

## ANDREW JAMES STOCKING

2004 11<sup>th</sup> St., NW #433, Washington, DC 20001  
(202) 249-1791 (home); (510) 593-3938 (cell); astocking@gmail.com

---

### EDUCATION

**PhD, Resource Economics**, University of Maryland (2009)

**Dissertation:** *Three Empirical Studies in Market Design*

**Committee:** Peter Cramton (Chair), Andreas Lange (co-Chair), Lawrence Ausubel, John Horowitz

**MS, Resource Economics**, University of Maryland (2008)

**MS, Civil and Environmental Engineering**, Stanford University (1997)

**BS, Chemical Engineering**, Stanford University (1996)

### FIELDS OF CONCENTRATION

Microeconomics and Game Theory

Auctions and Market Design

Public Economics

Environmental and Energy Economics

### ECONOMIC PUBLICATIONS - JOURNAL ARTICLES

Competition-based Environmental Policy: an Analysis of Farmland Preservation in Maryland (with John Horowitz and Lori Lynch). 2009. *Land Economics*.85(4): 555-575.

### WORKING PAPERS

Unintended Consequences of Price Controls: An Application to Allowance Markets. 2010. Congressional Budget Office Working Paper 2010-06.

Charitable Memberships, Volunteering, and Discounts: Evidence from a Large-Scale Online Field Experiment (with Andreas Lange). NBER Working Paper #14941 (May 2009).

Common-Value Auctions with Liquidity needs: An Experimental Test of a Troubled Assets Reverse Auctions. (with Lawrence Ausubel, Peter Cramton, Nathaniel Higgins, Emel Filiz-Ozbay, and Erkut Ozbay). University of Maryland Working Paper 2009.

Bringing Growth Theory 'Down to Earth' (with Ramon Lopez). March 2009. University of Maryland AREC Working Paper 09-01.

### WORK IN PROGRESS

Auction Design, Incentives, and Buying Back Maryland and Virginia Crab Licenses (with Geret DePiper, Nathaniel Higgins, and Douglas Lipton).

Bidder Subsidies in Adword Auctions and Search Engine Revenue.

Constraining Prices, Participants, and Transactions in Cap-and-Trade Markets (with Terry Dinan).

Disentangling the Incentives of Prosocial Behavior Using Six Field Experiments.

Fundamentals of the U.S. Sulfur Dioxide Market (with Claudia Hitaj).

Price Controls in Allowance Markets (with Stephen Salant).

The Complementarities of Competition in Charitable Fundraising (with Andreas Lange).

### EMPLOYMENT HISTORY

**Congressional Budget Office (Washington, DC):** August 2009 – present: Market Design Economist

Provide economic analyses of auctions and other markets with a focus on market efficiency and equilibrium market operation under varying market designs. Past work has included cap-and-trade market for pollutants, oil and commodity markets, spectrum auctions, and healthcare markets.

**Independent Consultant:** November 2007 – March 2009: Consultant

**Office of Communications, UK.** Assisted Prof. Peter Cramton in the design and implementation of spectrum auctions for several bands in the UK market

**Federal Aviation Administration, Washington DC.** Assisted Prof. Peter Cramton in the design and implementation of auctions for airport landing slots

**Care2.com, Inc. (Redwood City, California):** June 2000 – present: Vice President

**August 2005 – August 2009. Vice President Nonprofit Strategy**

- Provided contract development and negotiation support
- Developed new products and pricing for the Business Development team

**June 2000 – August 2005. Vice President Business Development**

- Developed revenue model and grew it from zero to \$5MM annually with a staff of six.
- Worked closely with many of the largest progressive charities in the United States to refine internet strategy around fundraising, recruitment, and use of online grassroots audience.
- Developed online membership communication program for those organizations to recruit millions of online activists and raise several hundred thousand dollars.

**Sonoran Institute (Bozeman, Montana):** Sept. 2004 – Sept. 2005: Independent Research (part-time)

Conducted analysis of hedonic price models to estimate the effect of zoning changes on property values

**The Mellman Group (Washington, DC):** September 2002 – November 2002: Political Analyst

Conducted a range of quantitative and qualitative public opinion analyses for Democratic candidates

**Malcolm Pirnie, Inc. (Oakland, California):** August 1997 – June 2000: Project Manager

- Managed over \$2 million of contracts on behalf of government, corporate, and utility clients with a staff that at times exceeded twenty
- Developed expertise in remediation and water treatment technology evaluations, risk assessments, standard-setting procedures, and modeling of contaminants movement throughout the environment
- Performed benefit cost analyses on the use of MTBE in California and treatment of public drinking water sources as a result of contamination by a variety of chemicals
- Developed probabilistic risk analysis model using Monte Carlo simulations to determine expected costs associated with remediation and treatment scenarios for contaminated sites
- Served as company spokesperson on oxygenate-related issues, delivering over 60 presentations at conferences, board meetings, and workshops including expert testimony before the US EPA
- Taught state and federal classes to regulators, consultants, and utility professionals in remediation and treatment strategies

**GK Company (St. Petersburg, Russia):** June 1996 – Sept. 1996: Independent Strategic Consultant

Wrote a business plan and organized financial statements for a small Russian biotechnology start-up; prepared investing material for venture capital firms and organized subsequent meetings with firms in Moscow and St. Petersburg

## **AWARDS AND HONORS**

- University of Maryland, College Park, Fellowship for Graduate Study, 2005-2007
- University of Maryland, College Park, Graduate Assistantship, 2007-2009
- State Department ambassador to Lake Baikal, Russia to study policy solutions to environmental challenges facing the lake (July 2003)
- Recipient of ASCE's 2002 Samuel Arnold Greeley Award for making the "most valuable contribution to the environmental engineering profession" in Journal of Environmental Engineering (April 2002)
- Recipient of the First Annual Paul L. Busch Prize for excellence in engineering (March 2000)

## SELECTED OTHER PUBLICATIONS

### Peer Reviewed Journal Articles

- Stocking, A. and Kavanaugh, M. 2003. **Closure to "Modeling Volatilization of MTBE from Standing Surface Waters" by Andrew J. Stocking and Michael C. Kavanaugh** *Journal of Environmental Engineering-ASCE* 129(5): 485.
- Deeb, R.A., Sharp, J., Stocking, A.J., McDonald, S., West, Laugier, M.A., Alvarez, P.A., Kavanaugh, M.K., Alvarez-Cohen, L. 2002. **"Impact of Ethanol on Benzene Plume Lengths: Microbial and Modeling Studies."** *Journal of Environmental Engineering-ASCE* 128(9): 868-875.
- Stocking, A., Deeb, R. A., Flores, A., Stringfellow, W., Talley, J., Brownell, R. and Kavanaugh, M. 2001. **"Bioremediation of MTBE: A review from a practical perspective."** *Biodegradation* 11(2-3):187-201.
- Stocking, A., Suffet, I., McGuire, M. and Kavanaugh, M. 2001. **"Implications of a MTBE consumer threshold odor study for drinking water standard setting."** *Journal of the American Water Works Association*, 93(3): 95-105.
- Stocking, A. and Kavanaugh, M. 2000. **"Modeling volatilization of MTBE from standing surface waters."** *Journal of Environmental Engineering-ASCE* 126(12):1131-1136.
- Eisenhardt, P.E., Stocking, A.J., Reinhardt, W.G. 1998. **"Gradual Growth and 17 Long-Term Deals Mark 1997 Water and Wastewater Contract Operations,"** *Public Works Financing*. 116: 1-10.
- Sheats, J.R., Antoniadis, H., Hueschen, M., Leonard, W., Miller, J., Moon, R., Roitman, D., Stocking, A.J. 1996. **"Organic Electroluminescent Devices,"** *Science*. 273(5277): 884-888.

### Books and Book Chapters

- Deeb, R. A., Stocking, A. Alvarez-Cohen, L. and Kavanaugh, M. 2002. **"Biodegradation of Methyl tert-Butyl Ether and tert-Butyl Alcohol."** Chapter 16. In Diaz, A. and Drogos, D. (Eds.), *Oxygenates in Gasoline: Environmental Aspects*, American Chemical Society Symposium Series 799. Oxford University Press.
- Deeb, R. A., Stocking, A., Flores, A. and Kavanaugh, M. 2002. **"Overview of Methyl tert-Butyl Ether Remediation and Treatment Strategies."** Chapter 14. In Diaz, A. and Drogos, D. (Eds.), *Oxygenates in Gasoline: Environmental Aspects*, American Chemical Society Symposium Series 799. Oxford University Press.
- Stocking, A.J., Pappas, K.J., Kavanaugh, M.C. 1999. **"Evaluation of the Fate and Transport of Methanol in the Environment."** American Methanol Institute. 800 Connecticut Avenue NW, Suite 620; Washington DC 20006. Available at: <http://www.methanol.org/methanol> (January).
- Stocking, A.J., Eylers, H.E., Wooden, M., Kavanaugh, M.C. 2000. **"Air Stripping."** *Treatment Technologies for Removal of MTBE from Drinking Water: Air Stripping, Advanced Oxidation Processes, Granular Activated Carbon, Synthetic Resin Sorbents*. Melin, Gina (Ed). MTBE Research Partnership. National Water Research Institute. Available at: <http://www.nwri-usa.org/asp/BooksList.asp?id=4&main=m4&sub=s4&CtgID=12>
- Flores, A.E., Stocking, A.J., Kavanaugh, M.C. 2000. **"Synthetic Resins."** *Treatment Technologies for Removal of MTBE from Drinking Water: Air Stripping, Advanced Oxidation Processes, Granular Activated Carbon, Synthetic Resin Sorbents*. Melin, Gina (Ed). MTBE Research Partnership. National Water Research Institute. Available at: <http://www.nwri-usa.org/asp/BooksList.asp?id=4&main=m4&sub=s4&CtgID=12>
- Kommenini, S., Zoeckler, J., Stocking, A.J., Flores, A.E., Kavanaugh, M.C. 2000. **"Advanced Oxidation Processes: Literature Review."** *Treatment Technologies for Removal of MTBE from Drinking Water: Air Stripping, Advanced Oxidation Processes, Granular Activated Carbon, Synthetic Resin Sorbents*. Melin, Gina (Ed). MTBE Research Partnership. National Water Research Institute. Available at: <http://www.nwri-usa.org/asp/BooksList.asp?id=4&main=m4&sub=s4&CtgID=12>
- Flores, A.E., Stocking, A.J., Kavanaugh, M.C. 1999. **"The Use of Synthetic Resins Sorbents for Removal of MTBE from Drinking Water."** Melin, Gina (Ed). MTBE Research Partnership. National Water Research Institute. Available at: <http://www.nwri-usa.org/asp/BooksList.asp?id=4&main=m4&sub=s4&CtgID=12>

### Public Testimony and Presentations

- Stocking, A.J., Deeb, R.A., Kavanaugh, M.C. 1999. **"Evaluation of the Fate and Transport of Ethanol in the Environment."** Presented to the US EPA Blue Ribbon Panel. Washington, DC. Available at: <http://www.epa.gov>
- Arulanantham, R., Buscheck, T., Kavanaugh, M. C., Stocking, A.J., Instructor and Contributing Author of **"Assessment and Management of MTBE Impacted Sites."** National Ground Water Education Foundation. Classes taught 1999 - 2000.
- Stocking, A.J., Petersen, S.F., Kavanaugh, M.C. 1998. **"Remediation Technologies: Design, Selection, and Optimization of Recovery Systems for Methyl Tert-Butyl Ether,"** presented at the Conference on Petroleum Hydrocarbons and Organic Chemicals In Groundwater: Prevention, Detection, and Remediation, Nov. 11-13.

## Other Publications

- Burlingame, G.A., Waer, M.A., Suffet, I.H., Hoehn, R.C., Khiari, D., Stocking, A.J., Moran, D., Dietrich, A. 2002. **“Committee Report: Options for a taste and odor standard.”** *J. American Water Works Association*, 94(6): 80-87.
- Stocking, A.J., Koenigsberg, S., Kavanaugh, M.C. 1999. **“Remediation and Treatment of MTBE,”** *Environmental Protection* (A Stevens Publication), pp. 36-41.
- Flores, A., Stocking, A., Ivery, J., Thoma, S. and Kavanaugh, M. 2000. **“Impact of Small Gasoline Spills and the Treatment of Water Supply from Private Drinking Water Wells.”** *Soil Sediment & Groundwater MTBE Special Issue*, March Issue, pp. 15-20.