

From Saudi Arabia to Venezuela: Energy Resources, Market Factors & Conflicts

The Ohio State University
Undergraduate International Studies Program

Social Studies/Science/Economics | Class #28147 | 5 Undergrad credit hours | Spring Quarter 2011
Friday 12:00 – 2:48 | Room 125 Mendenhall Laboratory

Instructor: Thomas W. O'Donnell – twod@umich.edu URL: <http://TomOD.com>

Student Research Group Blogs:

1. [Global Fracking](http://globalfracking.blogspot.com/) <http://globalfracking.blogspot.com/>
2. [Middle East and North African Oil](http://menaoilresearch2.blogspot.com) <http://menaoilresearch2.blogspot.com>
3. [Venezuelan Oil](http://venezuelanoil2.blogspot.com) <http://venezuelanoil2.blogspot.com>

Office Hours: After class and by appointment.
No prerequisites.

Course Objectives/Learning Outcomes: Following successful completion of this course, students will understand the role of oil in the geo-strategy of especially the U.S., China, OPEC states of the Middle East and Latin America; and in selected major conflicts of the past three decades. They will understand the natural-resource and political-economic constraints underlying contemporary energy geo-politics, including today's global, market-centered oil system, and the OECD-OPEC-centered oil security system, in contrast to the previous neo-colonial system ended with OPEC nationalizations.

Short Description: This course examines the political economy of oil and its geopolitical consequences for the Middle East, Latin America, China, and U.S. policy.

- **Part 1, Resources**, examines available energy resources, their global distribution, the possibilities for bio-alternatives, projected growth of oil-fueled vehicles, and critiques "Peak Oil" theories.

- **Part 2, Political Economics**, examines the structure of today's market-centered global oil system in contrast to the previous neo-colonial system that ended with OPEC's nationalizations. We examine issues of oil and natural gas price levels, volatility, financial speculation in futures markets and new U.S. legislation, and the role of private international oil companies v. national oil companies, vertical integration vs. non-integration, monopoly and cartel issues, types of resource-exploitation contracts, and the concepts of resource rents, *rentismo*, the resource curse and Dutch disease. With the background of Parts 1 & 2, in

- **Part 3, Geopolitics**, we examine the historical role of oil in from the coup against Mossadegh to the Iranian Revolution and the U.S.-Iran "nuclear" crisis, in the Iran-Iraq War, the Gulf War and the Iraq War. We analyze policies of OPEC, Saudi Arabia, Venezuela, (time permitting: Russia, Mexico, and Brazil) and especially the energy geo-strategies of the U.S. and China. We critique theories of a new era of energy-based "resource wars" in a "multi-lateral" world order with "rising BRIC states."

Required Text(s) and Course Materials –

1. Yergin, Daniel, "The Prize: The Epic Quest for Oil, Money & Power," The Free Press, New York, 1992.
2. All other materials are accessible online

Grading Plan/Grading Rubric – Readings presentations and participation, 50 points -- 50%

Research paper and preliminary activities, 50 points -- 50%

Grading Scale – 70-73=C; 74-76=C+; 80-83=B-; 84-86=B; 87-89=B+; 90%-93% = A-; 94% and above = A

Topical Outline - Schedule of Topics, Readings, Assignments –Including assignment due dates, exam dates, and final exam date and time

ASSIGNMENTS: Organization of classes and assignments follow a pattern: Students are responsible to complete all assigned readings. We generally begin with a brief presentation/lecture by the instructor, including a resume of the previous class. We then discuss the day's readings. Two or three students will have been assigned to present focused comments and questions on each reading (with a written outline of their comments e-mailed to the instructor 24 hours before class, to be forwarded to all) within which the instructor leads a Socratic discussion. (For upper-level class, if student engagement with materials is deemed adequate via this process, a mid-term will not be administered. Generally, freshman-and-sophomore-level class requires mid-term.) A semester-long research-paper is developed in stages. Starting from the in-class discussions, and in consultation with the instructor, students will

1. Week 3: Submit a topic proposal for approval
2. Week 5: Submit abstract, draft outline and initial bibliography
3. Weeks 7 and 8: Half of class submits a draft (of about 1/3 the entire paper) with finalized outline and bibliography
4. Week 10: Make a short presentation on their findings to the whole class
5. Exam Week: Submit their final paper

Links:

- Class homepage: http://www.umich.edu/~twod/oil_osu
- Articles posted at: <http://www.umich.edu/~twod/articlea> unless otherwise stated.
- Class e-mail archive: http://www.umich.edu/~twod/oil_osu/email
- Homework solutions: http://www.umich.edu/~twod/oil_osu/solutions

PART 1: RESOURCES

1. 01 Apr 2011 – Introduction: The World's Available Energy Resources: Location, Present and Future Demand, Alternatives

- Lecture: "The world's available energy resources, and their use 2006-2030"
 - http://www.umich.edu/~twod/oil-ns/lectures/waterpower_twod_24jul09a_ed.ppt
 - *Based on report of U.N. Intergovernmental Panel on Climate Change (IPCC) & IEA data*
- Research Resources: Introduction to the online energy data and information resources:
 - EIA at <http://www.eia.doe.gov/> Note the Country Analysis Briefs, CAB
 - IEA at <http://www.iea.org/> Especially the World Energy Outlook (WEO)
 - CIA Country Briefs at <http://www.cia.gov/cia/publications/factbook/>
 - BP Statistical Review of World Energy, and Historical Data Series since 1965:
<http://www.bp.com/productlanding.do?categoryId=6842&contentId=7021390>

PART 3: GEOPOLITICS OF ENERGY

8. 15 Apr 2011 -
 - Resource: An outline of Yergin's The Prize. .
http://www.umich.edu/~twod/oil-ns/articles/yergin_prize_outline.html
 - Yergin, Chapter 18: "Japan's Achilles' Heel," pp. 351-367.
 - Japanese oil problems in WWII; military

- Oil and Gas Journal: <http://www.ogj.com/index.cfm>
- JODI (Joint Oil Data Initiative) of the IEFS (International Energy Forum Secretariat) <http://www.jodidata.org/FileZ/ODTmain.htm>
 - Links to other databases here: UNSD, OPEC, IEF, IEA, EUROSTAT, OLADE
- IAEE (International Association for Energy Economics) <http://iaee.org> and USAEE (US Association for Energy Economics) <http://usaee.org>
 - The professional and academic society for energy economics and policy. See the “Energy Journal” of IAEE, Newsletters and the Energy Blog
- US Geological Service, “World Petroleum Assessment 2000” <http://pubs.usgs.gov/dds/dds-060/>
- UN Intergovernmental Panel on Climate Change (IPCC) [add link here]

Assignment:

- You will be assigned to use the above online resources to find material on specific energy producing countries or energy topics to bring to the following class, to aid in familiarizing oneself with these resources.
- Open file explaining [my correction of claim by Fox News](#) Eric Bolling (on 30Mar11) about possibility of US energy independence in oil (this is an exercise to learn how to use EIA website information).

2. 08 Apr 2011 – Oil in the Global Economy: Overview of the present and future role of oil in the world economy

- O’Donnell, T.W., “Global Oil to 2030: A Quantitative Assessment in the Context of International Affairs”; International Relations and Security Network (ISN), Zurich, Switzerland; 2 May 2007 <http://www.isn.ethz.ch/isn/Digital-Library/Publications/Detail/?id=30696&lng=en> or http://www.umich.edu/~twod/12_casestudy_global_oil-01may07.pdf
- IEA’s World Energy Outlook 2008 & 2010
 - Full report (free, 578 pp.) <http://www.iea.org/textbase/nppdf/free/2008/weo2008.pdf>
 - You will be assigned one of the 19 chapters to read and tell the class about it,
 - Table of Contents 2010 <http://www.iea.org/Textbase/nptoc/weo2010toc.pdf>
 - Executive Summary, 2010 <http://www.iea.org/Textbase/npsum/weo2010sum.pdf>
 - Press release 2010 http://www.iea.org/Textbase/press/pressdetail.asp?PRESS_REL_ID=402
- For reference:
 - Table of Contents 2008 <http://www.iea.org/Textbase/nptoc/WEO2008TOC.pdf>
 - Press release 2008 http://www.iea.org/Textbase/press/pressdetail.asp?PRESS_REL_ID=275
 - Executive Summary, 2008 <http://www.iea.org/Textbase/npsum/WEO2008SUM.pdf>

Assignment:

- Read as indicated above. Will be assigned via e-mail one of the 19 WEO 2008 chapters to read and tell the class about it

3. 15 Apr 2011 – Is the World Running Out of Oil? The US Geological Survey v. the “Peak Oil” School

A: Would peak oil really mean “an end of industrial society”?

- O’Donnell, T.W., “Theories of a Global-Oil Crisis” [Draft] January, 2006. http://www.umich.edu/~twod/oil-ns/articles/malthusian-7pp_25jan06b.doc
 - *This is an incomplete article; but gives some flavor of the*

and geo-strategic role of oil

9. 22 Apr 2011

- Yergin, Chapter 23: “‘Old Mossy’ and the struggle for Iran” pp. 450-478
 - Mossadegh; nationalization of Iranian oil; U.S. & British coup, 1950’s
- [Optional] Hiro, Dilip, The Iranian Labyrinth Chapter 7, Oil: Life Blood of Modern Iran, pp. 183-208
 - Link xxxx.pdf

10. 29 Apr 2011

- Yergin, Chapter 24: The Suez Crisis, pp. 479-498
 - Suez Crisis; 1956; U.S., Nasser, British, French, Israeli roles, Cold War.
- [Optional] Yergin, Chapter 25, The Elephants, pp. 499-518

11. 06 May 2011 -

- [Optional] Yergin, Chapter 26, OPEC and the Surge Pot, pp. 519-540
 - Formation of OPEC; late-50’s-early 60’s
- [Optional] Yergin, Chapter 27: Hydrocarbon Man, pp. 541-560
 - Post-War oil age; oil and transport lobby; conservation.
- [Optional] Yergin, Chapter 28: The Hinge Years: Countries versus Companies, pp. 561-568
- Yergin, Chapter 29: The Oil Weapon, pp. 588-612
 - First Energy

(neo)-Malthusian social implications drawn by "Peak Oil" school adherents

- B: USGS (US Geological Survey) assessment of world oil resources**
- "Long Term World Oil Supply: A Resource Base / Production Path Analysis" Energy Information Administration (EIA), DOE, 2000. http://www.umich.edu/~twod/oil-ns/articles/longterm_usgs_oil_peak_estim_eia2006.pdf
 - Study these slides and explanatory notes carefully.
 - *The authors indicate that this is an: "EIA presentation on estimates of the world conventional oil resource base and the year when production from it will peak and then begin to decline. A version of this presentation was given by former EIA Administrator Jay Hakes to the April 18, 2000 meeting of the American Association of Petroleum Geologists (AAPG) in New Orleans, Louisiana."*
 - [Optional] "U.S. Geological Survey World Petroleum Assessment 2000 – Description and Results" "Chapter ES" (i.e., "Executive Summary"): <http://energy.cr.usgs.gov/WEcont/chaps/ES.pdf>
 - [Optional] The USGS 2000 report used in, the above report "Long Term World Oil Supply: <http://pubs.usgs.gov/dds/dds-060/> Often referred to very negatively by adherents of Peak Oil
- C: The Peak Oil School predictions of oil resource depletion**
- Simons, Matthew, "The Implications of Saudi Arabian Oil Declining" at Hudson Institute event: "Saudi Arabia in Crisis". 9 July 2004. *Simmons was a major proponent of the "Peak Oil" school*
 - Transcript and Power Point http://www.hudson.org/index.cfm?fuseaction=HUDSON_UPCOMING_EVENTS&id=169
 - [Dead link: RealPlayer file from CSPAN at: "The View From the Peak", at: <http://www.theviewfromthepeak.net/multimedia/mm.html>
 - Two YouTube videos of Matt Simmons' talks on Peak Oil predictions:
 - <http://www.youtube.com/watch?v=0Hrpv21Ubf8>
 - <http://www.youtube.com/watch?v=4lwtAQzrfiw>
 - Research resources
 - Campbell, C., Laherrere, J.H., "The End of Oil," Scientific American, March 1998. http://www.umich.edu/~twod/oil-ns/articles/campbell_laherrere_sci_am_mar1998.pdf
 - Goodstein, David, "Thesis: The End of Oil," Nature Physics, 01 May 2007, p. 291, http://www.umich.edu/~twod/oil-ns/articles/naturephys_goodstein-vol3_01may07-p291.pdf (bottom of page) *Op-Ed supporting Peak Oil (see "Out of Gas" reference, following)*
 - Goodstein, David, "Out of Gas: The End of the Age of Oil," Norton, New York, 2004. (132 pp.)
 - *Physicist on science of fossil and other (e.g., nuclear, solar, etc.); but (imho) draws unsupported socio-economic conclusions about "Peak Oil"*
 - Korin, Anne, "Can Alternative Energy Sources Replace the Saudi Share?" at Hudson Institute event: "Saudi Arabia in Crisis". 9 July 2004 <http://www.hudson.org/files/publications/Korin%20--%20Alternative%20Energy.pdf>
- D: Technical and Scientific arguments against the Peak Oil school**
- The New Old Economy: Oil, Computers and the Reinvention of the Earth, The Atlantic Monthly (in three parts), Jonathan Rauch, January 2001. http://www.umich.edu/~twod/oil-ns/articles/010100_atlantic_rauch01_new_old_economy.pdf

Crisis

- Yergin, Chapter 30: Bidding for Our Life, pp. 613-632
- 12. 13 May 2011 –**
- [Optional] Yergin, Chapter 31: OPEC's Imperium, pp. 633-652
 - Yergin, Chapter 32: The Adjustment, pp. 653-673
 - Iranian Revolution; Carter Doctrine
- 13. 20 May 2011 –**
- Yergin, Chapter 33: The Second Shock: The Great Panic, pp. 674-698
 - Yergin Chapter 34: We're Going Down, pp. 699-714
 - Iranian Revolution, Iran-Iraq War, Reagan and U.S. strategy, spot market
- 14. 27 May 2011 –**
- Yergin, Chapter 35: Just Another Commodity? pp. 714-744
 - End of 2nd shock; boom; OPEC as true cartel 1985-6: secure supply, price not high; Saudi Netback Crisis
- 15. 03 June 2011 –**
- FINAL PROJECTS PRESENTED IN CLASS

4. 22 Apr 2011 – Alternatives to Oil: Scientific, Environmental, and Economic Challenges

- Lecture: Talk at Food Security Conference, AID, New School U., March 2011

[xxx link]

- Agricultural impact and role of bio fuels, is ethanol effective, etc.
- Read
 - A: Fossil Fuel Alternatives: Oil sands, shale oil, Gas and/or Coal to Liquid**
 - “America’s Oil Shale Resource,” Office of Deputy Assistant Secretary for Petroleum Reserves, Office of Naval Petroleum and Shale Oil Reserves, DOE [DOE/NPOSR], March 2004, Washington, D.C.
 - Volume I: “Assessment of Strategic Issues,” Read pp. 1 – 15; but especially pp. 10 – 15. http://www.umich.edu/~twod/oil-ns/articles/npr_strategic_significancev1.pdf
 - Volume 2: “Oil Shale Resources Technology and Economics.” http://www.umich.edu/~twod/oil-ns/articles/npr_strategic_significancev2.pdf
 - Section 4, “Analogy to Canada’s Tar Sands Commercialization,” pp. 28– 34
 - “Conclusions” p. 35
 - [Optional] Section 3, “Environmental and Regulatory Issues,” pp. 22 – 28.
 - [Optional] Appendix B: “Oil Shale Technologies (to 1991),” pp. B-1 - B-5
 - [Optional] Bunker, J.W., Crawford, P.M., Johnson, H.R., “Is Shale Oil America’s Answer to Peak-Oil Challenge?” Oil and Gas Journal, 9 August 2004: <http://www.fossil.energy.gov/programs/reserves/publications/Pubs-NPR/40010-373.pdf> *Article with good graphics*
 - [Optional] International Centre for Heavy Hydrocarbons, <http://www.oildrop.org/downloads.html>

B: Bio-Fuel Alternatives: Ethanol and Bio-diesel

- Calculation of amount US corn acreage needed to produce 1 million barrels per year of cellulosic ethanol. [xxxx- TOD]
- Sanderson, Katharine, “A Field in Ferment: To move US bio-fuels beyond subsidized corn will be a challenge”, Nature, Vol. 444, 7 December 2006, pp. 673 – 676. http://www.umich.edu/~twod/oil-ns/articles/nature_corn-bio-fuel444673a07dec06.pdf
- Farrell A.E. et al, “Ethanol Can Contribute to Energy and Environmental Goals,” Science, Vol. 311, p. 506 – 508, January 2005, on feasibility of corn based ethanol. http://www.umich.edu/~twod/oil-ns/articles/science_ethanol_farrell_feb06.pdf
- Letters to Editor of Science on above article http://www.umich.edu/~twod/oil-ns/articles/science_ferrel_ethanol_letters_jan06.pdf
 - *See especially Letters concerned with affect on agriculture: “Looking at Bio-fuels and Bio-energy,” “Harvesting our Meadows for Biofuel?” and etc.*
- [Optional] Castro, Fidel, “Reflections by President Fidel Castro: It is imperative to have an immediate energy revolution,” Grandma, 1 May 2007. p. 1. (English translation) http://www.umich.edu/~twod/oil-ns/articles/castro_bio-fuels_01may07.pdf
 - *Castro’s critique of sugarcane-based ethanol as depriving the poor of food.*

C: Hydrogen Fuel Alternatives (Note: really an energy storage medium, not a fuel per se)

- American Physical Society (APS) Committee Report on Bush Administration’s Hydrogen Economy Program. “The Hydrogen Initiative: Current technology is promising but not competitive. More emphasis needed on solving fundamental science problems.” Full Report of APS Panel on Public Affairs, March 2004:

- <http://www.aps.org/policy/reports/popa-reports/upload/hydrogen.pdf>
- [Optional] APS webpage on media discussion of report's release
<http://www.aps.org/publications/apsnews/200405/hydrogen.cfm>
- [Optional] Presentation by Mildred Dresselhaus of MIT on the APS report:
http://www.aps.org/meetings/multimedia/upload/Mildred_Dresselhaus.pdf

PART 2: POLITICAL ECONOMY OF ENERGY

5. 29 Apr 2011 – History of OPEC nationalizations, end of neo-colonial oil system, emergence of a global, market centered oil system

- Lecture (may be used to illustrate points in today's reading):
 - "Political-Economy of Global Oil Order: Demand, Resources, Technology and U.S. Policy." http://www.umich.edu/~twod/oil-ns/lectures/ns_oil_17nov06bsent.ppt
- Read (students will each introduce discussion of a section):
 - O'Donnell, Thomas, 2006. "The political-economy of the globalized oil order: How "objective conditions" drove the OECD and OPEC from confrontation to collusion," at:
http://www.umich.edu/~twod/oil_s2011/ijmes_oil_13aug06cc-11apr11.pdf) Draft article.
- Research resources
 - O'Donnell, T.W., "The Political Economy of Oil in the U.S.-Iran Crisis: U.S. globalized oil interests vs. Iranian regional interests," O'Donnell, Thomas, 39 pp. plus figures, at GPIA Faculty Working Papers:
http://www.gpia.info/files/u16/O_Donnell_2009-05.pdf (best format); or homepage: http://www-personal.umich.edu/~twod/writing/iran_oil_usc_01jul09-draft.pdf
 - Yergin, Daniel, "Ensuring Energy Security," *Foreign Affairs*, March / April, 2005, pp. 69–82. http://www.umich.edu/~twod/oil-ns/articles/yergin_for_aff_energy_security_mar-apr05.html
 - Yergin, Daniel, "Supply Diversity No Longer Key to Energy Security, Daniel Yergin Says; Entire Supply Infrastructure Must be Protected; Conservation is 'Underrated'," Foster Natural Gas Report, Section: Report No. 2586; Pg. 7, April 7, 2006. http://www.umich.edu/~twod/oil-ns/articles/yergin_energy_supply_diversity_conservation_7apr07.htm
 - Foreign Affairs by Victor et al 2010. [xxx]
 - The Geopolitics of Energy: Emerging Trends, Changing Landscapes, Uncertain Times", By Frank A. Verrastro, Sarah O. Ladislav, Matthew Frank, Lisa Hyland, Contributor: James R. Schlesinger, Oct. 29, 2010
http://csis.org/files/publication/101026_Verrastro_Geopolitics_web.pdf
 - Foreign Affairs guide to reading about oil

6. 06 May 2011 – Oil prices, volatility and futures market: Fundamentals of supply and demand or speculation?

A: High prices of 2003-2008: Arguments from fundamentals of supply and demand

- Read
 - Reich, Oliver, "Oil Supply and Demand," Newsletter of International Association of Energy Economics, Second Quarter, 2006, pp.15-19
<http://www.iaee.org/documents/06spr.pdf#page=15> Author from *Institute Francais du Petrole [IFP] School, Paris.*
 - Guy Caruso, former Administrator, U.S. Energy Information Agency (EIA) of the US DoE, Congressional Testimony on High Oil Prices, 2008 (include link)
 - Richard Newell, Administrator, U.S. EIA, Short-Term and Winter Fuels Outlook, New York Energy Forum, October 18, 2010
 - See last two, supplementary slides; argument similar to G. Caruso's:

http://www.nyenergyforum.org/app/filemgmt_data/files/NY_Energy_Forum_10-18-2010%5B1%5D.pdf

B: High prices of 2003-2008: Arguments for speculation in oil futures market

- Read

- The Impact of Financial Reforms on Energy Markets, materials provided by Michael Greenberger, School of Law, University of Maryland and Advisor to UN Commission of Experts on Reforms of the International Monetary and Financial System (*Author's Congressional testimony was major factor in financial regulation reform act of 2010*)
See: NY Energy Forum presentation, 15 Sept. 2010 at:
<http://www.nyenergyforum.org/app/filemgmt/index.php?topic=r> , or go directly to following links:
- “The Role of Derivatives in the Financial Crisis” Before the Financial Crisis Inquiry Commission (June 30, 2010). Written Testimony:
http://www.michaelgreenberger.com/files/FCIC-Michael_Greenberger_Testimony.pdf
- “The Relationship of Unregulated Excessive Speculation to Oil Market Price Volatility” Prepared for the International Energy Forum (Jan15, 2010)
<http://www.michaelgreenberger.com/files/IEF-Greenberger-AppendixVII.pdf>
- “Excessive Speculation: Position Limits and Exemptions” Before the Commodity Futures Trading Commission (Aug. 5, 2009). Written Testimony:
http://www.michaelgreenberger.com/files/CFTC_AFR_Sign_On_Testimony_August_3.pdf
- “Energy Speculation: Is Greater Regulation Necessary to Stop Price Manipulation? – Part II” Before the House Energy and Commerce Subcommittee on Oversight and Investigations (June 23, 2008). Written Testimony:
http://www.michaelgreenberger.com/files/June_23_2008_testimony.pdf
- *60 Minutes*: Speculation Affected Oil Price Swings More Than Supply And Demand (Jan. 11, 2009)
 - Video Part 1 <http://www.youtube.com/watch?v=JOqEkrwBihY>
 - Video Part 2 <http://www.youtube.com/watch?v=FRlixmr-zA>
 - Transcript:
<http://www.cbsnews.com/stories/2009/01/08/60minutes/main4707770.shtml>
- *Frontline*: The Warning: Long before the meltdown, one woman tried to warn about a threat to the financial system
 - PBS Video: <http://video.pbs.org/video/1302794657>
 - Transcript: http://www-tc.pbs.org/cove-media/http/PBS_CP_FRONTLINE/219/453/2802.txt
 - Timeline:
<http://www.pbs.org/wgbh/pages/frontline/warning/cron/>
 - Extended interviews
<http://www.pbs.org/wgbh/pages/frontline/warning/interviews/>

Demand for automobiles; patterns and consequences for oil demand to 2030

- Gatley, Dermitt et al, Automotive Demand Projections to 2030 (Link from Hudson talk)
- Seabrook, John, “The Slow Lane, Can anyone solve the problem of traffic?” The New Yorker, Issue of 2002-09-02, Posted 2002-08-26.
http://www.newyorker.com/fact/content/?020902fa_fact
- [Optional] Physical Review Letters, Dutch articles in PRL on congestion
- Automotive growth double s-curve. History of tech. revolutions (**online Link from NWAEG talk**)

7. 13 May 2011 Oil Rents, Theories of *Rentier* States, Dutch Disease and Resource Curse

• Read

On the *Rentier* State, *Resource Curse*, *Oil & Democracy*, etc.

- Mahdavy, H. 1970 "The Patterns and Problems of Economic Development in *Rentier* States: the Case of Iran," in *Studies in the Economic History of the Middle East: from the rise of Islam to the present day*, M. A. Cook [ed]. London: Oxford University Press. <http://www.umich.edu/~twod/oil-s2010/rents/Mahdavy.pdf>
- Michael Ross 2001. "Does Oil Hinder Democracy" *World Politics* 53 (Apr 2001). Available online: <http://www.sscnet.ucla.edu/polisci/faculty/ross/doesoil.pdf>
- Benjamin Smith 2004. "Oil Wealth and Regime Survival in the Developing World," 1960-1999, *American Journal of Political Science*. http://www.umich.edu/~twod/oil-s2010/rents/Smith_OilRegimes.pdf
- Timothy Mitchell 2009. "Carbon Democracy," *Economy and Society*, vol. 38, issue 3. *Theories of Petroleum Rents* <http://www.umich.edu/~twod/oil-s2010/rents/CarbonDemocracyMitchell.pdf>
- Stephen Haber and Victor Menaldo, "Do Natural Resources Fuel Authoritarianism? A Reappraisal of the Resource Curse," *American Political Science Review*, February 2011, 26 pp. [doi:10.1017/S0003055410000584] <https://iriss.stanford.edu/sites/all/files/sshp/docs/Haber%20and%20Menaldo%20APSR%202011.pdf>

On Dutch Disease

- (references from my article on politics of Venezuela, references sent to Grisanti/AVHI, Caracas)
- *The Paradox of Plenty: Oil Booms and Petro-States*. Berkeley: University of California Press, 1997: 342 pages

• FURTHER TOPICS FOR LONGER SEMESTERS OR TWICE WEEKLY COURSES:

• Reads

- Yergin, Chapter 36: The Good Sweating: How low Can it Go? p. 745-768
- Yergin, Epilog: pp. 769-788.42
 - 1991 Gulf War; structure of new globalized oil order vs. late-colonial order {6, 5, 4 }
- Mommer, Bernard, *System of governance* (**post link**)
- Hertzmark, D.A. & Jaffe, A.M., "Iraqi National Oil Company Case Study" *IAEE Newsletter*, 4th Quarter 2005, pp. 5 – 12. http://www.umich.edu/~twod/oil-ns/articles/iraq/05fall_iaee_newsletter_iraq_oil_jaffe.pdf
- US-Iran "nuclear crisis" and the One Global Barrel oil system
- Cartels in the oil sector: The nature of Standard Oil's monopoly? Is OPEC a 'cartel'? The economic literature
- Arctic Petroleum and Geopolitics (courtesy Erica Dingman, New School, GPIA)
 - Borgerson, Scott G. "Arctic Meltdown." *Foreign Affairs* 87, no. 2 (2008): 63-77 (Available through The New School online library)
 - Kefferputz, Roderick. "On Thin Ice? (Mis)interpreting Russian Policy in the High North." *Centre for European Policy Studies* (2010) <http://www.ceps.be/book/thin-ice-misinterpreting-russian-policy-high-north>
 - Young, Oren. "The Pace of Change. Arctic State Changes: Implications for Governance," 2030 North, National Planning Conference, Session Paper no. 2. (Presented June 2009, Ottawa, Ontario, Canada) <http://www.2030north.carc.org/documents.php>

Module III: Globalized "Oil Order," or "System of Governance" of oil – 6 sessions

- Transition from late-colonial to nationalized to globalized oil order; views of Bernard Mommer
- Cartels, monopolies, trusts and such – classical vs. neo-classical theories; economic history
- National vs. international oil companies; the "new nationalism" vs. FDI and privatization

- Middle East and North Africa
- history of conflicts, emergence of new global system, Yergin
- Iraq wars
- Iran nuclear conflict
- Saudi Arabia and GCC
- Latin America
- Venezuela , Petro-Caribe
- Mexico
- Brazil
- Bolivia, Colombia and Ecuador
- China
- Itself, in South China Sea, Latin America, Middle East and Africa, South China Sea
- Russia
- it's East, West and South energy relations
- The Arctic
- China and Russia nuclear buildup
- Carbon, rare earths and other markets (CSIS)
- Oil and gas contracts, types of contracts and ownership, rents and rentismo, Dutch Disease, inflation, ...

READINGS: - History: Japanese (and German) oil problems in WWII, the key military and geo-strategic role of oil

READINGS:
- History: The Suez Crisis; Iran in the 1950's