

CURRICULUM VITAE

NORMAN J. SCHOFIELD

September 4, 2007

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Birthdate: 30 January 1944 in Rothesay, Bute, Scotland
Citizenship: British and U. S. citizen
Family Status: Married, 3 children

Education

- 1965 B.Sc. (distinction) in Physics (Liverpool University)
1966 B.Sc. (honors) in Mathematics (Liverpool University)
1976 Ph.D. in Government (Essex University)
Title: *Mathematical Theories of Collective Behavior*
Examiners: G. Kramer and P. Ordeshook
1985 Ph.D. in Economics (Essex University)
Title: *Social Equilibrium*
Examiners: A. Sen and D. White
1986 Litt. D. (Doctor of Letters) Liverpool University
1991 Doctorat d'Etat en Sciences Economiques, Universite de Caen
(avec la mention tres honorable et felicitations de jury)

Fields of Research and Teaching

Constitutional Political Theory, Social Choice, Mathematical Economics, International Politics and Economics

Current Position

William Taussig Professor of Political Economy at Washington University (from 1991) and Director of the Center in Political Economy (from 1990); Professor of Economics (from 1986); Professor of Political Science (from 1996).

Academic Honors

Elected Fellow to the American Academy of Arts and Sciences. *April 2005.*

Recipient with G.Miller of the Jack L.Walker prize for the best article on Political Parties in the APSR, 2004.

Academic Positions

1986	Professor, Department of Economics and Fellow, Center in Political Economy, Washington University, St. Louis; Adjunct Professor of Political Science (from July 1989) and Full Professor of Political Science (from July 1996).
2002-2003	Fulbright Distinguished Professor, Humboldt University, Berlin
1988-9.	Fellow, Center for Advanced Study in the Behavioral Sciences, Stanford, California
1984-5 & Spr 1986	Visiting Professor, California Institute of Technology
1983-4	Sherman Fairchild Distinguished Scholar, California Institute of Technology
1982-3	Hallsworth Senior Research Fellow in Political Economy, Department of Economics, University of Manchester
1979-86	Reader in Economics, Department of Economics, University of Essex
1976-9	Associate Professor of Government (with tenure), University of Texas at Austin
1973	Visiting Lecturer, Department of Government, Yale University
1970-5	Lecturer, Department of Government, University of Essex

Fellowships Honors Grants and Visiting Lectureships

Spring 2008	Invited to be Leitner Visiting Professor of Political Economy, Yale University
Summers 2007/8.	Research Fellow, ICER, Turin.
1986 and 2002:	Entries in <i>Who's Who in Economics</i> .
Aug 2007-Dec 2009.	Principal Investigator NSF SES 0715929. "Activist Coalitions: Modeling Elections and Regime Change" (Political Science Program) \$172,000.
Mar 2003-Mar2006	Associate Investigator on grants NSF SES-0339877 and SES-0339920, (Political Science Program) "Party Switching".
Mar 2003 - June 2004	Principal Investigator, National Science Foundation (Political Science Program) "Valence Politics with Activists: Models of Multicandidate Competition," SES 0241732 (\$50,000)
April 2002	Recipient of the Riker Prize from Rochester University for contributions to Political Theory.
Sept 2002-July 2003	Fulbright Distinguished Professor of American Studies, Humboldt University, Berlin.
Mar 1999-June 2000	Principal Investigator, National Science Foundation (Political Science Program) "Electoral Preferences and Party Leadership in Britain," SBR-98-18582 (\$75,000).
Mar 1998-Jan 1999	Principal Investigator, National Science Foundation (Political Science Program) "Electoral Systems, Party Strategies and Bargaining Complexity," SBR-97-30275 (\$80,000).
Mar 1997-Jan 1998	Principal Investigator, National Science Foundation (Political Science Program), "A Comparative Analysis of Political Factions Using Multinomial Probit Techniques," SBR-9617708 (\$70,000).
July 1995-Aug 1997	Principal Investigator, National Science Foundation Grant (Methodology, Measurement and Statistics Program), "Coalition Politics: Simulation of a General Model of Multiparty Competition," SBR-9422548 (\$124,000.00).
May 1989-July 1992	Principal Investigator, National Science Foundation Grant, "The Strategy of Party Competition," SES-88-20843 (\$179,000).
Oct 1986-Sept 1987	Principal Investigator, National Science Foundation Grant for an International Conference, Fiesole, Italy, May 1987 on "European Cabinet Coalitions," SES-8521151 (\$17,000).
July 1985-Dec 1987	Principal Investigator, National Science Foundation Grant, "Stability of Political Systems and the Spatial Theory of Democracy," SES-84-18295 (\$69,000).
Jan 1978-June 1979	Principal Investigator; National Science Foundation Grant, "Theory of Dynamic Games," SOC-77-21651 (\$30,000).

Dec. 1994	Visiting Fellow, Robert Schuman Centre, European University Institute, Fiesole, Italy.
Feb 1992	Professeur associe, Universite de Caen, France.
June 1989	Scientific Visitor Institute of Control Science, USSR Academy of Science, Moscow.
May 1989	Guest Lecturer, Department of Government, Harvard University.
1988	Associate, Social Science Research Centre, University College, Galway.
May 1988	College Visiting Professor, Department of Economics, University of Washington.
1984-6 .	Research Scientist, School of Social Sciences, University of California at Irvine.
Dec 1986 & Dec 1987	British Council Exchange Grant, Mexico City.
Oct 1981-3	Nuffield Foundation Grant, "Stability of European Parliamentary Governments."
1981-2	British Council Exchange Grant, Bochum, Germany and Istanbul, Turkey.
June-Sep 1980	British Academy Grant, "International Political Economy."
April-May 1980	SSRC/CNRS Research Grant, "Mathematical Political Economy," Univ.Marseilles.
October 1978	Academic visitor, CORE, Louvain, Belgium.
Summer 1978	British Academy Wolfson Fellowship, International Institute of Management Science, Berlin.
1977	Leverhulme Faculty Fellowship in European Studies, Brussels
1975	Nuffield Foundation Grant on "Computer Simulation."
1972	British Council Younger Research Worker Grant, Brussels.
1972-3	SSRC Research Grant, "Formal Political Theory."
1969-70	Fellow, Department of Mathematics, University of Essex.
1966-69	Science Research Council Grant, Department of Mathematics, Liverpool University.

Academic Responsibilities

Associate Editor, *Social Choice and Welfare*, Springer Verlag, Heidelberg (1983 to present).
 Associate Editor, *European Journal of Political Economy*, North Holland, Amsterdam (1984-1996).
 Associate Editor, *Politics, Philosophy and Economics* (from 2001).

Professional Societies

Society for Social Choice and Welfare
 American Political Science Association
 Econometric Society

Published Books

1. *Mathematical Methods in Economics*. New York University Press: New York and Croom Helm: London and Sydney (July 1984), 280 pp.
2. *Social Choice and Democracy*. Springer Verlag: Heidelberg and New York (September 1985), 330 pp.
3. *Advanced Statistical Methods in the Social Sciences* (co-authored with P. Whiteley, S. Satchell and M. Chatterji). Holt, Rinehart and Winston: London and Praeger: New York (February 1986), 234 pp.
4. *Multiparty Governments: The Politics of Coalitions in Europe* (co-authored with M.Laver). Oxford University Press (June 1990), 300 pp. Paperback edition, June 1991. Reprinted, Michigan University Press, 1998.
5. *Mathematical Methods in Economics and Social Choice*. , Vol. 17 in Studies in Economic Theory, Springer Verlag: Heidelberg, 300 pp. Hardback, February 2003. Paperback, March 2004.
6. *Multiparty Democracy: Elections and Legislative Politics* (co-authored with I. Sened). Cambridge University Press, .223pp hardback and paperback, August, 2006. .
7. *Architects of Political Change: Constitutional Quandaries and Social Choice Theory*.. Cambridge University Press, 317 pp hardback and paperback, June, 2006..

8. *The Spatial Model of Politics*: Routledge (Volume 95 in the Routledge Series of Political Economy) London (in press, to be published 2008) :ISBN **10**: 0415321271).
9. *The Political Economy of Power and War*. Draft Proposal submitted to Oldenbourg (Munich)

Edited Volumes

1. *Data Analysis and the Social Sciences* (co-edited with D. McKay and P. Whiteley). Frances Pinter Publisher: London, and St. Martin's Press: New York (April 1983), 290 pp.
2. *Crisis in Economic Relations Between North and South*. Gower Press: Aldershot, England (January 1984), 439 pp.
3. *Political Economy: Institutions, Competition and Representation* (co-edited with W. Barnett and M. Hinich). Cambridge University Press (August 1993), 522 pp.
4. *Social Choice, Welfare and Ethics* (co-edited with M. Salles, H. Moulin, and W. Barnett). Cambridge University Press (January 1995), 419 pp.
5. *Collective Decision-making: Social Choice and Political Economy*. Kluwer-Nijhoff: Boston, Mass. (October 1996), 422 pp.
6. *Social Choice and Welfare* Vol. 18 (3) 2001. Special issue on "Rationality in Utility Theory and Game Theory" (co-editors, J. Nachbar, M. Salles, M. Wooders).

Articles published and in press

- 1 "The Mean Voter Theorem: Necessary and Sufficient Conditions for Convergent Equilibrium." *The Review of Economic Studies* ,74(3).(July 2007): 965-980.
- 2 "A Model of Political Competition with Activists applied to elections in Argentina , 1985-1995." (with Guido Cataife). *Mathematical Social Science*, 53(3) (May, 2007): 213-231.
3. "Elections and Activists Coalitions in the United States." (with Gary Miller). *The American Journal of Political Science* 51(3) (July 2007):518-531.
4. "Political Equilibrium with Electoral Uncertainty." *Social Choice and Welfare* 28 (April, 2007):461-490.
5. "Equilibria in the Spatial Stochastic Model of Voting with Party Activists." *The Review of Economic Design*.10 (3)(December 2006): 183-203.
6. "Modelling Authoritarian Regimes" (with Micah Levinson). Forthcoming in *Politics, Philosophy, and Economics* . Working paper #32/2007, ICER, Turin.
7. "Divergence in the Spatial Stochastic Model of Voting," in *Power, Freedom and Voting*, Matthew Braham and Frank Steffen, eds.. Heidelberg: Springer (2007): in press..
8. "Social Choice and Elections." In *A Positive Change in Political Science: The Legacy of Richard D. McKelvey's Writings*, J. Alt, J. Aldrich and A. Lupia, eds. University of Michigan Press (September, 2007).pp.205-222.
9. "Democratic Paradoxes.," in *The New Palgrave Dictionary of Economics*. L.Blume and S.Durlauf, eds. Macmillan (2008):in press.
10. "Social Choice". Forthcoming in the *UNESCO Encyclopedia of Life Systems*. Oxford (2008)
11. The Intellectual Contribution of Condorcet to the Founding of the US Republic." *Social Choice and Welfare* 25(4) (December, 2005): 303-318..

12. "Multiparty Competition in Israel:1988-1996,"with I. Sened. *The British Journal of Political Science* 36(October,2005): 635-663..
13. "Modeling the Interaction of Parties, Activists and Voters: Why is the Political Center so Empty?" with I.Sened, *The European Journal of Political Research* 44(May, 2005):355-390.
14. "A Valence Model of Political Competition in Britain:1992-1997." *Electoral Studies* 24(3) (May, 2005): 347-370.
15. Local Political Equilibria, " in *Social Choice and Strategic Decisions:Essays in Honor of Jeffrey Banks.*,D.Austen-Smith and J.Duggan,eds.Springer:Heidelberg (February,2005).pp.57-91 .
16. " Quandaries of Slavery and Civil War in the US,"*Homo Oeconomicus* 21(2)(December,2004):315-354.
17. "Equilibrium in the Spatial Valence Model of Elections,"*The Journal of Theoretical Politics* 16(4)(October,2004):447-481.
18. "The Probability of a Fit Choice: US Political History and Voting Theory." in *Justice and Democracy*, K. Dowding and R. Goodin, eds. Cambridge University Press (September 2004),pp.59-78.
19. "Valence Competition in the Spatial Stochastic Model," *The Journal of Theoretical Politics* 15(4)(October,2003):371-383.
20. "Activists and Partisan Realignment," with G. Miller. *The American Political Science Review*.97(2) (May 2003):245-260.
21. "Critical Elections and Political Realignment in the US: 1860-2000," with A. Martin and G. Miller. *Political Studies* 51(3)(June 2003):217-240.
22. Madison and the Founding of the Two Party System in the US" In *James Madison: The Theory and Practise of Republican Government*, S. Kernell, ed. Stanford University Press (September,2003):302-327
23. "Power, Prosperity and Social Choice: A Review," *Social Choice and Welfare* 20 (January 2003):85-118.
24. "Constitutional Quandaries and Critical Elections," *Politics, Philosophy and Economics* 2 (February 2003): 5-36.
25. "The Founding of the American Agrarian Empire and the Conflict of Land and Capital," *Homo Oeconomicus* 19(4) (May,2003):471-505.
26. "Representative Democracy as Social Choice," *The Handbook of Social Choice and Welfare*, K. Arrow, A. Sen and K. Suzumura, eds. North-Holland: New York (August 2002) pp. 425-455.
27. "Local Nash Equilibrium in Multiparty Politics ," with I. Sened, *Annals of Operations Research*: 109 (August 2002): 193-210.
28. "Quandaries of War and Union: 1763-1861." *Politics and Society* 30 (March 2002): 5-49.
29. "Evolution of the Constitution," *The British Journal of Political Science* 32 (January 2002): 1-23.
30. "The Election of Lincoln in 1860," with K. Dixon, *Homo Oeconomicus* 17 (2001): 391-425.
31. "Constitutions, Voting and Democracy: A Review," *Social Choice and Welfare* 18 (July 2001): 571-600.
32. "Constitutional Political Economy: Rational Choice Theory and Comparative Politics," *The Annual Review of Political Science* 3 (July 2000): 277-303.
33. "Core beliefs and the Founding of the American Republic," *Home Oeconomicus* 16 (2000): 433-462.
34. "Institutional Innovation, Contingency and War: A Review," *Social Choice and Welfare* 17 (June 2000): 463-479. .
35. "The Amistad and Dred Scott Affairs: Heresthetics and Beliefs in the Ante-Bellum States, 1837-1860," *Homo Oeconomicus* (Munich) 16 (December 1999): 49-67.
36. "Equilibrium or Chaos in Preference and Belief Aggregation," in *Competition and Cooperation*, J. Alt, M. Levi, E. Ostrom, eds. Russell Sage Foundation: New York (December 1999), pp. 32-50.
37. The Heart of the Atlantic Constitution: International Economic Stability, 1919-1998," *Politics and Society* 27 (June 1999): 173-215.
38. "Generic Existence of Local Political Equilibrium" in *Approximation, Optimization and Mathematical Economics*, M. Lassonde, ed. Springer: Heidelberg (March 2001), pp. 297-308.
39. "Nash Equilibrium in a Spatial Model of Coalition Bargaining," with R. Parks, *Mathematical Social Sciences* 39 (March 2000): 133-174.
40. "A Smooth Social Choice Method of Preference Aggregation," in *Topics in Mathematical Economics and Game Theory: Essays in Honor of R. Aumann*, M. Wooders, ed. Fields Institute Communication Volume 23, American Math Society. Providence, Rhode Island (December 1999), pp. 213-232.

41. "The Heart and the Uncovered Set," *The Journal of Economics: Zeitschrift fur Nationalokonomie*, Supplement 8 (June 1999): 79-113. (Special issue on Mathematical Utility Theory, edited by G. Herden, N. Knoche, C. Seidel, and W. Trockel).
42. "The C^1 -Topology on the Space of Smooth Preference Profiles," *Social Choice and Welfare* 16 (June 1999): 445-470.
43. "Nash Equilibrium in Multiparty Competition with 'Stochastic' Voters," with D. Nixon and I. Sened *Annals of Operations Research* 84 (December 1998): 3-27. (Special issue on Games and Politics, edited by I. Garcia-Jurado, F. Valenciano and E. Winter).
44. "Multiparty Competition in the Netherlands and Germany: A Model Based on Multinomial Probit," with A. Martin, K. Quinn, and A. Whitford, *Public Choice* 97: (December 1998): 257-293. Reprinted in *Empirical Studies in Comparative Politics*, M. Munger and M. Hinich, eds. Kluwer: Boston, pp. 39-75.
45. "Aggregation of Smooth Preferences," *Social Choice and Welfare* 15 (April 1998): 161-185.
46. "Coalition Politics and Representative Democracy," *European Journal of Political Research* 31 (February 1997): 183-192.
47. "Multiparty Electoral Politics," in *Perspectives on Public Choice* (January 1997) D. Mueller, ed. New York: Cambridge University Press, pp. 271-295.
48. "Agregacion de las preferencias, el corazon y la competencia multipartidos," *Cuadernos Economicos* (Madrid) 62 (1996): 63-91.
49. "The Heart of a Polity," in *Collective Decision-making: Social Choice and Political Economy*, N. Schofield, ed. Kluwer-Nijhoff, Boston (October 1996): 183-220.
50. "Bargaining in the Liberal Democratic Party of Japan," (with J. Wada) in *Collective Decision-making: Social Choice and Political Economy*, (Ibid.): 239-250.
51. "Research Programs in Preference and Belief Aggregation," in *Collective Decision-making: Social Choice and Political Economy*, (Ibid.): 1-22.
52. "Modeling Political Order in Representative Democracies," in *Nomos XXXVIII: Political Order* (The Yearbook of the American Society for Political and Legal Philosophy), I. Shapiro and R. Hardin, eds. New York University Press (May 1996): 86-110.
53. "Rules, Beliefs and Equilibrium in Social Mathematics," in *Social Rules: Character, Logic, Change*, D. Braybrooke, ed. Westview Press. Boulder, Co. (January 1996): 233-248.
54. "Democratic Stability," in *Explaining Social Institutions*, J. Knight and I. Sened, eds. University of Michigan Press (December 1995): 189-215.
55. "Chaos or Equilibrium in a Political Economy," in *Chaos and Society*, A. Albert, ed. IOS Press: Amsterdam and Presse de l'Universite de Quebec: Sainte-Foy, Canada (September 1995): 193-209. (Vol. 29 in the Series on *Frontiers in Artificial Intelligence*).
56. "Rational Choice and Political Economy," *Critical Review* 9 (July 1995): 189-211. Reprinted in *The Rational Choice Controversy: Economic Theories of Politics*, J. Friedman, ed. Yale University Press (August 1996): 189-211.
57. "Coalition Politics: A Formal Model and Empirical Analysis," *Journal of Theoretical Politics* 7 (April 1995): 245-281.
58. "Existence of a Smooth Social Choice Functor," in *Social Choice, Welfare and Ethics*, W. Barnett, et al., eds. Cambridge University Press (January 1995): 213-246.
59. "Party Competition in a Spatial Model of Coalition Formation," in *Political Economy, Competition, and Representation*, William Barnett, et al., eds. Cambridge University Press (August 1993): 135-174.
60. "Political Economy: A Personal Interpretation and an Overview," in *Political Economy*, (Ibid.): 1-22.
61. "Political Competition and Multiparty Coalition Governments," *European Journal of Political Research* 23 (January 1993): 1-33.
62. "Probability and Convergence for Supra-Majority Rule with Euclidean Preferences," (with C. Tovey) *Mathematical and Computer Modelling* 16 (September 1992): 41-58.
63. "La Manipolazione nella political economy," *Politeia* (Milan) 31 (December 1993): 24-42.
64. "Regole, equilibrio e credenze en economia e en politica," *Politeia* 27 (December 1992): 19-29.
65. "Smooth Social Choice," *Mathematical and Computer Modelling* 12 (May 1989): 417-435. Also published in Vol. 20 of the International Series in Modern Applied Mathematics and Computer Science. Pergamon Press: Oxford (1989).
66. "The Core and the Stability of Group Choice in Spatial Voting Games," (with B. Grofman and S. Feld) *American Political Science Review* 82 (March 1988): 195-211.

67. "Generalized Symmetry Conditions at a Core Point," (with R. D. McKelvey) *Econometrica* 55 (July 1987): 923-933. Reprinted in *A Positive Change in Political Science: The Legacy of Richard D. McKelvey's Writings*, J. Alt, J. Aldrich and A. Lupia, eds. University of Michigan Press (May, 2007). pp. 265-276
68. "Bargaining Theory and Cabinet Stability in European Coalition Governments: 1945-1983," (with Michael Laver), in *The Logic of Multiparty Systems*, M. Holler, ed. Martinus Nijhoff: Dordrecht: Netherlands (September 1987): 137-152.
69. "Bargaining in Weighted Majority Voting Games with an Application to Portfolio Distribution," in *The Logic of Multiparty Systems*, (Ibid): 51-65.
70. "Stability of Coalition Governments in Western Europe: 1945-1986," *The European Journal of Political Economy* 3 (December 1987): 555-591.
71. "Structural Instability of the Core," (with R. D. McKelvey) *Journal of Mathematical Economics* 15 (December 1986): 179-198.
72. "Existence of a 'Structurally Stable' Equilibrium for a Non-Collegial Voting Rule," *Public Choice* 51 (December 1986): 267-284.
73. "Permutation Cycles and Manipulation of Choice Functions," *Social Choice and Welfare* 3 (July 1986): 107-117.
74. "Anarchy, Altruism and Cooperation," *Social Choice and Welfare* 2 (November 1985): 207-219.
75. "Bargaining Theory and Portfolio Payoffs in European Coalition Governments 1945-1983," (with Michael Laver), *British Journal of Political Science* 15 (April 1985): 143-164.
76. "Classification Theorem for Smooth Social Choice on a Manifold," *Social Choice and Welfare* 1 (November 1984): 187-210.
77. "Existence of Equilibrium on a Manifold," *Mathematics of Operations Research* 9 (November 1984): 545-557.
78. "Social Equilibrium and Cycles on Compact Sets," *Journal of Economic Theory* 33 (June 1984): 59-71.
79. "The General Relevance of the Impossibility Theorem in Smooth Social Choice," *Theory and Decision* 16 (January 1984): 21-44.
80. "Bargaining over Public Goods," in *Coalitions and Collective Action*, M. Holler, ed. Physica Verlag: Wurzburg, (April 1984): 33-50.
81. "Political Fragmentation and the Stability of Coalition Governments in Western Europe," in *Coalitions and Collective Action* (Ibid.): 197-319.
82. "The Old and the New International Economic Order," in *Crisis in Economic Relations Between North and South*, N. Schofield, ed. Gower Press (January 1984): 7-34.
83. "The Lome Convention: The Political Economy of Relations between the European Community and the African Caribbean Group," in *Crisis*, (Ibid.): 103-143.
84. "The Political Economy of Copper and Aluminum," (with K. Hirschman), in *Crisis*, (Ibid.): 225-264.
85. "Generic Instability of Majority Rule," *Review of Economic Studies* 50 (October 1983): 695-705.
86. "Equilibria in Simple Dynamic Games," in *Social Choice and Welfare*, P. Pattanaik and M. Salles, eds. North Holland, Amsterdam (1983): 269-284.
87. "Analysis of Relations in an Organization," (with J. Alt). *Quality and Quantity* 17 (1983): 269-279.
88. "Bargaining Set Theory and Stability in Coalition Governments," *Mathematical Social Sciences* 3 (October 1982): 9-31.
89. "Instability and Development in the Political Economy," in *Political Equilibrium*, P. Ordeshook and K. Shepsle, eds. Martinus-Nijhoff, The Hague (1982): 96-106.
90. "The Relationship between Voting and Party Strength in an Electoral System," in *Power, Voting and Voting Power*, M. Holler, ed. Physica Verlag: Wurzburg (1981): 121-134.
91. "Generic Properties of Simple Bergson-Samuelson Welfare Functions," *Journal of Mathematical Economics* 7 (1980): 175-192.
92. "The Bargaining Set in Voting Games," *Behavioral Science* 25 (1980): 120-129.
93. "Catastrophe Theory and Dynamic Games," *Quality and Quantity* 14 (1980): 529-545.
94. "Formal Political Theory," *Quality and Quantity* 14 (1980): 249-275.
95. "Equilibrium in a Political Economy," in *Models of Political Economy*, P. Whitely, ed. Sage: Beverly Hills (1980): 251-275.
96. "Individual and Collective Rationality," in *Politics as Rational Action*, L. Lewin and E. Vedung, eds. Reidel: Rotterdam (1980): 99-120.

97. "Rationality or Chaos in Social Choice," *Greek Economic Review* 1 (1979): 61-76.
98. "Generalized Bargaining Sets for Cooperative Games," *International Journal of Game Theory* 7 (December 1978): 183-199.
99. "Instability of Simple Dynamic Games," *Review of Economic Studies* 45 (October 1978): 575-594.
100. "Cliques Analysis of a Tolerance Relation," (with J. Alt), *Journal of Mathematical Sociology* 6 (October 1978): 155-162.
101. "The Theory of Dynamic Games," in *Game Theory and Political Science* (1978) P. Ordeshook, ed. New York University Press, pp. 113-162.
102. "The Political Economy of Rational Entities," *Political Studies* 26 (March 1978): 138-147.
103. "Transitivity of Preferences on a Smooth Manifold," *Journal of Economic Theory* 14 (February 1977): 149-172.
104. "Dynamic Games of Collective Action," *Public Choice* 30 (Summer 1977): 77-106.
105. "The Logic of Catastrophe," *Human Ecology* 5 (September 1977): 261-271.
106. "Catastrophe Theory and Qualitative Change in Social Process," in *The General Systems Paradigm* (1977). The Society for General Systems Research, pp. 426-434.
107. "The Kernel and Payoffs in European Government Coalitions," *Public Choice* 26 (Summer 1976): 29-49.
108. "Cliques: A Suite of Programs for Extracting Cliques from a Symmetric Graph," with J. Alt, *Behavioral Science* 20 (1975): 134-135.
109. "A Game Theoretic Analysis of Olson's Game of Collective Action," *Journal of Conflict Resolution* 19 (1975): 441-461.
110. "Ethical Decision Rules for Uncertain Voters," *British Journal of Political Science* 2 (1972): 193-207.
111. "Is Majority Rule Special?" in *Probability Models of Collective Decision-making* (1972) R. G. Niemi and H. F. Weisberg, eds. Charles E. Merrill Publishing Co.: Columbus, Ohio, pp. 60-82.
112. "A Topological Model of International Relations," *The Peace Research Society Papers* 18 (1971): 93-111.

Submitted Working Papers

1. "The Transformation of the Republican and Democratic Coalitions in the United States ." (with Gary Miller). Under resubmission to *Perspectives on Politics*.
2. "Electoral Oscillations in Argentina." (with Guido Cataife, submitted to the special issue of *Public Choice* on Party Positioning. Working paper #34/2007, ICER, Turin.
3. "A Spatial Model of Party Positioning under Proportional Representation and Plurality Rule."(with Ugur Ozdemir), submitted to the special issue of *Public Choice* on Party Positioning
4. "Switching Equilibria". Submitted to *Party Switching*, edited by Will Heller and Carol Mershon.
5. "Modelling Politics." Working paper #33/2007, ICER, Turin. Submitted to *Homo Oeconomicus* .

Reviews, Notes and Miscellaneous

- "Modelling Social Choice." (in Russian) *Conference Volume :Modernisation of the State and the Economy* The Higher School of Economics, Moscow , June 2007, pp.133-135..
- Heresthetics and the Evolution of the US Constitution ",pp.279-281, and " Rational Choice Approachs to Economic and Political History",pp.465-468, in *The Encyclopedia of Public Choice*, edited by C. Rowley and F. Schneider,.Dordrecht and Boston:Kluwer (September 2003).
- "Chaos and Coalitions," in *The Encyclopedia of Democratic Thought*, J. Foweraker and B. Clarke, eds. London: Routledge (2001): 697-700.
- "Douglass North: A Pioneer of the Economics of Institutions and Laureate of 1993," in *The Frontiers of Economics, Nobel Laureates of the Twentieth Century*, edited by A. Wahid, Greenwood Press CT, June, 2002, pp. 283-290.
- "Review of Positive Political Theory I: Collective Preferences, (by D. Austen-Smith and J. Banks) *American Political Science Review* 95 (2001): 459-460.
- "Review of *The American Union and the Problem of Neighborhood*," (by J. E. Lewis) *Journal of Politics* 62 (2000): 315-319.
- "Review of *Tournaments, Solutions and Majority Voting*," (by J.-F. Laslier), *Journal of Economics (Zeitschrift fur Nationaleconomie)* 68 (1998): 313-317.

Discussion of "Voting Models in the Arrowian Framework" (by F. Aleskerov), in *Social Choice Re-examined* (1997) K. Arrow, A. Sen and K. Suzumura, eds. Macmillan: London, pp. 68-71.

"Prefaziojne all'edizione italiana," (the Italian edition of Riker's *Liberalism against Populism*), (1996) Edizioni di comunita: Milan, pp. XLII-XLVI.

"Introduction and Overview," with H. Moulin and M. Salles (1995) in *Social Choice, Welfare and Ethics*, pp. 1-9.

"Review of *Games as Models of Social Phenomena*," (by H. Hambruger), *Quality and Quantity* 16 (1982).

"Review of *Economic Aspects of Regional Welfare, Income Distribution and Unemployment*," (by C. P. Bartels) *Town Planning Review* 50 (January 1979).

"Review of *The Analysis of Political Cleavages*," (by Rae and Taylor), *Political Studies* (1971)

Structural Stability of Dynamical Systems. Institute of Fluid Mechanics, Essex University (1971), 100 pp.

Conference and Seminar Presentations

2007.

Lectures by Invitation: George Mason University, *March*; Caltech and Funchal, Madeira, *April*, Brescia, *May*; Vigo, Spain, *June*.

Organizer of a Conference on *Constitutional Political Economy*, ICER, Turin, *June 27-29*. "Transformation of the Republican and Democrats Coalitions in the United States." (with Gary Miller), presented at the Conference.

"The Collapse of Authoritarian Regimes. Presented at the Logic, Game Theory and Social Choice Conference, Bilbao, *June*.

"The Heart and stochastic electoral Models." Presented at the conference on Simulation and other quantitative approaches to the assessment of electoral systems, Alessandria, Italy, *June 2-4*.

"A Model of Political Competition with Activists applied to elections in Argentina, 1985-1995." (with Guido Cataife). Presented at the World Public Choice Meeting, Amsterdam, *April*.

"The Spatial Model of Coalition" Presented at the Conference on Party Positioning, Center on Democratic Performance, SUNY, Binghamton, *March*.

"Equilibria in the Spatial Stochastic Model of Voting with Party Activists." Presented at the Southern Political Science Meeting, New Orleans, *January*.

2006.

Lectures by Invitation: ITAM, Mexico City, *January*; Hautes Ecole Commerciale, Montreal, *March*; Higher School of Economics, St.Petersburg, *April*. Department of Economics, Carleton University, Ottawa; Center for Mathematical and Statistical Modelling, William Laurier University, Waterloo, Canada.; Departments of Political Science and Economics, SUNY, Binghamton, *October*.

"Divergence in the Spatial Stochastic Model." Presented at the Conference on Power and Freedom, Hamburg, 17-20 *August*

"Modelling Social Choice". Presented at the conference on European Governance, Emory University, *February 17*, at the Congress on Modernization of the State and the Economy, Moscow, *April*. and the ISNIE conference, Boulder, CO, *September*.

"A Model of Political Competition with Activists applied to elections in Argentina, 1985-1995." (with Guido Cataife). Presented at the Meeting of the Latin American Economics Association, Mexico City, *November*.

Participant: 13th Annual Conference at the Wallis Institute, Rochester, *October*.

Chair, panel on Social Quandaries, International Studies Association Meeting, San Diego, *March*.

2005.

Lecture by Invitation: Institute of Mathematical Behavioral Science, UC Irvine, *April*, Department of Economics, Concordia University, Montreal, *October*.

Organizer of a Conference on *Constitutional and Scientific Quandaries*, ICER, Turin, June 22-26.

Co-organizer of a Conference on *Political Economy*, Cancun, March 30-April 1.

"*Social Choice and Elections*". Presented at the Southern Political Science Ass.Meeting, New Orleans, January.

"*Electoral Equilibria with Party Principals*". Presented at the International Studies Association Conference, Hawaii, at the Public Choice Meeting, New Orleans, March, at Conferences on political economy, Cancun and Guanajuato, Mexico, April, and at the Meeting of the *Society for the Advancement of Economic Theory*, Vigo, Spain, July..

"*Switching Equilibria*". Presented at the conference on Party Switching, University of Virginia, Charlottesville, July

"*Divergence in the Spatial Stochastic Model*". Presented at the XXVI Encontro Brasileiro de Econometria, Natal, December.

2004.

Lectures by Invitation: Duke University, February, Carnegie Mellon University, September, University of Southern Illinois, Carbondale, October, Department of Political Science, Yale University; Woodrow Wilson School, Princeton University, November; New York University and CalTech, December..

"*Constitutional Quandaries and the Dynamics of Political Economic Change in a Non-ergodic World*". Presented at the conference on the Future of Social Science, October 7-9, Washington University.

"*Political Equilibria and Smooth Elections*". Presented at the conference on Party Switching, Trinity College, Dublin, July 5-8.

"*Local Political Equilibria and Elections in Britain: 1992-2002*". Presented at the 1st Conference on Theoretical and Empirical Models of Politics, Washington University in St. Louis, January 16-18.

"*Multiparty Politics in Israel*." Presented at the 2nd conference on Theoretical and Empirical Models of Politics, Washington University in St. Louis. March 15-16.

2003

"*Constitutional Quandaries*." Inaugural Lecture, Humboldt University, Berlin, January 17

"*General Equilibrium in the Spatial Model of elections*." Presented at the European Public Choice Meeting, Arhus, Denmark, April.

"*Quandaries of Revolution and Civil War*". Presented at the Conference on Revolution, Turin, June.

Lectures by Invitation: Nuffield College, Oxford, February, Universities of Caen and Toulouse, May; Universities of St. Gallen, Konstanz, Siena, Bergamo, Messina, Palermo and Graz, June, State University of Montana, July

. Participant at the Political Economy Conference, Wallis Institute, University of Rochester, October

2002

Lectures by Invitation: ISR, University of Michigan, February; Tulane University, March; Rochester University, April. CERGE (Prague); Department of Economics, University of Vienna (Austria); Department of Political Science, University of Mannheim (Germany); Department of Government, University of Essex; Trinity College, Dublin (Ireland), October; School of Economics, Warsaw, Poland, November; Department of Economics, University of Hamburg, December.

"Existence of General Political Equilibrium", presented at the *World Congress of the International Economic Association*, Lisbon, Portugal, August.

"The Intellectual Contribution of Condorcet to the Founding of the U.S. Republic: 1787-1800." Presented at the Conference on *The History of Social Choice*, University of Caen, Normandy, October.

"The Development of William Riker's Research Program on US Political History: 1763-1865," and "Power, Prosperity and Social Choice," presented at the Meeting of the Public Choice Society, San Diego, *March*.
"Economic Factors and Political Ideologies" presented at the Midwest Political Science Meeting, Chicago, *April*.
2001

Lectures by Invitation: Tel Aviv University and Bogazici University, Turkey, *April*.

"Representative Democracy and Electoral Rules," presented at the Conference on *Coalitions and Elections*, University of Bologna, *May*.

"Local Nash Equilibrium," presented at the Fifth International conference of the Society for the Advancement of Economic Theory, Ischia, Italy, *July*.

"Constitutional Quandaries and Critical Elections," presented at the conference on *Constitutions*, Columbus, Ohio, *May*.

Participant at the Workshop on *Politics, Markets and Social Change*, Stanford University, *February 2-3*.

"The Vices and Virtues of the Republic," presented at the Conference on *True Principles: James Madison's Political Science*, University of California - San Diego, *March 16-17*.

2000

Participant in Conference on "Political Institutions and Economic Policy," Harvard, *November*.

Lectures by Invitation: Department of Political Science, Columbia University, *March*; School of Public Policy, University of Chicago, *June*; Department of Economics, University of Valencia; CREED, University of Amsterdam; Department of Economics, Humboldt University, Berlin, *July*.

"Representative Democracy and Social Choice," presented at the Conference on Democratization, Houston, *February*; The Meeting of the European Public Choice Society, Siena, Italy, *April*; The Meetings of the Society for Social Choice and Welfare, Alicante; The Society for Public Economic Theory, Warwick, *July*.

1999

Lectures by Invitation: Institute of Math. Behavioral Sciences, University of California, Irvine, *February*. Hoover Institution, Stanford, *March*; Yale University, *October*; MIT, *December*.

"Constitutional Political Economy: Rational Choice Theory and Comparative Politics," presented at the Conference on *Historical and Formal Comparative Politics*, Washington University, *December*.

"Partisan Realignment and Majority Rule Instability," (with Gary Miller), presented at the Political Economy Conference, Washington University, *May*.

"Core Beliefs in America at the War of Independence and the Ratification of the Constitution," presented at the Public Choice Society Meeting, New Orleans, *March*.

"The Heart as a Continuous Aggregator of Smooth Preferences," presented at the Conference on *Optimization*, Guadaloupe, *March* and at the 12th World Congress of the International Economic Association, Buenos Aires, *August*.

1998

Lectures by Invitation. Department of Political Science, University of Tel Aviv and Department of Economics, Hebrew University of Jerusalem, Israel, *October*.

"The Heart of the Atlantic Constitution 1919-1998," (*September*) and "Core Beliefs in America at the War of Independence," (*December*) were presented at the Economic History Workshop, Washington University.

"The Heart and the Uncovered Set," presented at the 4th International Conference on Social Choice and Welfare, University of British Columbia, *July*.

"Political Equilibrium in Multiparty Democracies," (with I. Sened) presented at the Public Choice Meeting, New Orleans, *March*; at the Midwest Political Science Meetings, Chicago, *April*; at the Conference on *Modeling*

Politics, Washington University, *May*; at the 3rd International Conference on Game Theory, Barcelona, Spain, *June*.

1997

Lectures by Invitation. Department of Politics, New York University, *May*.

"Equilibrium or Chaos in Preference and Belief Aggregation: Observations on the Work of Kenneth Arrow." Presented at the Panel on *Nobel Laureates*, Sage Foundation, New York, *November*.

"A Fine Topology on Preferences." Presented at the Conference on *Mathematical Utility Theory*, Essen, *October*.

"A Comparison of Majoritarian and Proportional Electoral Systems." Presented at the Conference on *Constitutions*, Messina, Sicily, *September*.

Co-Organizer of the Conference on *Rationality*, University of Caen, *June*.

"Multiparty Electoral Competition in the Netherlands and Germany: A Model Based on Multinomial Probit." Presented at the Public Choice Meetings, San Francisco, *March*; European Public Choice Meeting, Prague, Czech Republic, *April*; Conference on *Game Theory*, Valencia, *July*.

1996

Lectures by Invitation. Department of Government, Harvard University, *March*; London University, Essex University and the University of Belfast, *April*; Academia Sinica, Taiwan, *January*.

"Aggregation of Smooth Preferences." Presented at the Southern European Economics Meeting, Alicante, Spain, *November*.

"Aggregation of Preferences, the Heart and Multiparty Competition." Presented at the Conference on *Game Theory and Politics*, Galicia, Spain, *June*, and at the Summer Institute on Game Theory and Economics, Stonybrook, New York, *July*.

1995

Lectures by Invitation: Department of Economics, University of Alabama, *February*; Department of Economics, University of Illinois, Champaign, *April*; Department of Economics, University of Aarhus, Department of Economics, University of Trondheim, *June*.

"Aggregation of Preferences in Social Choice and Voting." Presented at the *Roundtable on Voting Procedures*, University of Caen, *May*; at the Conference on *New Directions in the Theory of Markets and Games*, Fields Institute, Toronto; and the Midwest Math Economics Meeting, Minneapolis, *October*; and the Meeting of the International Economics Association, Tunis, *December*.

"Multiparty Competition and the Heart." Presented at the Workshop on *Analysis of Political Institutions*, Kellogg Graduate School of Management, Northwestern University, *July*.

"Multiparty Spatial Competition among Probabilistic Voters" (with Nixon, Olomoki, and Sened). Presented at the Midwest Political Science Meetings, Chicago, *April*.

"Rules, Beliefs and Equilibrium in Social Mathematics." Presented at the European Public Choice Meeting, Saarbrucken, *April*.

Participant and Discussant at the Conference on *Frontiers of the New Institutional Economics*, Washington University, *March*.

1994

Lectures by Invitation. Department of Economics, University of British Columbia, Vancouver, *September*; Department of Economics, University of Navarra and the University of Carlos III, Madrid, Spain, *April*; Center for Policy Studies, Yale University; College of William and Mary, *January*.

"The C^1 -Topology on the Space of Preference Profiles and the Existence of a Continuous Preference Aggregator." Presented at the Robert Schumann Center and the Department of Economics, European University Institute, Fiesole, Italy, *December*.

"Rational Choice Theory: Mathematics, Mechanics or Alchemy?" Presented at the Roundtable on Formal Political Theory, Annual Meetings of the APSR, New York, *September*.

"Classification Theorems for Voting: Finite Electorates and Euclidean Preferences." Presented at the Conference on Combinatorics in the Behavioral Sciences," University of California-Irvine, *August*.

Member of the program Committee for the 2nd International Meeting of the Society for Social Choice, Rochester, New York. Presented "Research Programs in Preference and Belief Aggregation," *July*.

Participant at the International Conference on Social Choice (The International Economic Association) Vienna. Presented "Classification of Voting Operators," *May*.

"General Equilibrium in a Political Economy." Presented at the European Public Choice Meetings, Valencia, Spain, *April*.

Participant at the conference on "Constitutionalism," Murphy Institute, Tulane; New Orleans, *February*.

1993

Lectures by Invitation. Department of Economics, University of Rochester; Woodrow Wilson School, Princeton University, *May*; Department of Economics, University of Auckland, New Zealand, *December*.

Participant at the Conference on the Political Economy of Law, Allen Wallis Institution of Political Economy, Rochester, *October*.

"Existence of Nash Equilibrium in a Spatial Model of Competition," (co-authored with R. Parks). Presented at the European Public Choice Meetings, Portrush, Ireland, *April*; at the Public Choice Meetings, New Orleans, *March*; Meeting of the Society of the Advancement of Economic Theory, Cephalonia, Greece, *June*.

Chairperson, panel on "Formal Models in Comparative Politics and International Relations," at the Annual Meeting of the International Studies Association, Acapulco, *March*.

1992

Lectures by Invitation. Department of Economics, Seoul National University, Universities of Tokyo and Tsukuba, Japan, Chinese National University Hong Kong, *December*; Department of Political Science, UCLA and Division of Social Sciences, Caltech, *November*; Department of Political Science, University of North Carolina at Chapel Hill, *October*; Department of Economics, Duke University, *April*; Department of Economics, Linz University, Austria, *June*.

"Existence of a Smooth Social Choice Functor." Presented at the International Meeting of the Society for Social Choice and Welfare, Caen, France, *June*; and at the International Conference on Game Theory, Stonybrook, New York, *July*.

Member of the Program Committee for the First Conference of the Society for Social Choice and Welfare, Caen, France, *June*.

"Political Competition in Multiparty Coalition Governments." Presented at the Conference on Coalitions and Bargaining, Tel Aviv University, Israel; and at the Conference on Rational Choice Approaches to Comparative Politics, Irvine, California, *May*.

Department of Economics, University of Amsterdam, *March*; "Probability and Convergence for Supra-Majority Rule with Euclidean Preferences," (co-authored with Craig Tovey), presented at the European Public Choice Meetings, Turin, Italy, *April*; and at the Public Choice Meetings, New Orleans, *March*.

1991

"Democratic Stability." Presented at the Conference on Democracy, the International Political Science School, Tallinn, Estonia, and l'Ecole des Hautes Etudes Commerciales, Montreal, Canada, *October*.

Chairperson, panel on "Theory and Methodology in Comparative Politics," Annual Meeting of the American Political Science Association, Washington, D.C., *August 28-September 1*.

Co-organizer of Political Economy: Institutions, Information, Competition and Representation, the Seventh International Symposium in Economic Theory and Econometrics, Washington University, St. Louis, *May 23-25*. Presented "A Theory of Coalition Government in a Spatial Model of Voting."

Les Procedures de Vote. Presented at the University of Caen, *April*.

"Empirical Analysis of the Conditions for Stable Coalition Formation," presented at the European Public Choice Meetings, Beaune, France, *April 3-6*, at the Public Choice Meeting, New Orleans, *March 15-17*. Later revision of the paper, presented at the American Political Science Meeting, Washington D.C., *August 29-31*.

1990

"Empirical Analysis of the Conditions for Stable Coalition Formation." Presented at the Conference on Social Choice, University of Rochester, *October*.

Chairperson, Panel on "Democratic Community," held by the American Society for Legal Philosophy, in conjunction with the American Political Science Annual Meeting, San Francisco, *August 27-September 2*.

Participant, Conference on Game Theory and Political Science, University of New York at Stonybrook, *July*.

"Nash Equilibrium of Party Competition in the Spatial Model of Voting," presented at the ECPR Joint Workshops, Bochum, Germany, and the European Public Choice Meeting, Meersburg, Germany, *April*; and at the Annual Meeting of the Public Choice Conference, Tuscon, *March*.

"Modelling Political Strategies: Chaos, Coherence and Belief Structures." Presented at the research workshop on "Political Economy and the Newly Industrializing Countries," at the Graduate School of International Relations and Pacific Studies, University of California at San Diego, *January*.

1989

"The Strategy of Party Competition," presented at the Conference on Social Choice and Welfare, Valencia, Spain, *July*; at the Institute of Control Sciences, Academy of Sciences, Moscow USSR, *June*; and at the Public Choice Meetings, Orlando, Florida, *March*.

1988

Lectures by Invitation. Department of Economics, University of Washington, Seattle, *May*, Department of Economics, University of Oregon at Eugene, *November*

Participant at the Conference on Economic Theory of Democracy, School of Social Sciences, University of California at Irvine, *October*.

"Smooth Social Choice," presented at the Conference on *Modelization, Analyse et Aggregation des Preferences et des Choix, en l'honneur de Condorcet*, Centre International de Rencontres Mathematiques, Universite Marseille-Luminy, France, *April 25-30*.

Participant at the Conference on the Logic of Social Change, Murphy Institute, Tulane University, New Orleans, *April 16-17*.

"The Spatial Theory of Democracy and Coalition Governments in Europe: 1945-86," presented at the Panel on *Coalitions and the Electoral Process*, The Annual Meeting of the Public Choice Society, San Francisco, *March 18-20*.

"Chaos in Politics and Economics," presented at the Law and Policy Workshop, School of Law, McGill University, Montreal, *March*.

1987

Lectures by Invitation. Instituto Tecnologico Autonomo, Mexico City, *December*; Department of Political Science, Rochester University, *February*.

Director of Workshop on Coalition Theory and Multiparty Coalition Governments in Western Europe, the European Consortium for Political Research Meeting, Amsterdam, Holland, *April 10-15*. Presented "Stability of Coalition Government."

Organizer of Conference on European Cabinet Coalitions, Party Manifestos and Government Formation and Dissolution, The European University Institute, Fiesole, Italy, *May 23-30*. Presented "Coalitions in West European Democracies: 1945-1986," and "The Core and the Stability of Group Choice in Spatial Voting Games," (with B. Grofman and S. Feld).

1986

"Structurally Stable Cores for Non-Collegial Voting Rules," presented at the Meeting of the Operations Research Society of America, Los Angeles, *April*.

1985

Lectures by Invitation. Institute of Mathematical Economics, University of Munich, *December*; School of Business, Washington University in St. Louis, and Department of Decision Sciences, Wharton School, University of Philadelphia, Pennsylvania, *September*; Department of Political Science, UCLA; Centre of Policy Studies, Monash University, Melbourne, Australia, *April*; Department of Mathematical Economics, University of Bielefeld, Germany, *March*; Department of Mathematics, Naval Postgraduate School, Monterey, Department of Economics, Simon Fraser University, Vancouver; Department of Economics, University of British Columbia, Hoover Institution, Stanford University, *February*; Department of Economics, Bogazici University, Istanbul, *January*.

"Existence of Permutation Cycles and Manipulation of Choice Functions." Presented at the Fifth World Congress of the Econometric Society, Boston, *August*.

"Manipulation or the International Economy." Presented at the Panel on the State in the New Political Economy, the XIIIth IPSA World Congress, Paris, *July*.

"Generalized Symmetry Conditions at a Core Point," (with R.D. McKelvey), presented at the Weingart Conference on Formal Models of Voting, California Institute of Technology, *March*.

"Structural Stability of the Core," (with R.D. McKelvey), presented at the Weingart Conference on Social Choice, California Institute of Technology, *March* and at the panel on Social Choice Theory, Annual Meeting of the Public Choice Society, New Orleans, *February*.

1984

Lectures by Invitation. Departments of Philosophy and Political Science, University of Arizona at Tucson; Department of Economics, University of Maryland, College Park; Department of Economics, Syracuse University; Department of Political Science, University of North Carolina at Chapel Hill, *November*; Center for the Study of American Business, Washington University, St. Louis; Department of Mathematics, University of Wisconsin at Milwaukee; Department of Political Science, Rochester University, *October*; Department of Economics, University of Munich, *July*; workshop in Political theory and Policy Analysis, Indiana University; Committee on Public Policy Studies and the Department of Political Science, University of Chicago, *May*; Department of Economics, University of California at Los Angeles, *April*.

"Employment Programs in Britain and the European Community." Research report presented to the Productive Employment Program, Los Angeles, California, *September*.

"Manipulation of the Economy." Presented at the Bosphorus Workshop on Industrial Democracy, Istanbul, *September*.

Workshop Chair, Summer Institute on Normative and Foundational Aspects of Public Choice Theory, Dalhousie University, Halifax, Nova Scotia, *July 28-August 19*. Presented plenary lecture, "The Theory of Collective Choice in Geometric Settings."

"Existence of a Structurally Stable Equilibrium in a Class of Voting Games." Presented at the Workshop on Mathematical Models in Political Science, Institute for Mathematics and its Applications, University of Minnesota, *July*.

Chaired Panel on "The Spatial and Axiomatic Theory of Voting and Agenda Setting," Public Choice Meeting, Phoenix, Arizona, *March 29-31*; and presented "Classification Theorem for Voting Rules on a Manifold."

1983

Lectures by Invitation. Caen; Rotterdam; Washington University, St. Louis; University of Maryland; Newcastle University.

"Innovation and the Socially Optimal Rate of Investment," presented at the ECPR Research Meeting on Industrial Policy, Nijmegen, Holland, *October*.

"Coalitions in West European Democracies," presented at the Research Meeting on The Failure of Party Government, European University Institute, Fiesole, Italy, *June*, and at the International Political Studies Association's XII World Congress, Rio de Janeiro, Brazil, *August*.

"Political Fragmentation and the Stability of Coalition Governments in Western Europe." Presented at the European Public Choice Meeting, Poitiers, *March*.

"Manipulation of the Political Economy." Presented at the Workshop on Industrial Policy, ECPR Meeting, Aarhus, *March*.

Participation in the NSF Conference on Public Policy, University of California at Irvine, *January*.

1982

Lectures by Invitation. Aarhus; Bochum; Turku; Tampere.

"Political and Economic Equilibrium on a Manifold" Presented at the International Conference on The Economics of Information, Luminy-Marseilles, *September*.

"Equilibrium and Cycles in Voting on Compacta." Presented at the European Public Choice Meeting, Oxford, *April*.

"Social Equilibrium in a Smooth Economy without Convexity." Presented at the SSRC Conference on Mathematical Economics and Public Policy, Essex University, *March*.

1980

Lectures by Invitation. Bilbao; Bordeaux; Paris; Copenhagen.

"Bargaining Set Theory and Stability in Coalition Governments." Presented at the European Public Choice Meeting, Florence, *April*.

"Smooth Social Choice." Presented at the 4th World Congress of the Econometric Society, Aix-en-Provence, *August*.

1979

"The Bargaining Set in Voting Games." Presented at the Public Choice Meetings, Charleston, *March*.

"Generic Properties of Simple Bergson Samuelson Welfare Functions." Presented at the European Econometrics Meetings, Athens, *September*.

1978

"Rationality or Chaos in Social Choice." Presented at the Colloquium on "Rationality," Maison des Sciences de l'Homme, Paris, *December*.

"The General Relevance of the Impossibility Theorem in Smooth Social Choice." Presented at the 74th Annual Meeting of the American Political Science Association, New York, *August*.

"Singularity Theory and Dynamic Games." Presented at the Mathematics Symposium, University of Texas at Austin, *March*.

"Generic Instability of Majority Rule." Presented at the Public Choice Meeting, New Orleans, *March*.

1977

"Acyclicity of a Dynamical Social Preference Function." Presented at the Annual Meeting of the American Economic Association, New York, *December*.

"Individual and Collective Rationality." Presented at the Symposium on "Politics as Rational Action," celebrating the Quincentenary of the University of Uppsala, Sweden, *October*.

"Global Analysis and Social Choice." Presented at the European Econometric Society, Vienna, *September*.

"The Theory of Dynamic Games." Presented at the European Econometric Society, Vienna, *September*.

"Catastrophe Theory and Qualitative Change in Social Processes." Presented at the Annual Meeting of the Society of General Systems Research, Denver, *February*.

1976

"Dynamic Games of Collective Action." Presented at the Public Choice Symposium, Department of Political Science, Washington University at St. Louis, *April*.

"Micro Paradoxes and Macro Contradictions." Presented at the Public Choice Symposium, Department of Political Science, Washington University in St. Louis, *April*.

1975

"Optimization on Differentiable Manifolds." Presented at the Panel on Formal Theory of Mass Behavior, the Annual Meeting of the American Political Science Association, San Francisco, *August*.

1974

"Bargaining in Organizations." Presented at the Mathematical Social Science Board Conference, San Diego, California, *August*.

"On Generalized Solutions to Cooperative Games." Presented at the MSSB Conference, *August*.

"Strategy in Organizations." Presented at the ECPR Workshop, Strasbourg, *April*.

"Game Theoretic Approaches to Collective Behavior." Presented at the Recontre on Mathematical Models in Social Sciences, Department of mathematics, University of Warwick, *March*.

1973

"Clique Analysis of Trade Relations," (co-authored with J. Alt). Presented at the IV Bergen Colloquium on Mathematical Sociology, Hemsedel, Norway, *December*.

"Dynamical Models of Behavior." Presented at the Panel on Formal Models of Behavior, The International Political Studies Association IX World Congress, Montreal, *September*.

1972

"The Logic of Catastrophe." Presented at the Annual Meeting of the International Institute of Management Science, Houston, Texas, *April*.

"Structure in Organizations," (co-authored with J. Alt). Presented at the Industrial Sociology Unit, Imperial College, London, *January*.

"Representation of Complexity in Voting Bodies: The Example of the U.S. Senate," (co-authored with J. Alt), University of Essex.

1971

"A Topological Model of International Relations." Presented at the Peace Research Society, London, *June*.

1969

"Smoothing Homotopy Manifolds." Presented at the Mathematics Seminar, Liverpool University.

OCCASIONAL REVIEWER FOR:

Journal of Mathematical Economics; Mathematics of Operations Research, Journal of Economic Theory, Review of Economic Studies, Econometrica, International Economic Review, Behavioral Science, Journal of Conflict Resolution, British Journal of Political Science, American Journal of Political Science, American Political Science Review, International Journal of Game Theory, Social Choice and Welfare, Journal of Mathematical Social Science, Mathematical Review, The Siam Review, American Economic Review and the National Science Foundation.

TEACHING EXPERIENCE

Washington University, Department of Economics, 1986—

Courses: (Ph.D.): Social Choice and Welfare
Quantitative Methods in Economics I
(MA) Political Economy
(undergraduate) Politics, Economics and Welfare
International Political Economy
Senior Seminar in Political Economy

California Institute of Technology, 1983-85:

Courses: (Ph.D.): Differential Topology;
Smooth Economies and Manipulation
(B.A.): Formal Theories in Political Science; Democratic Theory.

University of Essex, 1979-1982 and 1985-1986:

Responsibilities: Director, Graduate Programme in Economics
(1980-81 and 1985-86).
Co-Director, B. A., Scheme in Economics and Government
(1979-81 and 1985-86).

Courses: (Ph.D.): Advanced Economic Theory
Quantitative Methods: Mathematical Economics;
International Political Economy (and B.A.)
(B.A.): Government/Economics Joint Seminar;
The Political Economy of Advanced Industrial Society;
Quantitative Methods: Statistics.

University of Texas, Department of Government, 1976-1979:

Responsibilities: Co-Director, Ph.D., Program in Formal Theory;
Director, Ph.D. Program in Methodology;
Director, Ph.D. Program in International Relations

Courses: (Ph.D.): Political Economy; Topics in Game Theory;
International Political Economy; Formal Theory
(B.A.): Topics in International Relations; Decision Theory;
Statistics for Social Scientists; Logic and Politics;
Politics of International Economic Cooperation.

Essex University, Department of Government, 1970-1976:

Responsibilities: Co-Director, M.A. Scheme in Formal Political Analysis;
Director, B.A. Scheme in Economics and Government

Courses: (M.A.) Mathematical Political Theory; Advanced Research Methods
Introduction to Mathematical Politics;
Elements to International Relations;
Political Theory and Conjecture;
Economic and Political Decision-Making.

Yale University, Department of Political Science, 1973:

Courses: (Ph.D.): Introduction to the Theory of Statistics for Political Analysis
(B.A.): Theory and Strategy of Political Decision

Summer School of the European Consortium for Political Research:

Courses: Regression Analysis (1974)
Probability and Distribution Theory (1975)
Collective Choice and Bargaining (1978)
Recent Advances in Formal Political Theory (1979)
Social Choice (1980-81)

Empirical Implications of Theoretical Models. NSF Program at Washington University, June 2004.

Coalition Theory (with Itai Sened).

SUPERVISION OF GRADUATE STUDENTS

Supervisor and PhD
Committee Member:

T. Sullivan, Austin, Texas (Political Theory) 1980
S. Gragg, Austin, Texas (Social Choice) 1981
F. Petry, Austin, Texas (Social Choice) 1982
J. Uriarte, Essex (Economic Theory)
Timothy Iijima (Public Finance) 1996,
D. Falaschetti (Political Economy) 1999,
L. Conklin Frederking (Political Science), 2001,
Fan-Chin Kung (Economic Theory)
Guido Cataife (Political Economy, 2008,
all at Washington University.

**REFERENCES
(Political Science)**

Professor John Ferejohn
Hoover Institution
Stanford, CA 94305-2305

Tel: (650) 723-0221

Professor Kenneth Shepsle
Department of Government
Harvard University
Cambridge, MA 02138

Tel: (617) 495-4928

Professor Ian Shapiro
Department of Political Science
124 Prospect Street
Yale University
New Haven, CT 06520-8301

Tel: (203) 432-5230

**REFERENCES
(Economics)**

Professor Kenneth Arrow
Department of Economics
Stanford University
Stanford, CA 94305-6071
USA

Tel (1) 650-723-9165
Fax (1) 650-725-5702

Professor Douglas North
Olin Professor of Economics
Hoover Institution
Stanford, CA 94305-6071
USA

Tel (1) 650-723-0769
Fax (1) 650-723-1687

Professor Amartya Sen
Department of Economics
Harvard University
Cambridge, MA 02138
USA

Professor Maurice Salles
Insitut SCW / MRSH
Universite de Caen
F-14032 Caen Cedex
FRANCE

Tel (33) 2 31566248
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