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#### **Reading/Class Participation:**

Please come to class each day ready to discuss the assigned reading. Please prepare a ½ page summary of each paper that discusses: the main research question; data used in the analysis; the empirical approach, structural versus reduced form, identification of the parameter(s) of interest, etcetera; and any major assumptions or limitations of the study. I will randomly select several of these summaries during the semester to evaluate as part of your class participation grade.

#### **Referee Reports:**

Each student is required to submit two original referee reports on unpublished empirical papers in environmental economics. I will select each paper from the NBER EEE or similar working paper series. The report should not exceed 4 pages. Each report should (briefly) summarize the main contribution of the paper, strengths and weaknesses and areas for improvement. Your goal is to critically evaluate the manuscript and provide feedback the author(s) could use to improve their work. Due dates are: October 5, 2010 and November 16, 2010.

#### **Examinations:**

There will be an in class mid-term exam on October 14, 2010 and a final exam on Saturday December 11 from 7:30 – 10:00 pm. If you have a conflict with the mid-term exam date, please see me during the first week of class to discuss alternate arrangements.

#### **Research Paper/Proposal:**

You have begun to transition from consumers of economics to producers of economics. An important part of this process is developing original research questions. Each student will

Disability Services' letters for students with disabilities indicate legally mandated reasonable accommodations. The syllabus statements and answers to Frequently Asked Questions can be found at <a href="http://www.colorado.edu/disabilityservices">http://www.colorado.edu/disabilityservices</a>

**Religious Observances:** Campus policy regarding religious observances requires that faculty make every effort to deal reasonably and fairly with all students who, because of religious obligations, have conflicts with scheduled exams, assignments or

Tentative Schedule: \* Denote required readings

## I. Introduction

8/24/10	* Angrist and Jorn-Steffen Pischke (2010), "The Credibility Revolution in Empirical Economics: How Better Research Design is Taking the Con out of Econometrics.", Spring 2010 Angrist and Krueger, "Empirical Strategies in Labor Economics"
8/26/10	* Einav and Levin (2010), "Empirical Industrial Organization: A Progress Report." , Spring 2010 Reiss and Wolak, "Structural Econometric Modeling: Rationales and Examples
	from IO"

### **B. Electricity and Manufacturing**

9/14/10 \* Greenstone (2002), "The Impacts of Environmental Regulations on Industrial Activity: Evidence from the 1970 and 1977 Clean Air Act Amendments and the Census of Manufactures." 110: 1175

	<ul> <li>Allcott and Wozny, "Gasoline Prices, Fuel Economy, and the Energy Paradox." http://web.mit.edu/allcott/www/Allcott%20and%20Wozny%202010%20- %20Gasoline%20Prices,%20Fuel%20Economy,%20and%20the%20Energy%20Par adox.pdf</li> <li>Klier and Linn (2010), "The Price of Gasoline and New Vehicle Fuel Economy: Evidence from Monthly Sales Data." 2(3).</li> <li>Knittel and Sandler, "Carbon Prices and Automobile Greenhouse Gas Emissions: The Extensive and Intensive Margin" http://www.nber.org/chapters/c12134.pdf</li> </ul>
10/12/10	<ul> <li>* Jacobsen, "Evaluating U.S. Fuel Economy Standards In a Model with Producer and Household Heterogeneity." http://econ.ucsd.edu/~m3jacobs/Jacobsen_CAFE.pdf</li> <li>Bento, Goulder, Jacobsen and von Haefen (2009) "Distributional and Efficiency Impacts of Increased U.S. Gasoline Taxes," , Vol. 99, No. 3, 2009.</li> <li>Goulder, Jacobsen and van Benthan, "Unintended Consequences from Nested State &amp; Federal Regulations: The Case of the Pavley Greenhouse-Gas-per-Mile Limits" http://www.nber.org/papers/w15337</li> <li>Li, Timmins and von Haefen (2009), "How Do Gasoline Prices Affect Fleet Fuel Economy." 1(2): 113-137</li> </ul>

## Midterm Exam: 10/14/2010 in class

## **B. Electricity and Energy Efficiency**

10/19/10 \* Rapson, "Durable Goods and Long-Run Electricity Demand: A Case Study of Air Conditioner Purchase Behavior

10/26/10	* Holland and Mansur (2008), "Is Real-Time Pricing Green? The Environmental Impacts Of Electricity Demand Variance." 90(3): 550-561.
10/28/10	* Allcott, "Rethinking Real-Time Electricity Pricing." http://web.mit.edu/allcott/www/Allcott%202010%20-%20Rethinking%20Real- Time%20Electricity%20Pricing.pdf Wolak, "Residential Customer Response to Real-Time Pricing: The Anaheim Critical-Peak Pricing Experiment." ftp://zia.stanford.edu/pub/papers/anaheim_cpp.pdf
11/2/10	* Grant and Kotchen (2009), "Does Daylight Saving Time Save Energy? Evidence From A Natural Experiment In Indiana." ) http://www2.bren.ucsb.edu/~kotchen/links/DSTpaper.pdf Kellogg and Wolff (2008), "Daylight time and energy: Evidence from an Australian experiment." 56: 207-220.

# C. Voluntary Measures/Information

11/4/10	* Cutter and Neidell (2009), "Voluntary information programs and environmental regulation: Evidence from 'Spare the Air'." , 53(3): 253-256.
	Reiss and White (2008), "What changes energy consumption? Prices and public pressures." 39(3): 636-663.
	Zivin and Neidell (2009), "Days of haze: Environmental information disclosure and intertemporal avoidance behavior." http://www.nber.org/papers/w14271

## IV. Estimating Damages A. Air Pollution

11/9/10	Referee Report 2 Assigned. Due: 11/16/10
	* Chay and Greenstone (2005). "Does Air Quality Matter? Evidence from the Housing Market.", 113(2): 376-424.
11/11/10	* Davis (2010). "The Effect of Power Plants on Local Housing Values and Rents." ) http://faculty.haas.berkeley.edu/Idavis/pp.pdf

11/16/10	* Bajari, Cooley, Kim and Timmins, "A Theory Based Approach to Hedonic Price Regressions With Time Varying Unobserved Product Attributes: The Price of Pollution." http://www.nber.org/papers/w15724
11/18/10	* Currie and Neidell (2005), "Air Pollution and Infant Health: What Can We Learn From California's Recent Experience?", 120(3): 1003-1030.
	Knittel, Miller and Sanders, "Caution, drivers! Children present. Traffic, pollution, and infant health." http://www.econ.ucdavis.edu/faculty/knittel/papers/kms_latest.pdf
	Currie and Walker. "Traffic Congestion and Infant Health: Evidence from E-Z Pass" http://www.nber.org/papers/w15413