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Telephone: (408) 535-1900
Facsimile: (408) 998-3131

*Attorneys for Plaintiffs the City of San José; the City of San José,
as successor agency to the Redevelopment Agency of the City of
San José; and the San José Diridon Development Authority*

**IN THE UNITED STATES DISTRICT COURT
FOR THE NORTHERN DISTRICT OF CALIFORNIA
SAN JOSE DIVISION**

**CITY OF SAN JOSÉ; CITY OF SAN
JOSÉ AS SUCCESSOR AGENCY TO
THE REDEVELOPMENT AGENCY OF
THE CITY OF SAN JOSÉ; and THE SAN
JOSÉ DIRIDON DEVELOPMENT
AUTHORITY,**

Plaintiffs,

v.

**OFFICE OF THE COMMISSIONER OF
BASEBALL, an unincorporated association
doing business as Major League Baseball;
and ALLAN HUBER “BUD” SELIG,**

Defendants.

Case No. 13-CV-02787-RMW

**DECLARATION OF EXPERT WITNESS
ROGER G. NOLL IN SUPPORT OF
PLAINTIFFS’ OPPOSITION TO
DEFENDANTS’ MOTION TO DISMISS
PLAINTIFFS’ COMPLAINT UNDER
FEDERAL RULE OF CIVIL PROCEDURE
12(b)(6)**

Hearing	Date: October 4, 2013
Time:	9:00 a.m.
Judge:	Hon. Ronald M. Whyte
Date Filed:	June 18, 2013
Trial Date:	None Set

DECLARATION OF EXPERT WITNESS ROGER G. NOLL

1
2 1. My name is Roger G. Noll. I reside in Palo Alto, California. I am Professor
3 Emeritus of Economics at Stanford University and a Senior Fellow at the Stanford Institute for
4 Economic Policy Research, where I am Co-Director of the Program on Regulatory Policy. My
5 educational background includes a B.S. in mathematics from the California Institute of
6 Technology and a Ph.D. in economics from Harvard University. My complete curriculum vita is
7 attached as **Appendix A**.

8 2. My primary area of scholarship is the field of industrial organization economics,
9 which includes antitrust economics and the economics of specific industries. I have taught
10 antitrust economics at both the undergraduate and graduate levels. I am the author, co-author, or
11 editor of thirteen books, and the author or co-author of over 300 articles. Many of these
12 publications deal with antitrust economics. I also have published extensively on the economics of
13 sports, including *Sports, Jobs and Taxes*, co-edited with Andrew Zimbalist, which deals with the
14 economic impact of sports teams and facilities and for which Professor Zimbalist and I wrote a
15 chapter on the implications of the economic impact of teams and facilities for antitrust policy.

16 3. I have served as a consultant in antitrust litigation, including matters pertaining to
17 sports. I have served as an economic expert for the players’ association in all major U.S. team
18 sports (baseball, basketball, football, hockey, and soccer) on the economic effects of restrictions
19 on competition in markets for the playing services of professional athletes, including testimony at
20 trial in *Freeman McNeil, et al., vs. National Football League* (U.S. District Court, Minnesota) and
21 *John Mackey vs. National Football League* (U.S. district Court, Minnesota). In *Bernard Parrish,*
22 *et al., vs. National Football League Players Association* (U. S. District Court, Northern District of
23 California) I testified on behalf of the players’ association about the value of licensing rights for
24 retired NFL players.

25 4. Other cases in which I have testified at trial in recent years are the following:

- 26 • *In re Application of MobiTV Related to U.S. vs. ASCAP* (U.S. District Court, New
27 York City);

- 1 • *Reggie White, et al., v. NFL: Lockout Insurance & Lockout Loans* (U.S. District Court, Minneapolis);
- 2
- 3 • *SmithKlein Beecham d/b/a GlaxoSmithKline vs. Abbott Laboratories* (U.S. District Court, Northern District of California, Oakland);
- 4
- 5 • *Novell vs. Microsoft* (U. S. District Court, Salt Lake City);
- 6
- 7 • *DVD CCA vs. Kaleidescape* (Superior Court, San Jose); and
- 8 • *In the Matter of Adjustment of Rates and Terms for Pre-existing Subscription and Satellite Digital Audio Radio Service* (Copyright Royalty Board, Washington, D.C.).

9 5. In addition to the cases in which I have testified at trial, I have submitted expert
10 reports and/or been deposed in numerous matters. I have also testified before the U.S. Congress
11 on antitrust and sports matters on numerous occasions.

12 ASSIGNMENT

13

14 6. Attorneys for Plaintiffs have asked me to analyze Plaintiffs' allegations in this
15 matter to determine the economic evidence and analysis that would be used to prove liability in
16 support of their claims. In undertaking this task I have read the Complaint, which was filed on
17 June 18, 2013. I also have read Defendants' Motion to Dismiss, filed on August 7, 2013. Finally,
18 I have made use of information that has been collected from other public sources and my four
19 decades of research on the economics of sports.

20 7. The purpose of this Declaration is to provide a preliminary analysis of the
21 economic issues in this litigation before discovery has taken place. Hence, I reserve the right to
22 revise my analysis and amend my conclusions on the basis of new information that has not yet
23 become available. In particular, I understand that this Declaration is being submitted in
24 connection with settling of the pleadings and that I am not being asked to opine on the merits of
25 the claims. I would like to have the benefits of the complete discovery record before reaching my
26 conclusions on the merits.

ANALYSIS

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3 8. The objective of an antitrust economics analysis of liability is to determine
4 whether conduct by Defendants caused harm to the competitive process. Ultimately, harm to the
5 competitive process means harm to consumers, in this case sports fans. My main conclusion is
6 that preventing the Oakland Athletics baseball team from moving to San Jose causes harm to
7 competition because relocating to San Jose would substantially increase the potential fan base and
8 attendance of the team.

9 9. Major League Baseball (“MLB”) is made up of thirty teams. These teams are
10 economic competitors in many markets, including markets for players, coaches, regional
11 television rights, and product licenses. If teams are geographically close, they also compete for
12 attendance among sports fans in a local area. Presently MLB has local teams that compete for
13 attendance in Baltimore-Washington, Chicago, Los Angeles, New York and the Bay Area.

14 10. Economics research and prior litigation have concluded that each major
15 professional sports league in the U.S., including MLB, possesses market power in the provision of
16 major league games in its sport in North America. Among the ways that MLB exercises its
17 market power is by controlling the number and geographic location of major league baseball
18 teams in North America. MLB has adopted rules that define the “home territory” of each team in
19 the league and that place restrictions on franchise relocation. For now irrelevant historical
20 reasons MLB has placed San Jose in the home territory of the San Francisco Giants, even though
21 a team in San Jose would be less of a direct competitor to the Giants than is a team in Oakland
22 because San Jose is much further than Oakland from the Giants’ home stadium.

23 11. One domain of competition in MLB as well as other professional sports is
24 competition among cities to attract or to retain a team. Economics research shows that the
25 financial success of a baseball team depends on the economic and demographic characteristics of
26 its home territory, the quality of its home stadium, and the financial terms and other arrangements
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1 concerning the stadium. Cities actively compete for baseball teams on the basis of agreements
2 that they offer to a team concerning a home stadium. The alleged anti-competitive conduct in this
3 case is Defendants' inhibition of competition and restraint of trade through the application of
4 restrictions on team relocation which are preventing the City of San José from competing with the
5 City of Oakland for the Athletics Baseball Club (Athletics).

6 12. Economists who have studied the location of teams in a league have concluded that
7 in some circumstances a league has a reasonable business justification for restricting relocation.
8 In particular, because the success of a league depends on the financial success of each team,
9 leagues have a valid interest in assuring that each team will enjoy sufficient popularity in its home
10 territory to be financially viable. This pro-competitive justification does not apply to MLB's
11 refusal to allow the Athletics to move to the City of San José.

12 13. San Jose is much more attractive than Oakland as a home location for a baseball
13 team for several reasons. First, San Jose has a much larger population base, and so substantially
14 greater potential home attendance for a local team. Second, San Jose is located in the Silicon
15 Valley, which is the corporate home to many of the world's leading high technology companies.
16 This feature of San Jose is important because an increasingly important component of the revenue
17 of a major league sports team is the sale of luxury boxes and other reserve seating to corporations,
18 law firms, and wealthy individuals. Third, San Jose has identified and made available to the
19 Athletics a location for a new stadium that will be a substantial improvement over the facility and
20 location where the Athletics currently play. For these reasons San Jose is a much more attractive
21 home territory for the Athletics than Oakland. Moreover, relocation to San Jose is financially
22 attractive to the Athletics precisely because it increases total economic output, which in sports is
23 the number of fans in attendance.

24 14. Competition in the local market for major league baseball would be enhanced if
25 the Athletics relocate to San José. By increasing the potential revenue of the Athletics, relocation
26 to San Jose would increase the financial incentive of the Athletics to field a team of higher
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1 quality. Making the Athletics more competitive would intensify competition between the
2 Athletics and the San Francisco Giants, the other Bay Area major league baseball team.

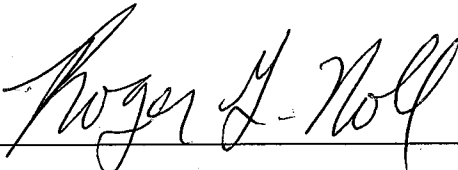
3 15. MLB has not yet set forth its complete business justifications for preventing the
4 movement of the Athletics to San Jose, so a full analysis of this issue is not feasible at this time.
5 In antitrust economics, a restriction on competition can be justified only if it is reasonably
6 necessary to achieve a pro-competitive objective, which is defined as an improvement in
7 performance that benefits consumers. Given that San Jose is substantially more economically
8 attractive than Oakland as a home location for the Athletics, the only plausible reason for
9 preventing relocation of the Athletics to San Jose is to protect the Giants from more intense
10 competition from the Athletics.

11 16. Protecting an incumbent firm from losing business to a more efficient competitor
12 is never a reasonable business justification for a restriction on competition. In this instance, such
13 protection is especially unwarranted. Since moving to their new stadium in downtown San
14 Francisco, the Giants are among the most successful teams in MLB. Indeed, the success of the
15 Giants since relocating to a new and much superior stadium illustrates why the quality and
16 location of a stadium is extremely important to the success of a team. While the Giants will
17 experience more intense competition from the Athletics if the latter move into a much better
18 stadium in San Jose, historical experience with stadium improvements demonstrates that
19 increased attendance at home games of the Athletics will not come at the expense of the Giants,
20 just as the Giants' improved attendance since relocating to downtown San Francisco has not come
21 primarily at the expense of the Athletics.

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I declare that the foregoing is true to the best of my knowledge and belief. Executed on
September 6, 2013 at Stanford, California.



ROGER G. NOLL

APPENDIX A

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, Honors), 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
Distinguished Service Award, Public Utilities Research Center, University of Florida, 2001
Distinguished Lecture Award, Brookings-AEI Joint Center on Regulation and Markets, 2006
Alfred E. Kahn Distinguished Career Award, American Antitrust Institute, 2012
Distinguished Member Award, Transportation and Public Utilities Group, American Economic Association, 2013

POSITIONS HELD

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, 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
Chair, Division of the Humanities and Social Sciences, California Institute of Technology, 1978-82
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

Positions, cont'd

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
Senior Fellow, American Antitrust Institute, 2002-
Director, Stanford Center for International Development, 2002-06
Kim Thomas Lecturer, Whittier College, 2010

TEACHING EXPERIENCE

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

Graduate: 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), 1967-68
President's Task Force on Suburban Problems, 1968
President's Committee on Urban Housing, 1968
President's Task Force on Public Broadcasting, 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 to 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, 1975-77
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

Boards, cont'd

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, 1983-84
Supervisory Board of Editors, Information Economics and Policy, 1982-88
Advisory Committee on Integrated Environmental Management Program, Environmental Protection Agency, 1983-85
Commission on Behavioral and Social Sciences and Education, National Research Council, 1984-90
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, 1990-91
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, 1997-9
Board of Editors, Journal of Sports Economics, 1999-
Board of Associate Editors, Economics of Governance, 1999-
Board of Advisers, American Antitrust Institute, 2000-
Board on Science, Technology and Economic Policy, National Research Council, 2000-2006
Committee on Universal Postal Service, National Research Council, 2008

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

Sponsored Research, cont'd

"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

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 Subcommittee on Antitrust and Monopoly, 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, 2008, 2010-
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
Camellia City Telecasters, 1985-86

Consulting, cont'd

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
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, 2010-
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
U. S. 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, 1999-2003
Class Plaintiffs, State Microsoft Antitrust Litigation (California, Iowa, Minnesota, New York), 2000-2007
Kingray, 2000
Napster, 2000-2

Consulting, cont'd

Metropolitan Intercollegiate Basketball Association, 2002-5
Congressional Budget Office, 2002
Pioneer and Scientific Atlanta, 2002-3
Lencrafters, 2003-4, 2009-12
Seven Network, 2003-7
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, 2011-12
Class Plaintiffs, Cartier Antitrust Litigation, 2006-7
Monte Carlo Country Club and Société Monégasque pour l'Exploitation du Tournoi de Tennis, 2007
Pearle Vision, Inc., 2007-8
Class Plaintiffs, Apple iTunes/iPod Antitrust Litigation, 2007-
Class Plaintiffs, SRAM Antitrust Litigation, 2007-9
Fair Isaac, 2007-9
Houston Baptist University, 2008.
U. S. Department of Justice, U. S. Attorney's Office, San Francisco, 2008-9
Novell, 2008-11
GlaxoSmithKline, 2008-11
Class Plaintiffs, Flash Memory Antitrust Litigation, 2008-10
MobiTV, 2009-10
AT&T, 2009-10
Verizon, 2009-10
Ericsson, 2009-10
Kaleidescape, 2011-12
Class Plaintiffs, Text Messaging Antitrust Litigation, 2011-
Class Plaintiffs, California Automobile Insurance Antitrust Litigation, 2011-
Class Plaintiffs, NCAA Student-Athlete Name and Likeness Licensing Litigation, 2011-

BOOKS AND MONOGRAPHS

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

Economic Aspects of Television Regulation, 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.

Books, cont'd

- 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.
- The Economics and Politics of the Slowdown in Regulatory Reform*. AEI Press, 1999.
- The Digital Dilemma*, 17 co-authors (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.
- Economic Reform in India*, co-editors Nicholas C. Hope, Anjini Kochar, and T.N. Srinivasan. Cambridge University Press, 2013

ARTICLES IN SCHOLARLY PUBLICATIONS

- "Urban Concentration: Prospects and Implications." In *Increasing Understanding of Public Problems and Policies*. 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." *American Economic Review Papers and Proceedings* 60(2) (May 1970).
- "The Behavior of Regulatory Agencies." *Review of Social Economics* 24(1) (March 1971): 15-19. Brookings Reprint No. 219 (November 1971).
- "Summary and Conclusions," co-author William Capron. In *Technological Change in Regulated Industries*, 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." *Virginia Law Review* 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 *The Role of Analysis in Regulatory Decisionmaking: The Case of Cable Television*, 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.

Scholarly Articles, cont'd

- "Regulating Prices in Competitive Markets," co-author Lewis A. Rivlin. *Yale Law Journal* 82(7) (June 1973): 1426-1434.
- "Attendance and Price Setting." In *Government and the Sports Business*, Roger G. Noll, ed. Brookings Institution, 1974. Reprinted in *The Economics of Sport*, Andrew Zimbalist, ed. Edward Elgar, 2001.
- "The U.S. Team Sports Industry." In *Government and the Sports Business*, Roger G. Noll, editor. Brookings Institution, 1974. Abridged version reprinted in *Public Policies Toward Business: Reading and Cases*, William G. Shephard, ed. Irwin, 1975.
- "Alternatives in Sports Policy." In *Government and the Sports Business*, Roger G. Noll, ed. Brookings Institution, 1974. Abridged version in *Public Policies Toward Business: Readings and Cases*, William G. Shephard, ed. Irwin 1975. Revised version in *Handbook of Social Science of Sport*, Gunther R. R. Luschen and George H. Sage, eds. Stripes Publishing Co., 1980.
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