

**EXHIBIT NO. \_\_\_(JAD-2)**  
**DOCKET NO. UE-04\_\_\_/UG-04\_\_\_**  
**2004 PSE GENERAL RATE CASE**  
**WITNESS: JEFFREY A. DUBIN**

**BEFORE THE**  
**WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION**

**WASHINGTON UTILITIES AND  
TRANSPORTATION COMMISSION,**

**Complainant,**

**v.**

**PUGET SOUND ENERGY, INC.,**

**Respondent.**

**Docket No. UE-04\_\_\_**  
**Docket No. UG-04\_\_\_**

**FIRST EXHIBIT (CURRICULUM VITAE) TO PREFILED DIRECT  
TESTIMONY OF JEFFREY A. DUBIN (NONCONFIDENTIAL)  
ON BEHALF OF PUGET SOUND ENERGY, INC.**

**APRIL 5, 2004**

**JEFFREY A. DUBIN, Ph.D.**  
**Co-Founder and Participant**  
**Pacific Economics Group**  
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Jeffrey A. Dubin is Co-Founder and Partner in Pacific Economics Group. He is also a tenured Associate Professor of Economics at the California Institute of Technology. His research focuses on microeconomic modeling with particular emphasis on discrete choice econometrics. Current research topics include: discrete-choice econometrics, energy economics, tax compliance, sampling and survey methods, valuation of intangible assets, and studies of ballot proposition voting. Some examples of his work include:

#### **INTELLECTUAL PROPERTY**

- ◆ For a defendant law firm, Dr. Dubin developed a damage estimate for patent infringement litigation involving a computer upgrade chip patent.
- ◆ For a photographic equipment manufacturing company involved in patent infringement litigation, Dr. Dubin developed an econometric model to measure the relevant market, the product demand in that market and the damages resulting from the infringement.
- ◆ For a major computer company involved in patent litigation, Dr. Dubin reanalyzed a survey of computer purchase decisions offered by plaintiffs as evidence of historical damages. Dr. Dubin also designed and implemented a survey of computer users to measure potential damages.
- ◆ For a large U.S. food and beverage company Dr. Dubin has developed econometric theory and models to assign values to several intangible assets. His approach is based on the comparison of the demand for branded and private label products.
- ◆ For a Japanese manufacturer of fractional horsepower micro-motors used in automobile power door locks and power mirrors allegedly infringed by a Hong Kong manufacturer, Dr. Dubin developed an econometric model of the world demand for micro-motors. This model was used in conjunction with an international pricing model to calculate lost profits from foregone sales and price erosion.
- ◆ For a large manufacturer of a top 50 chemical, Dr. Dubin developed a model of the world supply and demand for this chemical in order to calculate the damage resulting from a process patent infringement.

- ◆ In federal court litigation brought in New Orleans, Dr. Dubin assisted in developing a celebrity goodwill value assessment for appropriating a nationally known chef's likeness.
- ◆ For a developer of software, which provides credit card scoring, Dr. Dubin assisted counsel in developing alternative damage theories.
- ◆ For a manufacturer of a branded car wax, Dr. Dubin assisted counsel in damage calculations under alleged tradedress and trademark issues.
- ◆ For a manufacturer of artificial joint implants, Dr. Dubin developed an econometric model of product selection by orthopedic surgeons in order to quantify potential lost profits.

## **ANTITRUST**

- ◆ For generic manufacturers of several leading pharmaceuticals, Dr. Dubin analyzed higher prices paid by consumers that resulted from delaying the time when manufacturers branded patented drugs go off patent.
- ◆ For the generic manufacturers of a leading anti-cancer chemotherapy drug, Dr. Dubin considered the anti-competitive effects of patent extensions by these patent holders. He also analyzed the demand for chemotherapy agents and the extent of the market.
- ◆ For the Oakland Raiders, Dr. Dubin analyzed the demand for NFL football. He designed an econometric model to test audience effects on individual demand, as well as how aspects of team performance affect demand. This model established that opening season box office performance could have lingering effects for a football team in terms of demand for tickets.
- ◆ For the Department of Justice, Dr. Dubin was the lead economist and expert in a multi-national merger analysis of major cardio ultrasound equipment manufacturers. Dr. Dubin utilized nested logit techniques to determine the patterns of substitution for purchasing ultrasound equipment. He then used these models to determine the price consequences for cardio ultrasound equipment that would likely occur as a result of the merger.
- ◆ For a manufacturer of agricultural silage bags, Dr. Dubin assessed geographic market definition and considered the joint market power of distribution of agricultural silage bags as evidenced by their boycott of specific manufacturers.
- ◆ For a group of corn-syrup manufacturers accused of price-fixing, Dr. Dubin provided econometric rebuttal testimony to demonstrate that the opposing expert did not demonstrate price-fixing.

- ◆ For a group of merging railroads, Dr. Dubin developed rebuttal testimony to demonstrate that the opposing expert had overstated the likely diversion from rail to truck.
- ◆ For architectural hinge manufacturers accused of price collusion, Dr. Dubin developed a model of hinge pricing based on hundreds of thousands of individual transactions.
- ◆ For the U.S. Department of Justice, using scanner data, Dr. Dubin developed econometric models of the demand for white bread. These models were used to demonstrate a proposed merger's likely price consequence.
- ◆ For a telecommunications company, Dr. Dubin developed an econometric model of the choice by individuals of market versus self-insurance and showed that the damages resulting from alleged unfair marketing were substantially mitigated.
- ◆ In an antitrust action filed in New York, Dr. Dubin assisted in preparing a report assessing the divisional CAPM betas for an international copier and printer company.

#### **STRATEGIC AND MANAGEMENT CONSULTING**

- ◆ For a large refining company, Dr. Dubin developed an econometric model of gasoline demand.
- ◆ For Canada Post, Dr. Dubin developed an econometric model of the demand for various mail products and evaluated the simulation of a previously estimated econometric model.
- ◆ For a company doing credit card scoring analysis, Dr. Dubin evaluated the financial consequences that losing a sole-supply contract would have on market capitalization.
- ◆ For a major bank, Dr. Dubin analyzed the effects of automatic teller machines on the market for travelers checks.
- ◆ For the state of California, Dr. Dubin examined the effects of state income tax enforcement.
- ◆ For a gas pipeline restructuring under FERC Order 636a, Dr. Dubin developed a model analyzing the competitiveness of various market segments.
- ◆ For a gas pipeline, Dr. Dubin analyzed the competitive nature of the market for gas storage.
- ◆ For a top-five mail order company, Dr. Dubin has analyzed historical purchase and promotion data at the individual level to model retail mail order demand, promotion effectiveness, and purchase behavior over time.

- ◆ For a large-scale manufacturer of architectural windows, Dr. Dubin has analyzed a new manufacturing process using structural econometric techniques and has designed an optimal production process.
- ◆ For the American Gaming Association, Dr. Dubin assisted in the development of economy wide multiplier benefits from the gaming industry.
- ◆ For the Canadian Postal Service and Canadian Direct Marketing Association, Dr. Dubin prepared an econometric model of the demand for addressed admail and related complimentary products. This model was used to assess the consequences of a proposed price increase in addressed admail.
- ◆ For a major oil-producer in Alaska, Dr. Dubin assisted in developing a model of crude oil pricing and determined the effects of natural gas liquids on crude prices.
- ◆ For a major energy company operating in Bolivia, Dr. Dubin analyzed the appropriate capital asset pricing model beta and quantified country risk and project risk.
- ◆ For a gas pipeline seeking market-based rates, Dr. Dubin conducted a discounting and elasticity of demand study to demonstrate the workable competitive nature of the market.

#### **NATURAL RESOURCE DAMAGE ASSESSMENT**

- ◆ For a major mining corporation operating in the state of Montana, Dr. Dubin developed a discrete-choice model of river choice for recreational fishing and calculated the level of damages sustained from the diminished quality of a specific river.
- ◆ For the owner of a mining operation in Colorado, Dr. Dubin analyzed a residential pricing model offered as evidence by the plaintiffs in a class-action suit alleging loss of property values due to pollution of a river.
- ◆ For several potentially responsible parties in California, Dr. Dubin developed an econometric model of commercial fishing and determined the magnitude of potential damages from the effects of alleged ocean pollution.
- ◆ For a major oil company operating in the state of Texas, Dr. Dubin analyzed the level of damages sustained to property holders due to proximity to a toxic waste site.
- ◆ For several chemical companies operating in the state of Massachusetts, Dr. Dubin reanalyzed a property value-pricing model offered as evidence by the U.S. government in a Superfund suit alleging damages from the pollution of a harbor near Boston.
- ◆ In litigation involving a Superfund site in Los Angeles, Dr. Dubin assisted defense counsel in deposing plaintiff's expert economic witnesses regarding the design and

findings of a CVM survey utilized to compute non-use damages. Dr. Dubin assisted in critiquing the CVM survey design methodology and in proposing and redesigning the survey.

- ◆ For a major electronic manufacturer operating in Phoenix, Arizona, Dr. Dubin assisted in the development of hedonic pricing regression models to measure the affect of ground water contamination on residential housing prices.

## **SURVEY RESEARCH**

- ◆ For the City of Los Angeles, Dr. Dubin analyzed the LAPD's use of force reports. He accomplished this using stratified sampling methods across the various reporting districts in Los Angeles.
- ◆ Dr. Dubin assisted lawyers for merging railroads in determining whether a proposed merger would affect hazardous materials shipments. Dr. Dubin used sampling methods to determine the traffic volume that would have to be sampled in order to produce reliable hazardous material shipment estimates.
- ◆ For a major psychiatric hospital in the U.S., Dr. Dubin designed a survey of hospitals in the U.S. to measure patient overcharges.
- ◆ For a major food products manufacturer, Dr. Dubin designed a sample for the valuation of inventory and fixed assets.
- ◆ Dr. Dubin has analyzed survey results from several national surveys of individuals (NIECS, SIPP, BPA).
- ◆ For a major computer hardware company involved in litigation, Dr. Dubin designed a survey of computer software users regarding their purchase decisions.
- ◆ For counsel representing two merging railroads, Dr. Dubin critiqued a well known engineering model of railroad traffic.
- ◆ For counsel representing an intervening railroad, Dr. Dubin assisted in preparing discovery and deposition questions of an opposing statistical expert.
- ◆ For counsel representing two merging railroads, Dr. Dubin has performed a statistical sampling of traffic movements in order to measure potential divertible traffic.
- ◆ For the Los Angeles Police Department, Dr. Dubin will develop statistical random samples of specific police activity in connection with the consent degree between LAPD and the Department of Justice.

## **UTILITY MERGERS**

- ◆ In several proposed mergers of electric and gas utilities, Dr. Dubin explored and analyzed the projected synergies associated with the merger of two utilities. Dr. Dubin projected energy requirements for both stand-alone utilities and the combined utility over a period of ten years. Future capital requirements and savings resulting from the merger were calculated and projected over a ten-year period for both the merged and stand-alone scenarios.
- ◆ Dr. Dubin developed the BEARS and BULLS Merger model to analyze potential synergy savings and pro-forma balance sheets for proposed utility mergers. Dr. Dubin has applied this model in several utility merger cases.

## **CIVIL LITIGATION**

- ◆ For the Internal Revenue Service, Dr. Dubin implemented measures of shareholder common control from voluminous monthly shareholder data covering a five-year period.
- ◆ Dr. Dubin assisted in determining the appropriate refund level due to the California Independent System Operator (CAISO) from their electricity purchases in the California wholesale energy market. Dr. Dubin developed models to calculate the natural gas spot price from published ranges and average prices.
- ◆ For several tobacco companies, Dr. Dubin addressed the issue of whether cigarette smoking and asbestos exposure were synergistic in causing lung cancer. Dr. Dubin has analyzed several aspects of the tobacco-asbestos synergy issue to determine whether a combined exposure to smoking and asbestos raise the likelihood, above the individual risks, that an individual will contract lung cancer. Dr. Dubin reanalyzed the American Cancer Society database, and also conducted meta-analyses of early studies.
- ◆ For the City of San Francisco, Dr. Dubin developed a model that measured damages resulting from a major bank's failure to escheat municipal bond interest.
- ◆ For a major energy supplier in the Northwest, Dr. Dubin developed a model that measured damages resulting from a major bank's failure to escheat bond interest.
- ◆ For the City of San Francisco and the State of California, Dr. Dubin developed a model of fee overcharge and hidden interest collected by a large California title company.
- ◆ For the state of Alaska, Dr. Dubin developed a model that measured damages resulting from a major bank's failure to escheat bond interest.
- ◆ For a defendant bus company, Dr. Dubin calculated the present discounted value of future medical costs under various life scenarios.

- ◆ For the IRS, Dr. Dubin helped develop a shareholder value model that demonstrated that a packaging company's reorganization was a tax sham.
- ◆ For a grocery store chain, Dr. Dubin developed models of the demand for hamburgers to demonstrate the stigmatic effect on sales from bad publicity.
- ◆ For a gas company operating in the west, Dr. Dubin helped develop an econometric pricing model for carbon dioxide gas.

## **TESTIMONY**

Testimony before the Superior Court of the State of California, Sacramento County, on behalf of the Oakland Raiders in City of Oakland, et al. v. Oakland Raiders, May 21-22, 2003.

Testimony before the Superior Court of Alaska, Third Judicial District on behalf of the State of Alaska of Alaska Inter-Tribal Council v. State of Alaska. April 11, 2002.

Deposition testimony on behalf of the City and County of San Francisco of New Times, Inc. et al. v. City and County of San Francisco, et al., Case No. C-99-0020 WHA and C-99-0193 WHA, United States District Court, Northern District of California, San Francisco Division, March 13, 2002.

Deposition testimony on behalf of Puerto Rico Telephone Company, Inc. of APCC Services, Inc. v. Puerto Rico Telephone Company, Inc., Civil Action No. 01-1832, United States District Court, District of Puerto Rico, February 6, 2002.

Deposition testimony on behalf of the State of Alaska of Alaska Inter-Tribal Council v. State of Alaska, et al., Superior Court for the State of Alaska, Third Judicial District at Dillingham, Case No. 3DI-99-113 Civil, February 9, 2001.

Testimony before the Alameda County Superior Court on behalf of Oliver of Aikens v. Oliver, et al., Case No. 784492-6, May 8, 9, 10, 11 and 18, 2000.

Deposition testimony on behalf of Baker Norton Pharmaceuticals Inc. of Bristol Myers Squibb Company v. Zenith Goldline Pharmaceuticals, Inc. et al, United States District Court, District of New Jersey, Civil Action No. 98 CV 1412 (WHW), February 11, 2000.

Deposition testimony on behalf of Oliver of Aikens v. Oliver, et al., Alameda County Superior Court Case No. 784492-6, September 7, 1999.

Deposition testimony on behalf of Oliver of Aikens v. Oliver, et al., Alameda County Superior Court Case No. 784492-6, August 5, 1999.



Testimony before the United States District Court, District of Minnesota, Fourth Division on behalf of Up North Plastics, Inc., Poly-America, Inc. and Ag-Bag International Limited, June 1999.

Testimony before the United States District Court, Southern District of New York, as CIV. 73(JES), Deposition Testimony on behalf of Mabuchi Motor America Corp in Johnson Electric North America v. Mabuchi Motor America Corp., June 8, 1999

Testimony before the United States District Court, Central District of Illinois, Peoria Division, Deposition Testimony on behalf of Archer Daniels Midland et. al. Gray & Company v. Archer Daniels Midland, March 11, 1999.

Testimony before the Surface Transportation Board, on behalf of Canadian National Railway Company, December 1998.

Testimony before the United States District Court, Southern District of New York, as CIV. 73(JES), Deposition Testimony on behalf of Mabuchi Motor America Corp in Johnson Electric North America v. Mabuchi Motor America Corp., September 11, 1998.

Testimony before the Surface Transportation Board on behalf of Conrail, January 1997.

Testimony before the Federal Energy Regulatory Commission, on behalf of Koch Gateway Pipeline Company, Docket No. RP95-362-000, October, 1996.

Testimony before the Federal Energy Regulatory Commission, on behalf of Koch Gateway Pipeline Company, Docket No. RP95-362-000, June 10, 1996.

Testimony before the Federal Energy Regulatory Commission, Prepared Direct Testimony on behalf of Koch Gateway Pipeline Company, Docket No. RP95-362-000, June 26, 1995

Testimony before the U.S. Tax Court, on behalf of Nestlé Holding, Inc. v. Commissioner, Tax Court Docket No. 21562-90, April 25, 1994.

Testimony before the U.S. Tax Court, prepared Direct Testimony on behalf of Nestlé Holding Inc. in Nestlé Holding Inc. v. Commissioner, Tax Court Docket No. 21562-90, January 24, 1994.

Comments before the Department of Interior, July 22, 1993, Advance Notice of Proposed Rulemaking (43 CFR Part II) Natural Resource Damage Assessment Regulations Type B Rule, September 22, 1993.

Testimony before the United States District Court, Southern District of New York, as CIV. 73(JES), Deposition Testimony on behalf of Mabuchi Motor America Corp in Johnson Electric North America v. Mabuchi Motor America Corp., February 25, 1993.

Testimony before the Federal Energy Regulatory Commission, Affidavit on behalf of United Gas Pipeline Company, Docket No. RS92-26-000, October 29, 1992.

## **PROFESSIONAL EXPERIENCE**

1996-present	Co-Founding Partner, Pacific Economics Group
1993-1996	Director of Statistics and Econometric Analysis, Arthur Andersen Economic Consulting
1992-1993	Senior Economist, Arthur Andersen Economic Consulting
1989-1992	Senior Advisor, Putnam, Hayes & Bartlett, Inc.
1988-present	Associate Professor of Economics, California Institute of Technology
1982-1988	Assistant Professor of Economics, California Institute of Technology

## **EDITORIAL BOARDS**

1986-1991	<i>The Energy Journal</i>
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## **ADVISORY POSITIONS**

2001	Member, California State Auditors, Bureau of State Audits
1991	Advisory Panel on Biotechnology Opportunities, National Science Foundation, Member
1990	Lawrence Berkeley Laboratory Manufacturer Input Model for Department of Energy
1988-1995	University of California, University-Wide Energy Research Group
1987	California Energy Commission
1985	National Research Council, Committee on Behavior and Social Aspects of Energy Consumption and Production
1985	Lawrence Berkeley Laboratory, Energy Analysis Program
1984	Oakridge National Laboratory, Energy Policy Division
1984	Southern California Air Quality Management Board

## **PUBLICATIONS**

## **Books**

The California Electricity Crisis: What, Why, and What's Next, with Charles J. Cicchetti and Colin M. Long, forthcoming Springer-Verlag, New York: New York, 2003-2004.

*Empirical Studies in Applied Economics.* Boston, Massachusetts: Kluwer Academic Publishers, 2001.

*Studies in Consumer Demand-Econometric Methods Applied to Market Data.* Boston, Massachusetts: Kluwer Academic Publishers, 1998.

*Consumer Durable Choice and the Demand for Electricity.* New York-Amsterdam: North-Holland Publishing Company, 1985. Reviewed in *Journal of Political Economy* 94 (1986); *Journal of Economic Literature* 25 (1987); and *Journal of the American Statistical Association* 82 (1987).

## **Articles**

"Valuing Intangible Assets with a Nested Logit Market Share Model, forthcoming, *Journal of Econometrics*, 2003.

"Initial Virological and Immunologic Response to Highly Active Antiretroviral Therapy Predicts Long-Term Clinical Outcome," with Christina Kitchen, Scott Kitchen, and Michael Gottlieb, *Clinical Journal of Infectious Diseases*, Vol. 33, (2001):466-472.

"Energy Deregulation: The Benefits of Competition were Undermined by Structural Flaws in the Market, Unsuccessful Oversight, and Uncontrollable Competitive Forces," with Charles J. Cicchetti, Jon Hockenyos, Colin M. Long and J.A. Wright. California State Auditor, Bureau of State Audits, Sacramento, California, March 2001.

"Comparing Absentee and Precinct Voters: Voting on Direct Legislation," with Gretchen A. Kalsow, *Political Behavior*, Vol. 18, No. 2, June 1996: 393-411.

"Comparing Absentee and Precinct Voters: A View Over Time," with Gretchen A. Kalsow, *Political Behavior*, Vol. 18, No. 2, June 1996: 369-392.

"Testing Minority Preferences in Broadcasting," with Matthew Spitzer, *California Law Journal*, Vol. 68, No. 4, May 1995.

"A Micro-Econometric Analysis of Risk-Aversion and the Decision to Self-Insure," with Charles J. Cicchetti, *Journal of Political Economy*, 102 (1994): 169-186.

"Experimental Estimates of the Effects of Wage Subsidies," with R. Douglas Rivers, *Journal of Econometrics* 56 (1993): 219-242.

"Voting on Growth Control Measures: Preferences and Strategies," with D. Roderick Kiewiet and Charles Noussair, *Economics and Politics* 4 (1992): 191-213

"State Income Tax Amnesties: Causes," with Michael J. Graetz and Louis L. Wilde, *Quarterly Journal of Economics* 107 (August 1992): 1057-1070.

"The Demand for Tax Return Preparation Services," with Michael J. Graetz, Michael A. Udell, and Louis L. Wilde, *The Review of Economics and Statistics* 74 (1992): 75-82.

"The Changing Face of Tax Enforcement, 1978-1988," with Michael J. Graetz and Louis L. Wilde, *The Tax Lawyer* 43 (1990): 893-914. Reprinted in R. Westin, R. Hishon, and B. Green, eds. *Criminal Tax Prosecutions*. Anderson Publishing Company (1991).

"The Effect of Audit Rates on the Federal Individual Income Tax, 1977-1986," with Michael J. Graetz and Louis L. Wilde, *National Tax Journal* 43 (1990): 395-409.

"Selection Bias in Linear Regression, Logit and Probit Models," with R. Douglas Rivers, *Sociological Methods and Research* 18 (1989/1990). Reprinted in J. Fox and S. Long, eds. *Modern Methods of Data Analysis*. Newbury Park, California: Sage Publications (1990): 359-91.

"Risk and Reactor Safety Systems Adoption," with Geoffrey S. Rothwell, *Journal of Econometrics* 42 (1989): 202-17.

"The Report of the United States to the International Fiscal Association on the Administrative and Compliance Cost of Taxation," with Michael J. Graetz and Louis L. Wilde, *Cahiers of the International Fiscal Association*, 43 Congress, Kluwer, The Netherlands (1989): 310-47.

"The Distributional Effects of the Federal Energy Tax Act," with Steven E. Henson, *Resources and Energy* 10 (1988): 192-211.

"How Markets for Impure Public Goods Organize: The Case of Household Refuse Collection," with Peter Navarro, *Journal of Law, Economics and Organization* 4 (1988): 217-41.

"An Empirical Analysis of Federal Income Tax Auditing and Compliance," with Louis L. Wilde, *National Tax Journal* 16 (1988): 61-74.

"An Engineering/Econometric Analysis of Seasonal Energy Demand and Conservation in the Pacific Northwest," with Steven E. Henson, *Journal of Business and Economic Statistics* 6 (1988): 121-34.

"Are We a Nation of Tax Cheaters? New Econometric Evidence on Tax Compliance," with Michael J. Graetz and Louis L. Wilde, *American Economic Review, Papers and Proceedings* 77 (1987): 240-45.

"Block Switching in Demand Subject to Declining Block Rates--A New Approach," *International Association of Energy Economists, Papers and Proceedings of the Eighth Annual North American Conference* (May 1987): 243-47.

"A Nested Logit Model for Appliance Holdings in the Pacific Northwest," *Marketing Science* 5 (1986): 112-24.

"Price Effects of Energy Efficient Technologies: A Study of Residential Demand for Heating and Cooling," with Allen K. Miedema and Ram V. Chandran, *Rand Journal of Economics* 17 (1986): 310-25.

"Will Mandatory Conservation Promote Energy Efficiency in the Selection of Household Appliance Stocks?" *The Energy Journal* 7 (1986): 99-118.

"An Econometric Analysis of Residential Electric Appliance Holdings and Consumption," with Daniel L. McFadden, *Econometrica* 52 (1984): 345-62. Forthcoming, Stigum, B. ed. *Econometrics and the Philosophy of Economics: Theory – Data Confrontation in Economics*, Princeton University Press, 2002.

"Regulatory Climate and the Cost of Capital," with Peter Navarro, in *Regulatory Reform and Public Utilities*. M. Crew, ed. Lexington, Massachusetts: Lexington Books (1982): 141-66.

## **COMPUTER SOFTWARE**

SST -- Statistical Software Tools Version 2.0, Copyright © 1985-1999 with R. Douglas Rivers, "Statistical Software Tools Reference Manual and User's Guide," with R. Douglas Rivers, (1990).

## **WORKING PAPERS**

"Tax Return Preparers and Tax Evasion," with Gretchen A. Kalsow and Michael A. Udell, California Institute of Technology, Social Science Working Paper No. 1031, April 1998.

"Participation in Direct Legislation: Evidence from the Voting Booth," with Gretchen A. Kalsow, California Institute of Technology, Social Science Working Paper No. 997, January 1997.

"An Aggregate Nested Logit Model of Political Participation," with Gretchen A. Kalsow. California Institute of Technology, Social Science Working Paper No. 998, January 1997.

"Patterns of Voting on Ballot Propositions: A Mixture model of Voter Types," with Elisabeth R. Gerber, California Institute of Technology, Social Science Working Paper No. 795, April 1992.

"The Use and Misuse of Surveys in Economic Analysis: Natural Resource Damage Assessment Under CERCLA," with Charles J. Cicchetti and Louis L. Wilde, California Institute of Technology, Social Science Working Paper No. 768, July 1991.

"The Heterogeneous Logit Model," with Langche Zeng, California Institute of Technology, Social Science Working Paper No. 759, February 1991, revised August 1991.

"Welfare Economics for Tobit Models," with Louis L. Wilde, California Institute of Technology, Social Science Working Paper No. 753, January 1991, revised August 1991.

"State Tax Amnesties II: Consequences," mimeo, California Institute of Technology, July 1990.

## **REVIEWS, COMMENTS AND NOTES**

"Market Barriers to Conservation: Are Implicit Discount Rates Too High?" *Proceedings of a POWER Conference: The Economics of Energy Conservation, University of California Energy Institute* (1993): 21-33.

Comment on "Can Brute Deterrence Backfire? Perceptions and Attitudes in Taxpayer Compliance," by S. Sheffrin and R. Triest, *Who Pays Their Taxes: Tax Compliance and Enforcement*, J. Slemrod, ed., Ann Arbor, Michigan: University of Michigan Press (1992).

"The Real California Lottery: Your Income Tax," *Engineering & Science* 54 (1990): 3-11.

"Subsidy to Nuclear Power Through Price-Anderson Liability Limit," with Geoffrey S. Rothwell, *Contemporary Policy Issues* 8 (1990): 73-79.

"Safety at Nuclear Power Plants: Economic Incentives under the Price-Anderson Act and State Regulatory Commissions," with Geoffrey S. Rothwell, *The Social Science Journal* 26 (1989): 303-11.

Review of *Qualitative Choice Analysis: Theory, Econometrics, and an Application to Automobile Demand*, by K. Train, *Transportation Research-A* 22A (1988): 233-35.

"Pennywise and Pound Foolish: New Estimates of the Impact of Audits on Revenue," with Michael J. Graetz and Louis L. Wilde, *Tax Notes* 35 (1987): 787-91.

Review of *Markets for Power: Analysis of Electric Utility Deregulation*, by P. Joskow and R. Schmalensee, *Journal of Economic Literature* 22 (1984): 1667-68.

"The Effect of Rate Suppressive Regulation on the Cost of Capital," with Peter Navarro, *Public Utilities Fortnightly* 111 (1983): 18-22.

## **GRANTS**

IRS Criminal Investigation Research – Empirical Analysis of the Impact of CI Activities on Taxpayer Compliance, IRS Grant TIRNO-00-D-0039, 2003.

An Economic Analysis of Racial Profiling in Southern California, Haynes Foundation Faculty Fellowship, 2002.

An Economic Analysis of the San Fernando Valley Secession, Haynes Foundation Faculty Fellowship, 2000.

Comparing and Contrasting Absentee and Precinct Voters, Haynes Foundation Faculty Fellowship, 1995.

An Economic Analysis of Welfare Administration, with Louis L. Wilde, National Science Foundation #SES-9113209, 1991-92.

An Economic Analysis of the Rise (and Fall?) of State Lotteries, Haynes Foundation Faculty Fellowship, 1991.

An Empirical Analysis of Income Tax Auditing and Compliance, with Louis L. Wilde, National Science Foundation Grant #SES-8701027, 1987-89.

The Seasonal Demand for Electricity in the Pacific Northwest, with Steven E. Henson, Bonneville Power Administration, DE-AI79-83BP13579, 1985.

The Role of Capital in Public Utility Industries: An Integration of Economic and Financial Effects, with Daniel L. McFadden (P.I.) and Tom C. Cowing, National Science Foundation Grant #SES-8205713, 1983.

## **EDUCATION**

1982	Ph.D., Economics, Massachusetts Institute of Technology
1978	A.B., Economics, University of California, Berkeley, with highest honors and great distinction

## **HONORS AND AWARDS**

First Exhibit (Curriculum Vitae) to  
Prefiled Direct Testimony of Jeffrey A. Dubin

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Econometric Society Frisch Medal, 1986.