop Fracture Analysis and Reservoir Permeability