

# Curriculum Vitae

Arthur De Vany

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## Positions

Professor Emeritus of Economics, University of California, Irvine

Chief Scientist, *Arthur De Vany Consulting*

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## Education

Ph.D., Economics, University of California, Los Angeles, 1970.

M. A., Economics, University of California, Los Angeles, 1965.

B. A., Economics, University of California, Los Angeles, 1963.

Legal Institute for Economists, Emory University, 1982.

## Academic Positions

Professor, Department of Economics and Institute for Mathematical Behavioral Sciences, University of California, Irvine, 1984–2003.

Member, Computational Social Science Research Group, UCLA, 2000–2003.

Member, Advisory Board, Center on Governance, UCLA, 2000–2003.

Honorary Member, Board of Directors of the DeSantis Center for Motion Picture Industry Studies, Florida Atlantic University, 2002 to present.

Senior Fellow, DeSantis Center for Motion Picture Industry Studies, Florida Atlantic University, 2002 to present.

## Past Academic and Professional Positions

Associate, Center for Computable Economics, UCLA, 1995–1998.

Professor, University of Houston, University Park, Houston, Texas, 1981–1984.

Professor, Simon Fraser University, Burnaby, B. C., Canada, 1980–1981.

Fellow, University of Chicago, Center for the Study of the Economy and the State, and the Law School, Chicago, Illinois, 1978–1979.

President and cofounder, Resources Research Corporation, College Station, Texas, 1977–1979.

Professor, Department of Economics, Texas A&M University, College Station, Texas, 1977–1979.

Associate Professor, Texas A&M University, Department of Economics, College Station, Texas, 1971–1977.

Economist, TEMPO, Center for Advanced Studies, Santa Barbara, California, 1967–1969.

Lecturer, University of California, Santa Barbara, California, 1967–1969.

Teaching Assistant, University of California, Los Angeles, California, 1967–1969.

Sales representative, Hunt Foods and Industries, Inc., 1958–1961.

Professional Baseball Player, Hollywood Stars, Pacific Coast League, Pittsburgh Pirates Minor League System, 1956–1958.

## National Committees, Advisory Positions

Academic Adviser, Committee on El Toro Airport, 1993.

Coeditor, *Economic Inquiry*. The Journal of the Western International Economic Association, 1981–83.

Vice-Chairman, National Academy of Sciences Committee on the Appraisal of the Societal Consequences of Transportation Noise Abatement, 1975–76.

American Statistical Association Advisory Committee to the Civil Aeronautics Board, 1971.

National Academy of Sciences Jamaica Bay–Kennedy Airport Environmental Study Group, 1971.

Scientific Referee. National Science Foundation, *Operations Research*, *American Economic Review*, *Contemporary Policy Issues*, *Energy Journal*, *Transportation Research*, *Journal of Political Economy*, *Economic Inquiry*, *Southern Economic Journal*, *Journal of Business*, *Review of Economics and Statistics*, *Journal of Economics and Business*, *Quarterly Journal of Economics*, *Rand Journal of Economics*, *Transportation Research*, *Research in Law and Economics*, *Quarterly Journal of Business and Economics*, *Econometrica*, *Journal of Business Economics*, *Journal of Industrial Economics*, *Journal of Law and Economics*, *Public Choice*, *Journal of Finance* and others.

## Consulting to Public Agencies and Associations

National Academy of Sciences.

Court-appointed expert to the US District Court.

Natural Gas Supply Association.

Attorney General of Ohio.

Attorney General of California.

American Dental Association.

Motor Vehicle Manufacturer's Association.

United States Department of State.

United States Air Force, Human Resource Laboratories.

United States Navy.

Department of Transportation, State of Hawaii.

President Lyndon Johnson's Task Force on Telecommunications Policy.

Environmental Protection Agency.

Port of New York Authority.

Federal Trade Commission.

## **Consulting to Corporations and Law Firms**

General Motors.

General Electric.

Shell Oil.

Deep Tech.

Universal Studios.

Warner Brothers.

CBS.

Village Road Show Pictures.

Transco Corporation.

Sempra Energy.

Southern California Gas Corporation.

The Irvine Company.

Fulbright and Jaworsky.

Bracewell and Patterson.

Jones, Day, Reavis and Pogue.

Munger, Tolles.

Katten, Muchin, Katzen, and Rosenberg.

and many others.

## Inventions, Awards, Grants

Who's Who in America, 2006.

Inventor of Extremal Securities, Extremal Security Portfolio, and Extremal Security Exchange.

The Carol and Bruce Mallen Prize for Published Scholarly Contributions to Motion Picture Industry Studies. Carl DeSantis Film Center, Florida Atlantic University, 2001.

Key to the City of Fort Lauderdale, Florida.

Academic Senate Faculty Grant, University of California, 1986.

National Science Foundation, Principal Investigator, 1973-76.

Earhardt Foundation, 1971.

Earhardt Foundation, 1967.

Resources for the Future, 1966.

National Science Foundation, Summer 1965.

## Publications

### Books

1. Arthur De Vany, *Hollywood Economics: How Extreme Uncertainty Shapes the Film Industry*, Routledge (October 2003).
2. Arthur De Vany and Andrew Rettenmaier, *America's Waterways: Public Resources and Private Rights*, Private Enterprise Research Center, Texas A&M University (1998).
3. Arthur De Vany and David Walls, *The Emerging New Order in Natural Gas: Markets versus Regulation*, Quorum Books: Westport, CT (1995).
4. Arthur De Vany, Ross Eckert, Don O'Hara, and Charles Meyers, *A Property System for Market Allocation of the Electromagnetic Spectrum*. The Cato Papers, The Cato Institute, San Francisco, CA (1980).
5. With Board members, *Jamaica Bay and Kennedy Airport*. Environmental Studies Board, National Academy of Sciences, Washington D.C. (1971).

## Articles and Chapters in Books

6. Arthur De Vany, "Imperialism: Some Problems in Meaning and Reference," *Proceedings of the Graduate Academy*, University of California, Berkeley (1964).
7. Arthur De Vany, Ross Eckert, Don O'Hara, and Charles Meyers, "A Property System for Market Allocation of the Electromagnetic Spectrum: A Legal-Economic Study," Reprint of 28 in C. J. Meyers and A. D. Tarlock (eds.), *Water Resources Management: A Casebook in Law and Public Policy*, Mineola, New York: The Foundation Press, Inc. (1971).
8. Arthur De Vany, "Is Efficient Regulation of Air Transportation Possible?" in James C. Miller, III (ed.), *Perspectives in Federal Transportation Policy*, The American Enterprise Institute, Washington D.C. (February 1975).
9. Arthur De Vany, "An Economic Model of an Urban Environment in the Presence of Airport Noise," in S. Y. Lin (ed.), *Theory and Measurement of Economic Externalities*, New York: Academic Press (1976) pp. 205–214.
10. Arthur De Vany and Jon Nelson, "Chapter 7: Monetary Measures of the Benefits of Abatement: Property-Value Analysis," in *Noise Abatement: Policy Alternatives for Transportation. A Report to the U. S. Environmental Protection Agency from the Committee on Appraisal of Societal Consequences of Transportation Noise Abatement*, Assembly of Behavioral and Social Sciences, National Research Council, National Academy of Sciences, Washington D.C. (1977) pp. 126–160.
11. Arthur De Vany, Jon Nelson and Alan Walters, "Chapter 9: Cost-Benefit Analysis: Some Illustrations," in *Noise Abatement: Policy Alternatives for Transportation. A Report to the U. S. Environmental Protection Agency from the Committee on Appraisal of Societal Consequences of Transportation Noise Abatement*, Assembly of Behavioral and Social Sciences, National Research Council, National Academy of Sciences, Washington D.C. (1977) pp. 183–206.
12. Arthur De Vany, Thomas Saving and Don House, "The Role of Patient Time and Utilization of Dental Firm Capacity in the Pricing of Dental Services," in Edwin Mills, ed., *Competition and Regulation in the Health Care Market*, Chicago: Blue Cross/Blue Shield (1983).
13. Arthur De Vany and T. R. Saving, "Quality of Service, Contestable Markets and the Effectiveness of Motor Carrier Rate Bureaus as Cartels," In Arnold Heggstad, editor *Public Policy Toward Corporations*, University Presses of Florida (1988).
14. Arthur De Vany and Thomas Saving, "Product Quality, Uncertainty and Regulation—The Trucking Industry," reprint of 36 in Melvin Greenhut and George Norman (eds.) *The Economics of Location*, in *The International Library of Critical Writings in Economics*, Series Editor: Mark Blaug, Edward Elgar Publishing Limited (1993).

15. Arthur De Vany and Thomas Saving, "Product Quality, Uncertainty and Regulation—The Trucking Industry," reprint of 36 in Herbert Mohring (ed.) *The Economics of Transport*, in *The International Library of Critical Writings in Economics*, Series Editor: Mark Blaug, Edward Elgar Publishing Limited (1994).
16. Arthur De Vany, "Capacity Utilization under Alternative Regulatory Constraints: An Analysis of Taxi Markets," reprint of 31 in Herbert Mohring (ed.) *The Economics of Transport*, in *The International Library of Critical Writings in Economics*, Series Editor: Mark Blaug, Edward Elgar Publishing Limited (1994).
17. Arthur De Vany, "The Effect of Price and Entry Regulation on Airline Output, Capacity and Efficiency," reprint of 32 in Herbert Mohring (ed.) *The Economics of Transport*, in *The International Library of Critical Writings in Economics*, Series Editor: Mark Blaug, Edward Elgar Publishing Limited (1994).
18. Arthur De Vany, "A Brave New World: Private Contracting as a Regulatory Alternative," Invited Lecture for Institute for Energy Research and CATO Institute Conference "New Horizons in Natural Gas Deregulation," In Jerry Ellig and Joseph Kalt editors *New Horizons in Natural Gas Deregulation*, Praeger Publishers (1996), pp. 209–230.
19. Arthur De Vany, "The Emergence and Evolution of Self-Organized Coalitions," in Manfred Gilli, Editor *Computational Economic Systems: Models, Methods and Econometrics*, Series: Advances in Computational Economics, Kluwer Scientific Publications (1996), pp. 25–50.
20. Arthur De Vany, "Synchronizing Markets, Mutual Information, and the Price Level: Coordination in a Non-General Equilibrium World," in Daniel Vaz and K. Velupillai, editors *Inflation, Information and Institutions: Essays in honour of Axel Leijonhufvud*, Macmillan (1996).
21. Arthur De Vany, "Information, Chance, and Evolution: Alchian and the Economics of Self-Organization," in John Lott, editor *Uncertainty and Economic Evolution*, Routledge (1997), 20–37.
22. Arthur De Vany, "Property Rights in the Electromagnetic Spectrum" *The New Palgrave Dictionary of Economics and the Law*, ed. Peter Newman, Macmillan Press, London (1998).
23. Arthur De Vany, "The Effect of Price and Entry Regulation on Airline Output, Capacity and Efficiency," *Bell Journal of Economics*, 6 (1), Spring 1975, 327-45" reprinted in *Classics in Transport Analysis*, Series Editors: Kenneth Button & Peter Nijkamp, "Air Transport" edited by Peter Forsyth, Kenneth Button, and Peter Nijkamp, Edward Elgar, UK (2000).
24. Arthur De Vany and David Walls, "How Can Motion Picture Profits Be So Large and Yet So Elusive? the  $\alpha$ -Stable Distribution," in Bruce Mallen, ed. *Proceedings of the Third Business and Economics Scholars Workshop in Motion Picture Industry Studies*,

The Carl DeSantis Business and Economics Center for the Study and Development of the Motion Picture and Entertainment Industry, Volume II, 1–20 (2001).

25. Arthur De Vany, “Motion Pictures: Luck, Talent and Rewards,” Victor Ginsburgh, ed. *Economics of the Arts and Culture: Invited Papers of the 12-th International Biennial Conference of the Association for Cultural Economics International*, Contributions to Economic Analysis No. 260, Elsevier Science, Amsterdam, 1–23 (2004).
26. Arthur De Vany, “The Movies,” in Victor Ginsburgh and David Throsby, eds. *Handbook of the Economics of Art and Culture*, North-Holland (forthcoming).
27. Arthur De Vany and Thomas Saving, “Priority Pricing when Demand is Stochastic,” in Justus Haucap, ed. *Institutions in Perspective*, Mohr Siebeck (forthcoming).

## Articles in Journals

28. Arthur De Vany, Ross Eckert, Don O’Hara, and Charles Meyers, “A Property System for Market Allocation of the Electromagnetic Spectrum: A Legal-Economic Study,” *Stanford Law Review*, Vol. 21, 6 (June, 1969) 1499–1561.
29. Arthur De Vany and E. Garges, “A Forecast of Air Travel and Airport and Airway Use in 1980,” *Transportation Research*, Vol. 6 (1972) 1–18.
30. Arthur De Vany “The Revealed Value of Time in Air Travel,” *Review of Economics and Statistics*, Vol. 56, 1 (February, 1974) 77–82.
31. Arthur De Vany, “Capacity Utilization under Alternative Regulatory Constraints: An Analysis of Taxi Markets,” *Journal of Political Economy*, Vol 83, 1 (February, 1975) 85–94.
32. Arthur De Vany, “The Effect of Price and Entry Regulation on Airline Output, Capacity and Efficiency,” *Bell Journal of Economics and Management Science* (Spring, 1975), pp. 327–345.
33. Arthur De Vany, “Uncertainty, Waiting Time and Capacity Utilization – A Stochastic Theory of Product Quality,” *Journal of Political Economy*, Vol. 84, 3 (June, 1976) 523–541.
34. Arthur De Vany Jr. and Arthur De Vany Sr., “Patterns of Correlation Between Focograms and Ronchigrams,” *Boletín del Instituto Astrofísica de Tonantzintla*, Vol. 1, 5 (June, 1976).
35. Arthur De Vany, “Land Reform and Agricultural Efficiency in Mexico: A General Equilibrium Analysis,” The Rochester-Carnegie Conference Series on Public Policy, Supplement to *The Journal of Monetary Economics*, Karl Brunner and Alan Meltzer (eds.), Vol. 6, (1977) 123–147.

36. Arthur De Vany and Thomas Saving, "Product Quality, Uncertainty and Regulation—The Trucking Industry," *American Economic Review*, Vol. 67, 4 (1977) 583–594.
37. Arthur De Vany and Nicolas Sanchez, "Property Rights, Uncertainty and Fertility: An Analysis of the Effect of Land Reform on Fertility in Rural Mexico," *Weltwirtschaftliches Archiv*, Band 113, Heft 4 (1977) 741–764.
38. Guy Curry, Arthur De Vany and Roger Feldman, "Multi-Modal Airport Access: A Transportation Model with Periodic Clearing and Random Modal Split," *Operations Research*, Vol. 12, 2 (April, 1978) 115–120.
39. Arthur De Vany and Nicolas Sanchez, "Land Tenure Structures and Fertility in Mexico," *Review of Economics and Statistics*, Vol. 61, 1 (February, 1979) 67–72.
40. Arthur De Vany and Thomas Saving, "Competition and Highway Pricing for Stochastic Traffic," *Journal of Business*, Vol. 53, 1 (January, 1980) 44–60.
41. Arthur De Vany and Thomas Saving, "Competition and Value of Service Pricing in the Trucking Industry: Reply," *American Economic Review*, Vol. 70, 1 (February, 1980) 181–185.
42. Arthur De Vany and Thomas Saving, "Reliability and Peak Load Pricing," *Southern Economic Journal*, Vol. 47, 4 (April, 1980) 908–923.
43. Arthur De Vany and N. G. Frey, "Stochastic Equilibrium and Capacity Utilization," *American Economic Review Papers and Proceedings*, Vol. 71, 2 (May, 1981) 53–57.
44. Arthur De Vany and N. G. Frey, "Backlogs and the Value of Excess Capacity in the Steel Industry," *American Economic Review*, Vol. 72, 3 (June, 1982) 441–451.
45. Arthur De Vany and Thomas Saving, "Life-Cycle Job Choice and the Demand and Supply of Entry Level Jobs: Some Evidence from the Air Force," *Review of Economics and Statistics*, Vol. 64, 3 (August, 1982) 457–465.
46. Arthur De Vany, Thomas Saving and Charles Smithson, "The Impact of Input Regulation: The Case of the U.S. Dental Industry," *Journal of Law and Economics*, Vol. 5, 2 (October, 1982) 367–381.
47. Arthur De Vany, Thomas Saving and Don House, "The Role of Patient Time in the Pricing of Dental Services: The Fee-Provider Density Relation Explained," *Southern Economic Journal*, Vol. 49, 3 (January, 1983) 669–680.
48. Arthur De Vany, T. R. Saving, W. L. Gramm and C. Smithson, "Production in a Service Industry Using Customer Inputs – A Stochastic Model," *Review of Economics and Statistics*, Vol. 65, 1 (March, 1983) 149–153.
49. Arthur De Vany and Thomas Saving, "The Economics of Quality," *Journal of Political Economy*, Vol. 91, 6 (December, 1983) 979–1000.

50. Arthur De Vany, "Comment on Modeling the Banking Firm," *Journal of Money, Credit and Banking*, Vol. 16, No. 4 (November, 1984, Part 2) 603–09.
51. Arthur De Vany, "Institutions for Stochastic Markets," *Journal of Institutional and Theoretical Economics* Vol. 143, 1 (March, 1987) 91–103.
52. Arthur De Vany, Rodney Smith and Robert Michaels, "Defining a Right of Access to Interstate Natural Gas Pipelines," *Contemporary Policy Issues* (April, 1990) 142–158.
53. Arthur De Vany and David Brownstone, "Zoning, Returns to Scale, and the Value of Undeveloped Land," *Review of Economics and Statistics*, Vol. LXXIII, No. 4 (November, 1991) 699–704.
54. Arthur De Vany and Ross Eckert, "Motion Picture Antitrust: The Paramount Cases Revisited," *Research in Law and Economics*, Vol. 14, (November, 1991) 51–112.
55. Arthur De Vany and David Walls, "Pipeline Access and Market Integration in the Natural Gas Industry: Evidence from Cointegration Tests," *The Energy Journal*, Vol. 14, No. 4 (1993) 1–19.
56. Arthur De Vany and David Walls, "Network Connectivity and Price Convergence: Gas Pipeline Deregulation," *Research in Transportation Economics*, Vol. 3 (March, 1994) 1–36.
57. Arthur De Vany and David Walls, "Open Access and the Emergence of a Competitive Natural Gas Market," *Contemporary Economic Policy*, Vol. 12, No. 2 (April, 1994) 77–95.
58. Arthur De Vany and David Walls, "Natural Gas Industry Transformation, Competitive Institutions and the Role of Regulation," *Energy Policy*, Vol 22, No 9 (1994) 755–763.
59. Arthur De Vany and David Walls, "The Triumph of Markets over Regulation in Natural Gas," *Public Utilities Fortnightly* (April 15, 1995).
60. Arthur De Vany, "Competition Brings Together Spot, Futures Prices, Nationwide," *Natural Gas* (September 1995) 23–26.
61. Robert Michaels and Arthur De Vany, "Market-Based Rates for Interstate Gas Pipelines: The Relevant Market and The Real Market," *Energy Law Journal* Vol. 16, No. 2 (November 1995) 299–346.
62. Arthur De Vany, "Information, Bounded Rationality, and The Complexity of Economic Organization," *Taiwan Journal of Political Economy* Vol. 1, No. 3 (March 1996).
63. Arthur De Vany, "Information, Chance, and Evolution: Alchian and the Economics of Self-Organization," *Economic Inquiry*, Vol. XXXIV, Number 3 (July 1996) 427–443.

64. Arthur De Vany, "Putting a Human Face on Rational Expectations: An Essay on Tom Sargent's *Bounded Rationality and Macroeconomics*," *Economic Dynamics and Control* 20 (1996) 811-17.
65. Arthur De Vany and David Walls, "The Law of One Price in a Network: Arbitrage and Price Dynamics in Natural Gas City Gate Markets," *Journal of Regional Science* Volume 36, Number 4, (1996), 555-570.
66. Arthur De Vany, "Market Based Rates: Price Behavior is Best Judge on Competition." *Natural Gas* (April 1996).
67. Arthur De Vany and David Walls, "Bose-Einstein Dynamics and Adaptive Contracting in the Motion Picture Industry," *Economic Journal* Vol. 106 No. 439 (November 1996) 1493-1514.
68. Arthur De Vany and David Walls, "The Market for Motion Pictures: Rank, Revenue and Survival," *Economic Inquiry* Vol. XXXV, Number 4, (October 1997) 783-797.
69. Arthur De Vany and David Walls, "Open Access to Rail Networks," *Transportation Quarterly*, Vol. 51, No. 2, (Spring 1997) 73-78.
70. Arthur De Vany, "Electricity Contenders: Coordination and Pricing on an Open Transmission Network," *Regulation: The CATO Review of Business and Government*, Vol. 20, No. 2, (August, 1997).
71. Arthur De Vany and David Walls, "Cointegration analysis of spot electricity prices: Insights on transmission efficiency in the western US," *Energy Economics* (1999).
72. Arthur De Vany, "Implementing a Market-Based Spectrum Policy." *The Journal of Law and Economics*, Vol. XLI (2) (Pt. 2) (October 1998) 627-646.
73. Arthur De Vany, "How Much Information is there in an Economic Organization and Why Can't Large Ones be Optimal?" *Brazilian Electronic Journal of Economics*, www.beje.decon.ufpe.br 1 (July 1998).
74. Arthur De Vany and David Walls, "Price dynamics in a network of decentralized power markets." *Journal of Regulatory Economics*, Volume 15, Number 2, pages 123-140, March 1999.
75. Arthur De Vany and David Walls, "Uncertainty in the Movies: Can Star Power Reduce the Terror of the Box Office?" *Journal of Cultural Economics*, Vol. 23, No. 4 (November 1999) 285-318.
76. Arthur De Vany and Cassey Lee, "Quality Signals in Information Cascades and the Dynamics of the Distribution of Motion Picture Box Office Revenues." *Journal of Economic Dynamics and Control*, 25 (2001) 593-614.
77. Arthur De Vany and David Walls, "Does Hollywood Make Too Many R-rated Movies? Risk, Stochastic Dominance, and the Illusion of Expectation." *The Journal of Business* 75, No. 3 (April 2002) 425-51.

78. Arthur De Vany and Cassey Lee, “Stochastic Market Structure: Concentration Measures and Motion Picture Antitrust.” in Arthur De Vany, *Hollywood Economics: How Extreme Uncertainty Shapes the Film Industry*, Routledge (2003).
79. Arthur De Vany and Cassey Lee, “Motion Pictures and the Stable Paretian Hypothesis.” IMBS Working Paper (2002).
80. Arthur De Vany and David Walls, “Quality Evaluations and the Breakdown of Statistical Herding in the Dynamics of Box Office Revenues.” in Arthur De Vany, *Hollywood Economics: How Extreme Uncertainty Shapes the Film Industry*, Routledge (2003).
81. Arthur De Vany and David Walls, “Motion Picture Profit, the Stable Paretian Hypothesis, and the Curse of the Superstar,” *Journal of Economic Dynamics and Control* (March 2004).
82. Arthur De Vany and David Walls, “Movie Stars, Big Budgets, and Wide Releases: Empirical Analysis of the Blockbuster Strategy,” in Arthur De Vany, *Hollywood Economics: How Extreme Uncertainty Shapes the Film Industry* Routledge, (2003).
83. Arthur De Vany and Hank McMillan, “Was the Antitrust Action that Broke Up the Studios Good for the Movies? Evidence from the Stock Market,” *American Law and Economics Review*, v. 6, n. 4 (2004) 135–152.
84. Arthur De Vany, “Steroids, Home Runs, and the Law of Genius,” to appear in *Economic Inquiry*.

## Technical Reports and Papers

85. Arthur De Vany, “Mathematical Theory of the Airline Firm,” in TEMPO, Center for Advanced Studies, *Computerized Systems Planning Process for Airports and Harbors of the State of Hawaii*, Santa Barbara, California (1968).
86. Arthur De Vany, *An Analysis of Naval Airspace Use*. Institute of Naval Studies, Study 34, Center for Naval Analyses, Arlington, Virginia (1971).
87. Arthur De Vany, “The Economics of Airline Scheduling Competition,” Research Contribution 169, Center for Naval Analyses, Arlington, Virginia (1971).
88. Arthur De Vany, “The Measurement and Cost of Airport Noise,” Environmental Quality Program, Note 17, Texas A&M University, College Station, Texas (1974).
89. Arthur De Vany and Thomas Saving, *Labor Substitution and the Economics of the Delivery of Dental Services*. HEW Contract HRA–231–77–0135, Resources Research Corporation, College Station, Texas (1978).
90. Arthur De Vany and Thomas Saving, *Air Force Enlisted Personnel Retention and Accession Model*. Technical Report, Air Force Human Resources Laboratories, Brooks Air Force Base, Texas (June, 1980).

91. Arthur De Vany and Bill Shugart, *A Stochastic Analysis of Air Force Manpower: A Research Prospectus*. Technical Report AFHRL-TR-7-58, Air Force Human Resources Laboratories, Brooks Air Force Base, Texas (1977).
92. Arthur De Vany, Thomas Saving and William Shugart II, *The Supply Rate and Equilibrium Inventory of Air Force Enlisted Personnel: A Simultaneous Model of the Accession and Retention Markets Incorporating Force level Constraints*. Technical Report AFHRL-TR-78-10, Air Force Human Resources Laboratory, Brooks Air Force Base, Texas (1978).
93. Arthur De Vany, Ross Eckert, Don O'Hara and Charles Meyers, *Electromagnetic Spectrum Management: Alternatives and Experiments*. Santa Barbara, California: TEMPO Center for Advanced Studies, 68-TMP-64, 1968.
94. Arthur De Vany, Ross Eckert, Don O'Hara and Charles Meyers, *Electromagnetic Spectrum Management: Alternatives and Experiments*. Reprint of 93 in E. V. Rostow, *President's Task Force on Communications Policy, The Use and Management of the Electromagnetic Spectrum: Part 2, Staff Paper 7, Appendix GI*, Springfield, Virginia: U. S. Department of Commerce, Federal Clearing House PB-184-422, 1969.
95. Arthur De Vany, Ross Eckert, Don O'Hara and Charles Meyers, *Electromagnetic Spectrum Management: Alternatives and Experiments*. Reprint of 93 in C. J. Meyers and A. D. Tarlock (eds.), *Water Resources Management, A Casebook in Law and Public Policy*, Mineola, New York: The Foundation Press, Inc. (1971).
96. Arthur De Vany and Thomas Saving, *Truck Transportation Efficiency*. Motor Vehicle Manufacturer's Association, Detroit, Michigan (1976).
97. Arthur De Vany, *Alternative Ground Transportation Systems for Dallas/Fort Worth Regional Airport*. Federal Trade Commission, Washington D.C. (1977).
98. Arthur De Vany and Thomas Saving, *Stochastic Delay, Capacity and Competition: A Theoretical and Policy Analysis of the Trucking Industry*. Department of Economics, Texas A & M University, College Station, Texas (1978).
99. Arthur De Vany and Thomas Saving, *Rate Bureaus and Motor Carrier Regulation: Their Impact on Rate Structure, Stability and Capacity Utilization*. Report for the Federal Trade Commission, Resources Research Corporation, College Station, Texas (1979).
100. Arthur De Vany, Rodney Smith and Robert Michaels, *An Open Access Rights System for Interstate Natural Gas Pipelines*, Interstate Natural Gas Pipeline Rate Design Studies, Natural Gas Supply Association, Washington, D. C. (1988).

## Testimony to Public Agencies

101. Arthur De Vany, “Optimal Pricing, Allocations, and Regulation in the Oil Pipeline Industry,” *In The Matter of the National Energy Board Act and in the Matter of an Application by Transmountain Pipe Line Company LTD.*, Transmountain Pipe Line Company, LTD., Vancouver, B. C., Canada (1980).
102. Arthur De Vany, *The Houston Automobile Market*. Prepared direct testimony to the Texas Motor Vehicle Commission, Austin, Texas (1984).
103. Arthur De Vany, Rodney Smith and Robert Micheals, *Brokering Interstate Natural Gas Transport Capacity: Comments of Stratecon, Inc. on Proposed Rule Making*. Federal Energy Regulatory Commission on Notice of Proposed Rule Making, Stratecon, Monte Vista, CA (1988).
104. Arthur De Vany, *Competition in Natural Gas Markets*. Federal Energy Regulatory Commission, Docket No. RP87-7-000, Transcontinental Gas Pipe Line Corporation, Houston, Texas (1989).
105. Arthur De Vany, “Testimony of Arthur De Vany on behalf of Tatham Offshore, Inc. in the Matter of the Sable Offshore Energy Project.” National Energy Board Joint Public Review Panel, Hearing Order GH-6-96 (1998).
106. Arthur De Vany, “Rebuttal Testimony of Arthur S. De Vany on Behalf of Coral Power, L.L.C. and Sempra Energy Trading Corp.” Federal Energy Regulatory Commission, Docket No. EL00-98-063 (2002).
107. Arthur De Vany, “Rebuttal Testimony of Arthur S. De Vany on Behalf of Sellers of Power and Ancillary Service,” Federal Energy Regulatory Commission, Docket No. EL00-98-042 (2002).
108. Arthur De Vany, “Rebuttal Testimony of Arthur S. De Vany on Behalf of Coral Power, L.L.C. and Sempra Energy Trading Corp.” Federal Energy Regulatory Commission, Docket No. EL00-95-075 (2003).
109. Arthur De Vany, “Declaration of Arthur De Vany in Response to California Parties Comments on Proposed CORAL Settlement,” Federal Energy Regulatory Commission, Dockets No. EL03-151-000 and No. EL03-186-000 (2003).

## Conferences Organized

1. Organizer and Chair: “Movies.” The Rotterdam Conference of the Association for the Economics of Art and Culture International, Rotterdam, Netherlands (June 12–15, 2002).

2. Organizer and Chair: “IMBS/Economics Department Conference on Decentralization in Natural and Social Systems.” Institute for Mathematical Behavioral Sciences, University of California, Irvine, CA (February 4–6, 1999).
3. Co-Organizer with J. C. Falmange: “IMBS Conference on Combinatorial Methods in the Behavioral Sciences.” Institute for Mathematical Behavioral Sciences, University of California, Irvine, CA (August 15–20, 1994). Presentation “Self-Organized Combinatorial Objects in Economics,” (August 1994).
4. Organizer and Chair: “Alchian’s Theories of Evolution and Property Rights.” Presented paper “Information, Chance, and Evolution: Alchian and the Economics of Self-Organization.” Western Economic Association Meetings, Vancouver, Canada (June 1994).

## **Recent University Lectures and Presentations at Conferences and Professional Associations (1990 to present)**

1. “Motion Picture Antitrust.” Law and Economics workshop, University of Chicago, Chicago, Ill (1990).
2. “Motion Picture Antitrust.” Claremont Graduate School, Claremont, CA (1991).
3. “Motion Picture Antitrust.” Industrial Organization workshop, UCLA, Los Angeles, CA (1991).
4. “When Barriers to Markets Fall: Pipeline Deregulation, Spot Markets, and the Topology of the Natural Gas Market.” Claremont McKenna College, Claremont, CA (October 1992).
5. “Markets, Hierarchy, and Antitrust in Motion Pictures.” Antitrust Division, U. S. Department of Justice, Washington, D.C. (November 1992).
6. “Markets, Hierarchy, and Antitrust in Motion Pictures.” Federal Trade Commission, Washington, D.C. (November 1992).
7. “Competition in Natural Gas Markets.” Southern California Gas Company, Los Angeles, CA (June 1992).
8. “When Barriers to Markets Fall: Pipeline Deregulation, Spot Markets, and the Topology of the Natural Gas Market.” Economic Science Association Meetings, Tucson, AZ (October 1992).
9. “Priority Pricing.” Claremont McKenna College and Claremont Graduate School, Claremont, CA (October 1993).

10. "When Barriers to Markets Fall: Pipeline Deregulation, Spot Markets, and the Topology of the Natural Gas Market." UCLA Industrial Organization Workshop, Los Angeles, CA (February 1993).
11. "Edgeworth and the Traveling Salesman: Bounded Rationality and The Complexity of Economic Organization." The Center for Computable Economics, UCLA, Los Angeles (March 1993).
12. "When Barriers to Markets Fall: Pipeline Deregulation, Spot Markets, and the Topology of the Natural Gas Market." Western Regional Science Association Meetings, Wailea, Maui, Hawaii (February 1993).
13. "A Brave New World: Private Contracting as a Regulatory Alternative." Conference on New Horizons in Natural Gas Deregulation, CATO Institute and Institute for Energy Research, Washington, D.C. (March 1993).
14. "Information Cost, Variety and Market Institutions." Session entitled "Selling Institutions" of the Western Economics Association Meetings, Lake Tahoe, CA (June 1993).
15. "Pipeline Deregulation, Spot Markets, and the Natural Gas Market." Session entitled "Open Access to Energy Networks" of the Western Economics Association Meetings, Lake Tahoe, CA (June 1993).
16. "When Barriers to Markets Fall: Pipeline Deregulation, Spot Markets, and the Topology of the Natural Gas Market." Rutgers University Graduate School of Management Advanced Workshop in Regulation and Public Utility Economics, Monterey, CA (July 1993).
17. "Hard Cores and Soft Cores: Evolving Coalitions, Edgeworth and the Boltzmann Machine." Society for Economic Dynamics and Control, Nafplio-Peloponnese, Greece (June 1993).
18. "Pipeline Deregulation, Spot Markets, and the Topology of the Natural Gas Market." Invited Session "Market Power, Efficiency, and Deregulation" of the American Economic Association annual meetings, Boston, MA (December 1993).
19. "Information, Complexity and Economic Order." Three lectures in The Lowe Institute of Political Economy and The Claremont Institute for Economic Policy Studies Lecture Series, Claremont, CA (April and May 1993).
  - Lecture One: "Autonomy, Broken Symmetry, and the Complexity of Coasian Order," (April 21, 1993).
  - Lecture Two: "Unknowable Truths, the Paradox of Order and the Strong Invisible Hand Theorem," (April 28, 1993).
  - Lecture Three: "Universality: Institutions, Evolution, and the Theory of Economic Policy," (May 5, 1993).

20. "Markets, Hierarchies, and Antitrust in the Motion Picture Industry." Department of Economics, Washington University, St. Louis, MO (September 1993).
21. "Information, Bounded Rationality and the Complexity of Economic Organization." School of Business, Washington University, St. Louis, MO (September 1993).
22. "Information and Economic Organization." Department of Economics, UCLA (October 1993).
23. "Information, Rugged Value Landscapes, and Economic Organization." Institute for Mathematical Behavioral Sciences, UCI (November 1993).
24. "Innovation Tournaments: An Analysis of Rank, Diffusion and Survival in Motion Pictures." Department of Economics, UCI (November 1993).
25. "Innovation Tournaments: An Analysis of Rank, Diffusion and Survival in Motion Pictures." National Bureau of Economic Research Conference on "Research in Income and Wealth: New Goods." Harvard University, Cambridge, MA (December 1993).
26. "Information Dynamics, Adaptive Contracting, and Distributional Dynamics: Bose-Einstein Statistics and the Movies." Institute for Mathematical Behavioral Sciences, University of California, Irvine, CA (October 1994).
27. "Information Dynamics, Adaptive Contracting, and Distributional Dynamics: Bose-Einstein Statistics and the Movies." School of Business, University of Southern California, Los Angeles, CA (October 1994).
28. "Information Dynamics, Adaptive Contracting, and Distributional Dynamics: Bose-Einstein Statistics and the Movies." Department of Economics, University of California, Los Angeles, CA (November 1994).
29. "Hard Cores, Soft Cores and The Emergence of Self-Organized Coalitions." Center for Computable Economics and Program for Dynamic Economics conference on "Multiple Equilibria and Evolutionary Processes" UCLA, Los Angeles, CA (March 1994).
30. "Hard Cores, Soft Cores and The Emergence of Self-Organized Coalitions." International Federation for Automatic Control Meeting on "Computational Methods in Economics and Finance." University of Amsterdam, Amsterdam, Holland (June 1994).
31. "Hard Cores, Soft Cores and The Emergence of Self-Organized Coalitions." Presented in "Evolution of Behavioral Rules and Coalitions in Trading Networks" session of North American Summer Meeting of the Econometric Society, Universite Laval, Quebec, Canada (June 1994).
32. "The Law of One Price in a Network: Arbitrage and Price Dynamics in Natural Gas City Gate Markets." Western Regional Science Association, San Diego (February 1995).

33. "Three Studies in the Economics of Self-Organization." Economic ALife Conference, Santa Fe Institute, Santa Fe, New Mexico (May 1995).
34. "Arbitrage and Price Dynamics in Natural Gas City Gate Markets." Rutgers University, Center for Research in Regulated Industries, Advanced Workshop in Regulation and Public Utility Economics, San Diego (July 1995).
35. "Toward a Competitive Electric Power Market." Western Regional Science Association Meetings, Napa (February 1996).
36. "The Impact of Technological Trading Innovations on Market Liquidity." (coauthor presentation) Midwest Finance Association, Chicago (March 1996).
37. "Implementing a Market-Based Spectrum Policy." *FCC License Auctions: From Concept to Policy. A Conference on the Law & Economics of Property Rights to Radio Spectrum*, July 27–29, 1996, Tomales Bay, CA.
38. "The Market for Motion Pictures: Rank, Revenue, and Survival." Western Economic Association, San Francisco (July 1996).
39. Discussant of Robert Axtell's "Three Distinct Uses of Computational Agents in Political Economy." Rational Choice and Beyond: The Future of Political Economy, UCLA Political Science Department, Lake Arrowhead (November 1997).
40. "Chaos in Hollywood." Department of Political Science, UCLA (April 29, 1997).
41. "Complexity in the Movies." Universidad de las Americas, Departamento de Economia, Puebla, Mexico (March 1998).
42. "Complexity in the Movies." Universidad Nacional Autonoma de Mexico, Facultad de Economia, Division de Estudios de Posgrado, Mexico City, Mexico (March 1998).
43. "Emerging Power Markets and Arbitrage over a Network," Universidad Nacional Autonoma de Mexico, Facultad de Economia, Division de Estudios de Posgrado, Mexico City, Mexico (March 1998).
44. "Uncertainty in the Movies: Can Star Power Lessen the 'Terror of the Box Office'?" Institute for Mathematical Behavioral Sciences, University of California, Irvine (November 1998).
45. "Uncertainty in the Movies: Can Star Power Lessen the 'Terror of the Box Office'?" American Economic Association meetings, New York (January 1999).
46. "Uncertainty in the Movies: Can Star Power Lessen the 'Terror of the Box Office'?" Claremont Graduate School (February 17, 1999).
47. "Turbulent Information Cascades," the Villa Lago economics group meetings in Trento, Italy (June 13th-14th, 1999).

48. "Risk in Hollywood," Dipartimento di Economi'a, University of Trento, Trento, Italy (June 16, 1999).
49. "With All Due Respect, Nobody Knows Anything" panelist, Words into Pictures, The 1999 Film and Television Writers Forum, Santa Monica, California (June 5, 1999).
50. "Movies, Information Cascades, and the Stable Paretian Hypothesis," Decentralization II, Center for Computational Social Science, UCLA (September 2000).
51. "Adam Smith goes to Hollywood: Demystifying the Economics of the Entertainment Industry," panelist in "Hit or Miss: Predicting Profits in the Entertainment Industry." The Entertainment Industry Institute, California State University, Northridge (October 22, 1999).
52. "Motion Pictures, Information Cascades, and the Stable Paretian Hypothesis," Association of Private Enterprise Education, International Convention, Las Vegas (April 3, 2000).
53. "Economics," Campus wide Honors Course Lecture, UCI (June 1, 2000).
54. "Evolutionary Fitness," University Forum, UCI (October, 2001).
55. "Why We Get Fat," Research Conference on Why We Get Sick: Darwinian Medicine and the Social Sciences, UCLA (May, 2001).
56. "Motion Picture Profit, the Stable Paretian Hypothesis, and the Curse of the Superstar," Third Business and Economics Scholars Workshop in Motion Picture Industry Studies, Fort Lauderdale Film Festival (November, 2001).
57. "The Exotic Statistics of Motion Pictures and Patents: What do they Imply for the Practice of Intellectual Property Law?" Intellectual Property/Technology Law Section of the Orange County Bar Association, Irvine, CA (December, 2001).
58. "Gauss is Dead: The Statistics of the Extraordinary and the Movies," Great Ideas in the Social Sciences Series, UCLA (January, 2002).
59. "Why We Get Fat," Claremont University (March, 2002).
60. "Motion Picture Directors: Luck, Talent and Rewards," Rotterdam Conference of the Society for the Economics of Art and Culture International, Rotterdam, NL (June 2002).
61. "The Extraordinary Statistics of the Movies: Implications for Contracts and Risk Management," Price Waterhouse Cooper seminar, Los Angeles, CA (August 2002).
62. "Contracting in the Movies when Nobody Knows Anything: the Careers, Pay, and Contracts of Motion Picture Directors," Fourth Business and Economics Scholars Workshop in Motion Picture Industry Studies, Fort Lauderdale Film Festival (November 2002).

63. "Hollywood Economics: How Extreme Uncertainty Shapes the Film Industry," at The Jacob Marschak Interdisciplinary Colloquium on Mathematics in the Behavioral Sciences at UCLA ( November 2003).
64. "Blockbusters and Me-Too Drugs: Stable-Paretian Modeling of the Pharmaceutical Industry," UCLA Pharmaceutical Industry Workshop (November 2003).
65. "The Movies," Conference on the Economics of Art and Culture, Princeton University (September 2004).
66. "Hollywood Economics: Dealing with 'Wild' Uncertainty in the Movies and Pharmaceuticals," Technology and Operations Management Seminar, Harvard Business School (November 2004).
67. "Modeling Motion Picture Piracy," Scholars Workshop, Fort Lauderdale Film Festival (November 2004).

## Other Publications, Press, and Interviews

1. Arthur De Vany, "Book Review: Alan Walters' *Noise and Prices*," *Journal of Business* (Fall 1976).
2. National Public Radio interview on the airline industry (1984).
3. National Public Radio interview on the motion picture industry (1991).
4. Arthur De Vany, David Brownstone, Sheen Kassouf, Dan Klein, and Hiro Lee, "An Economic Analysis of Drug Prohibition," *Orange County Register* (April 20, 1992) B9. Reprinted in *The Margin*, Spring 1993, p. 35.
5. Arthur De Vany, "Commentary on Airport Privatization," *Los Angeles Times* (August 2, 1992) B7.
6. Interview by John Cassidy, "Chaos in Hollywood: Can science explain why a movie is a hit or a flop?" in the *The New Yorker* (Mar 31, 1997).
7. Interview on motion pictures by Peter Bowes, BBC Radio 4 Current Affairs (May 6, 1997).
8. Interview by Ernesto Bencivenga, "Hollywood: la legge del caos," *La Stampa Societa & Cultura* cover page (April 19, 1997).
9. Mexico City Times Editorial, "Forecasting 'Feel'" (April 1, 1997).
10. London Independent on Sunday, "Chaos theory explodes Hollywood hype," (March 30, 1997).

11. UCI News, "Get the picture: Economics professor says Hollywood doesn't" (April 23, 1997).
12. Guest speaker, "Motion pictures and information cascades," Independent Channel 5, London (1997).
13. Invited guest speaker, *AirTalk*, Public Broadcasting Service station KPCC-FM 89.3, Thursday (May 29, 1997).
14. Christopher Reed, "Hollywood doing the wrong math in picking films: Studio moguls don't have to be Einstein but it helps to think like him, study finds," *The Toronto Globe and Mail International Business B10* (May 1, 1997).
15. Interview, KMPC. "Deregulation in electric power" (June 12, 1997).
16. Interview with Herbert Krill broadcast on "Apropos Film" television program (February 9, 1998) on ZDF German TV, ORF Austrian TV, and 3SAT (Austria/Germany/Switzerland).
17. "Evolutionary Fitness," KABC Radio Talkshow with Marc Germain. Interview on Evolutionary Fitness (May 8, 1998).
18. Interview, "Creativity and uncertainty in the motion picture industry," *Hollywood 26*, French national television (June 22, 1998).
19. Interview, "Uncertainty and The Economics of Film Making," documentary film produced by Sylvie Grulx for the National Film Board of Canada, Studio Societ  et Sciences-Programme Francais (August 1998).
20. Ken Harrison, "Star Power: a Movie has to Have It," *Los Angeles Times* and UPI affiliates (January 9, 1999).
21. Interview, "Star Power in the Movies," E Channel E News Tonight, (January 15, 1999).
22. Panelist, "Can You Really Extend Your Life?" *Closer to Truth* PBS Television, Summer and Fall of 2000.
23. Interview, *FilmTalk*, Public Broadcasting Service station KPCC-FM 89.3, (February 9, 1999).
24. Interview with Virginia Postrel, "Is there a movie formula?" *Economic Scene*, *New York Times* (March 23, 2000).
25. Interview, "Does Hollywood make too many R-rated movies?" for *LA Daily News* (July, 2000).
26. Interviews, "Does Hollywood make too many R-rated movies?" with radio stations KNX, KMPC, Family News Focus, Catholic Radio Network, USA Radio Network, Michael Medved Show on KIEV, Fox News Channel (July, 2000).

27. Interview with Rachel Sobel, "Does Hollywood make too many R-rated movies?" *US News and World Report* (July 12, 2000).
28. Eric Nelson, "Does Hollywood make too many R-rated movies?" *New York Times News Service* (July 30, 2000)
29. Interview with John MacGregor, "Evolutionary Fitness and Diet," *New Scientist* (July 29, 2000).
30. "The Economic Journal," with James Doti host. PBS television interview on my motion picture research (December 9, 2000).
31. Interview, "Does Hollywood make too Many R-Rated movies?" WMAL radio, Washington D.C. (August 8, 2001).
32. Interview with Lynn Smith, "G is for Gross," *Los Angeles Times Calendar Section* (April 14, 2002).
33. James Surowiecki, "Open Wide", *The Financial Page, The Talk of the Town, The New Yorker* (August 4, 2003).
34. Josh Tyrangiel, "Troy Story," *Time Magazine* (May 10, 2004).
35. Todd Babiak, "Aliens attack during awful Hollywood dump season," *Edmonton Journal* (August 12, 2004).
36. Orley Ashenfelter, "Book Review of Hollywood Economics," *Barron's* (December 4, 2004).
37. Patrick Kiger, "Chew, Spit, Repeat," *Cover Story, Los Angeles Times* (February 29, 2004).
38. Leonard Mlodinow, "Meet Hollywood's Latest Genius," *Special to the Los Angeles Times* (July 2, 2006).