

## VITA

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- MAIL ADDRESS:** 642 Glenn Road                      **ALT. ADDRESS:** 303 Kern Bldg., Dept. of Econ.  
State College, PA 16803                                              Pennsylvania State University  
University Park, PA 16802
- ACADEMIC DEGREES:** B.S., Economics, University of Wisconsin, 1964  
Ph.D., Economics, University of Wisconsin, 1970
- EMPLOYMENT:** Professor Emeritus of Economics, June 2004 - present  
Professor, Pennsylvania State University, 1978-2004  
Associate Professor, Pennsylvania State Univ., 1973-1978  
Assistant Professor, Pennsylvania State Univ., 1969-1973  
Director of Graduate Studies, Department of Economics, 1986-1993  
Research Associate, Institute for Policy Research & Evaluation, 1970-2001
- HONORS & AWARDS:** Faculty Marshall, College of the Liberal Arts Graduation, Spring 2003  
Teaching Award, Department of Economics, Fall 2002  
US Department of Energy, Program Review Panel, 2009-2010  
National Institute on Alcohol Abuse, Grant Panels, 1989-1991, 1994  
National Academy of Sciences Committees, 1976-77, 1979-80  
National Science Foundation, Program Review Panel, 1978
- OTHER EXPERIENCE:** Consultant: PA Office of Attorney General (1985-07), US Dept of Labor (1974-76), US  
Dept of Transportation (1973-74), National Science Foundation (1972-83), National  
Institute on Alcohol Abuse (1989-94), RWJ Foundation (2003-05), ACLU (1999,  
2006); MIT-FAA Partner Program (2008-09); US Dept of Energy (2009-10); ICAP  
Research Advisory Board (2012-17); DHHS Reviewer (Abt, 2016); Pacific Legal  
Foundation (2019); & various private consultancies (see below).
- COURSES TAUGHT:** Industrial organization, antitrust & regulation, law & economics, microeconomic  
theory, environmental economics, economic statistics, policy analysis, honors seminar.
- RESEARCH AREAS:** Applied microeconomics, market structure & conduct, antitrust & regulation,  
technological change, advertising economics, cost-benefit analysis, environmental  
economics, meta-analysis.
- RESEARCH GRANTS:** Ford Foundation (1967-68); American Iron & Steel Institute (1968-69); NSF (1970-72);  
US Department of Labor (1974-75); US Department of Transportation (1972-73, 1974-  
75, 1977-78); US Bureau of Mines (1975-77); US Public Health Service (1987-88);  
Pennsylvania LEV Commission (1993); US National Institute of Standards and  
Technology (1996); ICAP (2012-2015). Author/coauthor of 12 final research reports.

- PSU COMMITTEES:** **Liberal Arts:** Promotion & Tenure (1988-90), Instant Tenure (1993-96), Sabbatical Leaves (1984-86), Research (1982-83, 1985-88), Headship Search (1994-95), Faculty Marshall (2003). **Economics:** Personnel & Tenure (1976-78, 1982-84, 1990-92, 1995-97), Recruiting Committee (1994-95), Academic Programs (1972-74, 1979-81, 1985-93, 2000-02), Policy & Planning (1974-76, 1979-80, 1982-83, 1990-91), Graduate Aid & Admissions (1972-74, 1984-93). **Graduate School:** Fellowships (1989-90), Dept. Review Committees (1974-75), Search Committee (1977-78), Programs & Courses (1992-94), Graduate Council (1992-94).
- MAJOR PROGRAM APPEARANCES:** **Major program appearances:** Eastern Econ Assoc. (1974, 1977, 1982, 1988, 2000), ECORE Noise Workshop (2007, invited), Econometric Society (1970, 1975, 1984), Swiss Institute of Technology (2008, invited), Federal Trade Commission (1997, invited), Swiss NSF Symposium on Hedonic Models (2007, invited), Industrial Org Society (1995, 2007), Int. Civil Aviation Org. (2007, invited), Int. Meeting on Alcohol and Global Health (2014, invited); Midwest Econ Assoc. (1992), National Academy of Engineering Workshop (2007, invited), Penn. Econ Assoc. (1974, 1987, 1988, 1994), REMI Users Conference (1993, invited), South African National Treasury Workshop (2014, invited) Southern Econ Assoc. (1978, 1980, 1985, 1996, 2005, 2008), Western Econ Assoc. (1974, 1979, 1993, 1997, 2001), International Workshop on Meta-Analysis (2008, 2009, 2013 invited), National Alcohol Beverage Control Assoc. (2005 invited), and FAA Aviation Noise Impacts Meeting (2011 invited).
- EDITORIAL WORK:** **Assoc. Editor:** Journal of Economic Behavior & Organization, 1996-99. **Ms. Referee:** I have refereed over 225 papers. *Addiction* (3/11), *Alcohol Res & Health*, *Alcoholism: CER* (12/16), *Amer Econ Rev*, *Amer J Ag Econ* (12/16), *Amer Real Estate J*, *Annals of Regional Sci* (11/12, 10/13), *AP Journal Public Health* (4/19), *Applied Econ* (9/11, 10/12, 4/13), *App Econ Lett* (1/17), *BE J Econ Analysis & Policy*, *BMC Public Health* (3/18); *BMJ Open* (11/16, 1/17), *Bulletin Econ Res*, *Business Econ*, *Canadian J Reg Sci* (5/13), *Cato J*, *Cont Econ Policy* (8/11, 11/11, 2/12), *Econ & Human Biology* (12/15, 3/16, 6/16), *East Econ J*, *Econ Inquiry* (7/13), *Engineering Economist*, *Environ & Resource Econ* (4/13), *Empirical Econ* (11/14), *Euro J Political Econ*, *Evaluation Rev* (6/11, 12/11), *Health Econ* (10/15), *Health Policy* (5/19), *Int J Ag Econ* (10/15), *J Air Pollution Control Assoc*, *J Assoc Env Res Econ* (8/16, 4/17), *J Benefit-Cost Analysis* (2/11), *J Econ Behavior & Org*, *J Econ Educ*, *J Econ Surveys* (4/11, 5/16), *J Econ & Business*, *J Environ Econ & Mgt*, *J Fin Services Res*, *J Forest Econ*, *J Health Econ*, *J Human Resources* (3/14), *J Industrial Econ*, *J Law & Econ*, *J Marketing*, *J Policy Analysis & Mgt*, *J Public Affairs*, *J Public Health* (2/15), *J Real Estate Fin & Econ*, *J Regional Sci*, *J Regulatory Econ*, *J Transport Econ & Policy* (2/14), *J Wine Econ* (10/15, 12/15), *Land Econ*, *Milbank Quarterly* (1/14), *Public Fin Rev* (6/13), *Rev Econ & Stat*, *Rev of Ind Org* (4/11, 1/18), *Sage Open* (2/12), *Southern Econ J* (2/11, 6/19), *Substance Use & Misuse* (10/14, 10/15), and *Urban Studies*. **Book/Grant Reviews:** AEI, Harvard, JAI, PSU Press, RFF, TRB, DOE, NSF, NIAAA. **Ref. Award** (2011).
- GRADUATE STUDENTS:** Ph.D. dissertations directed [9]; M.A. essays directed [21]; Undergrad Honors essays directed [5]. Publications with students [8].
- TESTIMONY:** Three Mile Island class action hearing (8/81); Pennsylvania Liquor Control Board hearing (7/85); Pennsylvania Low-Emissions Vehicle Commission hearing (8/93); The Pitt News & Pittsburgh ACLU hearing on ads ban (4/99); South African National Treasury hearing (10/14).
- CONSULTING:** I have experience in three main areas: (1) antitrust damage assessments; (2) environmental damage assessments, including air pollution and noise; and (3) tax and advertising regulation, especially as applied to alcohol beverages. Major consulting work and litigation experiences are listed below.

**EXTERNAL REVIEWS:** 1978, 1983, 1983, 1984, 1988, 1991, 1993, 2006, 2008, 2011 (promotion & tenure).

**BIBLIOMETRICS:** **Google Scholar cites:** 4619 (12/19). H-index: 35 (27 articles w/ 50-plus cites); i10 index: 61. <https://scholar.google.com/citations?user=7YuJKegAAAAJ&hl=en>  
**MS Academic cites:** 4186 (12/19). ResearchGate impact: 31.7. Average rank score of top 8% of IDEAS/RePEc economists (1/20). <https://ideas.repec.org/top/>.

**PRESS REPORTS:** (recent only)  
 Nutrition Health Review, "Do alcohol ad bans work? Winter 2010, p19.  
 GrayRobinson, "Stats matter! Why evidence is key for alcohol," Oct 2013.  
 Wisconsin Reporter, "First Amendment violation?" Feb 5, 2014.  
 Globe and Mail, "Muddled question of why young people drink," Jul 10, 2014.  
 Baltimore Sun, "Are tax dollars paying for anti-alcohol advocacy?" Jul 30, 2014.  
 BBC News "Minimum alcohol price," Nov 29, 2017.  
 News NYTRO, "Minimum alcohol price," Nov 30, 2017. (plus others)  
 Cato at Liberty, "The case for economics & alcohol taxes," Jan 22, 2019.  
 Forbes, "An opinion over the latest wine tariffs," Oct 12, 2019.

**PUBLICATIONS: A. INDUSTRIAL ORGANIZATION, ANTITRUST & REGULATION**

1) **BOOK: *Industrial Organization*** (Penn State University World Campus, 2003), 254pp. HD2326.N415 2003.

**ARTICLES & CHAPTERS:**

2) "An Interregional Recursive Programs Model of Production, Investment, and Technological Change," **Journal of Regional Science**, April 1971, 33-47.

3) "Regional Concentration in the Steel Industry," **Northeast Regional Science Review**, Spring 1972, 218-225.

4) "An Interregional Recursive Programming Model of the Iron and Steel Industry," in G. Judge & T. Takayama (eds.), **Studies in Economic Planning Over Space and Time** (North-Holland, 1973), pp. 368-393.

5) "A Class of Dynamic Models for Describing and Projecting Industrial Development" (w/ R. Day), **Journal of Econometrics**, June 1973, 155-190.

6) **Reprinted** in R.H. Day, **The Divergent Dynamics of Economic Growth** (Cambridge University Press, 2004), pp. 97-114.

7) "Forecasting Aggregate Supply of Coal Miners" (w/ E. Cohn & G. Neumann), **Socio-Economic Planning Sciences**, October 1974, 293-299.

8) "Energy Conservation Policies of the Federal Energy Office" (w/ T. Ferrar), **Science**, February 1975, 644-646.

9) "Forecasting Aggregate Demand for Coal Miners" (w/ E. Cohn & G. Neumann), **Applied Economics**, June 1975, 81-92.

10) "The Demand for Space Heating Energy," **Review of Economics & Statistics**, November 1975, 508-512.

11) "Climate and Energy Demand: Fossil Fuels," in T.A. Ferrar (ed.), **The Urban Costs of Climate Modification** (Wiley, 1976), pp. 123-137.

- 12) "Behavioral, Suboptimizing Models of Industrial Production, Investment and Technological Change" (w/ R. Day, et al.), in **Modelling Economic Change: The Recursive Programming Approach** (North-Holland, 1978), pp. 55-118.
- 13) "Tax Policy, Capital Shortages, and Iron and Steel Investment Behavior" (w/ G. Neumann), in **Steel Industry Economics** (University of Washington, 1979), pp. 43-63.
- 14) "A Comparison of Alternative Econometric Models of Iron and Steel Investment Behavior" (w/ G. Neumann & R. Crandall), **Review Econ Stat**, Feb 1980, 122-127.
- 15) "Tax Policy and Steel Industry Investment Behavior: An Econometric Analysis" (w/ G. Neumann), **Quarterly Review of Economics & Business**, Aut 1980, 19-34.
- 16) "Safety Regulation and Firm Size: Effects of the Coal Mine Health and Safety Act of 1969" (w/ G. Neumann), **Journal of Law & Economics**, October 1982, 183-199.
- 17) "An Analysis of Ramsey Pricing in Electric Utilities" (w/ M. Roberts & E. Tromp), in M. Crew (ed.), **Regulating Utilities in an Era of Deregulation** (Macmillan, 1987), pp. 85-109.
- 18) "Ramsey Numbers and Role of Competing Interest Groups in Electric Utility Regulation" (w/ M. Roberts), **Quarterly Review of Economics & Business**, Autumn 1989, 21-42.
- 19) "Comparative Antitrust Damages in Bid-Rigging Cases: Some Findings from a Used Vehicle Auction," **Antitrust Bulletin**, Summer 1993, 369-394.
- 20) "Market Structure and Incomplete Information: Price Formation in a Repeated English Auction," **Journal of Economic Behavior & Organization**, August 1995, 421-437.
- 21) "Estimating the Spillover Benefits of Industrial Extension Programs" (w/ I. Feller), in **Manufacturing Modernization** (Georgia Tech University, 1997), pp. 199-222.
- 22) "The Microeconomics of Manufacturing Modernization Programs" (w/ I. Feller), **Research Policy**, November 1999, 807-818.
- 23) **Reprinted** in A. Link and J. Scott (eds.), **The Economics of Evaluation in Public Programs** (Elgar, 2011, 552 pp.), article 10.
- 24) "Consumer Bankruptcy and Chapter Choice: State Panel Evidence," **Contemporary Economic Policy**, October 1999, 552-564.
- 25) "Consumer Bankruptcies and the Bankruptcy Reform Act: A Time-Series Intervention Analysis, 1960-1997," **Journal of Financial Services Research**, August 2000, 181-200.

## **B. ENVIRONMENTAL DAMAGES & HOUSING MARKETS**

- 26) **BOOK: *Economic Analysis of Transportation Noise Abatement*** (Ballinger, 1978), 265pp. TD893.6. T7N44 1978.

**ARTICLES & CHAPTERS:**

- 27) "The Economic Costs of Airport Noise: Theory and Measurement" (w/ I. Feller), in **Interagency Symposium on University Research in Transportation Noise Proceedings**, Stanford University, March 1973, pp. 727-743.
- 28) "Accessibility and the Value of Time in Commuting," **Southern Economic Journal**, January 1977, 1321-1329.
- 29) "Monetary Measures of the Benefits of Abatement: Property-Value Analysis" (w/ A. DeVany), in National Academy of Sciences, **Noise Abatement: Policy Alternatives for Transportation** (NAS Press, 1977), pp. 126-160.
- 30) "Costs of Noise Abatement" & "Cost-Benefit Analysis: Some Illustrations" (w/ A. DeVany, K. Eldred, & A. Walters), in National Academy of Sciences, **Noise Abatement: Policy Alternatives for Transportation** (NAS Press, 1977), pp. 160-82 and pp. 183-206.
- 31) "Residential Choice, Hedonic Prices, and the Demand for Urban Air Quality," **Journal of Urban Economics**, July 1978, 357-369.
- 32) "Airport Noise, Location Rent, and the Market for Residential Amenities," **Journal of Environmental Economics & Management**, December 1979, 320-331.
- 33) **Reprinted** in Y. Hayashi, et al. (eds.), **The Environment and Transport** (Elgar, 1999), pp. 81-92.
- 34) "Airports and Property Values: A Survey of Recent Evidence," **Journal of Transport Economics & Policy**, January 1980, 37-52.
- 35) **Reprinted** in P. Forsyth, et al. (eds.), **Classics in Transport Analysis: Air Transport** (Elgar, 2002), pp. 613-628. **Reprinted** in A. Graham and P. Morrell, **Aviation Economics**, vol. 4 (Taylor & Francis, 2015). Article 91.
- 36) "Measuring Benefits of Environmental Improvements: Aircraft Noise and Hedonic Prices," in V.K. Smith (ed.), **Advances in Applied Microeconomics** (JAI, 1981), pp. 51-75.
- 37) "Three Mile Island and Residential Property Values: Empirical Analysis and Policy Implications," **Land Economics**, August 1981, 363-372.
- 38) "Highway Noise and Property Values: A Survey of Recent Evidence," **Journal of Transport Economics & Policy**, May 1982, 117-138.
- 39) "Monetary Evaluation of Noise Nuisance," in T. O'Riordan (ed.), **Progress in Resource Management & Environmental Planning** (Wiley, 1983), pp. 201-209.
- 40) "Housing Values, Census Estimates, Disequilibrium and the Environmental Cost of Airport Noise: A Case Study of Atlanta" (w/ P. O'Byrne & J. Seneca), **Journal of Environmental Economics & Management**, June 1985, 169-178.
- 41) "Economic Development and Air Pollution Abatement: A State-Level Policy Simulation of the 1990 Clean Air Act," **Journal of Environment & Development**, March 1997, 61-84.

- 42) “Western Rangelands Reform: An Analysis of the 1996 Senate Vote on Federal Grazing Fees” (w/ G. Fennemore), **Contemporary Econ Policy**, July 2001, 322-335.
- 43) “Green Voting and Ideology: LCV Scores and Roll-Call Voting in the U.S. Senate, 1988-1998,” **Review of Economics & Statistics**, August 2002, 518-529.
- 44) “Meta-Analysis of Airport Noise and Hedonic Property Values: Problems and Prospects,” **Journal of Transport Economics & Policy**, January 2004, 1-27.
- 45) **Reprinted** in D.A. Hensher (ed.), **Transport Economics** (Critical Concepts in Economics), Vol. 2 (Taylor & Francis, 2012). Article 30.
- 46) “Hedonic Property Value Studies of Transportation Noise: Aircraft and Road Traffic,” in A. Baranzini et al. (eds.) **Hedonic Methods in Housing Markets: Pricing Environmental Amenities and Segregation** (Springer, 2008), pp. 57-82.
- 47) “The Use (and Abuse) of Meta-Analysis in Environmental and Resource Economics: An Assessment” (w/ P. Kennedy), **Environmental & Resource Economics**, March 2009, 345-77.
- 48) “Valuing Rural Recreation Amenities: Hedonic Prices for Vacation Rental Houses at Deep Creek Lake, Maryland,” **Agricultural & Resource Economics Review**, October 2010, 485-504. **Open access** at: <http://ageconsearch.umn.edu/handle/95645>
- 49) “Meta-analysis: Statistical Methods,” in R.J. Johnston et al. (eds.), **Benefit Transfer of Environmental and Resource Values** (Springer, 2015), pp. 329-356.
- 50) “Value of Noise” forthcoming in **International Encyclopedia of Transportation**, Elsevier (2021 publication date), July 2019 draft, 9pp.

### C. ADVERTISING ECONOMICS & ALCOHOL DEMAND

- 51) **BOOK: *Advertising and Differentiated Products: Advances in Applied Microeconomics, Vol. 10***, eds. M.R. Baye & J.P. Nelson (JAI Press, 2001), 295pp. <http://www.emeraldinsight.com/books.htm?issn=0278-0984&volume=10>

#### ARTICLES & CHAPTERS:

- 52) “State Monopolies and Alcoholic Beverage Consumption,” **Journal of Regulatory Economics**, March 1990, 83-98. (Cited 829 F. Supp 543, 1993, *44 Liquormart v. R.I.*)
- 53) “Effect of Regulation on Alcoholic Beverage Consumption,” **Alcohol & Drug Abuse Reviews**, Fall 1990, 223-243.
- 54) “Advertising and U.S. Alcoholic Beverage Consumption: System-Wide Estimates” (w/ J. Moran), **Applied Economics**, December 1995, 1225-1236.
- 55) “Economic and Demographic Factors in U.S. Alcohol Demand: A Growth-Accounting Analysis,” **Empirical Economics**, March 1997, 83-102.
- 56) “Broadcast Advertising and U.S. Demand for Alcoholic Beverages,” **Southern Economic Journal**, April 1999, 774-790.
- 57) “Hard at Play! The Growth of Recreation in Consumer Budgets, 1959-1998,” **Eastern Economic Journal**, Winter 2001, 35-53.

- 58) "Do Advertising Bans Work? An International Comparison" (w/ D.J. Young), **International Journal of Advertising**, 20(3), 2001, 273-296.
- 59) "Long-Run Demand for Alcohol: A Cointegration Analysis" (w/ E. Coulson & J. Moran), in **Advertising and Differentiated Products** (JAI Press, 2001), pp. 31-54.
- 60) "Alcohol Advertising and Advertising Bans: A Survey of Research Methods, Results, and Policy Implications," in **Advertising and Differentiated Products**, (JAI, 2001), pp. 239-295.
- 61) "Advertising Bans, Monopoly, and Alcohol Demand: State Panel Evidence," **Review of Industrial Organization**, 22(1), February 2003, 1-25.
- 62) "Cigarette Demand, Structural Change, and Advertising Bans: International Evidence, 1970-1995," **B.E. Journal of Economic Analysis & Policy/Contributions**, 2(1), August 2003, 1-27. <https://doi.org/10.2202/1538-0645.1111>
- 63) "Youth Smoking Prevalence in Developing Countries: Effect of Advertising Bans," **Applied Economics Letters**, 10(13), October 2003, 805-811.
- 64) "Advertising Bans in the United States," in **EH.Net Encyclopedia** (R. Whaples, ed.), May 2004, 1-29. On-line at <http://eh.net/encyclopedia/nelson-adbans/>
- 65) "Beer Advertising and Marketing Update: Structure, Conduct, and Social Costs," **Review of Industrial Organization**, 26(3), January 2005, 269-306.
- 66) "Advertising, Alcohol, and Youth," **Regulation: Cato Review of Business & Government**, 28(2), Summer 2005, 40-47.
- 67) "Cigarette Advertising Regulation: A Meta-Analysis," **International Review of Law & Economics**, 26(2), June 2006, 195-226.
- 68) "Alcohol Advertising in Magazines: Do Beer, Wine, and Spirits Ads Target Youth?" **Contemporary Economic Policy**, 24(3), July 2006, 357-369.
- 69) "Reply to Siegel, Jernigan, et al.: Alcohol Advertising in Magazines and Disproportionate Exposure," **Contemporary Economic Policy**, 26, Jul 2008, 493-504.
- 70) "Distilled Spirits: Spirited Competition or Regulated Monopoly?" in V. Tremblay & C. Tremblay (eds.), **Industry and Firm Studies** (M.E. Sharpe, 2007), pp. 119-157.
- 71) "How Similar are Youth and Adult Alcohol Behaviors? Panel Results for Excise Taxes and Outlet Density," **Atlantic Economic Journal**, 36(1), March 2008, 89-104.
- 72) "Effects of Youth, Price, and Audience Size on Alcohol Advertising in Magazines" (w/ D.J. Young), **Health Economics**, 17(4), April 2008, 551-556.
- 73) "Alcohol Advertising Bans, Consumption, and Control Policies in Seventeen OECD Countries, 1975-2000," **Applied Economics**, 42(7), March 2010, 803-823.
- 74) "Alcohol, Unemployment Rates, and Advertising Bans: International Panel Evidence, 1975-2000," **Journal of Public Affairs**, 10(1-2), Feb-May 2010, 74-87.
- 75) "Measurement Problems in Assessing Adolescent Exposure to Alcohol Advertising in Magazines," **Journal of Adolescent Health**, 46(4), April 2010, 403-04.

- 76) "What is Learned from Longitudinal Studies of Advertising and Youth Drinking and Smoking? A Critical Assessment," **International Journal of Environmental Research & Public Health**, 7, Mar 2010, 870-926. Open at: <http://www.mdpi.com>.
- 77) "Alcohol Marketing, Adolescent Drinking, and Publication Bias in Longitudinal Studies: A Critical Survey using Meta-Analysis," **Journal of Economic Surveys**, 25(2), April 2011, 191-232.
- 78) "Alcohol Marketing Policy: The Missing Evidence," **Addiction**, 107, Sep 2012, 1708-09.
- 79) "Not So Fast! Evidence-Informed Alcohol Policy Requires a Balanced Review of Advertising Studies," in C.J. Pardun (ed.), **Advertising and Society: An Introduction**, 2nd ed. (Wiley-Blackwell, 2013), pp. 87-95.
- 80) "Cigarette Labeling Act;" and "National Minimum Drinking Age Act," in **Consumer Survival: An Encyclopedia of Consumer Rights, Safety, and Protection** (ABC-CLIO, 2013), pp. 116-120 and pp. 663-665.
- 81) "Meta-Analysis of Economics Research Reporting Guidelines" (w/ T.D. Stanley, et al.), **Journal of Economic Surveys**, 27(2), April 2013, 390-394.
- 82) "Does Heavy Drinking by Adults Respond to Higher Alcohol Prices and Taxes? A Survey and Assessment," **Economic Analysis & Policy**, 43(3), December 2013, 265-291. At; <http://www.sciencedirect.com/science/article/pii/S0313592613500324>
- 83) "Meta-Analysis of Alcohol Price and Income Elasticities – with Corrections for Publication Bias," **Health Economics Review**, 3:17, July 2013. doi:10.1186/2191-1991-3-17. Open Access at: <http://www.healtheconomicsreview.com/content/3/1/17>.
- 84) "Robust Demand Elasticities for Wine and Distilled Spirits: Meta-Analysis with Corrections for Outliers and Publication Bias," **Journal of Wine Economics**, 8(3), 2013, 294-317.
- 85) "Estimating the Price Elasticity of Beer: Meta-Analysis of Data with Heterogeneity, Dependence, and Publication Bias," **Journal of Health Economics** 33, January 2014, 180-87.
- 86) "Alcohol Affordability and Alcohol Demand: Cross-Country Trends and Panel Data Estimates, 1975-2008," **Alcoholism: Clinical and Experimental Research**, 34(4), April 2014, 1167-1175.
- 87) "Gender Differences in Alcohol Demand: A Systematic Review of the Role of Prices and Taxes," **Health Economics**, 23(10), October 2014, 1260-80.
- 88) "Reply to Ludbrook, Holmes and Stockwell: Gender Differences in Alcohol Demand," **Health Economics**, 23(10), October 2014, 1284-86.
- 89) "Binge Drinking and Alcohol Prices: A Systematic Review of Age-Related Results from Econometric Studies, Natural Experiments and Field Studies," **Health Economics Review**, 5:6, February 2015. Open Access: doi 10.1186/s13561-014-0040-4.
- 90) "Reply to the Critics on 'Binge Drinking and Alcohol Prices,'" **Health Economics Review**, 6:6, January 2016. Open Access: doi 10.1186/s13561-016-0084-8.



91) "Alcohol Prices and Mortality due to Liver Cirrhosis: Robust Regression Results for the European Union, 2000-2010," **SAGE Open**, 5(2) April-June 2015, 1-11. Open Access: doi 10.1177/2158244015593118.

92) "Alcohol Prices, Taxes, and Alcohol-Related Harms: A Critical Review of Natural Experiments in Alcohol Policy for Nine Countries" (w/ A. McNall), **Health Policy**, 20(3), March 2016, 264-272.

93) "Economic Evidence Regarding Alcohol Price Elasticities and Price Responses by Heavy Drinkers," **Public Health Open J**, 1, 2016, 36-39. Open Access at: <http://dx.doi.org/10.17140/PHOJ-1-108>

94) "What Happens to Drinking when Alcohol Policy Changes? A Systematic Review of Five Natural Experiments for Alcohol Taxes, Prices, and Availability" (w/ A. McNall), **European Journal of Health Economics**, 18(4), April 2017, 417-34.

95) "Effects of Alcohol Taxation on Prices: A Systematic Review and Meta-Analysis of Pass-Through Rates" (w/ J. Moran). **B.E. Journal of Economic Analysis and Policy** 20(1), Jan. 2020, art 12. <https://www.degruyter.coew/j/bejem/viap?lang=en>

96) "Fixed-Effect versus Random-Effects Meta-Analysis in Economics: A Study of Pass-Through Rates for Alcohol Beverage Excise Taxes." Economics E-Journal Paper 2020-1, <http://www.economics-ejournal.org/economics/discussionpapers>

#### **D. NOTES, REVIEWS & COMMENTS**

97) "A Note on the Economics of Metallurgical Coke Production," **Management Science**, December 1971, 237-239.

98) "Residential and Commercial Demand for Space Heating Energy," in **Proceedings of the Pennsylvania Conference of Economists**, Bloomsburg State College, April 1975, 1-20.

99) "Energy Conservation Policies of the Federal Energy Office: Reply" (w/ T. Ferrar), **Science**, 19 September 1975, 1015.

100) "Econometric Analysis of the Effects of Climate on Energy Demand," in **Economic and Social Measures of Climate Change**, Institute for Defense Analyses, September 1975, Ch. 3.

101) Review of *The Economics of Professional Team Sports* (by H. G. Demmert), **Antitrust Bulletin**, Winter 1975, 939-942.

102) "Economic Considerations of Highway Noise Impact on Land," in **Final Report of the Highway Noise Research Workshop**, Florida Atlantic University, August 1977, pp. 60-63.

103) "Accessibility and the Value of Time in Commuting: Reply," **Southern Economic Journal**, July 1978, 298-300.

104) Review of *Steel Production: Processes, Products, and Residuals* (by C. S. Russell & W. J. Vaughan), **The Engineering Economist**, Spring 1979, 191-192.

105) "Economic Solutions," in **Final Report on the Evaluation of Current Environmental Research and Establishment of Priorities**, EPA & PSU, October 1979, 57-60.

- 106) "Estimating Demand Functions for Product Characteristics: Comment," **Journal of Consumer Research**, September 1982, 219-220.
- 107) Review of *Clean Coal/Dirty Air* (by B. A. Ackerman & W. T. Hassle), **Southern Economic Journal**, October 1982, 587-589.
- 108) Review of *Energy, Economics and the Environment* (by H.E. Daly & A. F. Umana), **Natural Resources Journal**, October 1982, 1186-1188.
- 109) "Comment on 'Can Government Regulate Safety? The Coal Mine Example'" (w/ G. Neumann), **American Political Science Review**, December 1982, 876-878.
- 110) "Grade Inflation, Real Income, Simultaneity, and Teaching Evaluations" (w/ K. Lynch), **Journal of Economic Education**, Winter 1984, 21-37.
- 111) Review of *The Diffusion of Mature Technologies* (by G. F. Ray), **Journal of Economic Behavior & Organization**, September 1986, 332-334.
- 112) "Perspective on Alcohol Advertising: Brand Recall or Market Expansion?" **Dimensions**, Penn State University, Spring 1997, 1-3.
- 113) "Study: Ads Don't Add to Liquor Use" (w/D. Young), **Electronic Media** (Crain), 21(6), February 11, 2002, p. 8.
- 114) Review of *The U.S. Brewing Industry: Data and Economic Analysis* (by V.J. Tremblay and C.H. Tremblay), in **EH. Net Book Reviews**, May 2005, 1-4. At <http://eh.net>
- 115) "Penalizing Oil Companies Will Backfire," **Harrisburg Patriot-News**, April 10, 2006.
- 116) "House Price-Gouging Legislation Should Run Out of Gas in Senate," **Scranton Times-Tribune**, June 3, 2007 (op-ed page).
- 117) "Cost-Benefit Analysis and Transportation Noise," PowerPoint presentation at the **National Academy of Engineering Workshop on Cost-Benefit Analysis of Transportation Noise Control Technology**, Cambridge, MA, February 23, 2007.
- 118) "Hedonic Valuation of Transportation Noise," PowerPoint presentation at the **International Symposium on Hedonic Methods in Real Estate: Policy Applications**, Geneva School of Business Administration, Geneva, CH, June 28, 2007.
- 119) "Hedonic Property Value Studies of Transportation Noise: Aircraft and Road Traffic," PowerPoint presentation at **Workshop on the Regulation of Airport Noise**, ECORE, European Center for Advanced Research, Brussels, December 10, 2007.
- 120) "Congress Takes a Wrong Turn: Higher Taxes on 'Big Oil' Wreak Havoc on Energy Supplies," **Pittsburgh Post-Gazette**, September 12, 2007 (op-ed page). "Big Oil," **Pittsburgh Tribune-Review**, October 28, 2007 (op-ed page, Sunday edition).
- 121) "U.S. Energy Crisis Awaits New Leader," **Harrisburg Patriot-News**, March 16, 2008 (op-ed page, Sunday edition).
- 122) "Federal Energy Policy Must Avoid Past Mistakes," **Harrisburg Patriot-News**, June 19, 2008 (op-ed page).

123) “Cleaner Coal in the Future Energy Mix,” **Washington (PA) Observer-Reporter**, October 12, 2008. “Lawmakers Need to Reconsider Merits of Clean Coal,” **Wilkes-Barre Times Leader**, November 6, 2008 (op-ed pages).

124) “Should the Oil Industry Make a Profit?” **Washington (PA) Observer-Reporter**, February 22, 2009 (op-ed page).

125) “Obama’s Tax Plan Hurts Oil and Gas Industry,” **Washington (PA) Observer Reporter**, February 14, 2010; “Obama’s Tax Plan Unfairly Targets Oil and Gas Industry,” **Allentown Morning-Call**, February 15, 2010 (op-ed pages).

126) “EPA Coal Plant Rule Could Threaten U.S. Jobs,” **Allentown Morning Call**, Aug. 23, 2011; “Keep Coal in the Energy Mix,” **Harrisburg Patriot-News**, Aug. 27, 2011 (op-ed).

127) “Valuation of Aircraft Noise Damages: Hedonic Methods,” PowerPoint presentation at **FAA Noise Impacts Roadmap Meeting**, Washington, DC, April 2011.

128) “Economic Research Studies on Heavy Drinking and Alcohol Prices: What do Systematic Reviews Demonstrate?” **Wine & Viticulture Journal**, 29, July 2014, 61-2.

129) “Comment on Paldam, ‘Meta-Analysis in a Nutshell,’” **Economics E-Journal**, Open-Access. <http://www.economics-ejournal.org/economics/discussionpapers/2015-3/>. 2015.

130) “Evaluation of Minimum Price for Alcohol (MPA) Bill in Wales.” Invited written evidence submitted to **HSCSC Committee, National Assembly for Wales**, Paper 6, 29/11/2017. <http://www.senedd.assembly.wales/ieListDocuments.aspx?Cid=448&MID=4417>

“Mann Axe Dynasty of Central Pennsylvania;” “State College American Legion Drum and Bugle Corps, 1935-1953;” “Nelson/Martinie – Battle of Saratoga, 1777;” “History of the Red Moshannon (Red Mo) Downriver Race.” Available privately at: <http://sites.psu.edu/jpn2016/>. “Axe Manufacturing in Pennsylvania,” Wikipedia (July 2017). [https://en.wikipedia.org/wiki/Axe\\_manufacturing\\_in\\_Pennsylvania](https://en.wikipedia.org/wiki/Axe_manufacturing_in_Pennsylvania)

#### RESEARCH GRANTS:

131) National Science Foundation, Grant No. ME24-206, February 1970 - February 1971 (Research Associate w/I. Feller, P.I.). **State Organization of Research and Development**. Final Report (February 1971, 254pp.). \$15,000. NTIS PB-201450.

132) Pennsylvania Science and Engineering Foundation, Grant No. 105-ME24-208, August 1971- August 1972 (Co-P.I. w/ I. Feller). **Research and Development Activities and Regional Economic Growth**. Report (Aug1972, 249pp.). \$52,239.

133) US Department of Transportation, Grant No. DOT-OS-20196, August 1972 - February 1973. (Co-P.I. w/ I. Feller). **Economic Aspects of Noise Pollution**. Final Report No. DOT-TST-73-3 (April 1973, 159pp.). \$29,938.

134) US Department of Interior, Grant No. GO122097, February 1973 – June 1974. (Research Associate w/E. Cohn, P.I.). **Manpower in the Bituminous Coal Industry**. Final Report (September 1973, 298pp.). NTIS PB-228215.

135) US Dept of Transportation, Grant No. DOT-OS-40094 (P.I.), April 1974 -April 1975 (P.I.). **Effects of Mobile-Source Air and Noise Pollution on Residential Property Values**. Final Report No. DOT-TST-75-6. (Apr 1975, 248pp.). \$58,000. NTIS PB-241570

136) US Department of Labor, Contract No. 41-USC-252, September 1974 - April 1975 (Co-P.I. w/ G. Neumann). **Labor Productivity and the Coal Mine Health and Safety Act**. Final Report (April 1975, 67pp.). \$12,000. NTIS PB-256670.

137) US Department of the Interior, Contract No. J0255006, September 1975 - September 1977 (Co-P.I. w/ G. Neumann). **Capital Requirements in the U.S. Iron and Steel Industry**. Final Report (September 1977, 458pp.). \$75,801.

138) US Dept. of Transportation, Contract No. DOT-OS-7006, August 1977 - August 1978 (P.I.). **Aircraft Noise and the Market for Residential Housing**. Final Report No. DOT/RSPA/DPB-50/78/24. (Sep 1978, 155pp.). \$42,998. NTIS PB-297681.

139) National Institute on Alcohol Abuse and Alcoholism, Grant No. 1-R23-AA07099-01, Feb. 1987 – Feb. 1988 (P.I.). **The Effects of Legal Restrictions on Alcohol Consumption**. Final Report (February 1988, 81pp.). \$52,016.

140) Pennsylvania Low-Emissions Vehicle Commission, Contract No. PTI-9193, May 1993 - August 1993 (Co-P.I. w/ K. Goulias & T. Litzinger). **Low Emission Vehicle Technical Study**. Final Report (August 1993, 248pp.). \$40,000.

141) National Institute of Standards and Technology, Contract No. 50SBNB5C9009, March 1996 - August 1996 (Co-P.I. w/ I. Feller). **Feasibility Study for Estimating the Social Savings from MTC Projects**. Final Report (August 1996, 30pp.). \$43,900.

142) **The Impact of Aircraft Noise on Residential Property Values in the Bob Hope Airport Environs** (Jacobs Consultancy in association with Jon P. Nelson, Ph.D.); February 2009. Submitted for with Burbank-Bob Hope Airport, FAA Part 161 study.

**TESTIMONY:**

Three Mile Island class action hearing (8/81); Pennsylvania Liquor Control Board hearing (7/85); Pennsylvania Low-Emissions Vehicle Commission hearing (8/93); The Pitt News and Pittsburgh ACLU hearing (4/99); South Africa Treasury hearing (10/14).

**CONSULTING:**

I have experience in three main areas: (1) antitrust damage assessments; (2) environmental damage assessments, including air pollution and noise; and (3) advertising regulation and the First Amendment, especially as applied to alcohol. I was deposed in three cases involving bans of advertising of alcohol beverages (7/98, 5/00, 12/06) and an aircraft noise nuisance case (12/05). I have testified under oath in two other cases (8/81, 4/99) and at three public regulatory hearings (7/85, 8/93, 10/14). My major consultancies & professional contacts are:

**Consulting: Antitrust & Regulatory Economics; Energy Issues**

- Pennsylvania Office of Attorney General, Antitrust Section (Harrisburg, PA; James Donahue); various merger cases, resale price maintenance, price fixing & exclusionary practices, 1983-2006. All cases settled out of court.
- Constantine & Partners (NYC); resale price maintenance case (1997).
- Pennsylvania Office of Attorney General, Antitrust Section (Harrisburg, PA; James Donahue); single firm monopoly case, 2005-2007.
- National Association of Attorneys General (Madison, WI; 31 plaintiff states); contact lens price fixing case, 1999. Reviewer & provided technical support.
- Constantine & Partners (New York City, NY); resale price maintenance, 1997.
- Public Service of N.H. (Portsmouth, NH), rate increase for Seabrook, 1987.
- Electric Power Research Institute (Iowa City, IA); restructuring issues, 1999.
- Quinn, Gordon, & Wolfe (Towson, MD; Kieron Quinn); auto pricing, 2004.
- PCG (Washington, DC; Peter Bernstein); energy regulation research, 2006-11.
- Clemente Assoc. (State College; Frank Clemente); energy siting, 1999 & 2011.

**Consulting: Environmental Economics & Property Value Damages**

- Pepper, Hamilton & Sheetz (Philadelphia; Harrisburg, PA); Three Mile Island damages, 1981. Testified at TMI hearings, 8/81, on property value impacts.
- Hodges & Hodges (Atlanta, GA); airport noise impact, 1982.
- Buchanan Ingersol (Pittsburgh, PA); radioactive waste impact, 1983.
- Pennsylvania Low-Emissions Vehicle Commission (Harrisburg, PA); LEV impact analysis for Comm. of PA, 1993. Testified at LEV hearing, 8/93.
- Quinn, Gordon, & Wolfe (Towson, MD; Kieron Quinn); airport noise impact, 2000-02, 2005-06. My 2001-02 reports in a class action. Deposed, 12/05.
- Leigh-Fisher Associates (Burlingame, CA; Mark Johnson); 2008-2009; technical advisor in the Burbank-Bob Hope Airport (FAA Part 161 study).
- MIT-FAA Partnership for Air Transportation Noise and Emissions Reduction (Cambridge, MA; Ian Waitz); technical advisor noise valuation report, 2008-09.

**Consulting: Advertising Economics & Commercial Speech; Alcohol Demand**

- Pennsylvania Office of Attorney General, Antitrust Section (Harrisburg, PA; James Donahue); price advertising ban by the PA Liquor Control Board, 1985. Testified before the LCB, 7/85. My report & testimony addressed the lack of a relationship between bans of price ads and alcohol consumption. Case rendered moot by Supreme Court decision in *44 Liquormart*, 517 US 484 (1996).
- Silcox Communications (Washington, DC; Marcia Silcox); various alcohol advertising and taxation issues, 1997-2003.
- Deutsch, Levy & Engel (Chicago, IL; Phillip Zisook); billboard advertising ban case in Chicago, 1998-2000. Deposed, 7/98. Case rendered moot by US Supreme Court decision in *Lorillard v. Reilly* (533 US 525, 2001).
- Pitt News & Pittsburgh ACLU (Pittsburgh, PA; Witold Walczak); college newspaper advertising ban, 1999. Testified at hearing, 4/99. My testimony addressed the relationship between alcohol ads and consumption. Case decided for plaintiffs (for whom I testified) in *Pitt News v. Pappert*, 379 F.3d 96 (2004).
- Greines, Martin, Stein & Richland (Beverly Hills, CA; Rex Heinke); billboard advertising ban case in Oakland, CA, 1999-2000. Deposed, 5/00.
- King & Spalding; and Cadwalader, Wickersham & Taft (NYC, NY; Steven G. Brody); billboard advertising ban case in Los Angeles, 2000-2001.
- Shook, Hardy & Bacon (Kansas City; MO; Tina Smith & Gene Peck); various alcohol and tobacco advertising & regulation issues, 2001-2007.
- Virginia ACLU (Richmond, VA; Rebecca Glenberg), 2006-2007. College newspaper alcohol ad ban case. Deposed, 12/06. My report addressed the ineffectiveness of ad bans, *Educ. Media Co. & Cavalier Daily, Inc. v. Swecker* (3/31/2008). Case decided in favor of Plaintiffs' (for whom I worked) by Fourth Circuit Appeals Ct. in *Educ. Media Co. at Virginia Tech v. Insley* (09/25/13).
- International Alliance for Responsible Drinking (Washington, DC; Marjana Martinic), 2012-2017; various research & review work on alcohol policy issues.
- SABMiller (Johannesburg, SA); testified (10/14) before the South African National Treasury on binge drinking and alcohol prices, 2014.
- Abt Associates (Cambridge, MA), 2016; review of US Surgeon General report
- Cornerstone Research (Chicago, IL: Bryan Ricchetti), 2016-2017; technical advisor on issues involving retailing of alcohol in Texas. *Walmart v. TABC*.
- Pacific Legal Foundation (Sacramento, CA; Anastasia Boden); alcohol pricing and advertising case in Virginia, *Chef Geoff v. Virginia ABC* (10/2018). Case rendered moot by actions of the Virginia ABC to revise VA happy hour laws.