EXHIBIT 12

Case No. C 07 0943 WHA

Parrish v. National Football League Players Association, et al.

DECLARATION OF ROGER NOLL

I, Roger Noll, hereby declare as follows:

- 1. I am Professor Emeritus of Economics at Stanford University, a Senior Fellow in the Stanford Institute for Economic Policy Research (SIEPR), and Co-Director of the SIEPR Program in Regulatory Policy. My education includes a B. S. with honors in mathematics from the California Institute of Technology and a Ph. D. in economics from Harvard University. My curriculum vitae is attached as Exhibit 1.
- 2. My primary area of scholarship is the field of industrial organization, which includes the economics of antitrust, regulation, and specific industries. I have taught these subjects at both the undergraduate and graduate level. I am the author, co-author or editor of thirteen books, and the author or co-author of over 300 articles. Much of my research for the past forty years has focused on the economics of sports.
- 3. I have served as a consultant to the Antitrust Division of the U.S. Department of Justice, the U. S. Federal Trade Commission, the U. S. Federal Communications Commission, and the Senate Subcommittee on Antitrust and Monopoly. I also have participated on committees of the National Research Council that investigated intellectual property and licensing issues associated with the digital revolution, including the Committee on Intellectual Property Rights and the Emerging Information Infrastructure and the Board on Science, Technology and Economic Policy. I have served as an economic expert in previous litigation, some of which involved the economics of sports and entertainment and the licensing of intellectual property.
- 4. I have been asked by the Defendants to submit an expert report in this case. I submit this Declaration in support of Defendants' Motion for Summary Judgment on the issue of economic injury. This declaration focuses on the issues in my report that are relevant to determining whether the class plaintiffs suffered injury.
- 5. I have examined the evidence submitted by Plaintiffs and their experts and have found no evidence of economic injury to individual class members.

7. The report of plaintiffs' damages expert, Mr. Rowley, contains an exhibit listing a total of 2,109 players who signed GLAs for at least part of this period. In fact, because some names are listed twice, the actual number is 2,095. The records of the defendants indicate that 1,716 received no licensing income during that time. Of the 379 players who received payments, 32 received \$25 or less, and another 33 received between \$25.01 and \$500. Ten players accounted for approximately 44 percent of the total payments to all retired players during this period. The top one hundred retired players received over 90 percent of payments, while 179 of the 379 players received only one percent.

Table 1: Distribution of Licensing Payments among

Members of the GLA Class, 2003-early 2008

Range of Payments (\$)	Number of Players
None	1,716
.01 - 25.00	32
25.01 - 250.00	15
250.01 - 500.00	18
500.01 - 1000.00	58
1000.01 - 10000.00	154
10000.01 - 50000.00	69
50000.01+	33
Total	2,095

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Table 2: Distribution of Licensing Revenues among Members of the GLA Class

Revenue Rank Range	Amount Paid (\$1000)	Fraction of Total
Top Ten	3,437	.44
11- 20	1,164	.15
21- 50	1,595	.20
51-100	944	.12
101-200	541	.07
201-379	163	.02
All	7,844	1.00

- 8. I have also examined the distribution of licensing income among retired players according to the player's years of service in the NFL. I have discovered that over 90 percent of all royalty income is accounted for by players with careers of seven or more years. The median career length in the NFL is about three years. Thus, for players to have a significant market value in licensing, they must have long, successful NFL careers that cause them to be known and recognized by fans. The notion that all class members contributed equally to building the value of the NFL has no basis in economic reality.
- 9. Plaintiffs allege that the defendants have not exercised good faith effort to maximize licensing revenues for retired players. One plausible interpretation of the harm that retired players claim to have suffered is that the players who receive little or no licensing income from the defendants would have received significant income but for the defendants' behavior. However, the economic evidence indicates that the cause of little or no licensing income for the vast majority of retired players is a lack of demand for their services.
- 10. The GLA for retired players is a non-exclusive license, so that others are free to exploit opportunities for profitable licensing of the names and images of all retired players, including the vast majority who receive little or no income from the defendants' licensing program. There is no plausible reason why the players who receive no income from the defendants would be unwilling to let someone else try to generate income for them. Nevertheless, no entity has emerged that has successfully marketed licenses for these players. I have not been able to locate in publicly available sources any examples of group licenses for

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retired players other than stars. For example, the exclusive license between NFLPI and EA for computer games left an opportunity for another entity to assemble licenses for retired players for a competing game. In fact, All-Pro Football 2k8 was released by Take-Two Interactive Software, Inc. in July 2007. This game features 240 retired NFL players. Fans who purchase the game can organize these players into fictional pro teams that can then play against each other. Thus, while star players have been licensed outside the defendants' licensing program, the vast majority of retired players have not.

- 11. The fact that there is no demand for licensing rights to most retired players is explained by the diversity in playing careers among them. Roughly half of all players who ever appear on an active NFL team roster have careers that last three or fewer years. These players typically do not play regularly and so do not develop substantial name recognition as professional football players. When these players retire, they have no value to licensees because their anonymity among sports fans makes their images of no value to potential licensees.
- 12, To summarize, there has been no evidence submitted by Plaintiffs that all, or even most, individual GLA class members have any positive economic value in their licensing rights. Nor is there any evidence that those class members who did have a positive value did not receive proper compensation from defendants through the licensing funds that were distributed to retired players. All of the evidence cited by plaintiffs' experts in their reports is inconsistent with the idea that the economic value of the licensing rights for all, or most, of the GLA class members is positive. Thus, there is no basis to find economic injury from this record.

I declare under penalty of perjury under the laws of the United States of America that the foregoing is true and correct.

Dated: June 12, 2008

EXHIBIT 1

CURRICULUM VITAE ROGER G. NOLL

PERSONAL

Date and Place of Birth: March 13, 1940; Monterey Park, California

EDUCATION

East High School, Salt Lake City, Utah, 1958 B.S. (Math, Honor), California Institute of Technology, 1962 A.M., Ph.D. (Economics), Harvard University, 1965, 1967

SCHOLARSHIPS, FELLOWSHIPS AND AWARDS

National Merit Scholarship 1958-62 National Defense Education Act Fellowship 1962-66 (declined) Harvard Prize Fellowship 1962-63 National Science Foundation Fellowship 1963-64 Guggenheim Fellow 1983-84 Rhodes Prize for Undergraduate Teaching, Stanford University, 1994

POSITIONS HELD

Teaching Fellow, Harvard University, 1964-65

Instructor, California Institute of Technology, 1965-67

Assistant Professor, California Institute of Technology, 1967-69

Senior Staff Economist, Council of Economic Advisers, 1967-68

Associate Professor, California Institute of Technology, 1969-71

Senior Fellow and Co-director of Brookings Studies in the Regulation of Economic Activity, Brookings Institution, 1970-73

Professor, California Institute of Technology, 1973-82

Visiting Professor, Graduate School of Business, Stanford University, 1976-77

Chairman, Division of the Humanities and Social Sciences, California Institute of Technology, 197882

Reuben Gustavson Lecturer, University of Chicago, April 1981

Institute Professor of Social Sciences, California Institute of Technology, 1982-84

Donald Gilbert Memorial Lecturer, University of Rochester, December 1982

Fellow, Center for Advanced Study in the Behavioral Sciences, 1983-84

Professor of Economics, Stanford University, 1984-2006 (Emeritus 2006-)

Visiting Scholar, Hoover Institution, 1984-85

Professor by Courtesy, Department of Political Science, Stanford University, 1985-2006

Professor by Courtesy, Graduate School of Business, Stanford University, 1986-2006

Veblen-Clark Lecturer, Carleton College, May 1986

Director, Public Policy Program, Stanford University, 1986-2002

David Kinley Lecturer, University of Illinois, May 1987

Sunderland Fellow, Law School, University of Michigan, Fall 1988

Morris M. Doyle Centennial Professor in Public Policy, Stanford University, 1990-2002

Jean Monnet Professor, European University Institute, Spring 1991

Associate Dean, Humanities and Sciences, Stanford University, 1991-92

Visiting Professor, University of California, San Diego, 1993

Visiting Fellow, Brookings Institution, 1995-96

Nonresident Senior Fellow, Brookings Institution, 1996-99

Director, American Studies Program, Stanford University, 2001-02

Visiting Scholar, London School of Economics, Spring 2001 and Spring 2002.

Director, Stanford Center for International Development, 2002-06

TEACHING EXPERIENCE

<u>Undergraduate</u>: Introductory Economics, Intermediate Microeconomic Theory, Introduction to Econometrics, Antitrust and Regulation, Economic History of Medieval Europe, History of Economic Thought, Economic Policy Analysis, Politics of Economic Policy, Economics of Sports, Political Economy of the West

<u>Graduate</u>: Antitrust and Regulation, Economic Policy Analysis, Applied Microeconomic Theory, Experimental Economics

RESEARCH INTERESTS

Antitrust and Regulation, Technology Policy, Political Economics, Political Economy of Law

MEMBERSHIP ON BOARDS AND COMMITTEES

President's Task Force on Communications Policy (CEA Staff Representative and Alternate Member), 1967-68

President's Task Force on Suburban Problems, 1968

President's Committee on Urban Housing, 1968

Department of Commerce Technical Advisory Board Panel on Venture Capital, 1968-69

Committee on the Multiple Uses of the Coastal Zone, National Council on Marine Resources and Engineering, 1968

Secretary, President's Interagency Task Force on Income Maintenance, 1968

Task Force on Application of Economic Analysis of Transportation Problems, National Research Council, 1970-73

Committee on Technological Forecasting on Behalf of the Environment, Office of Science and Technology, 1970-71

Board of Economic Advisers, Public Interest Economics Foundation, 1974-84

Executive Committee, Caltech Environmental Quality Laboratory, 1970-71

Faculty Board, Caltech, 1974-76

Advisory Commission on Regulatory Reform, Senate Committee on Government Operations, 197577

Chair, Fourth Annual Telecommunications Policy Research Conference, 1975-76

Committee on Satellite Communications, National Academy of Sciences, 1975-76

Advisory Council, Jet Propulsion Laboratory, 1976-82

Chair, Committee to Monitor the Desegregation Plan of the Los Angeles Unified School District, Los Angeles Superior Court, 1978-79

Advisory Council, National Aeronautics and Space Administration, 1978-81

Advisory Council, National Science Foundation, 1978-89

Board of Advisers, National Institute of Economics and Law, 1978-84

Research Advisory Board, Committee for Economic Development, 1979-82

President's Commission for a National Agenda for the Eighties, 1980

Board of Directors, Economists, Inc., 1981-

Review Panel, NSF Regulation and Public Policy Program, 1981-84

Board of Editors, Journal of Economic Literature, 1981-90

Advisory Board, Solar Energy Research Institute, 1982-91

Board of Directors, Cornell Pelcovits and Brenner, Inc., 1982-1988

Chair, Advisory Panel on Information Technology R&D, Office of Technology Assessment, 198384

Supervisory Board of Editors, Information Economics and Policy, 1982-88

Advisory Committee on Integrated Environmental Management Program, Environmental Protection Agency, 1983-85

Boards and Committees, cont'd

Commission on Behavioral and Social Sciences and Education, National Research Council, 198490

Advisory Panel, NSF Policy Research and Analysis Division, 1984

Director, Program on Regulatory Policy, Stanford Institute for Economic Policy Research, 1984

Panel on Clean Air, Science Advisory Board, Environmental Protection Agency, 1985-86

Board of Editors, Review of Economics and Statistics, 1985-2002

Contributing Editor, Regulation, 1986-93

Energy Research Advisory Board, Department of Energy, 1986-89

President & Chairman of the Board, Telecommunications Policy Research Foundation, 1986-87

Coordinating Editor, Information Economics and Policy, 1988-92

Board of Directors, International Telecommunications Society, 1988-92

Advisory Board of Editors, Journal of Risk and Uncertainty, 1988-

Acid Rain Advisory Committee, Environmental Protection Agency, 199091

Secretary of Energy Advisory Board, 1990-95

International Board of Editors, International Journal of the Economics of Business, 1993-

Faculty Senate, Stanford University, 1993-95, 98-02, 04-06

California Council on Science and Technology, 1995-2001

Panel on Universities, President's Committee of Advisors on Science and Technology, 1996

Committee on Intellectual Property and the Information Infrastructure, National Research Council, 19979

Board of Editors, Journal of Sports Economics, 1999-

Board of Associate Editors, Economics of Governance, 1999-

Board of Advisors, American Antitrust Institute, 2000-

Board on Science, Technology and Economic Policy, National Research Council, 2000-2006

SPONSORED RESEARCH

"Opinions of Policemen." International Association of Chiefs of Police, 1969

"Studies in the Regulation of Economic Activity." Brookings Institution and Ford Foundation, 1970-3

"Government Policies and Technological Innovation." National Science Foundation National R&D Assessment Program, 1973-4

"The Social Consequences of Earthquake Prediction," National Aeronautics and Space Administration, 1974-6

"Nuclear Safety Regulation." National Science Foundation RANN Program, 1975-7

"The Public Television Station Program Cooperative." National Science Foundation RANN Program, 1975-7

"The Station Allocation Game." Federal Communications Commission, 1977

"Energy Policy Studies." Various donors, 1978-84

"Economics of Oil Leasing" and "Issues in Utility Pricing." Department of Energy, 1978-9

"The Economics of Boxing, Wrestling and Karate." California Athletic Commission, 1978

"Implementing Tradable Emissions Permits." California Air Resources Board, 1979-82

"Social Science and Regulatory Policy." National Science Foundation, 1980-2

"The Political Economy of Public Policy." National Science Foundation and Center for Economic Policy Research, Stanford University, 1983-4

"SIEPR Program on Regulatory Policy." various donors, 1987-

"The Economics of Research Universities and Scholarly Communication." Brown Center for Education Policy, Brookings Institution, 1995-6

"Coordination of Regulatory Reform," Organization for Economic Cooperation and Development, 1996

"The Future of the Research University," Carnegie Foundation, 1996

"SCID Program in Economic Policy Reform," Various donors, 2002-06

Boards and Committees, cont'd

CONSULTING

Special Assistant to the President, Ford Foundation, 1969

Space Technology Applications, Jet Propulsion Laboratory, 1969

Panel on the Abatement of Particulate Emissions, National Research Council, 1971

Sloan Commission on Cable Communications, 1971

President's Commission on Government Procurement, 1971

Senate Antitrust Subcommittee, 1971-72

MCI, Inc., 1972-73, 1983, 1986

National Science Foundation, 1973, 1975

Department of Justice, Antitrust Division, 1974-77, 1979-81, 1993-97

Internal Revenue Service, 1976-77

RAND Corporation, 1974-82

Los Angeles Lakers, 1974-75

National Football League Players Association, 1974-76, 1987-93.

Office of Telecommunications Policy, 1975-77

National Basketball Association Players Association, 1975-76, 1987-88, 1994

Naval Ordnance Test Station, 1975

Commission on Law and the Economy, American Bar Association, 1977-78

Aspen Institute Program on Communications and Society, 1977

National Commission on Electronic Funds Transfer, 1977

Business Round Table, 1978

Federal Communications Commission, 1977-81

Food and Drug Administration, 1978

Carnegie Commission on the Future of Public Broadcasting, 1978

Department of Energy, 1979

Office of Technology Assessment, 1980

Kerr-McGee Corporation, 1980

CBS, Inc. 1982-83

Environmental Protection Agency, 1982-83

Showtime/The Movie Channel, 1983, 1985

Harlequin Books, 1984

Lake Huron Broadcasting, 1984

National Collegiate Athletics Association, 1984

National Medical Enterprises, 1985, 1987-88

Camilla City Telecasters, 1985-86

Brown and Root, Inc., 1985-86

McDermott, Inc., 1985-86

Major League Baseball Players Association, 1985, 1994

United Cable Television and American Television and Communications, 1985

United States Football League, 1985-86

City of Anaheim, 1986

Technicolor, 1986

Metro-Mobile, 1986-89

Hewlett-Packard, 1986-1990, 1991

Echostar, 1987, 1994-95, 2002-03, 2004-05

Continental Airlines, 1987-88

Home Box Office, 1988-89

Bell South Cellular, 1989

Boards and Committees, cont'd

Western Union, 1989

Minnesota Twins, 1989

Northwest Airlines, 1989

Pepsico, 1989

Yellow Phone, 1989-91

Dialog, 1990-91

California Public Utilities Commission, 1989-90

American Newspaper Publishers Association, 1990

Humana, 1990-91

Powell, Goldstein, Frazer and Murphy, 1990-93

South Coast Air Quality Management District, 1990-91

Federal Trade Commission, 1990-91

Delta Airlines, 1991

California Cable Television Association, 1991

Bureau of Competition Policy, Government of Canada, 1991

R&D Business Systems, et al. 1991-95

International Entertainment Group, 1992-93

Nike, Inc., 1992

World Bank, 1992-

Gemini, Inc. 1992-94

Servicetrends, Inc., 1993-94

William Sullivan, 1993-95

Sure Safe Industries, 1993

Department of Justice, Civil Division 1994-95

Kopies, Inc., et al. 1995-1999

Telecom Technical Services, et al., 1995-1999

Digital Distribution, Inc., 1996-1999

Silvey, et al., 1996-2000

Aguillar, et al. 1996-2000

Wadley Medical Center, 1997-2001

Oakland Raiders, 1997-2000

Major League Soccer Players Association, 1997-2000

Class Plaintiffs, Brand Name Prescription Drugs Litigation, 1998-9

Class Plaintiffs, Compact Disc Litigation, 1999-2005

Class Plaintiffs, State Microsoft Antitrust Litigation (California, Iowa, Minnesota, New York), 2000-2007

Kingray, 2000

Napster, 2000-1

Metropolitan Intercollegiate Basketball Association, 2002-5

Congressional Budget Office, 2002

Pioneer and Scientific Atlanta, 2002-3

Lenscrafters, 2003-4

Seven Network, 2003-7

City of San Diego, 2003

Sports Car Clubs of America, 2003-05

Intertainer, 2003-05

Class Plaintiffs, DRAM Antitrust Litigation 2005-7

Class Plaintiffs, Honeywell Antitrust Litigation, 2005-

Class Plaintiffs, Tableware Antitrust Litigation, 2005-7

Class Plaintiffs, White, et al., v. NCAA, 2006-8

Sirius Satellite Radio and XM Satellite Radio, 2006-7

Consultiing, cont'd

Class Plaintiffs, Cartier Antitrust Litigation, 2006-8 Monte Carlo Country Club and Socièté Monégasque pour l'Exploitation du Tournai de Tennis, 2007 Pearle Vision, Inc., 2007-8

BOOKS AND MONOGRAPHS

Reforming Regulation: An Evaluation of the Ash Council Report Brookings Institution, 1971.

<u>Economic Aspects of Television Regulation</u>, co-authors Merton J. Peck and John J. McGowan. Brookings Institution, 1973. Winner, National Association of Educational Broadcasters Annual Book Award, 1974.

Government and the Sports Business, editor. Brookings Institution, 1974.

The Political Economy of Deregulation, co-author Bruce Owen. American Enterprise Institute, 1983.

Regulatory Policy and the Social Sciences, editor. University of California Press, 1985.

The Technology Pork Barrel, co-author Linda R. Cohen. Brookings Institution, 1991.

The Economics and Politics of Deregulation. European University Institute, 1991.

Constitutional Reform in California: Making State Government More Effective and Responsive co-editor Bruce E. Cain. University of California Institute of Governmental Studies, 1995.

Sports, Jobs, and Taxes, co-editor Andrew Zimbalist. Brookings Institution, 1997.

Challenges to Research Universities, editor. Brookings Institution, 1998

A Communications Cornucopia, co-editor Monroe E. Price. Brookings Institution, 1998.

<u>The Economics and Politics of the Slowdown in Regulatory Reform</u> AEI Press, 1999. Available at: www.aei.brookings.org/publications/index.php?tab=author&authorid=14.

<u>The Digital Dilemma</u>, co-authors 17 other members of Committee on Intellectual Property Rights and the Emerging Information Infrastructure. National Academy Press, 2000.

Bridging the Digital Divide, editor. California Council on Science and Technology, 2001. Available at: http://www.ccst.us/publications/2001/2001Digital.pdf.

ARTICLES IN SCHOLARLY PUBLICATIONS

"Urban Concentration: Prospects and Implications." In <u>Increasing Understanding of Public Problems and Policies</u>. Farm Foundation, 1969.

"Metropolitan Employment and Population Distribution and the Conditions of the Urban Poor." In Financing the Metropolis: Public Policy in Urban Economics The Urban Affairs Annual Reviews, IV, John P. Crecine, ed. Sage Publications, 1970. Brookings Reprint No. 184.

"National Communications Policy: Discussion-Spectrum Allocation Without Markets." <u>American</u> Economic Review 60(2) (May 1970).

"The Behavior of Regulatory Agencies." <u>Review of Social Economics</u> 24(1) (March 1971): 15-19. Brookings Reprint No. 219 (November 1971).

"Summary and Conclusions," co-author William Capron. In <u>Technological Change in Regulated Industries</u>, William Capron, ed. Brookings Institution, 1971.

"The Nature and Causes of Regulatory Failure." Administrative Law Review 23(4) (June 1971): 424-437.

Revised version published as "The Economics and Politics of Regulation." <u>Virginia Law Review</u> 57(6) (September 1971): 1016-1032.

"Mass Balance, General Equilibrium and Environmental Externalities," co-author, John Trijonis. American Economic Review 61(4) (September 1971): 730-735.

"Selling Research to Regulatory Agencies." In <u>The Role of Analysis in Regulatory Decisionmaking: The Case of Cable Television</u>, Rolla Edward Park, ed. Heath-Lexington, 1973.

"Relative Prices on Regulated Transactions of the Natural Gas Pipelines," co-author Paul W. MacAvoy. Bell Journal of Economics and Management Science 4(1) (Spring 1973): 212-234.

"Regulating Prices in Competitive Markets," co-author Lewis A. Rivlin. <u>Yale Law Journal</u> 82(7) (June 1973): 1426-1434.

"The U.S. Team Sports Industry." <u>In Government and the Sports Business</u>, Roger G. Noll, editor. Brookings Institution, 1974. Abridged version reprinted in <u>Public Policies Toward Business</u>: Reading and Cases, William G. Shephard, ed. Irwin, 1975.

"Attendance and Price Setting." In <u>Government and the Sports Business</u>, Roger G. Noll, ed. Brookings Institution, 1974. Reprinted in <u>The Economics of Sport</u>, Andrew Zimbalist, ed. Edward Elgar, 2001.

"Alternatives in Sports Policy." In <u>Government and the Sports Business</u>, Roger G. Noll, ed. Brookings Institution, 1974. Abridged version in <u>Public Policies Toward Business: Readings and Cases</u>, William G. Shephard, ed. Irwin 1975. Revised version in <u>Handbook of Social Science of Sport</u>, Gunther R. R. Luschen and George H. Sage, eds. Stripes Publishing Co., 1980.

"The Social Costs of Government Intervention." In <u>The Business-Government Relationship in American Society: Reassessment</u>, Neil H. Jacoby, editor. University of California Press, 1975.

"The Consequence of Public Utility Regulation of Hospitals." In <u>Controls on Health Care</u>. Washington, D.C.: National Academy of Sciences, 1975.

"Information, Decision-Making Procedures and Energy Policy." <u>American Behavioral Scientists</u>, Vol. 19, No. 3 (January/February 1976): 267-278. Reprinted in <u>Current Issues in Social Policy</u>, W. B. Littrell and G. Sjoberg, eds. Sage, 1976.

"Breaking Out of the Regulatory Dilemma: Alternatives to the Sterile Choice." <u>Indiana Law Journal</u> 51(3) (Spring 1976): 686-699. Reprinted in <u>Corporate Practice Commentator</u> 19(1) (Spring 1977): 99-114.

"Safety Regulation," co-authors Nina Cornell and Barry Weingast. In Setting National Priorities: The

Next Ten Years, Henry Owen and Charles L. Schultze, eds. Brookings Institution, 1976.

"Major League Team Sports." In <u>The Structure of American Industry</u>, Walter Adams, ed. 5th ed. Macmillan, 1977. 6th ed. Macmillan, 1981.

"An Experimental Market for Public Goods: The PBS Program Cooperative," co-author John A. Ferejohn. American Economic Review Papers and Proceedings 66(2) (May 1976): 267-273.

"Government Policy and Technological Innovation: Where Do We Stand and Where Do We Go?" In Innovation, Economic Change and Technology Policies, K.A. Stroetmann, ed. Birkauser-Verlag, 1977.

"Economic Policy Research on Cable Television: Assessing the Costs and Benefits of Cable Deregulation," co-authors S. M. Besen, B. M. Mitchell, B. M. Owen, R. E. Park, and J. N. Rosse. In <u>Deregulation of Cable Television</u>, Paul W. MacAvoy, ed. American Enterprise Institute, 1977.

"The Economic Implications of Regulation by Expertise: The Case of Recombinant DNA Research," coauthor Paul A. Thomas. In Research with Recombinant DNA. National Academy of Sciences, 1977.

"The Dilemma of Consumer Advocacy." In <u>Regulatory Reform</u>, W.S. Moore, ed. American Enterprise Institute, 1978.

"Uncertainty and the Formal Theory of Political Campaigns," co-author John A. Ferejohn. <u>American Political Science Review</u> 72(2) (June 1978): 492-505.

"Voters, Bureaucrats and Legislators: A Rational Choice Perspective on the Growth of Bureaucracy," co-author Morris P. Fiorina. Journal of Public Economics 9(3) (May 1978): 239-254.

"Public Utilities and Solar Energy Development--Institutional Economic Considerations." In <u>On the Economics of Solar Energy</u>, Stephen L. Feldman and Robert M. Wirtshafter, eds. D.C. Heath, Lexington books, 1980. Extended version in <u>The Solar Market: Proceedings of the Symposium on Competition in the Solar Industry</u>. Federal Trade Commission, 1978.

"The Rationale for Mandated Cost Increases." In <u>Economic Effects of Government-Mandated Costs</u>, Robert F. Lanzillotti, ed. University Presses of Florida, 1978.

"An Experimental Analysis of Decisionmaking Procedures for Discrete Public Goods: A Case Study of a Problem in Institutional Design," co-authors John A. Ferejohn and Robert E. Forsythe. In Research in Experimental Economics, Vol. I, Vernon L. Smith, ed. JAI Press, 1979.

"Voters, Legislators and Bureaucracy: Institutional Design in the Public Sector," co-author Morris P. Fiorina. <u>American Economic Review Papers and Proceedings</u> 68(2) (May 1978): 256-260. Translated into Italian in <u>Problemi Di Amministrazione Pubblica</u> 4(2) (1979): 69-89.

"Regulation and Computer Services." In <u>The Computer Age</u>, Michael L. Dertouzos and Joel Moses, eds. MIT Press, 1979: 254-284.

"Practical Aspects of the Construction of Decentralized Decisionmaking Systems for Public Goods," coauthors John A. Ferejohn and Robert Forsythe. In <u>Collective Decisionmaking</u>, Clifford S. Russell, ed. Resources for the Future, 1979.

"Majority Rule Models and Legislative Elections," co-author Morris P. Fiorina. <u>Journal of Politics</u>, Vol. 41, No. 4 (November 1979): 1081-1104.

"Regulatory and Nonregulatory Strategies for Controlling Health Care Costs," co-author Alain Enthoven. In Medical Technology: The Culprit Behind Health Care Costs, Stuart H. Altman and Robert Blendon, eds.

Sun Valley Forum on National Health. U.S. Department of Health, Education and Welfare Publication No. (PHS) 79-3216, 1979.

"The Game of Health Care Regulation: Comments on Feldman/Roberts." In <u>Issues in Health Care</u> Regulation, Richard S. Gordon, ed. McGraw-Hill Book Co., 1980.

"Discussion: Regulatory Institutions in Historical Perspective." <u>American Economic Review</u> 70(2) (May 1980): 316-317.

"The Economics of Disaster Defense: The Case of Building Codes to Resist Seismic Shock," co-author Linda Cohen. <u>Public Policy</u> 29(1) (Winter 1981): 1-29. Reprinted in <u>The Economics of Natural Disasters</u>, Vol. I, Howard Kunruether and Adam Rose, eds. Edard Elgar, 2004.

"Regulation in Theory and Practice: An Overview," co-author Paul L. Joskow. In <u>Studies in Public Regulation</u>, Gary Fromm, ed. MIT Press, 1981.

"Designing a Market for Tradable Emissions Permits," co-author Robert W. Hahn. In <u>Reform of Environmental Regulation</u>, Wesley Magat, ed. Lexington Books, 1982.

"Implementing Marketable Emissions Permits." <u>American Economic Review Papers and Proceedings</u> 72(2) (May 1982): 120-124.

"An Experimental Examination of Auction Mechanisms for Discrete Public Goods," co-authors John A. Ferejohn, Robert Forsythe and Thomas R. Palfrey. In Research in Experimental Economics, Vol. II, Vernon L. Smith, ed. JAI Press, 1982. Reprinted in Experimental Foundations of Political Science, Donald R. Kinder and Thomas R. Palfrey, eds. University of Michigan Press, 1993.

"Implementing Tradable Emissions Permits," co-author Robert W. Hahn. In <u>Reforming Social Regulation</u>, Leroy Graymer and Frederick Thompson, eds. Sage Publications, 1982.

"The Feasibility of Marketable Emissions Permits in the U.S." In <u>Public Sector Economics</u>, Jorg Finsinger, ed. Macmillan Press, Ltd., 1983.

"Barriers to Implementing Tradable Air Pollution Permits: Problems of Regulatory Interactions," co-author Robert W. Hahn. Yale Journal of Regulation 1(1) (1983): 63-91.

"The Future of Telecommunication Regulation." In <u>Telecommunications Today and Tomorrow</u>, Eli Noam, ed. Harcourt Brace Jovanovich, 1983.

"The Case Against the Balanced Budget Amendment: Comments on Aranson and Rabushka." In <u>The Economic Consequences of Government Deficits</u> Laurence H. Meyer, ed. Kluwer-Nyhoff Publishing, 1983.

24.

"The Political Foundations of Regulatory Policy." Zeitschrift für die gesamte Staatswissenschaft (Journal of Institutional and Theoretical Economics) 139(3) (1983): 377-404. Reprinted in Congress: Structure and Policy, Mathew McCubbins and Terry Sullivan, eds. Cambridge University Press, 1987.

"The Regulation of Surface Freight Transportation: The Welfare Effects Revisited," co-author Ronald R. Braeutigam. The Review of Economics and Statistics 66(1) (1984): 80-87.

"Prospective Payment: Will It Solve Medicare's Financial Problem," co-author Alain C. Enthoven. <u>Issues in Science and Technology</u> 1(1) (1984): 111-116. Reprinted in <u>Health Industry Today</u> 48(3) (1985): 16-

"The Preferences of Policy Makers for Alternative Allocations of the Broadcast Spectrum," co-author "Government Regulatory Behavior: A Multidisciplinary Survey and Synthesis." In<u>Regulatory Policy and the Social Sciences</u>, Roger G. Noll, ed. University of California Press, 1985.

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