EXHIBIT NO. __(JAD-2) DOCKET NO. UE-06 __/UG-06 ___ 2006 PSE GENERAL RATE CASE WITNESS: DR. JEFFREY A. DUBIN

BEFORE THE WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION

WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION,

Complainant,

v.

Docket No. UE-06____ Docket No. UG-06____

PUGET SOUND ENERGY, INC.,

Respondent.

FIRST EXHIBIT (PROFESSIONALQUALIFICATIONS) TO THE DR. JEFFREY A. DUBIN ON BEHALF OF PUGET SOUND ENERGY, INC.

	PUGET SOUND ENERGY, INC.
	FIRST EXHIBIT (PROFESSIONALQUALIFICATIONS) TO THE PREFILED DIRECT TESTIMONY OF DR. JEFFREY A. DUBIN
Q.	Please state your name, business address, and occupation.
A.	My name is Dr. Jeffrey A. Dubin. My business address is Pacific Economics
	Group, 301 North Lake Avenue, Suite 330, Pasadena, CA 91101
Q.	By whom are you employed and in what capacity?
A.	I am a tenured Professor of Economics at the California Institute of Technolog
	My research focuses on microeconomic modeling with particular emphasis on
	discrete-choice econometrics.
	I am also co-founding partner and Director of Statistical and Economic Analysi
	at Pacific Economics Group, an economic, litigation, and management consulti
	firm.
Q.	Please summarize your academic and business career.
A.	I currently teach at the California Institute of Technology. I have also taught at
	Occidental College and the University of California, Santa Barbara.
	Exhibit (Professional Qualifications) to the Exhibit No. (JAD

1	I have served as a Senior Economist (1992-1993) and Director of Statistics and
2	Econometric Analysis (1993–1996) at Arthur Andersen Economic Consulting.
3	From 1989-1992, I was a Senior Advisor at Putnam, Hayes & Bartlett, Inc.
4	I have also served advisory positions for the United States District Court,
5	Southern District of California, Los Angeles Division; the California State
6	Auditors, Bureau of State Audits; the National Science Foundation; the Lawrence
7	Berkeley Laboratory; the California Energy Commission; the National Research
8	Council; the Oakridge National Laboratory; and the Southern California Air
9	Quality Management Board.
10	I have authored or co-authored several books, such as The California Electricity
11	Crisis: What, Why, and What's Next; Empirical Studies in Applied Economics;
12	Studies in Consumer Demand-Econometric Methods Applied to Market Data; and
13	Consumer Durable Choice and the Demand for Electricity.
14	I have also authored or co-authored several articles in academic scientific
15	journals. They have appeared in a variety of journals, including Econometrica;
16	Rand Journal of Economics; Quarterly Journal of Economics; Journal of
17	Econometrics; California Law Journal; Journal of Political Economy; Economics
18	and Politics; and The Energy Journal.
19	I have engaged in extensive consulting activities on behalf of numerous
20	corporations, legal firms, and regulatory bodies in matters of economics and

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1		statistics. Attachment A to this Exhibit No(JAD-2) describes my
2		professional credentials in more detail.
3	Q.	Have you previously testified on cost of capital before utility regulatory
4		commissions?
5	A.	Yes, I have served as an expert witness in proceedings before the Washington
6		Utilities and Transportation Commission; the Federal Energy Regulatory
7		Commission; United States District Court, Central District of Illinois; United
8		States District Court, District of New Jersey; United States District Court,
9		Southern District of New York; United States District Court, District of Northern
10		California, San Francisco Division; United States District Court, District of
11		Puerto Rico; the United States Department of Interior; and the Surface
12		Transportation Board. The details of my participation in regulatory proceedings
13		are provided in more detail in Attachment A to this Exhibit No(JAD-2).
14	[BA060-	400034]
		Exhibit (Professional Qualifications) to the ed Direct Testimony of Dr. Jeffrey A. DubinExhibit No(JAD-2) Page 3 of 23

Attachment A to Exhibit No. ___(JAD-2)

JEFFREY A. DUBIN, Ph.D. Co-Founder and Participant Pacific Economics Group 301 North Lake Avenue, Suite 330 Pasadena, CA 91101 Tel: 626-683-9395 Fax: 626-683-9517

Jeffrey A. Dubin is Co-Founder and Partner in Pacific Economics Group. He is also a tenured 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 multinational 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 selfinsurance 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 capital asset pricing model (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. \cdot 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 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 economywide 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 access 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 nonuse 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 developed 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

Before the Washington Utilities and Transportation Commission, Trial Testimony on behalf of Puget Sound Energy, Inc., Docket No. UG-040640, Docket No. UE-040641, December 14, 2004.

Before the Washington Utilities and Transportation Commission, Prefiled Rebuttal Testimony on behalf of Puget Sound Energy, Inc., Docket No. UG-040640, Docket No. UE-040641, November 3, 2004.

Before the United States Bankruptcy Court, Southern District of New York, Trial Testimony on behalf of At Home General Unsecured Creditors Trust, Case No. 04-10156 (BRL), July 19, 2004.

Before the United States Bankruptcy Court, Southern District of New York, Deposition Testimony on behalf of At Home General Unsecured Creditors Trust Case No. 04-10156 (BRL), June 15, 2004.

Before the Washington Utilities and Transportation Commission, Prefiled Direct Testimony on behalf of Puget Sound Energy, Inc., Docket No. UG-040640, Docket No. UE-040641, April 5, 2004.

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

Before the Superior Court of the State of California, Sacramento County, Deposition Testimony on behalf of the Oakland Raiders in City of Oakland, et al. v. Oakland Raiders, February 25, 2003.

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

Before the United States District Court, Northern District of California, San Francisco Division, Deposition Testimony on behalf of the City and County of San Francisco, Case No. C-99-0020 WHA and C-99-0193 WHA, March 13, 2002.

Before the United States District Court, District of Puerto Rico, Deposition Testimony on behalf of Puerto Rico Telephone Company, Inc., Civil Action No. 01-1832, February 6, 2002. Before the Superior Court for the State of Alaska, Third Judicial District at Dillingham, Deposition Testimony on behalf of the State of Alaska, Case No. 3DI-99-113 Civil, February 9, 2001.

Before the Alameda County Superior Court, Trial Testimony on behalf of Oliver, Case No. 784492-6, May 8, 9, 10, 11, and 18, 2000.

Before the United States District Court, District of New Jersey, Deposition Testimony on behalf of Baker Norton Pharmaceuticals, Inc., Civil Action No. 98 CV 1412 (WHW), February 11, 2000.

Before the Alameda County Superior Court Case, Deposition Testimony on behalf of Oliver, No. 784492-6, September 7, 1999.

Before the Alameda County Superior Court, Deposition Testimony on behalf of Oliver, Case No. 784492-6, August 5, 1999.

Before the United States District Court, Southern District of New York, Deposition Testimony on behalf of Mabuchi Motor America Corp., CIV. 73(JES), June 8, 1999.

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

Before the Surface Transportation Board, Applicants' Rebuttal (Volume 1B of 2) on behalf of Canadian National Railway Company, et. al., Finance Document No. 33556. December 16, 1998.

Before the United States District Court, Southern District of New York, Deposition Testimony on behalf of Mabuchi Motor America Corp., CIV. 73(JES), September 11, 1998.

Before the Surface Transportation Board, Verified Statement on behalf of Conrail, January 1997.

Before the Federal Energy Regulatory Commission, Trial Testimony on behalf of Koch Gateway Pipeline Company, Docket No. RP95-362-000, October 6 and 7, 1996.

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

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

Before the U.S. Tax Court, Trial Testimony on behalf of Nestlé Holding, Inc., Tax Court Docket No. 21562-90, April 25, 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, with C. Cicchetti, September 22, 1993.

Before the United States District Court, Southern District of New York, Deposition Testimony on behalf of Mabuchi Motor America Corp., CIV. 73(JES), February 25, 1993.

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

EXPERT REPORTS

Before the United States Bankruptcy Court, Southern District of New York, Expert Report on behalf of At Home General Unsecured Creditors Trust Case No. 04-10156 (BRL), June 15, 2004.

Before the United States Bankruptcy Court, Northern District of California, San Fransisco Division, Preliminary Expert Witness Report on behalf of At Home Corporation, Case No. 01-32495-TC, July 29, 2004.

Before the Superior Court of the State of California for the County of Napa, Affidavit on Behalf of Kay-Bee Toy, Inc., et al., Case No. 26-15615, July 23, 2002.

Affidavit on behalf of the Department of Justice regarding the acquisition of Agilent HSG by Philips, June 10, 2002.

Before the United States District Court, Northern District of California, San Francisco Division, Rebuttal Report on behalf of the City and County of San Francisco, with R. Douglas Rivers, Case No. C-99-0020 WHA and C-99-0193 WHA, March 13, 2002.

Before the United States District Court, District of Puerto Rico, Expert Report on behalf of Puerto Rico Telephone Company, Inc., Civil Action No. 01-1832, February 6, 2002.

In The Superior Court for the State of Alaska Third Judicial District at Dillingham, Surrebuttal Testimony on behalf of the State of Alaska, Case No. 113 CI, July 3, 2001.

Before the Superior Court for the State of Alaska, Third Judicial District at Dillingham, Expert Report on behalf of the State of Alaska, Case No. 3DI-99-113 Civil, February 9, 2001.

Before the Superior Court of the State of California, County of Sacramento, Expert Report and Exhibits on behalf of the Oakland Raiders, June 2000.

Before the United States District Court, District of New Jersey, Expert Report on behalf of Baker Norton Pharmaceuticals, Inc., Civil Action No. 98 CV 1412 (WHW), February 11, 2000.

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

Before the United States District Court, Central District of Illinois, Peoria Division, Expert Report, "A Review of Professor Williams Ed. Whitelaw's 'A Study of Prices of High Fructose Corn Syrup-42 and Glucose Corn Syrup" on behalf of Archer Daniels Midland et al., March 11, 1999.

Before the United States District Court, Southern District of New York, Expert Report on behalf of Mabuchi Motor America Corp., 88 Civ. 727 (JES), November 25, 1997.

Before the U. S. Tax Court, Expert Report on behalf of Nestle Holdings, Inc., Tax Court Docket No. 21562-90, January 24, 1994.

OTHER REPORTS

Before the United States District Court, Central District of California, Expert Report on behalf of Agron, Inc., Case No. CV 03-05872-MMM(KWKx), November 2004.

"Stratified Random Sample for Non-Categorical Use of Force Reports," with C. Cicchetti and E. Cotton, prepared for the Los Angeles Police Department, September 10, 2001.

"Update of the Financial Analysis of Addressed Admail," December 1997.

Statistical Analysis of Errors and Lost Charges for TENET Home Care Facilities,

January 12, 1996.

"Financial Analysis of Addressed Admail," May 1996.

"Bears and Bulls Synergy Model Source Code," Dubin/Rivers Research, March 7, 1996.

"The Economic Consequence of Independent Film Making," with Cicchetti, Peale, Boedeker, Truitt, prepared for the American Film Marketing Association, January 1995.

"Statistical Analysis of Errors and Lost Charges for TENET Home Care Facilities," June 7, 1995.

"Competition and Regulation in the Natural Gas Transportation Industry," with C. Cicchetti and C. Long, circa 1995.

"National Medical Enterprises, Inc., Psychiatric Division Review," September 14, 1994.

"An Introduction to Discrete Choice Modeling and its Applications to Load Forecasting," prepared for Canadian Electrical Association Conference, Nova Scotia, Canada, May 18, 1993.

"Preliminary Analysis of the Potential Natural Resource Damage to Commercial Fishing," prepared for the Los Angeles Harbor Counsel, July 12, 1991.

"Analysis of Market Expansion and Business Diversion in Instant Photography Attributable to the Entry of Eastman Kodak from 1976-1985," with T. Bresnahan, April 20, 1989.

"Detecting Cartel Behavior from Price Data," Architectural Hinges, with R... Preston McAfee, circa 1988.

"A Report on Freshmen Admission at Caltech: Who's Admitted, Who Comes, and Why," with R. Noll, circa 1983.

PROFESSIONAL ACTIVITIES

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.

ACADEMIC APPOINTMENTS

2005	Visiting Professor of Economics, Occidental College
2005	Visiting Professor of Economics, University of California,
	Santa Barbara
2005-present	Professor of Economics, California Institute of Technology
2004	Member, Financial Aid and Scholarship committee,
	California Institute of Technology
1988-2005	Associate Professor of Economics, California Institute of
	Technology
1982–1988	Assistant Professor of Economics, California Institute of
	Technology

EDITORIAL BOARDS

1986–1991	The Energy Journal
1700 1771	The Liter sy bourna

ADVISORY POSITIONS

2004	Technical Advisor under Rule 706 of the Federal Rule of Civil Procedure to advise a Los Angeles Federal District Court in matters of statistics.
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, Massachusetts: Kluwer Academic Publishers, 2004. pdf (1,453 kb)

Empirical Studies in Applied Economics, Boston, Massachusetts: Kluwer Academic Publishers, 2001. pdf (1,040 kb)

<u>Chapter 1</u>: The Revealed Market Power of a Natural Gas Pipeline

<u>Chapter 2</u>: The Demand For NFL Football

Chapter 3: Detecting and Measuring Shifts in the Demand for Direct Mail

Chapter 4: Valuation of a Technology Patent-Scope, Duration, and Royalty

<u>Chapter 5</u>: Statistical Analysis of the Additive and Multiplicative Hypotheses of Multiple Exposure Synergy for Cohort and Case-Control Studies

<u>Chapter 6</u>: Tests of the Additive and Multiplicative Hypotheses of Multiple Exposure

<u>Chapter 7</u>: Concentration and Competition in the Chemotherapy Drug Market <u>Chapter 8</u>: The Allocation of Police Services in Rural Alaska

<u>Chapter 9</u>: Financial Market Reaction to the Fast Food Hamburger Health Scare of 1993

Studies in Consumer Demand—Econometric Methods Applied to Market Data. Boston, Massachusetts: Kluwer Academic Publishers, 1998. pdf (2,792 kb) Chapter 1: The Demand for Addressed Admail and Complementary Products in Canada

<u>Chapter 2</u>: The World Demand for Fractional Horsepower Direct-Current Motors <u>Chapter 3</u>: Estimation and Identification of the Worldwide Demand for Acetic Acid

<u>Chapter 4</u>: The Demand for Branded and Unbranded Products—An Econometric Method for Valuing Intangible Assets

<u>Chapter 5</u>: The Demand for Recreational Fishing in Montana

Chapter 6: The Demand for Commercial Fishing in California

<u>Chapter 7</u>: The Demand for Cameras by Consumer—A Model of Purchase Type Choice, and Brand Choice

<u>Chapter 8</u>: The Demand for Transportation Services in Natural Gas Markets—The Market Power of a Natural Gas Pipeline

Consumer Durable Choice and the Demand for Electricity. pdf (6,043 kb). New York-Amsterdam: North-Holland Publishing Company, 1985. Reviewed in Journal of Political Economy 94 (1986) pdf (281 kb); Journal of Economic Literature 25 (1987) pdf (131 kb); and Journal of the American Statistical Association 82 (1987). pdf (66 kb)

Articles

"A Quasi-Comparable Approach to Reasonable Royalty Determination,"

forthcoming in *A Primer on Economic Damages in Intellectual Property Matters,* Daniel Slottje, editor, John Wiley & Sons, New York: New York, August 2005.

"An Econometric Method for Determining the Goldscheider Fraction and its Applicable Base," forthcoming in *A Primer on Economic Damages in Intellectual Property Matters,* Daniel Slottje, editor, John Wiley & Sons, New York: New York, September 2005.

"<u>Criminal Investigation Enforcement Activities and Taxpayer Noncompliance</u>," Internal Revenue Service *Statistics of Income*, 2004, under review at *Public Finance Review*, 2005. pdf (417 kb)

"Valuing Intangible Assets with a Nested Logit Market Share Model," forthcoming," *Journal of Econometrics*, 2005. pdf (323 kb)

"Initial Virological and Immunologic Response to Highly Active Antiretroviral Therapy Predicts Long-Term Clinical Outcome," with Christina Kitchen, Scott Kitchen, and Michael Gottlieb, *European Journal of Clinical Microbiology and Infectious Diseases*, Vol. 33, (2001): 466–472. pdf (156 kb)

"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. <u>pdf (504 kb)</u>

"Comparing Absentee and Precinct Voters: Voting on Direct Legislation," with Gretchen A. Kalsow, *Political Behavior*, Vol. 18, No. 2, June 1996: 393–411. pdf (1,762 kb)

"Comparing Absentee and Precinct Voters: A View Over Time," with Gretchen A. Kalsow, *Political Behavior*, Vol. 18, No. 2, June 1996: 369–392. pdf (2,148 kb)

"Testing Minority Preferences in Broadcasting," with Matthew Spitzer, *California Law Journal*, Vol. 68, No. 4, May 1995: 841–884 pdf (1,402 kb)

"A Microeconometric Analysis of Risk Aversion and the Decision to Self-Insure," with Charles J. Cicchetti, *Journal of Political Economy*, 102 (1994): 169–186. pdf (526 kb)

"Experimental Estimates of the Impact of Wage Subsidies," with R. Douglas Rivers, *Journal of Econometrics* 56 (1993): 219–242. pdf (752 kb)

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

213. pdf (509 kb)

"State Income Tax Amnesties: Causes," with Michael J. Graetz and Louis L. Wilde, *Quarterly Journal of Economics* 107 (August 1992): 1057–1070. pdf (474 kb)

"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. <u>pdf (356 kb)</u>

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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

Econometric Society Frisch Medal, 1986.

CURRENT RESEARCH

Discrete-choice econometrics, energy economics, ballot proposition voting, tax compliance.