ES486 Petroleum Geology Peer-to-Peer Learning Model Journal Article Summaries/Case Study Presentations (Updated Winter 2019)

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

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 12 [HAT PARTY – Wear a Festive Hat, prizes to be awarded for creativity]

2:00-2:10 Taylor Introduction	
2:15-2:25 Okre et al., 2013, Hydrocarbon Potential in Kazakstan [WALTER]	
2:30-2:40 Delpomdor et al., 2018, Precambrian Petroleum System in Congo, Africa [NIC	OLE]
2:45-2:55 Macgregor et al., 2012, Nile Basin System [BRIANNA]	
3:00-3:10 Rateau et al., 2013, Igneous Intrusion and Hydrocarbon Accumulation, Shetlar	nd [NICK]
3:15-3:25 Holgate et al., 2013, Sedimentology and Stratigrphy of Troll Field, North Sea	[MANDY]
3:30-3:40 TBD – Petroleum Geology in Brazil / Oman / Lebanon / Somalia – TBD [LAN	ICE]
3:40-3:50 Taylor Conclusion	-

Week 10 / Thursday March 14 [TACO THURSDAY / POTLUCK]

2:00-2:10	Taylor Introduction
2:15-2:25	Gaswirth and Higley, 2013, Petroleum Analysis, West Edmond Field, OK [AUSTIN]
2:30-2:40	Baytok and Panter, 2013, Fracture Reservoirs Piceance Basin, CO [T-HO]
2:45-2:55	Hudec et al., 2013, Jurassic Salt Domes, Gulf of Mexico [SALVADOR]
3:00-3:10	Tozer et al., 2014, Athabasca Oil Sands [ANDY]
3:15-3:25	Shimer et al, 2014, Basin Analysis of Nanushuk Formation, Alaska [TIM]
3:30-3:50	Taylor Conclusion

Topics of Choice: Rank top 3 interest items / case-study journal article per student

Ali et al., 2019, Petroleum Geology Northern Somalia

Al Saad, 2016, Paleozoic Petroleum Systems, Qatar

Al Ramadan et al., 2017, Reservoir Characterization, Nuayyim Field, Saudi Arabia

Amour et al, 2013, Carbonate Ramp Reservoirs

Baytok and Panter, 2013, Faulth 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

Delpomdor et al., 2018, Precambrian Petroleum Systems of Congo

Fan et al, 2012, Reservoir Fracture Propagation During Oil to Gas Transformation

Gaswirth and Higley, 2013, Petroleum Analysis of West Edmond Field, Oklahoma

Ghalayani et al., 2018, Petroleum Systems of Lebanon

Grant et al., 2014, Porosity trends in the Skagerrak Formation, Central Graben, United Kingdom

Gross et al., 2018, Petroleum Systems North Alpine Foreland Basin, Austria

Grotzinger and Alrawai, 2014, Carbonate Reservoirs, Sultan of Oman

Haddad and Mancini, 2013, Reservoir characterization of Jurassic Smackover Formation, Southwest Alabama

Harouna et al., 2017, Subsidence History Termit Basin, Niger

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

Johnson, 1998, Petroleum Geology of Washington State

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

Li et al., 2017, Reservoir Potential in Deltaic Sandstones, Ordos Basin, China

Liu et al., 2017, Origin of Oils in Termit Basin, Niger

Macgregor et al., 2012, Nile Basin System

Max and Johnson, 2014, Gas Hydrates

Meng et al., 2019, Hydrocarbon Potential of Lacustrine Sendiments, NW China

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

Petersen et al., 2018, Source Rocks and Petroleum in Danish North Sea

Pimentel et al., 2016, Deep Offshore Petroleum Systems West Iberia

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

Yang et al., 2017, Hydrocarbon Potential Cretaceous Shales, Ecuador

Zeeb et al., 2013, Outcrop Fracture Analysis and Reservoir Permeability

Zhang et al., 2019, Calcite Content and Carbonate Reservoirs, E. Saudi Arabia