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
2:30-2:40 Delpomdor et al., 2018, Precambrian Petroleum System in Congo, Africa [NICOLE]
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, Shetland [NICK]
3:15-3:25 Holgate et al., 2013, Sedimentology and Stratigraphy of Troll Field, North Sea [MANDY]
3:30-3:40 TBD – Petroleum Geology in Brazil / Oman / Lebanon / Somalia – TBD [LANCE]
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]
3:30-3:50 Taylor Conclusion
Topics of Choice: Rank top 3 interest items / case-study journal article per student

Ali et al., 2019, Petroleum Geology Northern Somalia
Ali Saad, 2016, Paleozoic Petroleum Systems, Qatar
Ali Ramadan et al., 2017, Reservoir Characterization, Nuayym Field, Saudi Arabia
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
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
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
Macgregor et al., 2012, Nile Basin System
Max and Johnson, 2014, Gas Hydrates
Meng et al., 2019, Hydrocarbon Potential of Lacustrine Sediments, 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 Kazakhstan
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