EAG Discussion Papers Before 2006

- 254. Russell Pittman, Make, Buy, or Some of Both? The Case of Russian Railways, EAG 05-11, October 2005. Forthcoming in *Economic Change and Restructuring*.
- 253. Jeremy A. Verlinda, The Effect of Market Structure on the Empirical Distribution of Airline Fares, EAG 05-10, October 2005.
- 252. Rene Kamita, Analyzing the Impact of Antitrust Immunity: Price Effects Following the Aloha-Hawaiian Antitrust Immunity Agreement, EAG 05-9, October 2005.
- 251. Russell Pittman, Restructuring the Russian Electricity Sector: Re-Creating California?, EAG 05-8, October 2005. Published in 35 *Energy Policy* 2007.
- 250. Charles Romeo, Russell Pittman and Norman Familant, The Effect of Editorial Competition on Newspaper Circulation, EAG 05-7, October 2005.
- 249. Cory S. Capps, The Quality Effects of Hospital Mergers, EAG 05-6, October 2005.
- 248. Dean V. Williamson, Contracting over Uncertain Property Rights: Evidence from R&D Consortium Contracts, EAG 05-5, June 2005.
- 247. Olivier Armantier and Oliver Richard, Domestic Airline Alliances and Consumer Welfare, EAG 05-4, May 2005.
- 246. Olivier Armantier and Oliver Richard, Evidence on Pricing from the Continental Airlines Code-Share Agreement, EAG 05-3, March 2005.
- 245. William D. Drake, Choosing How to Monitor a Competitor When Colluding, EAG 05-2, March 2005.
- 244. George A. Rozanski and T. Scott Thompson, Use of Econometrics at the U.S. Department of Justice, EAG 05-1, March 2005. Published as Chapter VI in ABA Section of Antitrust law, Econometrics (2005).
- 243. Wayne R. Dunham, The Determination of Antitrust Liability in U.S. v. Microsoft: The Empirical Evidence the Department of Justice Used to Prove its Case, EAG 04-16, October 2004.
- 242. Sheldon Kimmel, Comment on Top-of-the-Market Contract-Pricing Clauses, EAG 04-15, October 2004.
- 241. William W. Nye, A Note on the Incidence and Possible Cost of 'Critical Circumstances' Penalties in U.S. Antidumping Enforcement, EAG 04-14, October 2004. Published at 14 *The International Trade Journal* 337 (2005).
- 240. Patrick Greenlee, David Reitman and David S. Sibley, An Antitrust Analysis of Bundled Loyalty Discounts, EAG 04-13, October 2004. Forthcoming in *International Journal of Industrial Organization*.

- 239. Alexander Raskovich, Solving Holdup through Intermediation, EAG 04-12, August 2004.
- 238. Ken Heyer, A World of Uncertainty: Economics and the Globalization of Antitrust, EAG 04-11, August 2004. Published at 72 *Antitrust Law Journal* 375 (2005).
- 237. Charles J. Romeo and Mary W. Sullivan, Controlling for Temporary Promotions in a Differentiated Products Model of Consumer Demand, EAG 04-10, August 2004.
- 236. Ari Gerstle, Mergers in Durable-Goods Industries: A Re-Examination of Market Power and Welfare Effects, EAG 04-9, August 2004.
- 235. David S. Sibley, Michael J. Doane, Michael A. Williams, and Shu-Yi Tsai, Pricing Access to a Monopoly Input, EAG 04-8, March 2004. Published at 6(4) *Journal of Public Economic Theory* 541 (2004).
- 234. David S. Sibley and Simon Wilkie, Equilibrium Exit from a Long Term Contract, EAG 04-7, March 2004.
- 233. David S. Sibley, Cost Asymmetries, Mavericks and Coordinated Behavior, EAG 04-6, March 2004.
- 232. Thomas P. Lyon and Jing Li, Regulatory Uncertainty and Regulatory Scope, EAG 04-5, January 2004.
- 231. Thomas P. Lyon and Eric Rasmusen, Buyer-Option Contracts Restored: Renegotiation, Inefficient Threats, and the Hold-Up Problem, EAG 04-4, January 2004.
- 230. Patrick Greenlee and Keith Waehrer, The Effect of Profit Sharing on Auction Markets, EAG 04-3, February 2004.
- 229. Patrick Greenlee and David Reitman, Competing with Loyalty Discounts, EAG 04-2, February 2004.
- 228. Russell Pittman, Abuse-of-Dominance Provisions of Central and Eastern European Competition Laws: Have Fears of Over-Enforcement Been Borne Out?, EAG 04-1, January 2004. Published at 27 *World Competition* 245 (2004).
- 227. Eric Emch, GECAS and the GE/Honeywell Merger: A Response to Reynolds and Ordover, EAG 03-13, August 2003. Published at 72(1) *Antitrust Law Journal* 233 (2004).
- 226. Charles J. Romeo, Estimating Discrete Joint Probability Distributions for Demographic Characteristics at the Store Level Given Store Level Marginal Distributions and a Market-Wide Joint Distribution, EAG 03-12, August 2003. Published at 3(1) *Quantitative Marketing and Economics* 71 (2005).
- 225. Dean V. Williamson, Renegotiation, Dynamic Efficiency, and Vertical Restraints in Electricity Marketing Contracts, EAG 03-11, August 2003.

- 224. Russell Pittman, Railways Reform and Electricity Reform in Russia, and the Role of the Ministry for Antimonopoly Policy, EAG 03-10, August 2003. Published at 53 *Acta Economica* 339 (2003).
- 223. Russell Pittman, Regulatory Reform: Lessons for Korea, EAG 03-9, August 2003. Published at Lee-Jay Cho and Yoon Hyung Kim, eds., *Institutional and Policy Reforms to Enhance Corporate Efficiency in Korea*, Korea Development Institute, 2006.
- 222. Gregory J. Werden, The *American Airlines* Decision: Not with a Bang but a Whimper, EAG 03-8, August 2003.
- 221. William W. Nye, Jumping the Gun: The Cellophane Strategy and the Incentives of Firms Contemplating Merger, EAG 03-7, April 24, 2003.
- 220. W. Tom Whalen, Constrained Contracting and Quasi-Mergers: Price Effects of Code Sharing and Antitrust Immunity in International Airline Alliances, EAG 03-6, April 24, 2003.
- 219. Russell Pittman, A Note on Non-Discriminatory Access to Railroad Infrastructure, EAG 03-5, April 24, 2003. Published at 75 *Annals of Public and Cooperative Economics* 167 (2004).
- 218. Jeffrey Wilder, Competing for the Effort of a Common Agent: Contingency Fees in Commercial Insurance, EAG 03-4, February 21, 2003.
- 217. Fred Gramlich, Coupon Remedies in Antitrust Cases: The Form of the Discount Also Matters, EAG 03-3, February 10, 2003.
- 216. Gregory J. Werden, The Effect of Antitrust Policy on Consumer Welfare: What Crandall and Winston Overlook, EAG 03-2, January 2003.
- 215. Craig Peters, Evaluating the Performance of Merger Simulation: Evidence from the U.S. Airline Industry, EAG 03-1, January 2003. Published at 49 *Journal of Law and Economics* 627 (2006).
- 214. Sheldon Kimmel, The Supreme Court's Efficiency Defense, EAG 02-13, September 2002. Published at 12 *Supreme Court Economic Review* 209.
- 213. Sean Ennis, A Nonparametric Analysis of International Long-Distance Demand, EAG 02-12, August 2002.
- 212. Keith Waehrer, Mechanisms for Dividing Labor and Sharing Revenue in Joint Ventures, EAG 02-11, June 5, 2002.
- 211. Andrew R. Dick, Knowing Your Rival's Price: Some Guideposts for Evaluating Communications Between Competitors, EAG 02-10, August 2002.
- 210. Gregory J. Werden, Beyond Critical Loss: Tailoring Applications of the Hypothetical Monopolist Paradigm, EAG 02-9, August 2002.
- 209. Gregory J. Werden, Market Delineation Algorithms Based on the Hypothetical Monopolist Paradigm, EAG 02-8, August 2002.

- 208. Suzanne E. Majewski, Knowledge Spillovers in Strategic Alliances: The Case of Biotechnology, EAG 02-7, July 12, 2002.
- 207. Cindy R. Alexander, Corporate Stock Ownership as an Alignment Mechanism: Hidden Actions and the Determinants of Corporate and Insider Ownership, EAG 02-6, May 2002.
- 206. Sean F. Ennis, Connection and Disconnection of Networks, EAG 02-5, April 2002.
- 205. Sheldon Kimmel, Bertrand Competition Without Completely Certain Production, EAG 02-4, April 2002.
- 204. Eric Emch, Does Opportunism Explain Markups in Laser Printer Toner and Memory? No and Yes. Evidence on Pricing in Laser Printer Aftermarkets, EAG 02-3, March 2002.
- 203. Russell Pittman, Chinese Railway Reform and Competition: Vertical or Horizontal Restructuring?, EAG 02-2, March 2002. Published at 38 *Journal of Transport Economics and Policy* 305 (2004).
- 202. Suzanne E. Majewski and Dean V. Williamson, Endogenous Spillovers, Strategic Blocking, and the Design of Contracts in Collaborative R&D: Evidence from NCRA filings of R&D Joint Ventures, EAG 02-1, March 2002.
- 201. Keith Waehrer and Martin K. Perry, The Effects of Mergers in Open Auction Markets, EAG 01-10, July 3, 2001. Forthcoming in the *Rand Journal of Economics*.
- 200. Cory Capps, David Dranove and Mark Satterthwaite, Competition and Market Power in Option Demand Markets, EAG 01-9, September 20, 2001. Published at 34 *RAND Journal of Economics* 4 (2003).
- 199. David Reitman, Mergers in Durable Goods Markets with Rational Customers, EAG 01-8, September 7, 2001.
- 198. Russell Pittman, Vertical Restructuring of the Infrastructure Sectors of Transition Economies, EAG 01-7, September 28, 2001. Published at 3 *Journal of Industry, Competition and Trade* 5 (2003).
- 197. Patrick Greenlee and Alexander Raskovich, Vertical Ownership Without Control, EAG 01-6, August 1, 2001. Published in 1017 *European Economic Review* 50 (2006) as "Partial Vertical Ownership".
- 196. Charles J. Romeo and Andrew R. Dick, The Effect of Format Changes and Ownership Consolidation on Radio Station Outcomes, EAG 01-5, May 24, 2001.
- 195. Kenneth Danger and H.E. Freech III, Critical Thinking about "Critical Loss" in Antitrust, EAG 01-4, May 18, 2001. Published at 46 *Antitrust Bulletin* 339 (2001).
- 194. Sean Ennis, Competition and Price Dispersion in International Long Distance Calling, EAG 01-3, April 23, 2001.
- 193. Mary Sullivan, How Many Trademarks Does It Take to Protect a Brand? The Optimal Number of Trademarks, Branding Strategy and Brand Performance, EAG 01-2, April 18, 2001.

- 192. Vivek Ghosal, The Impact of Uncertainty and Sunk Costs on Firm Dynamics and Industry Structure: Evidence from the U.S. Manufacturing Sector, EAG 01-1, February 18, 2001.
- 191. Cindy Alexander, Jennifer Arlen, and Mark A. Cohen, Toward an Empirical Foundation for Federal Sentencing Practice: An Evaluation of Corporate Sentencing Data, EAG 00-12, December 29, 2000.
- 190. Eric Emch, Price Discrimination via Proprietary Aftermarkets, EAG 00-11, December 22, 2000. Published at 2*Contributions to Economic Analysis & Policy* 1063 (2003).
- 189. Charles Romeo, Russell Pittman, and Norman Familant, Do Newspaper JOA's Charge Monopoly Advertising Rates? Theory and Evidence, EAG 00-10, December 18, 2000. Published at 22 *Review of Industrial Organization* 121 (2003).
- 188. Alex Raskovich, Pivotal Buyers and Bargaining Power, EAG 00-9, December 7, 2000. Published at 4 *Journal of Industrial Economics* 405 (2003).
- 187. Hideo Konishi, and Michael Sandfort, Existence of Stationary Equilibrium in the Markets for New and Used Durable Goods, EAG 00-8, December 5, 2000.
- 186. Vivek Ghosal, Potential Foreign Competition in U.S. Manufacturing, EAG 00-7, September 22, 2000.
- 185. Charles Romeo, A Gibbs Sampler for Mixed Logit Analysis of Differentiated Product Markets Using Aggregate, EAG 00-6, September 18, 2000. Forthcoming in *Computational Economics*.
- 184. Antonio Estache, Andrea Goldstein, and Russell Pittman, Privatization and Regulatory Reform in Brazil: The Case of Freight Railways, EAG 00-5, September 16, 2000. Published at 1 *Journal of Industry Competition and Trade* 203 (2001).
- 183. Marius Schwartz, The Economic Logic for Conditioning Bell Entry into Long Distance on the Prior Opening of Local Markets, EAG 00-4, March 15, 2000. Published at 18 *Journal of Regulatory Economics (Practitioners Section)* 247 (2000).
- 182. William W. Nye, Fable in Another Key: Path Dependence and the Licensing of Music Performance Rights, EAG 00-3, March 31, 2000.
- 181. Mary Sullivan, The Effect of the Big Eight Accounting Firm Mergers on the Market for Audit Services, EAG 00-2, March 17, 2000.
- 180. Constance Helfat, and Ruth Raubitschek, Product Sequencing: Co-Evolution of Knowledge, Capabilities and Products, EAG 00-1, February 18, 2000. Published at 21 *Strategic Management Journal* 961 (2000).
- 179. Patrick Greenlee, Endogenous Formation of Competitive Research Sharing Joint Ventures, EAG 99-2, December 2, 1999. Published at 355 *Journal of Industrial Economics* 53 (2005).
- 178. Sheldon Kimmel, The Goals of Milk Policy, EAG 99-1, December 1, 1999.
- 177. Mark J. McCabe, Analyzing Welfare in Related Markets: Durable Goods and Aftermarkets, EAG 97-4, September 12, 1997.

- 176. Crooke, Philip, Luke M. Froeb, Steven Tschantz, and Gregory J. Werden, Effects of the Assumed Demand System on Simulated Postmerger Equilibria, EAG 97-3, August 14, 1997. Published at 15 *Review of Industrial Economics* 205 (1999).
- 175. Pittman, Russell, Competition Law in Central and Eastern Europe: Five Years Later, EAG 97-2, June 6, 1997. Published at 43 *Antitrust Bulletin* 179 (1998).
- 174. Froeb, Luke M. and Gregory J. Werden, A Robust Test for Consumer Welfare Enhancing Mergers Among Sellers a Homogeneous Product, EAG 97-1, June 5, 1997. Published at 58 *Economics Letters* 367 (1998).
- 173. Werden, Gregory J., Demand Elasticities in Antitrust Analysis, EAG 96-11, November 29, 1996. Published at 66 *Antitrust Law Journal* 363 (1998).
- 172. Kimmel, Sheldon, Lowering Price by Buying Competitors in Order to Shut Them Down, EAG 96-10, October 15, 1996.
- 171. Raskovich, Alexander, Contracts to Mitigate Deadweight Loss, EAG 96-9, September 23, 1996.
- 170. Werden, Gregory J., and Luke M. Froeb, The Entry Inducing Effects of Horizontal Mergers, EAG 96-8, September 20, 1996. Published at 46 *Journal of Industrial Economics* 525 (1998).
- 169. Alexander, Cindy R., and Mark A. Cohen, Why Do Corporations Become Criminals? An Agency Explanation, EAG 96-7, July 16, 1996. Published at 5 *Journal of Corporate Finance* 1 (1999).
- 168. Einhorn, Michael A., INTELSAT: A Reform Proposal, EAG 96-6, July 15, 1996. Revised version published at 10 *Information Economics and Policy* 197 (1998).
- 167. Alexander, Cindy R., and Mark A. Cohen, New Evidence on the Origins of Corporate Crime, EAG 96-5, July 12, 1996. Published at 17 *Managerial and Decision Economics* 421 (1996).
- 166. Dunham, Wayne R., Moral Hazard and the Market for Used Automobiles, EAG 96-4, July 11, 1996 Published at 35 *Economic Inquiry* 579 (1997).
- 165. McCabe, Mark J., and James G. Hewlett, Dynamic Behavior of Regulated Firms: Evidence from Nuclear Utilities, EAG 96-3, July 1, 1996.
- 164. Werden, Gregory J., Simulating the Effects of Differentiated Products Mergers, EAG 96-2, June 24, 1996. Revised versions published under different titles at 5 *George Mason Law Review* 363 (1997) and as ch. 7 in Julie A. Caswell & Ronald W. Cotterill eds., *Strategy and Policy in the Food System: Emerging Issues* (1997).
- 163. Werden, Gregory J., A Robust Test for Consumer Welfare Enhancing Mergers Among Sellers of Differentiated Products, EAG 96-1, June 14, 1996. Published at 44 *Journal of Industrial Economics* 409 (1996).
- 162. Gillespie, William, Cheap Talk, Price Announcements, and Collusive Coordination, EAG 95-3, September 25, 1995.

- 161. Werden, Gregory J., and Luke M. Froeb, Simulation as an Alternative to Structural Merger Policy in Differentiated Products Industries, EAG 95-2, September 18, 1995. Published as ch. 4 in Malcolm B. Coate and Andrew N. Kleit, eds., *The Economics of the Antitrust Process*, Kluwer Academic Publishers, 1996.
- 160. Schwartz, Marius, and Gregory J. Werden, A Quality-Signaling Rationale for Aftermarket Tying, EAG 95-1, September 11, 1995. Published at 64 *Antitrust Law Journal* 387 (1996).
- 159. McCabe, Mark J., Principals, Agents, and the Learning Curve: The Case of Steam-Electric Power Plant Design and Construction, EAG 94-3, November 17, 1994. Published at 44 *Journal of Industrial Economics* 357 (1996).
- 158. Gilbert, Richard J., and Steven C. Sunshine, Incorporating Dynamic Efficiency Concerns in Merger Analysis: The Use of Innovation Markets, EAG 94-2, November 2, 1994. Published at 63 *Antitrust Law Journal* 569 (1995).
- 157. Werden, Gregory J., Luke M. Froeb, and Timothy J. Tardiff, The Use of the Logit Model in Applied Industrial Organization, EAG 94-1, November 1, 1994. Published at 3 *International Journal of the Economics of Business* 85 (1996).
- 156. Raskovich, Alex, Vertical Control with Costly Free-Riding, EAG 93-11, September 14, 1993
- 155. Ordover, Janusz A., and Russell W. Pittman, Restructuring the Polish Railway for Competition, EAG 93-10, September 13, 1993. Published in *Przeglad Organizacji*, January 1994, at 23.
- 154. Brennan, Timothy J., Is Cost-of-Service Regulation Worth the Cost?, EAG 93-9, September 10, 1993. Published at 3 *International Journal of the Economics of Business* 25 (1996).
- 153. Kodres, Laura E., and Daniel P. O'Brien, The Existence of Pareto Superior Price limits, EAG 93-8, September 1, 1993. Published at 84 *American Economic Review* 919 (1994).
- 152. Alexander, Cindy R., and David Reiffen, Vertical Contracts as Strategic Commitments, EAG 93-7, August 30, 1993. Published at 4 *Journal of Economics & Management Strategy* 623 (1995).
- 151. Malueg, David A. and Schwartz, Marius, Parallel Imports, Demand Dispersion, and International Price Discrimination, EAG 93-6, August 25, 1993. Published at 10 *Journal of International Economics* 167 (1994).
- 150. Froeb, Luke M., Werden, Gregory J. Werden, and Tardiff, Timothy J., The Demsetz Postulate and the Effects of Mergers in Differentiated Products Industries, EAG 93-5, August 24, 1993. Published in Fred S. McChesney ed., *Economic Inputs, Legal Outputs: The Role of Economists in Modern Antitrust* (1998).
- 149. Werden, Gregory J. and Froeb, Luke M., The Effects of Mergers in Differentiated Products Industries: Logit Demand and Structural Merger Policy, EAG 93-4, August 23, 1993. Published at 10 *Journal of Law, Economics, & Organization* 407 (1994).
- 148. Nye, William W., Some Economic Issues in Licensing of Music Performance Rights: Controversies in Recent ASCAP-BMI Litigation, EAG 93-3, February 1, 1993.

- 147. Froeb, Luke M., Koyak, Robert A., and Werden, Gregory J., What Is the Effect of Bid-Rigging on Prices?, EAG 93-2, January 28, 1993. Published at 42 *Economics Letters* 419 (1993).
- 146. Hay, George A., and Werden, Gregory J., Horizontal Mergers: Law, Policy, and Economics, EAG 93-1, January 25, 1993. Shorter version published at 83 *American Economic Review, Papers and Proceedings* 173 (1993).
- 145. Gramlich, Fred, Mergers that Substantially Lessen Competition: A Benefit-Cost Approach to Merger Enforcement, EAG 92-10, December 17, 1992.
- 144. Ordover, Janusz A., and Pittman, Russell W., Competition Policies for Natural Monopolies in a Developing Market Economy, EAG 92-9, November 9, 1992. Published in S. Rayner, ed., *Trade and Finance in Central and Eastern Europe* (1993) and in 2 *Economics of Transition* 317 (1994).
- 143. Werden, Gregory J., The History of Antitrust Market Delineation, EAG 92-8, July 2, 1992. Published at 76 *Marquette Law Review* 123 (1992).
- 142. Raskovich, Alexander and Froeb, Luke M., Has Competition Failed in the Credit Card Market?, EAG 92-7, June 12, 1992.
- 141. Vistnes, Gregory S., Interval Contracts, EAG 92-6, April 16, 1992.
- 140. Vistnes, Gregory S., Strategic Alliances, Cliques, and Competition in Markets with Network Goods, EAG 92-5, March 20, 1992.
- 139. Van Siclen, Sally J., A Practical Analysis of the Economics of Demonopolization, EAG 92-4, March 19, 1992. Published under a different title in Saul Estrin and Martin Cave, eds., *Competition and Competition Policy: A Comparative Analysis of Central and Eastern Europe* (1993)
- 138. Majerus, David W., Durable Goods Monopoly with a Finite But Uncertain Number of Consumers, EAG 92-3, February 3, 1992.
- 137. Pittman, Russell, Merger Law in Central and Eastern Europe, EAG 92-2, January 9, 1992. Published at 7 *American University Journal of International Law and Policy* 649 (1992).
- 136. Werden, Gregory J., Market Delineation under the Merger Guidelines: A Tenth Anniversary Retrospective, EAG 92-1, January 2, 1992. Published 38 *Antitrust Bulletin* 517 (1993).
- 135. Pittman, Russell, Some Critical Provisions in the Antimonopoly Laws of Central and Eastern Europe, EAG 91-10, September 20, 1991. Published at 26 *The International Lawyer* 485 (1992).
- 134. Kimmel, Sheldon, A Fundamental Bias in Studying Effects of Concentration on Price, EAG 91-9, August 15, 1991.
- 133. Rubinovitz, Robert, Market Power and Price Increases for Basic Cable Service Since Deregulation, EAG 91-8, August 6, 1991. Published at 24 *Rand Journal of Economics* 1 (1993).
- 132. Froeb, Luke M., and Werden, Gregory J., Endogeneity in the Concentration-Price Relationship: Causes and Consequences, EAG 91-7, July 1, 1991. Revised version published at 61 *Journal of Industrial Economics* 431 (1993).

- 131. Werden, Gregory J., and Luke M. Froeb, Correlation, Causality, and All that Jazz: The Inherent Shortcomings of Price Tests for Antitrust Market Delineation, EAG 91-6, June 12, 1991. Published at 8 *Review of Industrial Organization* 329 (1993).
- 130. Town, Robert J., Price Wars and Demand Fluctuations: A Re-examination of the Joint Executive Committee, EAG 91-5, June 4, 1991.
- 129. Vistnes, Gregory S., An Empirical Investigation of Procurement Contract Structures, EAG 91-4, May 20, 1991. Published at 25 *Rand Journal of Economics* 215 (1994).
- 128. Werden, Gregory J., A Review of the Empirical and Experimental Evidence on the Relationship between Market Structure and Performance, EAG 91-3, May 8, 1991.
- 127. Town, Robert J., Merger Waves and the Structure of Merger and Acquisition Time Series, EAG 91-2, February 15, 1991. Published at 7 *Journal of Applied Econometrics* S83 (1992).
- 126. McAfee, R. Preston, and Marius Schwartz, Two-Part Tariffs to Competing Firms: Destructive Recontracting, Nondiscrimination, and Exclusivity, EAG 91-1, January 7, 1991. Revised version published in 84 *American Economic Review* 210 (1994).
- 125. Joskow, Andrew S., Gregory J. Werden, and Richard L. Johnson, Entry, Exit, and Performance in Airline Markets, EAG 90-10, December 31, 1990. Published at 12 *International Journal of Industrial Economics* 457 (1994).
- 124. Malueg, David A., Collusive Behavior and Partial Ownership of Rivals, EAG 90-9, December 28, 1990. Published at 10 *International Journal of Industrial Organization* 27 (1992).
- 123. Kimmel, Sheldon, Estimating Economic Interests of Firms: An Essay on Skepticism, Trust, and Antitrust, EAG 90-8, December 20, 1990. Published under a different title in 40 *Journal of Industrial Economics* 441 (1992).
- 122. Simpson, R. David, The Decline of an Import-Competing Industry: A Case Study of U.S. Primary Zinc Production, EAG 90-7, December 15, 1990.
- 121. Pittman, Russell, Specific Investments, Contracts, and Opportunism: The Evolution of Railroad Sidetrack Agreements, EAG 90-6, June 26, 1990. Published at 34 *Journal of Law and Economics* 565 (1991).
- 120. Werden, Gregory J., Four Suggestions on Market Delineation, EAG 90-5, May 17, 1990. Published at 37 *Antitrust Bulletin* 107 (1992).
- 119. Werden, Gregory J., Antitrust Policy Toward Horizontal Mergers: A Comment on Farrell and Shapiro, EAG 90-4, May 15, 1990. Published at 81 *American Economic Review* 1002 (1991).
- 118. Froeb, Luke M., and Gregory J. Werden, Market Delineation Under the Merger Guidelines: The Role of Residual Demand Elasticities, EAG 90-3, April 10, 1990. Published under different titles at 6 *Review of Industrial Organization* 33 (1991) and 7 *Review of Industrial Organization* 241 (1992).
- 117. Alexander, Cindy R., and Bruce H. Kobayashi, The Role of Property Rights in Determining the Value of the Hart-Scott-Rodino Act, EAG 90-2, March 22, 1990.

- 116. Rubinovitz, Robert, Moral Hazard in the Thrift Industry, EAG 90-1, February 2, 1990.
- 115. Pittman, Russell W., and Gregory J. Werden, The Divergence of SIC Industries From Antitrust Markets: Indications From Justice Department Merger Cases, EAG 89-16, November 28, 1989. Published at 33 *Economics Letters* 283 (1990).
- 114. Werden, Gregory J., Andrew S. Joskow, and Richard L. Johnson, The Effects of Mergers on Economic Performance: Two Case Studies from the Airline Industry, EAG 89-15, October 2, 1989. Published at 12 *Managerial and Decision Economics* 341 (1991).
- 113. Simpson, R. David, Output Responses in a Supergame with Varying Costs, EAG 89-14, September 28, 1989.
- 112. Froeb, Luke, and Dean Amel, Do Firms Differ Much?, EAG 89-13, August 25, 1989. Published at 39 *Journal of Industrial Economics* 323 (1991).
- 111. Simpson, R. David, Signaling in an Infinitely Repeated Cournot Game With Output Restrictions, EAG 89-12, July 31, 1989. Published at 9 *International Journal of Industrial Organization* 365 (1991).
- 110. Nye, William, W., Some Evidence on Firm-Specific Learning-by-Doing in Semiconductor Production, EAG 89-11, July 26, 1989. Revised version published at 11 *Review of Industrial Organization* 383 (1996).
- 109. Froeb, Luke, Do Plea Bargaining Mechanisms Release Information?, EAG 89-10, July 21, 1989.
- 108. Joyce, Jon M., Firm Financial Strength, Defendant Fines, and Antitrust Deterrence: A Preliminary Empirical Exploration, EAG 89-9, July 17, 1989.
- 107. Malueg, David A., and Marius Schwartz, Preemptive Investment, Toehold Entry, and the Mimicking Principle, EAG 89-8, June 9, 1989. Published at 22 *Rand Journal of Economics* 1 (1991).
- 106. Kimmel, Sheldon, Existence, Uniqueness and Efficiency of Auction Equilibria, EAG 89-7, June 7, 1989.
- 105. Schwartz, Marius, Third-Degree Price Discrimination and Output: Generalizing a Welfare Result, EAG 89-6, June 3, 1989. Published at 80 *American Economic Review* 1259 (1990).
- 104. Rubinovitz, Robert, How Does Financial Performance Influence a Thrift's Decision to Diversify?, EAG 89-5, May 30, 1989.
- 103. McFarland, Henry, The Effects of U.S. Railroad Deregulation on Shippers, Labor and Capital, EAG 89-4, March 23, 1989. Published at 1 *Journal of Regulatory Economics* 259 (1989).
- 102. Collins, Kevin, Fee-Shifting and Detrebling Damages in Private Predatory Pricing Cases, EAG 89-3, March 15, 1989.
- 101. Werden, Gregory J., The Limited Relevance of Patient Migration Data in Market Delineation for Hospital Merger Cases, EAG 89-2, March 10, 1989. Published at 8 *Journal of Health Economics* 363 (1989).

- 100. Brennan, Timothy J., Refusing to Cooperate With Competitors: A Theory of Horizontal Boycotts, EAG 89-1, March 8, 1989. Published at 35 *Journal of Law and Economics* 247 (1992).
- 99. Schwartz, Marius, Investments in Oligopoly: Welfare Effects and Tests for Predation, EAG 88-16, November 24, 1988. Published at 41 *Oxford Economic Papers* 698 (1989).
- 98. Nye, William, An Economic Profile of Export Trading Companies, EAG 88-15, November 18, 1988. Published at 38 *Antitrust Bulletin* 309 (1993).
- 97. Malueg, David A., and John L. Solow, A Note on Welfare in the Durable-Goods Monopoly, EAG 88-14, October 4, 1988. Published at 56 *Economica* 523 (1989).
- 96. Werden, Gregory J., Price Fixing and Civil Damages: Setting the Record Straight, EAG 88-13, September 20, 1988. Published at 34 *Antitrust Bulletin* 307 (1989).
- 95. Kimmel, Sheldon, Pareto Inferior Trade?, EAG 88-12, September 19, 1988.
- 94. Brennan, Timothy J., Regulating by "Capping" Prices, EAG 88-11, September 16, 1988. Published at 1 *Journal of Regulatory Economics* 133 (1989).
- 93. Pittman, Russell W., Railroads and Competition: Why the Santa Fe/Southern Pacific Merger Had to Die, EAG 88-10, August 26, 1988. Published at 34 *Journal of Industrial Economics* 26 (1990).
- 92. Werden, Gregory J., The Divergence of SIC Industries from Antitrust Markets: Some Evidence from Price Fixing Cases, EAG 88-9, August 24, 1988. Published at 28 *Economics Letters* 193 (1988).
- 91. Froeb, Luke, Auctions and Antitrust, EAG 88-8, August 22, 1988.
- 90. McAfee, R. Preston and Michael A. Williams, Horizontal Mergers and Antitrust Policy, EAG 88-7, May 16, 1988. Published at 40 *Journal of Industrial Economics* 181 (1992).
- 89. Brown, Donald M., and Frederick R. Warren-Boulton, Testing the Structure-Competition Relationship on Cross-Sectional Firm Data, EAG 88-6, May 11, 1988.
- 88. Froeb, Luke, and Preston McAfee, Deterring Bid Rigging in Forest Service Timber Auctions, EAG 88-5, May 5, 1988.
- 87. Froeb, Luke, Criminal Plea Bargaining with Uncertainty: An Empirical Model of Sentencing, EAG 88-4, March 14, 1988.
- 86. Hurdle, Gloria J., Richard L. Johnson, Andrew S. Joskow, Gregory J. Werden, and Michael A. Williams, Concentration, Potential Entry, and Performance in the Airline Industry, EAG 88-3, February 19, 1988. Published at 38 *Journal of Industrial Economics* 119 (1989).
- 85. Clarke, Richard N., Frederick R. Warren-Boulton, David D. Smith, and Marilyn J. Simon, Sources of the "Crisis" in Liability Insurance: An Economic Analysis, EAG 88-2, February 16, 1988. Published at 5 *Yale Journal on Regulation* 367 (1988).
- 84. McGuckin, Robert H., Frederick R. Warren-Boulton and Peter Waldstein, Analysis of Mergers Using Stock Market Returns, EAG 88-1, January 28, 1988. Published at 7 *Review of Industrial Organization* 1 (1992).
- 83. Hoven, John T., Exclusive Dealing Can Sustain a Monopoly, EAG 87-13, December 30, 1987.

- 82. Kobayashi, Bruce H., John R. Lott, Jr., Asymmetric Information, the Timing of Payment, and the Selection of Cases for Litigation, EAG 87-12, December 14, 1987.
- 81. Malueg, David A., Welfare Consequences of Emission Credit Trading Programs, EAG 87-11, November 17, 1987. Published at 18 *Journal of Environmental Economics and Management* 66 (1990).
- 80. Brennan, Timothy J., Exclusive Dealing and Conflict of Interest, EAG 87-10, November 6, 1987. Published at 56 *Southern Economic Journal* 323 (1989).
- 79. Joyce, Jon M., The Effect of Firm Organizational Structure on Price-Fixing Deterrence, EAG 87-9, November 3, 1987. Published at 7 *Contemporary Policy Issues* 19 (1989).
- 78. Kimmel, Sheldon, Price Correlation and Market Definition, EAG 87-8, September 23, 1987.
- 77. Kimmel, Sheldon, Marketing Orders and Stability: The Case of California-Arizona Oranges, EAG 87-7, July 20, 1987.
- 76. McFarland, Henry, Evaluating Q as an Alternative to the Rate of Return in Measuring Profitability, EAG 87-6, July 15, 1987. Published at 70 *Review of Economics and Statistics* 614 (1988).
- 75. Fitzpatrick, Mary E., A Test of Passive Regulation Using An Endogenous Switching Regression, EAG 87-5, July 10, 1987.
- 74. Malueg, David A., Duopoly Equilibrium When Production and Sales Decisions Are Distinct, EAG 87-4, July 2, 1987.
- 73. Untiet, Charles, The Economics of Oil Pipeline Deregulation: A Review and Extension of the DOJ Report, EAG 87-3, May 22, 1987.
- 72. Brennan, Timothy J., Cross-Subsidization and Discrimination by Regulated Monopolists, EAG 87-2, March 19, 1987. Published at 2 *Journal of Regulatory Economics* 37 (1990).
- 71. Williams, Michael A., Andrew S. Joskow, Richard L. Johnson, and Gloria J. Hurdle, Explaining and Predicting Airline Yields With Nonparametric Regression Trees, EAG 87-1, February 4, 1987. Published at 24 *Economics Letters* 99 (1987).
- 70. Clarke, Richard N., SICs as Delineators of Economic Markets, EAG 86-18, October 30, 1986. Published at 62 *Journal of Business* 17 (1989).
- 69. Froeb, Luke, Evaluating Mergers in Durable Goods Industries, EAG 86-17, October 8, 1986. Published at 34 *Antitrust Bulletin* 99 (1989).
- 68. Brennan, Timothy J., Understanding "Raising Rivals' Costs." EAG 86-16, September 26, 1986. Published at 33 Antitrust Bulletin 95 (1988).
- 67. Malueg, David A., and John L. Solow, Should Durable Goods Monopolists Be Required to Sell? EAG 86-15, September 25, 1986. Published at 25 *Economic Letters* 283 (1987).
- 66. Warren-Boulton, Frederick R., and John E. Kwoka, Jr., Efficiencies, Failing Firms, and Alternatives to Merger: A Policy Synthesis, EAG 86-14, August 29, 1986. Published at 31 *Antitrust Bulletin* 431 (1986).

- 65. Malueg, David A., and John L. Solow, Endogenous Contract Choice and Market Structure, EAG 86-13, August 11, 1986.
- 64. Schwartz, Marius, The Perverse Effects of the Robinson-Patman Act, EAG 86-12, July 30, 1986. Published at 31 *Antitrust Bulletin* 733 (1986).
- 63. Baumann, Michael, and Marius Schwartz, Entry-Deterrence Externalities and Relative Firm Size, EAG 86-11, July 3, 1986. Published at 6 *International Journal of Industrial Organization* 181 (1988).
- 62. Johnson, Richard L., and David D. Smith, Antitrust Division Merger Procedures and Policy, 1968-1984, EAG 86-10, June 9, 1986. Published at 32 *Antitrust Bulletin* 967 (1987).
- 61. Smiley, Albert K., Direct Competition Among Cable Television Systems, EAG 86-9, June 5, 1986. Published under a different title at 7 *Yale Journal on Regulation* 121 (1990).
- 60. Schwartz, Marius, The Nature and Scope of Contestability Theory, EAG 86-8, May 20, 1986. Published at 38 *Oxford Economic Papers* 37 (Supp. 1986).
- 59. McFarland, Henry, Did Railroad Deregulation Lead to Monopoly Pricing? An Application of Q, EAG 86-7, April 21, 1986. Published at 60 *Journal of Business* 385 (1987).
- 58. Brennan, Timothy J., Taxing Home Audio Taping, EAG 86-6, April 15, 1986. Published at 32 *Journal of Broadcasting and Electronic Media* 89 (1988).
- 57. Brennan, Timothy J., Regulated Firms in Unregulated Markets: Understanding the Divestiture in *U.S. v. AT&T*, EAG 86-5, April 11, 1986. Published at 32 *Antitrust Bulletin* 749 (1987).
- 56. Guerin-Calvert, Margaret E., Robert H. McGuckin, and Frederick R. Warren-Boulton, State and Federal Regulation in the Market for Corporate Control, EAG 86-4, January 21, 1986. Published at 32 *Antitrust Bulletin* 661 (1987).
- 55. Sing, Merrile, Are Combination Gas and Electric Utilities Multiproduct Natural Monopolies?, EAG 86-3, January 17, 1986. Published at 69 *Review of Economics and Statistics* 392 (1987).
- 54. Froeb, Luke, Concentration, Sticky Prices, and Strategic Behavior, EAG 86-2, January 13, 1986.
- 53. Gramlich, Fred, Scrip Damages in Antitrust Cases, EAG 86-1, January 9, 1986. Published at 31 *Antitrust Bulletin* 261 (1986).
- 52. Werden, Gregory J., Challenges to Horizontal Mergers by Competitors Under Section 7 of the Clayton Act, EPO 85-16, December 6, 1985. Published at 24 *American Business Law Journal* 213 (1986).
- 51. Mikkelsen, Kent, Determinants of Private R&D Activity In a Less-Developed Country, EPO 85-15, November 25, 1985.
- 50. McFarland, Henry, Railroad Competitive Access: An Economic Analysis, EPO 85-14, November 20, 1985. Published at 23 *Logistics and Transportation Review* 207 (1987).
- 49. Baumann, Michael G., Gregory J. Werden, and Michael Williams, Rankings of Economics Departments by Field, EPO 85-13, September 27, 1985. Published at 31 *American Economist* 56 (1987).
- 48. Wang, Chaiho C., The Geometry of Concentration Indices, EPO 85-12, September 27, 1985. Shorter version published at 1985 *American Statistical Association Business and Economics Proceedings* 574.

- 47. Pittman, Russell, Market Structure and Campaign Contributions: Does Concentration Matter?, EPO 85-11, September 26, 1985. Published at 58 *Public Choice* 173 (1988).
- 46. Schwartz, Marius, Do Sunk Costs Discourage or Encourage Collusion?, EPO 85-10, September 26, 1985.
- 45. Schwartz, Marius, Anticompetitive Effects of Exclusive Dealing? What Comanor and Frech Really Show, EPO 85-9, August 2, 1985. Published at 77 *American Economic Review* 1063 (1987).
- 44. Baumann, Michael G., and Gregory J. Werden, The Optimal Measure of Market Concentration in a Model of Cartel Formation, EPO 85-8, May 23, 1985.
- 43. Werden, Gregory J., and Michael G. Baumann, Mergers and Economic Performance in a Model of Cartel Formation, EPO 85-7, April 23, 1985.
- 42. Joyce, Jon M., and Robert H. McGuckin, Assignment of Rights to Sue Under *Illinois Brick*: An Empirical Assessment, EPO 85-6, April 9, 1985. Published at 31 *Antitrust Bulletin* 235 (1986).
- 41. Williams, Michael A., An Economic Application of Bootstrap Statistical Methods: *Addyston Pipe* Revisited, EPO 85-5, February 26, 1985. Published at 30 *American Economist* 52 (1986).
- 40. Johnson, Richard L., Joseph J. Cordes, and Robert S. Goldfarb, Normative and Positive Aspects of Job Loss Compensation for Airline Employees, EPO 85-4, February 15, 1985. Published at 26 *International Journal of Transport Economics* 35 (1989).
- 39. Clarke, Richard N., and Robert E. Baldwin, Game Modelling the Tokyo Round of Tariff Negotiations, EPO 85-3, February 14, 1985. Published at 9 *Journal of Policy Modeling* 257 (1987).
- 38. McFarland, Henry, Ramsey Pricing of Inputs With Downstream Monopoly Power and Regulation: Implications for Railroad Rate Setting, EPO 85-2, February 8, 1985. Published at 20 *Journal of Transport Economics and Policy* 81 (1986).
- 37. Clarke, Richard, Unilateral Announcement of Information in Stochastic Duopoly, EPO 85-1, January 30, 1985. Published in Horst Albach, Jim Y. Jin, and Christoph Schenk, eds., *Collusion through Information Sharing? New Trends in Competition Policy* (1996)
- 36. Pittman, Russell, Tying Without Exclusive Dealing, EPO 84-13, September 20, 1984. Published at 30 *Antitrust Bulletin* 279 (1985).
- 35. Schwartz, Marius, Welfare Effects of Exit-Inducing Innovations, EPO 84-12, September 10, 1984.
- 34. Werden, Gregory J., and Michael A. Williams, Can the Concentration-Collusion Hypothesis be Refuted Empirically?, EPO 84-11, September 8, 1984. Published at 30 *Economics Letters* 253 (1989).
- 33. Schwartz, Marius, and Robert J. Reynolds, On the Limited Relevance of Contestability Theory, EPO 84-10, September 6, 1984.
- 32. Werden, Gregory J., A Closer Analysis of Antitrust Markets, EPO 84-9, July 16, 1984. Published at 62 *Washington University Law Quarterly* 647 (1985).
- 31. Simon, Marilyn J., Product Quality and the Allocation of Legal Costs, EPO 84-8, May 22, 1984.

- 30. Allen, Robin L., The Physician-Gatekeeper Concept as a Cost Containment Device: The United Healthcare Experience, EPO 84-7, May 21, 1984.
- 29. Clarke, Richard N, The Profitability of Exclusive Distribution Territories: A Direct Market Test, EPO 84-6, May 18, 1984.
- 28. Brennan, Timothy J., *Harper & Row v. The Nation*: Copyrightability and Fair Use, EPO 84-5, May 11, 1984. Published at 33 *Journal of the Copyright Society of the USA* 368 (1986).
- 27. Schwartz, Marius and Maxim Engers, Signalling Equilibria Based on Sensible Beliefs: Limit Pricing Under Incomplete Information, EPO 84-4, May 11, 1984.
- 26. Clarke, Richard N., Endogenous Mergers in Stochastic Cournot-Nash Oligopoly, EPO 84-3, March 23, 1984.
- 25. Werden, Gregory J., Is There a Principle For Defining Industries?: Comment, EPO 84-2, February 17, 1984. Published at 52 *Southern Economic Journal* 532 (1985).
- 24. Brennan, Timothy J., and Sheldon Kimmel, Joint Production and Monopoly Extension Through Tying, EPO 84-1, November 28, 1983. Published at 53 *Southern Economic Journal* 490 (1986).
- 23. Hall, William P., The Learning Curve, Industry Equilibrium, and Economic Performance, EPO 83-15, October 24, 1983.
- 22. Tenth Anniversary Seminar on Economics and Antitrust (Afternoon Session): Kauper, Thomas E., The Role of Economic Analysis in the Antitrust Division Before and After the Establishment of the Economic Policy Office: A Lawyer's View; Hay, George A., Pigeonholes in Antitrust, EPO 83-14, October 19, 1983. All published in 29 Antitrust Bulletin (1984).
- 21. Tenth Anniversary Seminar on Economics and Antitrust (Morning Session): Elzinga, Kenneth G., A Short Story on Cartels; Weiss, Leonard W., Winning Bids in Five Types of Auctions: Concentration Matters; Williamson, Oliver E., Credible Commitments: Using Hostages to Support Exchange, EPO 83-13, October 19, 1983. All published in 29 Antitrust Bulletin (1984).
- 20. Williams, Michael A., Empirical Tests of Traditional and Game Theoretic Pricing Rules: The Distribution of Overhead Costs in Multiple Purpose River Developments, EPO 83-12, September 1, 1983. Published at 33 *Behavioral Science* 224 (1988).
- 19. Kimmel, Sheldon, A Note on Extraction with Nonconvex Costs, EPO 83-11, August 29, 1983. Published at 92 *Journal of Political Economy* 1158 (1984).
- 18. Werden, Gregory J., and Marius Schwartz, *Illinois Brick* and the Deterrence of Antitrust Violations, EPO 83-10, July 25, 1983. Published at 35 *Hastings Law Journal* 629 (1984).
- 17. Brennan, Timothy J., Municipal Antitrust Liability—An Economic Perspective, EPO 83-9, May 26, 1983. Published under a different title at 12 *Fordham Urban Law Review* 405 (1984).
- 16. McGuckin, Robert, and Russell Pittman, Deterrence and Compensation Under the *Illinois Brick* Rule, EPO 83-8, May 4, 1983.
- 15. Johnson, Richard L., Networking and Market Entry in the Airline Industry: Some Evidence on the Inefficiencies Introduced by Regulation, EPO 83-7, March 31, 1983. Published at 19 *Journal of Transport Economics and Policy* 299 (1985).

- 14. Williams, Michael, The "Separable Cost Remaining Benefit" Overhead Cost Allocation Method: A Game Theoretic Perspective, EPO 83-6, March 21, 1983.
- 13. Kimmel, Sheldon, Intransitive Choice and Dependence on "Irrelevant" Alternatives, EPO 83-5, March 17, 1983.
- 12. Hall, William P., The Learning Curve, Demand Growth, and Market Concentration, EPO 83-4, February 11, 1983. Published at 2 *International Journal of Industrial Organization* 147 (1984).
- 11. Joyce, Jon M., Why Do Firms Rely on Barter?, EPO 83-3, January 6, 1983.
- 10. Schwartz, Marius, and Earl A. Thompson, Entry Patterns Under Decreasing Cost Conditions, EPO 83-2, January 3, 1983. Published at 101 *Quarterly Journal of Economics* 307 (1986).
- 9. Brennan, Timothy J., Economic Efficiency and Broadcast Content Regulation, EPO 83-1, January 1, 1983. Published at 35 *Federal Communications Law Journal* 117 (1983).
- 8. Schwartz, Marius, and David Eisenstadt, Vertical Restraints, EPO 82-8, December 2, 1982. Published by the *National Association of Manufacturers of Germany* (1984).
- 7. Werden, Gregory J., Market Delineation and the Justice Department's Merger Guidelines, EPO 82-7, December 1, 1982. Published at 1983 *Duke Law Review* 514.
- 6. Downing, Paul B., and Lawrence J. White, Innovation in Pollution Control, EPO 82-6, October 22, 1982. Published at 13 *Journal of Environmental Economics and Management* 18 (1986).
- 5. Pittman, Russell W., Predatory Investment: *U.S. v. IBM*, EPO 82-5, October 15, 1982. Published at 2 *International Journal of Industrial Organization* 341 (1984).
- 4. Pittman, Russell W., Multilateral Productivity Comparisons with Undesirable Outputs, EPO 82-4, September 16, 1982. Published at 93 *Economic Journal* 883 (1983).
- 3. Reynolds, Robert J., and Bruce R. Snapp. The Economic Effects of Partial Equity Interests and Joint Ventures, EPO 82-3, August 3, 1982. Published at 4 *International Journal of Industrial Organization* 141 (1986).
- 2. Pittman, Russell, and Edgar Norton, Internal Organization and Economic Performance: A Comment, EPO 82-2, July 28, 1982. Published at 3 *Review of Industrial Organization* 1 (1988).
- 1. Schwartz, Marius, and Robert Reynolds, Contestable Markets: An Uprising in the Theory of Industrial Structure: Comment, EPO 82-1, June 17, 1982. Published at 73 *American Economic Review* 488 (1983).

Individual copies of papers are available free of charge from:

Regina L. Robinson Economic Analysis Group 450 5th Street, NW Washington, DC 20530 Phone: 202-307-5794

e-mail: Regina.Robinson@usdoj.gov