

VITA

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Peterkin Professor of Political Economy
Department of Economics
Rice University
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ACADEMIC DEGREES

Ph.D., Economics, Rice - 1970
M.A., Economics, Rice - 1970
B.A., Economics, Rice – 1967

PERSONAL

Date and Place of Birth: April 6, 1941, Mexico
Citizenship: U.S.A.
Marital Status: Married
U. S. Military Service; Army: 1963-1966

Marital Status: Married

HONORS

Elected corresponding member, Academia Mexicana de Ciencias, 2005
Selected for inclusion in *Who's Who in Economics*, 3rd edition
Selected for inclusion in *Who's Who in America*, 1982 to present
Selected for inclusion in *Who's Who in Economics*, 2nd edition,
Elected as member, The International Institute for Strategic Studies, London, 1984.

APPOINTMENTS

1984 to present Peterkin Professor of Political Economy, Rice University
1998 to 2010 External Professor, Centro de Investigación y Docencia Económicas, A. C., Mexico.
1987 Visiting Professor at Instituto Tecnológico Autónomo de México under sponsorship of U.S. Fulbright Program.
1981 Professor and Director of The Murphy Institute of Political Economy, Tulane University.

1979 Professor and Chairman, Tulane University.

1978 Visiting Professor, Department of Economics, Rice University.

1976 Professor, Department of Economics, Department of Political Science and Mershon Faculty Associate, The Ohio State University.

1975 Visiting Scholar, Center for International Studies, Massachusetts Institute of Technology.

1972 Associate Professor, Department of Economics and Department of Political Science, The Ohio State University.

1970 Assistant Professor, Department of Economics, University of Wisconsin, Madison.

1969 Instructor, Department of Economics, Rice University.

EDITORIAL APPOINTMENTS

1991-1995 Associate Editor, *Journal of Optimization Theory and Applications*

CURRENT RESEARCH

Robert Curl and I have stopped working on energy issues and are now working on the problem of technical change and inequality. We expect to have a working paper: "Is there an alternative to bread and circuses II?" out in the near future.

PUBLICATIONS: LAST TEN YEARS

1. "Turing Robots: Income Inequality and Social Mobility (with Robert F. Curl), James A. Baker III Institute for Public Policy, (2012).
2. "Allocation of Carbon in the Production of Liquid Fuels and Electricity in the United States," (with Robert F. Curl), James A. Baker III Institute for Public Policy, (2012).
3. "Economics of Pricing the Cost of Carbon Dioxide Restrictions in the Production of Electricity," (with Robert F. Curl), *Energy Journal*, (2011).
4. "Lumpy Investment in Regulated Natural Gas Pipelines: an Application of the Theory of the Second Best," (with Juan Rosellon), *Network and Spatial Economics* (2010).
5. "Quasi Rents and Pricing of Gas in Mexico,"(with Juan Rosellon), *Southern Economic Journal*, (2010) .
6. "Expectations and the Evolving World Gas Market,' (with Peter Hartley) *Energy Journal*, (2007).
7. "Private Information, Coasian Bargaining, and the Second Welfare Theorem," (with M. D. Intriligator , J. Hamilton,E. Sheshinski, and S. Slutsky), *Journal of Public Economics*, (2006).

8. "Un modelo de equilibrio general para la fijación de precios del gas natural en México," *El Trimestre Económico*, (with Juan Rosellon) (2006).
9. "Price Regulation in a Vertically Integrated Natural Gas Industry: The Case of Mexico," *The Review of Network Economics*, (with Juan Rosellon) (2006).
10. "Price Regulation in a Vertically Integrated Natural Gas Industry: The Case of Mexico", (with Juan Rosellon), *The Review of Network Economics*, vol. 4, issue 1, March. (2005)
11. "Un Modelo de Equilibrio General para la Fijación de Precios del Gas Natural en México", (with Juan Rosellon), *El Trimestre Económico*, vol. LXXII (2), Num. 286, abril-junio (2005).
12. "Strategic Behavior and the Pricing of Gas in Mexico," (with Juan Rosellon), in *Repsol YPF-Harvard Kennedy School Fellows 2003-2004 Research Papers*, William Hogan, editor, Cambridge, MA, Kennedy School of Government, Harvard University, (2005).
13. "Implications of the Elasticity of Natural Gas in Mexico on Investment in Gas Pipelines and in Setting the Arbitrage Point," (with Juan Rosellon), in *Repsol YPF-Harvard Kennedy School Fellows 2003-2004 Research Papers*, William Hogan, editor, Cambridge, MA, Kennedy School of Government, Harvard University, (2005).
14. Reducing Vulnerability of the Strait of Hormuz," (with Amy Myers Jaffe) in *Coping with a Nuclear Ready Iran*, U.S. Army War College Strategic Studies Institute, (2005).

PUBLICATIONS BY FIELD:

General Economic Theory

1. "Private Information, Coasian Bargaining, and the Second Welfare Theorem," (with M. D. Intriligator, J. Hamilton, E. Sheshinski, and S. Slutsky), *Journal of Public Economics*, (2006).
2. "Privatization and the Distribution of Income in the Commons," (with M. D. Intriligator and E. Sheshinski), *Journal of Public Economics*, (1997).
3. Corporate Restructuring, Technological Change and the Distribution of Labor Income," (with M. D. Intriligator and Erica Worth), in Gunnar Eliasson and Christopher Green, Eds. *The Macroeconomic Foundations of Economic Growth*, Ann Arbor: University of Michigan Press, (1997).
4. "Tort Law: Defects of the Comparative Negligence Standard," (with Peter R. Hartley), *Agenda* (1996).
5. "Consumer Rationality and Credit Cards," (with Peter R. Hartley), *Journal of Political Economy*, (1995).

6. "Randomization in Optimal Income Tax Schedules," *Journal of Public Economics*, (with J. Hamilton, S. Slutsky and J. Stiglitz), (1995).
7. "Social Indifference Curves with Optimal Second-Best Taxation" (with J. Hamilton and S. Slutsky), *Economic Theory*, (1993).
8. "On the Limits of Economic Control," (1970) in E. Phelps. Ed., *Recent Developments in Macroeconomics*, (1991).
9. "Dynamic Optimal Income Taxation with Government Commitment," *Journal of Public Economics*, (with J. Hamilton, S. Slutsky and J. Stiglitz), (1991).
10. "Pareto Efficient Taxation: A General Characterization," (with J. Hamilton, S. Slutsky and J. Stiglitz), *Oxford Economic Papers*, (1990).
11. "Externalities and Compulsory Vaccinations," (with M. D. Intriligator and E. Sheshinski), *Journal of Public Economics*, 45 (1991), 69-90.
12. "Stock Externalities, Pigovian Taxation and Dynamic Stability," (with M. D. Intriligator), *Journal of Public Economics*, 33 (1) (1987)
13. "On the Monopolistic Provision of Excludable Public Goods," (with W. H. Oakland), *American Economic Review*, September (1980).
14. "A Multiagent Adaptive Approach to Macroeconomic Control," (with M. D. Intriligator), *Policy Analysis and Information Systems*, 3 (1979), 1-9.
15. "A Game Theoretic Approach to Bureaucratic Behavior," (with M. D. Intriligator), in Pan Tai Liu, Ed., *Dynamic Optimization and Mathematical Economics*, New York and London: Plenum Press, (1979).
16. "A Fixed Point Approach to Multiagent Adaptive Control," (with M. D. Intriligator), *Annals of Economic and Social Measurement*, 6 (2) (1977)
17. "A New Approach to the Nash Bargaining Problem," (with A. M. Buoncrisiani and M. D. Intriligator), *Econometrica*, 45 (5) (1977).
18. "Some Properties of the Optimal Income Tax," (with W. H. Oakland), *International Economic Review*, (1977).
19. "Becker's Theory of the Allocation of Time and St. Petersburg Paradox," *Journal of Economic Theory*, (1975).
20. "Some Disequilibrium Dynamics of Exchange-Rate Changes," (with J. David Richardson), *Journal of International Economics*, 5, (1975).
21. "Stability and Control of the Money Supply," (with D. Hester), *Quarterly Journal of Economics*, May (1974).
22. "Estimation, Prediction and Economic Control," *International Economic Review*, October (1973).
23. "Heterogeneous Labor Inputs and Nineteenth Century Anglo-American Managerial Behavior," (with Jeffrey Williamson), *Explorations in Economic History*, (1973).

24. "The Effects of the Removal of the Thai Export Tax on the Demand for Rice," *Public Finance*, No. 3, (1970).

Energy Economics

25. "Economics of Pricing the Cost of Carbon Dioxide Restrictions in the Production of Electricity, (with Robert F. Curl), *Energy Journal*, (2011).
26. "Lumpy Investment in Regulated Natural Gas Pipelines: an Application of the Theory of the Second Best," (with Juan Rosellon), *Network and Spatial Economics* (2010).
27. "Quasi Rents and Pricing of Gas in Mexico,"(with Juan Rosellon), *Southern Economic Journal*, (forthcoming 2010) .
28. "Expectations and the Evolving World Gas Market,' (with Peter Hartley) *Energy Journal*, (2007).
29. "Un modelo de equilibrio general para la fijación de precios del gas natural en México," *El Trimestre Económico*, (with Juan Rosellon) (2006).
30. "Price Regulation in a Vertically Integrated Natural Gas Industry: The Case of Mexico," *The Review of Network Economics*, (with Juan Rosellon) (2006).
31. "Price Regulation in a Vertically Integrated Natural Gas Industry: The Case of Mexico", (with Juan Rosellon),*The Review of Network Economics*, vol. 4, issue 1, March. (2005)
32. "Un Modelo de Equilibrio General para la Fijación de Precios del Gas Natural en México", (with Juan Rosellon), *El Trimestre Económico*, vol. LXXII (2), Num. 286, abril-junio (2005).
33. "Strategic Behavior and the Pricing of Gas in Mexico," (with Juan Rosellon), in *Repsol YPF-Harvard Kennedy School Fellows 2003-2004 Research Papers*, William Hogan, editor, Cambridge, MA, Kennedy School of Government, Harvard University, (2005).
34. "Implications of the Elasticity of Natural Gas in Mexico on Investment in Gas Pipelines and in Setting the Arbitrage Point," (with Juan Rosellon), in *Repsol YPF-Harvard Kennedy School Fellows 2003-2004 Research Papers*, William Hogan, editor, Cambridge, MA, Kennedy School of Government, Harvard University, (2005).
35. Using Sakhalin Natural Gas in Japan," (with Peter R. Hartley) in *New Energy Technologies in the Natural Gas Sector: A Policy Framework for Japan*, James A. Baker III Institute for Public Policy, (2004).
36. "Regulation of Gas Marketing Activities" (with Juan Rosellon), *Estudios Económicos*, (2003).
37. "Pricing Natural Gas in Mexico: an Application of the Little-Mirrlees Rule," (with Juan Rosellon), *Energy Journal*, (2002).

38. "Oportunidad de la Inversión en Gasoductos de GLP en México" (with Juan Rosellon), *El Trimestre Económico*, (2002).
39. "Una nota sobre la Regulación del Gas en México: Comentarios Críticos" (with Juan Rosellon), *El Trimestre Económico*, (2002).
40. "Pricing Liquid Petroleum Gas in Mexico," (with Laney Littlejohn and Juan Rosellon), *Southern Economic Journal* (2000).

Arms Control/Political Science

41. Arms Races" (with M. D. Intriligator), *Defence and Peace Economics*, (2000)
42. Increasing Returns to Scale and the Arms Race: The End of the Richardson Paradigm?" (with M. D. Intriligator), *Defence and Peace Economics*, (1998).
43. "Deterring Nuclear Weapons Proliferation," (with M. D. Intriligator), *Economic Affairs*, (1997).
44. "Proliferation and the Probability of War: A Cardinality Theorem," (with M. D. Intriligator), *Journal of Conflict Resolution*, (1996).
45. "Arms Races and Proliferation," (with M. D. Intriligator), Todd Sandler and Keith Hartley Eds., *Handbook of Defense Economics*, (1995).
46. The Economic and Political incentives to Acquire Nuclear Weapons," (with M. D. Intriligator), *Security Studies*, (1993).
47. "The Economics of Disarmament, Arms Races and Arms Control" (with M. D. Intriligator), *Revue d'economie appliquée*, (1993).
48. "Minimizing the Risks for Accidental Nuclear War: An Agenda for Action," (with M. D. Intriligator), in Hakan Wiberg, Ib Damgaard Peterson, and Paul Smoker Eds., *Inadvertent Nuclear War: The Implications of the Changing Global Order*, (1993).
49. "Arms Races and Arms Control in the Middle East," (with M. D. Intriligator) in S. L. Spiegel Ed., *Conflict Management in the Middle East*, (1993).
50. "Narco-Traffic and Guerrilla Warfare: A New Symbiosis," (with M. D. Intriligator), *Defence Economics*, (1992).
51. Accidental Nuclear War: A Significant Issue for Arms Control," (with M. D. Intriligator), in Derek Paul, Michael D. Intriligator and Paul Smoker, Eds., *Accidental Nuclear War*, (1990).
52. "Arms Race Modeling: A Reconsideration," (with M. D. Intriligator), in Nils Petter Gleditsch, and Loan Njotstad, Eds., *Arms Races: Technological and Political Dynamics*, London: Sage Publications, (1990).

53. "A Possible Future for the Arms Race," (with M. D. Intriligator) in Nils Petter Gleditsch and Olav Njolstad, Eds., *Arms Races: Technological and Political Dynamics*, London: Sage Publications, (1990).
54. "An Economic Model of Guerilla Warfare," (with M. D. Intriligator), *International Interactions*, 15 (1989).
55. "Richardsonian Arms Race Models," (with M. D. Intriligator), in Manus I. Midlarsky, Ed. *Handbook of War Studies*, Boston: Unwin Hyman, (1989).
56. "Arms Control," (with M. D. Intriligator), in E. Kolodziej and P. Morgan, Eds., *Security and Arms Control*, Volume I, Westport, Connecticut: Greenwood Press, (1989).
57. "An Economic Model of Guerilla Warfare," (with M. D. Intriligator), *International Interactions*, 15 (1989).
58. "A Predator-Prey Model of Guerilla Warfare," (with M. D. Intriligator), *Syntheses*, 76 (1988)
59. "The Potential Contribution of Psychology to Nuclear War Issues," (with M. D. Intriligator), *American Psychologist*, (1988).
60. "Accidental Nuclear War: A Significant Issue for Arms Control," (with M. D. Intriligator), *Current Research on Peace and Violence*, 11 (1, 2) (1988).
61. "Arms Races and Instability," (with M. D. Intriligator), in R. Kolkowicz, Ed., *The Calculus of Terror: Nuclear Strategy and Its Discontents*, (1987).
62. "Arms Races and the Outbreak of War: Application of Principal-Agent Relationships and Asymmetric Information," (with M. D. Intriligator), in C. Schmidt and F. Blackaby, Eds., *Peace, Defense and Economic Analysis*, London: Macmillan, (1987).
63. "Can Arms Races Lead to the Outbreak of War?" (with M. D. Intriligator), pp.180-196 in C. Schmidt, Ed., *The Economics of Military Expenditures*, London: Macmillan, (1987).
64. "How Manageable is Nuclear Proliferation?" (with M. D. Intriligator), in M.L. Boykin and W. G. Nichols, Eds., *Arms Control and Nuclear Weapons*, Westport, CT: Greenwood Press, Inc., (1987).
65. "Deterrence May Require Mixed Strategies," (with M. D. Intriligator), 54-62 in Stephen J. Cimbala, Ed., *Challenges to Deterrence*, New York: Praeger, (1987).
66. "The Stability of Mutual Deterrence," (with M. D. Intriligator), in J. Kugler and F. C. Zagare, Eds., *Exploring the Stability of Deterrence*, Monograph Series in World Affairs, Denver: University of Denver School of International Studies, (1987).
67. "Arms Races and Instability," (with M. D. Intriligator), *Journal of Strategic Studies*, 9 (4) (1986).

68. "Mayer's Alternative to the I-B Model," (with M. D. Intriligator), *Journal of Conflict Resolution*, 30 (1) (1986).
69. "Theoretical Models of the Arms Race," (with M. D. Intriligator), in C. Schmidt, *Military Expenditures and Economic Growth and Fluctuations*, London: Macmillan, (1986).
70. "Arms Races and Instability," (with M. D. Intriligator), in R. Kolkowicz, Ed., *Nuclear Deterrence: European and American Perspectives*, London: Frank Cass, (1986).
71. "Managing Nuclear Proliferation," (with M. D. Intriligator), in D. Nichols, Ed., *Citadel Conference on U.S. Nuclear Policy*, (1986).
72. "Arms Control, Disarmament, and Global Peace and Security," (with M. D. Intriligator), in M.P. Karms, Ed., *Persistent Patterns and Emergent Structures in a Waning Century*, New York: Praeger, (1986).
73. "Conflict, War and Redistribution," (with M. D. Intriligator), *American Political Science Review*, 79 (4) (1985), 943-957.
74. "Non-Armageddon Solutions to the Arms Race," (with M. D. Intriligator), *Arms Control*, 6 (1) (1985).
75. "Wolfson on Economic Warfare," (with M. D. Intriligator), *Conflict Management and Peace Science*, 8 (2) (1985).
76. "Heuristic Decision Rules, The Dynamics of the Arms Race, and War Initiation," (with M. D. Intriligator), in M. D. Ward and U. Luterbacher, Eds., *Dynamic Models of International Conflict*, Boulder: Lynne Reinner Publishers, (1985).
77. "A Game-Theoretic Analysis of the Role of the Arms Industry in the International Security System," (with M. D. Intriligator), in D.C. Hague, Ed., *Structural Change, Economic Interdependence and World Development*, London: Macmillan, (1985)..
78. "Can Arms Races Lead to Outbreak of War?" (with M. D. Intriligator), *Journal of Conflict Resolution*, 28 (1) (1984).
79. "Nuclear Proliferation and the Probability of War," (with M. D. Intriligator), in B. Brody, M. D. Intriligator and R. Kolkowitz, Eds., *National Security and International Stability*, Cambridge: Oelgeschlager, Gunn, and Hain, (1983).
80. "Proliferation and the Probability of War: Global and Regional Issues" (with M. D. Intriligator), in D. L. Brito, M. D. Intriligator, and A. E. Wick, Eds., *Strategies for Managing Nuclear Proliferation: Economic and Political Issues*, Lexington: Lexington Books, (1983).
81. "Theoretical Models of the Arms Race," (with M. D. Intriligator), in Christian Schmidt, Ed., *Military Expenditures and Economic Growth and Fluctuations*, London: Macmillan,(1983).

82. "Arms Races: Behavioral and Economic Dimensions," (with M. D. Intriligator), in Judith A. Gillespie and Dina A. Zinnes, Eds., *Missing Elements in Political Inquiry: Logic and Levels of Analysis*, Beverly Hills: Sage Publications, Inc., (1982).
83. "Strategic Arms Limitation Treaties and Innovations in Weapon Technology," (with M. D. Intriligator), *Public Choice*, 37 (1) (1981).
84. "Nuclear Proliferation and the Probability of Nuclear War," (with M. D. Intriligator), *Public Choice*, 37 (2) (1981).
85. "Nuclear Proliferation and Stability," (with M. D. Intriligator), *Journal of Peace Science*, 3 (2) (1978).
86. "Army Reserve and National Guard, Due for Restructuring," (with Richard Brito), ARMY, January (1978).
87. "Strategic Arms Races and Arms Control," (with M. D. Intriligator), in *Mathematical Systems in International Relations Research*, Gillespie and Zinnes, Eds., Praeger, New York: Praeger, (1977).
88. "Nuclear Proliferation and the Armaments Race," (with M. D. Intriligator), *Journal of Peace Science*, 2 (2) (1977), 231-238.
89. "Strategic Weapons and the Allocation of International Rights," (with M. D. Intriligator), 199-215 in John V. Gillespie and Dina A. Zinnes, Eds., *Mathematical Systems in International Relations Research*, New York: Praeger, (1977).
90. "Formal Models of Arms Races," (with M. D. Intriligator), *Journal of Peace Science*, 2 (1) (1976). Also published as ACIS Working Paper No. 2, Los Angeles: Program in Arms Control and International Security, UCLA, (1976).
91. "Uncertainty and the Stability of the Armaments Race," (with M. D. Intriligator), *Annals of Economic and Social Measurement*, 3 (1) (1974),.
92. "Some Applications of the Maximum Principle to the Problem of an Armaments Race," (with M. D. Intriligator), *Modeling and Simulation*, 4 (1973).
93. "A General Equilibrium Model of the Stability of an Armaments Race," (with M. D. Intriligator), *Proceedings of the VI Asilomar Conference on Circuits and Systems*, New York: Institute of Electrical and Electronic Engineers, (1972).
94. "A Dynamic Model of an Armaments Race," *International Economic Review*, (1972).
95. "On Belligerent Trade," *American Economist*, Winter, (1967).

Middle East

96. Reducing Vulnerability of the Strait of Hormuz,” (with Amy Myers Jaffe) in *Coping with a Nuclear Ready Iran*, U.S. Army War College Strategic Studies Institute, (2005).
97. “The Economics of Disengagement,” James A. Baker III Institute for Public Policy paper.(2004).
98. “A Plan for the Possibility of Peace,” James A. Baker III Institute for Public Policy paper.(2002).
99. “An Alternative Pipeline Strategy in the Persian Gulf”, (with M. Webster Ewell, Jr. and John Noer), James A. Baker III Institute for Public Policy, Rice University (2000).
100. *Drag Reduction Agents: An Energy Security Bargain*, (with M. Webster Ewell and John Noer), Center for Naval Analyses, CRM 99-87.09 (1999).
101. "Alternatives to the Strait of Hormuz," (with E. Sheshinski), *Energy Journal*, (1998).

BOOK

Editor, with M. D. Intriligator and A. E. Wick, *Strategies for Managing Nuclear Proliferation - Economic and Political Issues*, Lexington: Lexington Books, 1983.

MONOGRAPHS

Non-Armageddon Solutions to the Arms Race, (with M. D. Intriligator), a lecture presented to the Conference on Confidence and Security building Measures and Disarmament in Europe, Stockholm, January, 1984, published by the Swedish Economic Association, and the Stockholm International Peace Research Institute, published by the Swedish Economic Association, 1984. Reprinted as CISA Reprint No. 1, Center of International and Strategic Affairs, UCLA, 1985.

Arms Control; Problems and Prospects, IGCC Research Paper No. 2, La Jolla: University of California Institute on Global Conflict and Cooperation, University of California, San Diego, (1987).

GRANTS:

James A. Baker III Institute for Public Policy, 2004
James A. Baker III Institute for Public Policy, 2003
James A. Baker III Institute for Public Policy, 2002
CONACYT 2000-2003
James A. Baker III Institute for Public Policy, 1996

Ford Foundation, 1981
Sloan Foundation, 1981
National Science Foundation (Political Science), 1980
National Science Foundation (Political Science), 1978
National Science Foundation (Economics), 1977
National Science Foundation (Political Science), 1975
National Science Foundation (Economics), 1972
Graduate School, University of Wisconsin, 1971

RESEARCH INTERESTS

Economics of Conflict
Public Finance
Dynamic Economic Theory
Law and Economics
Latin American Political Economy
Energy Economics