

NANCY DELANEY CARTWRIGHT FBA

Professor: Department of Philosophy
University of California at San Diego
La Jolla, CA 92093-0119
January, February, March yearly

Department of Philosophy, Logic and Scientific Method
London School of Economics and Political Science
Houghton Street
London WC2A 2AE
April to July and October to January yearly

Address: 7 Beaumont Road, Headington Quarry, Oxford, OX3 8JN, UK

435 S. Sierra, #118, Solana Beach CA, 92075, USA

Birthdate: 24 June, 1944

Citizenship: USA, UK

Married: Sir Stuart Hampshire (deceased)

EDUCATION

1971 PhD, University of Illinois, Chicago Circle, Philosophy. Dissertation: "Philosophical Analysis of the Concept of Mixture in Quantum Mechanics" (Fellowships: Carnegie, Danforth, Woodrow Wilson)

1966 BSc, University of Pittsburgh, Mathematics, *Summa cum laude*

CURRENT POSITIONS

Professor, Department of Philosophy, Logic and Scientific Method, London School of Economics and Political Science (since 1991)

Professor, Department of Philosophy, University of California at San Diego (since 1998)

PREVIOUS ACADEMIC POSITIONS

2006 – 08 Director, LSE Centre for Philosophy of Natural and Social Science

2001 – 06 Chair, LSE Centre for Philosophy of Natural and Social Science

2001 Short Term Visiting Professor, Oslo University

2000 Senior Philosophy Visitor, Pitzer and Pomona Colleges

1997 Visiting Professor, Humanities, California Institute of Technology

1995 Short Term Visiting Professor, Philosophy, Oslo University

1994 Short Term Visiting Professor, Philosophy, Oslo University

1993 – 01 Director, LSE Centre for Philosophy of Natural and Social Science

1973 – 91 Assistant - Full Professor, Philosophy, Stanford University

- 1984 Visiting Professor, Philosophy, University of Pittsburgh
- 1978 Visiting Associate Professor, Philosophy, Princeton University
- 1976 Visiting Assistant Professor, Philosophy, UCLA
- 1974 Visiting Lecturer, Cambridge University
- 1971 – 73 Assistant Professor, Philosophy, University of Maryland

FELLOWSHIPS AND HONOURS

- 2011 Member, Doctorate School in Philosophy of the Università "Ca' Foscari", Venice
- 2009 Chancellor's Associates Faculty Excellence Award for Excellence in Research in Arts, Humanities and Social Sciences, University of California at San Diego
- 2007 Titular Member, Académie Internationale de Philosophie des Sciences (A.I.P.S.)
- 2007 Fellow, Institute for Advanced Study, Durham University
- 2005 Senior Visiting Fellow, Institute for Advanced Studies, University of Bologna
- 2004 Fellow, American Philosophical Society
- 2002 - 2014 Associate Member, Nuffield College, Oxford
- 2001 Foreign Honorary Member, American Academy of Arts and Science
- 1999 Member, Deutsche Akademie der Naturforscher Leopoldina (The German National Academy of Natural Science)
- 1996 Fellow, British Academy
- 1996 Old Dominion Fellow, Philosophy, Princeton University
- 1995 – 01 Long-term Member of Common Room, Wolfson College, Oxford
- 1993 – 98 Fellow, MacArthur Foundation
- 1987 – 88 Fellow, Wissenschaftskolleg (Institute for Advanced Study), Berlin
- 1984 Fellow, Philosophy of Science Center, University of Pittsburgh
- 1982 – 83 Fellow, ZiF (Center for Interdisciplinary Research), Bielefeld, Germany
- 1976 – 77 Fellow, Philosophy of Science Centre, University of Pittsburgh
- 1971 – 72 Postdoctoral Fellow, U.S. National Science Foundation, Cambridge University

ADVISORY BOARDS, PROFESSIONAL AND ADMINISTRATIVE POSITIONS

- 2011 Member of sub panel 32 (Philosophy) of REF 2014.
- 2009 Consultant to Consortium of Institutes of Advanced Study for the REF (Research Excellence Framework) Consultation: 'Measuring Research Impact: Special Problems'
- 2008-2010 Member, Committee on Advancing Social Science Theory: The Importance of Common Metrics US National Research Council (National Academy of Sciences, Washington DC)

- 2008 – 09 President, American Philosophical Association (Pacific Division)
- 2007-2012 Member, Committee on Developing a Research Agenda for Social Science Evidence for Use, US National Research Council (National Academy of Sciences, Washington DC)
- 2007 – 08 Vice-President, American Philosophical Association (Pacific Division)
- 2008 – 10 President, Philosophy of Science Association
- 2007 Member, Search Committee for a Senior Research Fellow, All Souls College, Oxford
- 2006 – 08 Director, Centre for Philosophy of Natural and Social Science, London School of Economics
- 2003 – 08 Representative of the AHRB on the Management Committee for the AHRB Research Centre for Philosophy of Logic, Language, Mathematics and Mind, St Andrews
- 2005 Member, Management Committee, BIOS, London School of Economics
- 2004 – 05 Member, Standing Committee on Standards of Evidence and the Quality of Behavioural and Social Science Research, U.S. National Research Council (National Academy of Sciences, Washington DC)
- 2002 – 03 Vice-President, British Association for the Advancement of Science
- 2002 Chair, Program Committee for Philosophy of Science and Epistemology, Fourth European Congress for Analytical Philosophy
- 2001 – 06 Chair, Centre for Philosophy of Natural and Social Science, London School of Economics
- 2001 – 02 President, History of Science Section, British Association for the Advancement of Science
- 1999 – 00 Member, Steering Committee of the Cities, Architecture & Engineering Programme, London School of Economics and Political Science
- 1999 Member, Management Committee of the Centre for the Study of Global Governance, London School of Economics
- 1998 Member of the Scientific Board, Society for the Advancement of the Scientific World Conception, Institute Vienna Circle
- 1998 Member, Advisory Board of the Alternative Natural Philosophy Association
- 1997 Member, Ad Hoc Appointments Committee, Institute for Advanced Study, Princeton
- 1997 Member, Steering Committee for Summer School on Theory of Knowledge, Institute of Philosophy and Sociology, Warsaw
- 1996 – 99 Member, Science and Technology Studies Advisory Panel for James S McDonnell Centennial Fellows Program
- 1996 – 98 Member, Advisory Board for the Center for History of Recent Science, Washington, D.C.
- 1995 Member, Ad Hoc Appointments Committee, Institute for Advanced Study, Princeton
- 1994 – 02 Member, Oversight Committee for the Centre for the History of Science, Technology and Medicine, Imperial College, London
- 1993 – 01 Director, Centre for the Philosophy of Natural and Social Science, London School of Economics and Political Science
- 1993 – 97 Member, Advisory Board, Centre for Interdisciplinary Research (ZiF), Bielefeld, Germany

- 1992 – 98 Member, Mind Executive Committee
- 1992 – 93 Convenor, Department of Philosophy Logic and Scientific Method, London School of Economics and Political Science
- 1991 Member, Lakatos Award Committee, London School of Economics and Political Science
- 1991 – 96 Member, Advisory Board, Institute for Advanced Study, Wissenschaftskolleg zu Berlin
- 1991 Member, Advisory Board, Centre for History and Economics, Cambridge
- 1988 – 90 Chair, Philosophy Department, Stanford University
- 1989 – 90 Member, National Science Foundation Oversight Committee for History and Philosophy of Science
- 1989 – 90 Member, U.S. National Committee, International Union of History and Philosophy of Science
- 1986 – 90 Member, Committee for the History of Science, Stanford University
- 1986 – 87 President, American Association of University Professors, Stanford Chapter
- 1985 – 87 Member, National Science Foundation Award Panel, History & Philosophy of Science
- 1985 President, Society for Exact Philosophy

EDITORIAL BOARDS

Topics in Contemporary Philosophy (with MIT Press)
 Revue de philosophie économique
 AFOS
 Economics and Philosophy
 Erasmus Journal for Philosophy and Economics (EJPE)
 Erkenntnis
 European Journal for Philosophy of Science (2009 –)
 Foundations of Science
 Foundations of Physics Letters
 Handbook on the Ethics of Science
 INPC
 International Studies in the Philosophy of Science
 Journal of Economic Methodology (1996 – 1999) and (2002 –)
 Journal of The Society of Humanist Philosophers
 Metatheoria – Revista de Filosofia e Historia de la Cincencia (2009-
 Pacific Philosophical Quarterly
 Philosophical Perspectives
 Philosophy of Science (1994–2002) and (2009 –2010) and (2010-2011)
 Revue de Philosophie Economique
 Studies in History and Philosophy of Modern Physics
 Synthèse
 Theoria
 Women's Philosophy Review
 Handbook of Philosophy of Social Sciences, SAGE publications.

GRANTS

- 2010 – 12 Research grant, 'Choices of Evidence: Tacit Philosophical Assumptions in the Debates within the Campbell Collaboration', UK Arts and Humanities Research Council (with Eileen Munro and Eleanora Montuschi)

- 2009 – 11 Research grant, 'A Theory of Evidence for Use', British Academy Research Development Award
- 2009 – 13 Research grant, 'God's Order, Man's Order and the Order of Nature', John Templeton Foundation (with Eric Watkins)
- 2007 – 08 Research grant, 'Evidence for Use: Prolegomena to a Theory of Evidence-Based Education Policy', Spencer Foundation
- 2007 Research grant, 'Evidence for Use', LSE Seed Fund
- 2005 – 09 Research grant, 'Contingency and Dissent in Science', UK Arts and Humanities Research Board
- 2004 – 05 Research grant, 'Methods for Causal Inference: Status and Health', British Academy
- 2004 – 05 Research grant, 'Biomedical Research: Towards a Well-Ordered Science', Columbia-LSE Alliance Collaborative Research Fund
- 2002 – 05 Research grant, 'Causality', Latsis Foundation
- 2003 – 04 Research grant, 'Causal Pluralism and Causal Inference, with Applications to Health and Status', U.S. National Science Foundation
- 2002 – 04 Research grant, 'A Defence of Scientific Theories as Tools', with Mauricio Suarez, New Del Amo Programme, UCSD/Universidad Complutense, Madrid
- 2001 – 04 Research grant, 'Causality: Metaphysics and Methods', UK Arts and Humanities Research Board
- 1999 – 02 Research grant (co-director), 'Measurement in Physics and Economics', Latsis Foundation
- 1998 – 00 Research grant, 'Causality in Economics', Latsis Foundation
- 1995 – 04 Research grant, 'Philosophy in Economics', A. K. Knight
- 1995 – 98 Research grant (co-director), 'The Political Economy of the German Historical School', History and Economics Centre, Cambridge University, Leverhulme
- 1993 – 99 Research grant (co-director), 'Modelling in Physics and Economics', Latsis Foundation
- 1986 – 87 Research grant, 'Causes and Capacities', U.S. National Science Foundation
- 1974 – 75 Research grant, 'Philosophical Analysis of Quantum Mechanics', U.S. National Science Foundation

MEMBERSHIPS

Philosophy of Science Association
 American Philosophical Association
 MIND Association
 American Association of University Professors
 Association of University Teachers (Britain)
 British Society for the Philosophy of Science

MEDIA EVENTS AND PUBLISHED INTERVIEWS

Linus Pauling Memorial Lecture, Institute for Science, Engineering and Public Policy, 'From Science to Policy. What's so Good about Evidence?', February 2011.

BBC Radio 4, *In Our Time*, 'Logical Positivism', July 2009

Filosofisk Supplement, 'Philosophy of Dappled Things - A Conversation with Nancy Cartwright' by Gry Oftedal, 2008

BBC Radio 4, Science Friction series, 'The Trouble with Physics', August 2007

RSA, Symposium 'The Trouble with Physics - The Rise of String Theory, the Fall of a Science and What Comes Next', Lecture 'Physics in Conflict', March 2007

BBC Radio 4, *In Our Time*, 'Karl Popper', February 2007

Sciences et Avenir, Interview, 'Les lois de la physique sont fictives', July 2006

'Professor Nancy Cartwright', House of Commons: Science and Technology Committee, *Scientific Advice, Risk and Evidence Based Policy Making: Seventh Report, Session 2005-2006*, Vol 2, p. EV 96, November 2006

'The Place of Philosophy and History of Science in the Science Curriculum', House of Commons: Science and Technology Committee, *Science Education from 14 to 19: Third Report of Session 2001-02*, appendix 44, pp. 190-191, February 2002

BBC Radio 4, *Start the Week*, 'The Myth of Universalism in Science and Politics', December 2002

BBC Radio 4, *In Our Time*, "'Ubiquity" The Science of History...or Why the World is Simpler Than we Think', November 2001

BBC Radio 4 series, 'A Brief History of the End of Everything', Autumn 2000

Prospect – Roundtable Discussions, 5th Anniversary Issue, 56 - 'The Meaning of Genome', 2000

BBC Radio 4, *Analysis*, 'Wrong, Scary or the Greatest Thing?', August 2000

BBC/Open University programme, 'The Mother of all Collisions', September 1999

Interview by Jonathan Walmsley in the *Philosophers' Magazine*, Autumn 1998, pp. 36-38.

BBC Radio 4, *Analysis*, '2+2=5', May 1998

BBC Radio 3, *Living Ideas*, on Otto Neurath, January 1998

American TV series, *In Search of Wisdom*, Interview, May 1997

'The Cartwright Discussion' in *In Conversation: Donald Davidson*, video and monograph by Philosophy International, 1997

BBC2 Television, *Brains Trust* – January 1996

Cogito, 'An Interview with Nancy Cartwright', 1995

PUBLICATIONS

Books:

1. (with Jeremy Hardie) Will It Really Work for You? Doing Evidence-Based Policy Better, in draft, New York: Oxford University Press.
2. Hunting Causes and Using Them: Approaches in Philosophy and Economics, 2007, New York: Cambridge University Press.

3. Causal Powers: What Are They? Why Do We Need Them? What Can be Done with Them and What Cannot?, 2007, Contingency and Dissent in Science Technical Report 04/07, London: Centre for Philosophy of Natural and Social Science, LSE.
4. Measuring Causes: Invariance, Modularity and the Causal Markov Condition, 2000, Measurement in Physics and Economics Discussion Paper Series Monograph DP MEAS 10/00, London: Centre for Philosophy of Natural and Social Science, LSE.
5. The Dappled World: A Study of the Boundaries of Science, 1999, Cambridge: Cambridge University Press.
Represented as a *Fathom Internet Story*
Also translated to Chinese; published by the Shanghai Scientific & Technological Education Publishing House.
6. Otto Neurath: Philosophy between Science and Politics, with Jordi Cat, Lola Fleck, Thomas E Uebel, 1996, New York: Cambridge University Press, Ideas in Context Series No. 38.
Reproduced as an *eBook*, 2009.
7. Nature's Capacities and their Measurement, 1989, New York: Oxford University Press.
Reproduced in *Oxford Scholarship on Line*, 2003.
8. How the Laws of Physics Lie, 1983, New York: Oxford University Press.
Reproduced in *Oxford Scholarship on Line*, 2003.
Also translated to Chinese; published by the Shanghai Scientific & Technological Education Publishing House.

Edited Books:

1. Philosophy of Social Science: An Undergraduate Text (working title), 2012, edited with Eleonora Montuschi, New York: Oxford University Press.
2. Idealization XII: Correcting the Models. Idealization and Abstraction in the Sciences, 2005, edited with Martin R. Jones, Amsterdam: Rodopi.

Articles and Chapters:

1. Cartwright, Nancy D. and Pemberton, John. 'Aristotelian Powers: Without Them, What Would Modern Science Do?', in Powers and Capacities in Philosophy: The New Aristotelianism. Greco, J. and Gross, R. (eds.), New York: Routledge, 2011. In Press
2. Cartwright, Nancy D. 'Predicting What Will Happen When We Act: What Counts for Warrant?' *Preventive Medicine*, September 2011 (53), pp. 221-224.
3. Cartwright, Nancy D. 'RCT's, Evidence and Predicting Policy Effectiveness', The Oxford Handbook of the Philosophy of the Social Sciences, Kincaid, H. (ed.), New York: OUP, 2012, forthcoming.
4. Cartwright, Nancy D. and Rol, Menno. 'Warranting the Use of Causal Claims: A Non-trivial Case for Interdisciplinarity'. Proceedings of Causality and Explanation in the Sciences conference, Ghent, 2011.
5. Cartwright, Nancy D., Contessa, G. and Steed, S. 'Keeping Track of Neurath's Bill: Abstract Concepts, Stock Models and the Unity of Classical Physics', in Otto Neurath and the Unity of Science, Pombo, O., Symons, J. and Torres, J.M. (eds.), Stuttgart: Springer, 2011, pp. 95-108.
6. Cartwright, Nancy D. with Sophia Efstathiou. 'Hunting Causes and Using Them: Is There no Bridge from Here to There?', *International Studies in the Philosophy of Science*, September 2011 25(3), pp.223-241.
Also as *Contingency and Dissent in Science* Technical Report 05/09, CPNSS, LSE.

7. Cartwright, Nancy D and Bradburn, N. 'A Theory of Measurement', *The Importance of Common Metrics for Advancing Social Science Theory and Research: Proceedings of the National Research Council Committee on Common Metrics*. April 2011, pp. 53-70.
8. Cartwright, Nancy D. 'Will This Policy Work for You?', Philosophy of Science Association Presidential Address, forthcoming in *Philosophy of Science*.
9. Cartwright, Nancy D. 'Causal Powers: Without them, What would Causal Laws Do?', in Powers and Capacities in Philosophy: The New Aristotelianism, Greco, J. and Gross, R. (eds.), New York: Routledge, 2011. In Draft
10. Cartwright, Nancy D. 'Evidence, External Validity and Explanatory Relevance', in Philosophy of Science Matters: The Philosophy of Peter Achinstein, Morgan, G. (ed.), New York: OUP, 2011, pp. 15-28.
11. Cartwright, Nancy D. 'A Philosophers View of the Long Road from RCTs to Effectiveness', *The Lancet* (Art of Medicine Section), Vol. 377, 2011, pp. 1400-1401.
12. Cartwright, Nancy D. Foreword to Fictions and Models: New Essays, Woods, J. (ed.), Munich: Philosophia Verlag, 2010.
13. Cartwright, Nancy D. 'Description of *Hunting Causes and Using Them: Approaches in Philosophy and Economics*' and 'Replies to Longworth and Weber', *Analysis*, 2010 70(2), pp. 307-310.
14. Cartwright, Nancy D. 'Models: Parables v Fables', in Beyond Mimesis and Convention: Representation in Art and Science, Frigg, R. and Hunter, M. (eds.), New York: Springer, 2010. pp. 19-31.
15. Cartwright, Nancy D and Bovens, L. 'Measuring the Impact of Philosophy', *Science and Technology Parliamentary Committee Papers – Research Funding Cuts*, January 2010.
16. Cartwright, Nancy D. 'Predicting "It Will Work for Us": (Way) Beyond Statistics', in Causality in the Sciences, Illari, P.M., Russo, F. and Williamson, J. (eds.), New York: OUP, 2011. pp. 750-768.
17. Cartwright, Nancy D. with Eileen Munro. 'The Limitations of RCTs in Predicting Effectiveness', *JECPIssue on Philosophy in Medicine and Health Care*, March/April 2010 16(2), pp. 260-66.
18. Cartwright, Nancy D. 'What are Randomised Controlled Trials Good For', *Philosophical Studies*, 2010 147(1), pp.59 -70.
19. Cartwright, Nancy D. 'Reply to Steel and Pearl: Hunting Causes and Using Them: Approaches in Philosophy and Economics,' *Economics and Philosophy*, March 2010 26(1), pp. 87-94.
20. Cartwright, Nancy D. 'Evidence-Based Policy: Where is our Theory of Evidence?', *Journal of Children's Services* (special edition), December 2009 4(4), pp. 6-14.
21. Cartwright, Nancy D. 'How To Do Things with Causes', APA Presidential Address, *APA Proceedings and Addresses*, November 2009 83(2).
22. Cartwright, Nancy D. 'It May Work Somewhere But Will Work for Us?', The Lewis Burke Frumkes Lecture, New York University, 2009.
23. Cartwright, Nancy D. 'Measuring Research Impact: Special Problems', *Report for the Research Excellence Framework Consultation*, Consortium of Institutes of Advanced Study, November 2009.
24. Cartwright, Nancy D. and Fennell, D. 'Does Roush Show Evidence Should Be Probable?', *Synthese*, April 2009 175(3), pp. 289-310.
25. Cartwright, Nancy D. with Jacob Stegenga. 'A Theory of Evidence for Evidence-Based Policy', in Evidence, Inference and Enquiry, Dawid, P., Twining, W., and Vasilaki, M. (eds.), New York: OUP. Forthcoming.
26. Cartwright, Nancy D. 'Relativism in the Philosophy of Science', in Relativism: A Contemporary Anthology, Krausz, M. (ed.), New York: Columbia University Press, 2010, pp. 86-99.

27. Cartwright, Nancy D. 'What Is This Thing Called Efficacy', in Philosophy of the Social Sciences. Philosophical Theory and Scientific Practice, Mantzavinos, C. (ed.), Cambridge: Cambridge University Press, 2009, pp. 185-206.
28. Cartwright, Nancy D. 'God's Order, Man's Order and the Order of Nature', in Science, Reason and Truth. Proceedings of the San Marino 2007 Symposium, Bersanelli, M., Van Inwagen, P., and Harper, C. (eds.), Notre Dame University Press. Forthcoming.
29. Cartwright, Nancy D. 'Natural Laws and the Closure of Physics,' in Visions of Discovery. New Light on Physics, Cosmology and Consciousness, Chiao, R.Y., Phillips, W.D., Leggett, A.J., Cohen, M.L., and Harper, C.L. (eds.), Cambridge: Cambridge University Press, 2010, pp. 612 - 622.
30. Cartwright, Nancy D. 'How Can We Know What Made the Ratman Sick? Singular Causes and Population Probabilities', in Philosophy of Religion, Physics, and Psychology: Essays in Honor of Adolf Grünbaum, Jokić, A. (ed.), New York: Prometheus Books, 2009. Also as *Causality: Metaphysics and Methods* Technical Report CTR 08-03, CPNSS, LSE -older version, changes made for the *Philosophy of Religion, Physics and Psychology*.
31. Cartwright, Nancy D., 'Models: Parables v Fables', *Insights*, 2008 1(11), pp. 2-10.
32. Cartwright, Nancy D., 'Evidence-Based Policy: What's To Be Done About Relevance', *Philosophical Studies*, March 2009 143(1), pp. 127-136.
33. Cartwright, Nancy D. 'If No Capacities Then No Credible Worlds. But Can Models Reveal Capacities?', *Erkenntnis*, 2008, 70(1), pp. 45-48.
34. Cartwright, Nancy D. 'Causality, Invariance and Policy', in The Oxford Handbook of Philosophy of Economics, Kincaid, H. and Ross, D. (eds.), New York: OUP, 2009, pp. 410-421.
35. Cartwright, Nancy D. 'Why be Hanged for Even a Lamb?', in Images of Empiricism, Monton, B. (ed.), OUP, 2009, pp. 32-45.
36. Cartwright, Nancy D 'Causal Laws, Policy Predictions, and the Need for Genuine Powers', in Dispositions and Causes, Handfield, T. (ed.), Oxford: OUP, 2009, pp. 127-158.
37. Cartwright, Nancy D. 'In Praise of the Representation Theorem', in Representation, Evidence, and Justification: Themes from Suppes. Frauchiger, M. and Essler, W. K. (eds.), Frankfurt, Paris, Ebikon, Lancaster, New Brunswick: Ontos Verlag, 2008, pp. 83-90.
38. Cartwright, Nancy D. 'Replies', in Nancy Cartwright's Philosophy of Science, Hartmann, S., Hofer, C., and Bovens, L (eds.), New York: Routledge, 2008.
39. Cartwright, Nancy D. and Hasok Chang. 'Measurement', in The Routledge Companion to Philosophy of Science, Psillos, S. and Curd, M. (eds.), New York: Routledge, 2008, pp. 367-375.
40. Cartwright, Nancy D. and Frigg, R. 'String Theory Meets Philosophy', *Physics Today*, September 2007, pp. 14-15.
41. Cartwright, Nancy D. 'Causal Laws, Policy Predictions and the Need for Genuine Powers', in Causal powers: what are they? why do we need them? what can be done with them and what cannot?, Cartwright, N. (ed.), London: CPNSS, LSE, 2007, p. 6-30.
42. Cartwright, Nancy D. 'What Makes a Capacity a Disposition?', in Dispositions and Causal Powers, Kistler, M. and Gnessounou, B. (eds.), Burlington: Ashgate, 2007, pp.195-206. Also as *Causality: Metaphysics and Methods* Technical Report CTR 10-03, CPNSS, LSE. Also translated as 'En quo une capacite est-elle une disposition?' in Les dispositions en philosophie et en sciences, CNRS Editions, 2006, pp.135-146. Also in Nancy Cartwright's Causal Powers, 2007.
43. Cartwright, Nancy D. 'Counterfactuals in Economics: A Commentary', in Causation and Explanation, O'Rourke et al (eds.), Cambridge: MIT Press, 2007, pp. 191-216. Also in Nancy Cartwright's Hunting Causes.

44. Cartwright, Nancy D. 'Are RCTs the Gold Standard?' *BioSocieties*, 2007 2(2), pp.11-20. Also as Technical Report 01/07, Contingency and Dissent in Science Series, CPNSS, LSE. Also in Nancy Cartwright's Causal Powers, 2007, pp. 58-69.
45. Cartwright, Nancy D. with the help of Andrew Goldfinch and Jeremy Howick. 'Evidence-Based Policy: Where is Our Theory of Evidence?', in Philosophy: Foundations and Applications, Main Lectures and Colloquia Talks of the German Analytic Philosophy Conference GAP, Beckermann, A., Tetens, H., and Walter, S. (eds.), Paderborn: Mentis-Verlag, 2008. Also as Technical Report 02/07 Contingency and Dissent in Science Series, 2007, CPNSS, LSE.
46. Suarez, Mauricio and Cartwright, N. 'Theories: Tools versus Models' in *Studies in History and Philosophy of Modern Physics*, 2008 39(1), pp. 61-81.
47. Cartwright, Nancy D. 'Well-Ordered Science: Evidence for Use', *Philosophy of Science*, 2006 73(5) pp. 981-990.
48. Cartwright, Nancy D. 'Against the 'System'. Is There Value in Inconsistency?', in Series on Common Goods: Law, Politics and Economics, Vol.15, Daston, L. and Engel, C. (eds.), Baden-Baden: Nomos, 2006, pp. 17-38.
49. Cartwright, Nancy D. 'Where is the Theory in our 'Theories' of Causality?' *Journal of Philosophy*, 2006 CIII(2), pp. 55-66. Also in Nancy Cartwright's Hunting Causes and Using Them, 2007.
50. Cartwright, Nancy D. 'From Metaphysics to Method: Comments on Manipulability and the Causal Markov Condition', *British Journal for the Philosophy of Science*, 2006 57. Also in Nancy Cartwright's Hunting Causes and Using Them, 2007.
51. Cartwright, Nancy D. with Anna Alexandrova, Sophia Efstathiou, Andrew Hamilton and Ioan Muntean. 'Laws' in Oxford Handbook of Contemporary Philosophy, Smith, M. and Jackson, F. (eds.), New York: OUP, 2005, pp. 792-818.
52. Cartwright, Nancy D. 'No God; No Laws', in Dio, la Natura e la Legge. God and the Laws of Nature, Angelicum-Mondo X, 2005, pp. 183-190.
53. Cartwright, Nancy D. 'From Causation to Explanation and Back', in The Future of Philosophy, Brian Leiter (ed.), Oxford Clarendon Press, 2006, pp. 230-245. Also as *Causality: Metaphysics and Methods*, Technical Report CTR 09-03, CPNSS, LSE.
54. Cartwright, Nancy D. 'The Vanity of Rigour in Economics. Theoretical Models and Galilean Experiments', in The 'Experiment' in the History of Economics, Fontaine, P., and Leonard, R. (eds.), 2005, pp. 135-153. Expanded version of 'The Vanity of Rigour in Economics', Discussion Paper Series, CPNSS, 1999. Translated to German as 'Die Vergeblich Strenge der Oekonomie –Theoretische Modelle und Galileische Experimente' *Gesellschaft Denken. Eine erkenntnistheoretische Standortbestimmung der Sozialwissenschaften*, Bauer, L. and Hamberger, K. (eds.) Springer Verlag, 2002, pp 3 – 18. Also in Nancy Cartwright's Hunting Causes and Using Them.
55. 'Introduction' and 'Reply' in *Philosophical Books* (dedicated to Nancy Cartwright's The Dappled World) 2002 43(4), pp. 241-244; 271-279.
56. Cartwright, Nancy D. 'Another Philosopher Looks at Quantum Mechanics', in Hilary Putnam, Ben-Menahem, Y. (ed.), New York: Cambridge University Press, 2005, pp. 188-202.
57. Cartwright, Nancy D. 'My Understand to Philosophy', [sic] in The Academic Self-Statements of Contemporary British and American Distinguished Philosophers, Beijing: The People's Press, 2005, pp. 243-272. Publication in Chinese.
58. Cartwright, Nancy D. and Reiss, J. 'Uncertainty in Econometrics: Evaluating Policy Counterfactuals', in Economic Policy Under Uncertainty: The Role of Truth and Accountability in Policy Advice, Mooslechner, P., Schuberth, H., and Schurz, M. (eds.), Northampton: Edward Elgar Publishing LTD, 2004, pp. 204-232.
59. Cartwright, Nancy D. 'Causation: One Word, Many Things', *Proceedings of the Biennial Meeting of the Philosophy of Science Association*, 2004 71, pp. 805-819. Also as *Causality: Metaphysics and Methods*

Technical Report CTR 07-03, CPNSS, LSE. Also in Nancy Cartwright's Hunting Causes and Using Them, 2007.

60. Cartwright, Nancy D. 'Two Theorems on Invariance and Causality', *Philosophy of Science*, 2003 70(1), pp. 203-224. Also in a longer version in Measuring Causes: Invariance, Modularity and the Causal Markov Condition, Measurement in Physics and Economics Discussion Paper Series Monograph DP MEAS 10/00, London: CPNSS, LSE, 2000. Also in Nancy Cartwright's Hunting Causes and Using Them, 2007.
61. Cartwright, Nancy D. 'Against Modularity, the Causal Markov Condition and Any Link Between the Two: Comments on Hausman and Woodward,' *British Journal for the Philosophy of Science*, 2002, 53, pp. 411-453. Also in a shorter version in Measuring Causes: Invariance, Modularity and the Causal Markov Condition, Measurement in Physics and Economics Discussion Paper Series Monograph DP MEAS 9/00, London: CPNSS, LSE, 2000. Also in Nancy Cartwright's Hunting Causes and Using Them, 2007.
62. Cartwright, Nancy D. 'In Favour of Laws that are Not Ceteris Paribus After All', *Erkenntnis*, 2002 57, pp 425-439. Also in Nancy Cartwright's Causal Powers, 2007.
63. Cartwright, Nancy D. and Psillos, S., and Chang, H. 'Theories of Scientific Method: Models for the Physico-Mathematical Sciences', in The Cambridge History of Science, Volume 5: Modern Physical and Mathematical Sciences, Nye, M.J. (ed.), New York: Cambridge University Press, 2001, pp. 21-35.
64. Cartwright, Nancy D. 'Reply to P. Anderson's 'Review' of The Dappled World', *International Studies in the History and Philosophy of Physics*, 2001, pp. 495-497.
65. Cartwright, Nancy D. 'What is Wrong with Bayes Nets?', *The Monist*, 2001, pp 242-264. Also in Measuring Causes: Invariance, Modularity and the Causal Markov Condition, Measurement in Physics and Economics Discussion Paper Series Monograph DP MEAS 9/00, London: CPNSS, LSE, 2000. Also in expanded form in Probability Is the Very Guide of Life, Kyburg, H. and Thalos, M. (eds.), Chicago: Open Court, 2003, pp. 253-276.
66. Cartwright, Nancy D. 'Modularity: It Can –and Generally Does– Fail', in Stochastic Dependence and Causality, Costantini, D., Galavotti, M.C., and Suppes, P. (eds). Stanford: CSLI Publications, 2001, pp 65-84. Also in Measuring Causes: Invariance, Modularity and the Causal Markov Condition, Measurement in Physics and Economics Discussion Paper Series Monograph DP MEAS 9/00, London: CPNSS, LSE, 2000.
67. Cartwright, Nancy D. 'Quantum Mechanics without the Observables', in The Reality of the Unobservable: Observability, Unobservability, and their Impact on the Issue of Scientific Realism, Agazzi, E. and Pauri, M. (eds), Boston Series in the Philosophy of Science, Kluwer Academic Publishers, 2000, pp. 241 -248.
68. Cartwright, Nancy D. 'An Empiricist Defence of Singular Causes', in Logic, Cause and Action: Essays in Honour of Elizabeth Anscombe, Teichmann, R. (ed.), New York: Cambridge University Press, 2000, pp. 47-58.
69. Cartwright, Nancy D. and Suárez, M. 'Endpiece', *Theoria*, 2000 15, pp. 123-128.
70. Cartwright, Nancy D. 'The Limits of Exact Science, from Economics to Physics', *Perspectives on Science*, 1999, pp 318-336. Republished with minor changes as 'The Limits of Causal Order, from Economics to Physics', Fact and Fiction in Economics: Models, Realism and Social Construction, Maki, U. (ed.), New York: Cambridge University Press, 2002, pp. 137-151.
71. Cartwright, Nancy D. 'The Methodology of Actuarial Science', *British Actuarial Journal*, 1999, pp.177-179.
72. Cartwright, Nancy D. 'Causal Diversity and the Markov Condition', *Synthese*, 1999 121(1/2), pp 3-27.
73. Cartwright, Nancy D. 'Models and the Limits of Theory: Quantum Hamiltonians and the BCS Model of Superconductivity', in Models as Mediators, Morgan, M. and Morrison, M. (eds.), New York: Cambridge University Press, 1999, pp. 241-281.
74. Cartwright, Nancy D. 'Against the Completability of Science', in The Proper Ambition of Science, Wolff, J. and Stone, M. W. F. (eds.), New York: Routledge, 2000, pp. 209-222. Also in Fisica Cuantica y

Realidad. Quantum Physics and Reality, Mataix, C. and Rivadulla, A. (eds.), Madrid: Facultad de Filosofía Universidad Complutense, 2002.

75. Cartwright, Nancy D. 'Comments and Replies', in Proceedings of the Münster Colloquium, Paul, M. (ed.), LIT Press, 1999, pp. 88-109.
76. Cartwright, Nancy D. 'Capacities', in The Handbook of Economic Methodology, Davis, J. B. Hands, D. W., and Mäki, U. (eds.), Edward Elgar Publishing, 1999, pp. 45-48.
77. Cartwright, Nancy D. 'Causality, Independence and Determinism', in Causal Models and Intelligent Data Analysis, Gammerman, A. (ed), Springer Verlag, 1998, pp. 51-63.
78. Cartwright, Nancy D. 'How Theories Relate: Takeovers or Partnerships?', *Philosophia Naturalis*, 1998, pp. 23-24.
79. Cartwright, Nancy D. Entries on 'Causation' (pp. 244-251) and 'Otto Neurath' (pp. 813-816), in The Routledge Encyclopaedia of Philosophy, Kegan, P. and Craig, E. (eds). New York: Routledge, 1998.
80. Cartwright, Nancy D. 'Comment on 'Harold Hotelling and the Neoclassical Dream', P. Mirowski and W. Hands', in Economics and Methodology, Backhouse, R., Mäki, U., Salanti, A., and Hausman, D. (eds). International Economic Association Series, Macmillan and St Martin's Press, 1997, pp. 417-421.
81. Cartwright, Nancy D. 'Why Physics?' in The Large, the Small and the Human Mind, Penrose, R. and Longair, M. (eds). New York: Cambridge University Press, 1997, pp. 161-168.
82. Cartwright, Nancy D. 'Models: The Blueprints for Laws', *Philosophy of Science*, 1997 64, pp. 292-303.
83. Cartwright, Nancy D. and Del Seta, M. 'The Myth of Universalism: Theories of Science and Theories of Justice', *Discussion Paper Series*, CPNSS, LSE 1997, pp. 1-17.
84. Cartwright, Nancy D. 'Where Do Laws of Nature Come From?' *Dialectica*, 1997 51, pp. 65-78. Translated as 'D'ou viennent les lois de la nature?' In La Regularite. Habitude, disposition et savoir-faire dans l'explication de l'action, Chauvire, C. and Ogien, A. (eds.), Paris: EHESS, 2002, pp. 77- 93.
85. Cartwright, Nancy D., Uebel, T. 'Philosophy in the Earthly Plane.' In Encyclopaedia and Utopia: The Life and Work of Otto Neurath, Nemeth, E. and Stadler, F. (eds.), Kluwer Academic Publishers, 1997.
86. Cartwright, Nancy D. 'What is a Causal Structure?', In Causality in Crisis? Statistical Methods and the Search for Causal Knowledge in the Social Sciences, McKim, V.R. and Turner, S. P. (eds.), University of Notre Dame Press, 1997.
87. Cartwright, Nancy D., Cat, J. 'Neurath Against Method', in Origins of Logical Empiricism, Minnesota Studies in the Philosophy of Science, XVI, Giere, R.N. and Richardson, A. (eds.), 1996, pp. 80-90.
88. Cartwright, Nancy D. 'Fundamentalism vs. the Patchwork of Laws', in *Proceedings of the Aristotelian Society*, 1994. Reprinted in The Philosophy of Science, Papineau, D. (ed.), OUP, 1996.
89. Cartwright, Nancy D. 'The Metaphysics of the Disunified World', *PSA: Proceedings of the Biennial Meeting of the Philosophy of Science Association*, 1994 2, pp. 357-364.
90. Cartwright, Nancy D. and Kitcher, P. 'Science and Ethics: Reclaiming Some Neglected Questions', *Perspectives on Science*, 1996.
91. Cartwright, Nancy D. 'Ceteris Paribus Laws and Socio-Economic Machines', *The Monist*, 1995. Reprinted in The Economic World View, Maki, U. (ed.), Cambridge University Press.
92. Cartwright, Nancy D. 'False Idealization: A Philosophical Threat to Scientific Method', *Philosophical Studies*, 1995.
93. Cartwright, Nancy D. 'How Laws Relate What Happens: Against a Regularity Account', in Pragmatik: Handbuch Pragmatischen Denkens Band V, Stachowiak, H. (ed.), Felix Meiner Verlag, 1995.

94. Cartwright, Nancy D., Cat, J., and Chang, H. 'Otto Neurath: Politics and the Unity of Science', in The Disunity of Science, Galison, P. and Stump, D. (eds.), Stanford University Press, 1995.
95. Cartwright, Nancy D. Entries on 'Neurath', 'Duhem', 'Feyerabend' and 'Lakatos', in The Oxford Companion to Philosophy, Honderich, E. (ed.), OUP, 1995.
96. Cartwright, Nancy D. 'Reply to Eells, Humphrey and Morrison', *Philosophy and Phenomenological Research* (Symposium on Nancy Cartwright's *Nature's Capacities and Their Measurement*), LV, 1995.
97. Cartwright, Nancy D., Shomar, T., Suarez, M. 'The Tool Box of Science: Tools for the Building of Models with a Superconductivity Example', in Theories and Models in Scientific Processes, Herfel, W. E., Krajewski, W., Niiniluoto, I., and Wojcicki, R. (eds.), Amsterdam-Atlanta: Rodopi, 1995.
98. Cartwright, Nancy D. 'Quantum Technology: Where to Look for the Quantum Measurement Problem', in Philosophy and Technology, Royal Institute of Philosophy Supplement 38, Cambridge University Press, 1995.
99. Cartwright, Nancy D. 'Causal Structures in Econometrics Models', in On the Reliability of Economic Models, Little, D. (ed.), Kluwer Academic Publishers, 1995.
100. Cartwright, Nancy D. 'Where in the World is the Quantum Measurement Problem?', in Physik, Philosophie und die Einheit der Wissenschaften: Grundlagen der exakten Naturwissenschaften, Kruger, L. and Falkenburg, B. (eds.), Heidelberg: Spektrum Akademischer Verlag, 1995.
101. Cartwright, Nancy D. 'Probabilities and Experiments', *Journal of Econometrics*, 1995. Also in Discussion Paper Series, CPNSS, LSE, London DP 3/94, 1994.
102. Cartwright, Nancy D., Hoefer, C. 'Substantivalism and the Hole Argument', in Philosophical Problems of the Internal and External Worlds: Essays Concerning the Philosophy of Adolf Grünbaum, Earman, J., Janis, A., Massey, G., and Rescher, N. (eds.), University of Pittsburgh Press, 1994.
103. Cartwright, Nancy D. 'Marks and Probabilities: Two Ways to Find Causal Structure', in Scientific Philosophy: Origins and Developments, Yearbook 1/93, Institute Vienna Circle, Stadler, F. (ed.), Kluwer Academic Publishers, 1993.
104. Cartwright, Nancy D. 'How We Relate Theory to Observation', in World Changes: Thomas Kuhn and the Nature of Science, Horwich, P. (ed.), MIT Press, 1993.
105. Cartwright, Nancy D. and Chang, H. 'Causality and Realism in the EPR Experiment', *Erkenntnis*, 1993 38.
106. Cartwright, Nancy D. 'Mill and Menger: Ideal Elements and Stable Tendencies', *Poznan Studies in the Philosophy of the Sciences and the Humanities*, 1993 38.
107. Cartwright, Nancy D. 'Is Natural Science 'Natural' Enough? A Reply to Phillip Allport', *Synthese*, 1993 94.
108. Cartwright, Nancy D. 'In Defence of 'This Worldly Causality: Comments on van Fraassen's 'Laws and Symmetry'', *Philosophy and Phenomenological Research*, 1993 LIII.
109. Cartwright, Nancy D. 'Aristotelian Natures and the Modern Experimental Method', in Inference, Explanation and Other Philosophical Frustrations, Earman, J. (ed.), University of California Press, 1992.
110. Cartwright, Nancy D., Cat, J., Chang, H. 'Otto Neurath: Unification as the Way to Socialism', in Einheit der Wissenschaften, Berlin Academy of Sciences, Gruyter, 1991. Translated into Spanish as *Otto Neurath: Unificacion Como la Via Hacia el Socialismo, Cuadernos*, 90, 1992.
111. Cartwright, Nancy D. 'Fables and Models', *The Aristotelian Society*, 1991 LXV. Reprinted in The Ontology of Science, Dartmouth Publishing Company, 1991.
112. Cartwright, Nancy D. and Jones, M. 'How to Hunt Quantum Causes', *Erkenntnis*, 1991 36.

113. Cartwright, Nancy D. 'Can Wholism Reconcile the Inaccuracy of Theory with the Accuracy of Prediction?' *Synthese*, 1991 92.
114. Cartwright, Nancy D. 'Quantum Causes: The Lessons of the Bell Inequalities', in Philosophy of the Natural Sciences: Proceedings of the 13th International Wittgenstein Symposium, Vienna: Hölderlin-Pichler-Tempsky, 1990.
115. Cartwright, Nancy D. 'Replicability, Reproducibility and Robustness', *History of Political Economy*, 1991 23.
116. Cartwright, Nancy D. 'A Case Study in Realism: Why Econometrics is Committed to Capacities', *PSA: Proceedings of the Biennial Meeting of the Philosophy of Science Association*, 1988 2.
117. Cartwright, Nancy D. 'The Born-Einstein Debate,' *Synthese*, 1989 90.
118. Cartwright, Nancy D. 'Capacities and Abstractions', in Scientific Explanation, Kitcher, P. and Salmon, W.C. (eds.), University of Minnesota Press, 1988.
119. Cartwright, Nancy D. and Dupre, J. 'Probability and Causality: Why Hume and Indeterminism Don't Mix', *Nous*, 1988 22.
120. Cartwright, Nancy D. 'How to Tell a Common Cause: Generalisations of the Conjunctive Fork Criterion', in Probability and Causality, Fetzer, J.H. (ed.), Reidel, 1988.
121. Cartwright, Nancy D. 'Regular Associations and Singular Causes', in Causation, Chance and Credence vol. 1, Skyrms, B. and Harper, W.L. (eds.), Kluwer Academic Publishers, 1988.
122. Cartwright, Nancy D. 'Reply to Ellery Eells', in Causation, Chance and Credence vol 1, Skyrms, B. and Harper, W.L. (eds.), Kluwer Academic Publishers, 1988.
123. Cartwright, Nancy D. 'Ursachen und Mathematische Physik', in Philosophie, Physik, Wissenschaftsgeschichte, Muschik, W. and Scheibe, E. (eds.), Technische Universität Berlin, 1988. (Translated from *Nature's Capacities and Their Measurement*).
124. Cartwright, Nancy D. 'Max Born and the Reality of Quantum Probabilities', in The Probabilistic Revolution vol II, Krüger, L., Gigerenzer, G. and Morgan, M. (eds.), Bradford Books, 1987.
125. Cartwright, Nancy D. 'Philosophical Problems of Quantum Theory: The Response of American Physicists', in The Probabilistic Revolution vol II, Krüger, L., Gigerenzer, G., and Morgan, M. (eds.), Bradford Books, 1987.
126. Cartwright, Nancy D. 'Fitting Facts to Equations', in Philosophical Grounds of Rationality: Intentions, Categories and Ends, Grandy, R. and Warner, R. (eds.), OUP, 1986.
127. Cartwright, Nancy D. 'Two Kinds of Teleological Explanation', in Human Nature and Natural Knowledge, Donagan, A., Perovich, A., and Wedin, M. (eds.), Reidel, 1986.
128. Cartwright, Nancy D. 'Causation and Physics: Causal Processes and Mathematical Derivations', *PSA: Proceedings of the Biennial Meeting of the Philosophy of Science Association*, 1984.
129. Cartwright, Nancy D with Henry Mendell. 'What Makes Physics' Objects Abstract?', in Science and Reality, Cushing, J., Delaney, C.F., and Gutting, G.M. (eds.), University of Notre Dame Press, 1984.
130. Cartwright, Nancy D. 'When Explanation Leads to Inference', *Philosophical Topics*, 1983 13.
131. Cartwright, Nancy D. 'How the Measurement Problem is an Artefact of Mathematics', in Space, Time and Causality, Swinburne, R. (ed.), Reidel, 1983.
132. Cartwright, Nancy D. and Nordby, J. 'How Approximations Take Us Away From Theory and Towards the Truth', *Pacific Philosophical Quarterly*, 1983 64, pp. 273-280.
133. Cartwright, Nancy D. 'Measuring Position Probabilities', in Studies in the Foundations of Quantum Mechanics, Suppes, P. (ed.), Philosophy of Science Association, 1980.

134. Cartwright, Nancy D. 'The Truth Doesn't Explain Much', *American Philosophy Quarterly*, 1980 17. Reprinted in *Science Reason & Reality: An Introduction to the Philosophy of Science*, Rothbart, D. (ed.), Harcourt Brace, 1997. Reprinted in *Introductory Readings in the Philosophy of Science* (3rd ed), Klemke, E.D., Hollinger, R., and Rudge, D.W. (eds.), Prometheus, 1998. Reprinted in *Philosophies of Science: From Foundations to Contemporary Issues*, McErlean, J. (ed.), Wadsworth, 1999.
135. Cartwright, Nancy D. 'The Reality of Causes in a World of Instrumental Laws', *PSA: Proceedings of the Biennial Meeting of the Philosophy of Science Association*, 1980. Reprinted in *The Philosophy of Science*, Boyd, R., Gaspar, P., and Trout, J. (eds.), MIT Press, 1991.
136. Cartwright, Nancy D. 'Do the Laws of Physics State the Facts?', *Pacific Philosophy Quarterly*, 1980 61, pp. 64-75. Reprinted in *The Philosophy of Science Reader*, Balashov, Y.V. (ed.), Routledge Press, 1980. Reprinted in *Philosophy of Science: The Central Issues*, Curd, M. and Cover, J.A. (eds.), Norton & Company Inc., 1998. Also in *Readings on Laws of Nature*, Carroll, J.W. (ed), University of Pittsburgh Press, 2004.
137. Cartwright, Nancy D. 'Do Token-Token Identity Theories Show Why We Don't Need Reductionism?', *Philosophical Studies*, 1979 61.
138. Cartwright, Nancy D. 'Causal Laws and Effective Strategies', *Nous*, 1979 13.
139. Cartwright, Nancy D. 'Philosophy of Physics', in *Current Research in Philosophy of Science*, Philosophy of Science Association, 1979.
140. Cartwright, ND. 'The Only Real Probabilities in Quantum Mechanics', *PSA: Proceedings of the Biennial Meeting of the Philosophy of Science Association*, 1978 1.
141. Cartwright, Nancy D. 'Comments on Wesley Salmon's 'Science and Religion'', *Philosophical Studies*, 1978 60.
142. Cartwright, Nancy D. 'The Sum Rule Has Not Been Tested', *Philosophy of Science*, 1977 44.
143. Cartwright, Nancy D. 'A Non-Negative Wigner-Type Distribution', *Physica*, 1976 83A.
144. Cartwright, Nancy D. 'How Do We Apply Science?' *PSA: Proceedings of the Biennial Meeting of the Philosophy of Science Association*, 1974.
145. Cartwright, Nancy D. 'Superposition and Macroscopic Observation.' *Synthese*, 1974 29(1/4), pp. 229-242.
146. Cartwright, Nancy D. 'Correlations Without Joint Distributions in Quantum Mechanics', *Foundations of Physics*, 1974 4.
147. Cartwright, Nancy D. 'Van Fraassen's Modal Model of Quantum Mechanics', *Philosophy of Science*, 1974 41.
148. Cartwright, Nancy D. 'A Dilemma for the Traditional Interpretation of Quantum Mixtures', *PSA: Proceedings of the Biennial Meeting of the Philosophy of Science Association*, 1972.

Book Reviews:

1. 'The History of Econometric Ideas: Historical Perspective on Modern Economics', Mary Morgan, Cambridge University Press, 1990. In *Philosophy of Science*, 1991 58.
2. 'Laws and Symmetry', Bas C van Fraassen, OUP, 1989. In *The Times Higher Education Supplement*, March 1990.

3. 'The Shaky Game: Einstein, Reality and the Quantum Theory', Arthur Fine, University of Chicago Press, 1987. In *Isis*, 1987 78.
4. 'Quantum Theory and Measurement', John Wheeler and Wojciech Zurek (eds.), Princeton University Press, 1983. In *Philosophy of Science*, 1985 52.
5. 'Investigation of the Physical World', Giuliano Toraldo di Francia, Cambridge University Press, 1983. In *British Journal for the Philosophy of Science*, 1983 34.
6. 'The Interpretation of Quantum Mechanics', Michael Audi, University of Chicago Press, 1973. In *Philosophical Review*, 1975.
7. 'Paradigms and Paradoxes', Robert Colodny, Pittsburgh Studies in the Philosophy of Science, vol. V, 1974. In *Philosophy of Science*, 1974 41.
8. 'Quantum Theory and Beyond', Ted Bastin, 1972. In *Philosophy of Science*, 1972 39.

INVITED LECTURES AND CONFERENCES

Academy of Medical Sciences invited Panel Member. Roundtable discussion about research methodologies used by NICE to assess talking therapies. Subsequently an invited panel member, 'Talking Therapies: What Counts as Credible Evidence?' at the Psychological Therapies in the NHS conference, London UK, November 2011.

Public Lecture, London School of Economics, 'Predicting if Your Policy will work for You: Doing it Better', November 2011

Springer Lecture in the Philosophy of Science, 3rd Biennial Conference of the European Philosophy of Science Association (EPSA), Athens, Greece. 'Evidence, Arguments and Mixed Methods', October 2011

Causality and Explanation in the Sciences, Ghent University. Key note address and 'Evidence-Based Policy: Mixing Methods Makes Good Practice', with Menno Rol, September 2011.

Expert Symposium, Putting Evidence into Practice: Challenges and Opportunities, University of Bedfordshire. 'The Journey from 'it works there' to 'it will work here': An exploration of practical and philosophical considerations in developing and applying evidence based approaches', with Eileen Munro, September 2011.

Theoria Lecture, Swedish Filosofidagarna, Gottenburg, Sweden, 'Laws, Powers and Predictions', June 2011.

Center for Interdisciplinary Studies, Bielefeld, Germany, Agnotology: Ways of Producing, Preserving, and Dealing with Ignorance, 'What Can Make an Encyclopaedia of Scientific Knowledge Useful to the Knowledge User? With special reflections on the Campbell Collaboration', May 2011.

Cambridge University Business and Society Interdisciplinary Research Group, 'Knowing What we are Talking About: Why Evidence Doesn't Always Travel', for Evidence-Based Policy-Making and the Real World: A Difficult Match?, May 2011.

3ie Seminar (International Initiative for Impact Evaluation), Thinking Out of the Black Box, 'What Philosophers Think of Impact Evaluation', London, May 2011.

Putting Powers to Work, University of St Louis, 'Causal Powers: Why Humeans Can't even be Instrumentalists', April 2011.

APA Pacific Division, San Diego, 'Predicting What Will Happen When We Act: What Evidence Can Help', April 2011.

Gusfield Lecture in Sociology, UCSD, 'The Long Road from 'It Works Somewhere to It will Work for Us'', March 2011.

Linus Pauling Memorial Lecture, Institute for Science, Engineering and Public Policy, 'From Science to Policy. What's so Good about Evidence?', February 2011.

Causation in Epidemiology, Epidemiology, Risk and Genomics seminar series, Cambridge University, 'The Long Road from "It Works Somewhere to It will Work for Us"', December 2010.

PSA Presidential Address, Montreal, Canada, 'Will this Policy Work for You? Predicting Effectiveness Better: How Philosophy Helps', November 2010.

Causality in Biomedical and Social Sciences conference, Erasmus University, 'RCTs: How Do We Know What to Conclude?', October 2010.

Seoul National University, 'The Long Road from Scientific Evidence to Evidence-Based Policy', September 2010.

Hanyang University, Seoul, Korea, 'Queen Physics - What is the Stretch of Her Domain?', September 2010.

Ian Ramsey Centre, Oxford, God and Physics and an 80th birthday celebration of the work of John Polkinghorne conference, 'Queen Physics – How Much of the Globe is Painted Red?', July 2010.

LSE, Statistics and Evidence Conference, 'Who's Afraid of External Validity?', June 2010.

University of Vienna, 'How to Do Things with Causes', June 2010.

University of Oxford, Philosophy of Physics Seminar, 'Who's Afraid of External Validity', May 2010.

LSE Labour Economics Seminar, 'The Long Road from "It Works Somewhere" to "It Will Work for Us"', May 2010.

Bristol University, Progress in Medicine Conference, 'The Long Road from "It Works Somewhere" to "It Will Work for Us"', April 2010.

LSE CPNSS 20th Anniversary Seminar, 'What Kind of God Creates the Hodge-Podge of Nature?' March 2010

US National Research Council Conference on Common Metrics, 'The Theory of Measurement', with Norman Bradburn, March 2010

Oxford University, Economics Faculty, 'The Long Road from "It Works Somewhere" to "It Will Work for Us"', February 2010

Birkbeck Philosophy Society, 'How to Make Causal Laws Useful: Build Yourself an Engine', December 2009

European Science Foundation Philosophy for Science in Use Conference, Stockholm, Sweden, 'The Long Road from "It Works Somewhere" to "It Will Work for Us"', September 2009

Amsterdam Conference on Causality, 'Predicting Effectiveness', August 2009

Imperial College London, Department of Epidemiology & Public Health Seminar Series, 'Causal Inference in Experimental and Observational Science', July 2009

University of Kent Conference on Multiplicity and Unification in Statistics and Probability, 'Reducing Errors in Predicting Effects: (Way) Beyond Statistics', June 2009

Hebrew University of Jerusalem, Philosophy and HPS Department Seminar Series, 'Causation: What Can Be the Use of It?', May 2009

Israel Academy of Sciences Science-for-Policy Luncheon, 'The Long Road from Scientific Evidence to Evidence-Based Policy', May 2009

Tel Aviv University, Bar-Hillel Colloquium, 'Evidence for Evidence-Based Policy: So What's Evidence', May 2009

Tel Aviv University, Rationality on Friday Seminar Series, 'Hunting Causes and Using Them: A Bridge Too Far', May 2009

Reichenbach Lecture, 'Can Queen Physics Rule All the Subjects in her Dominion?', UCLA, April 2009

American Educational Research Association meeting, session on Assessing the Impacts of Disciplined Inquiry: Implications of Modeling Evidence Generation in Phases for Research, Policy, and Funding Priorities, 'Putting Evidence to Use', April 2009

Presidential Address, American Philosophical Association, Pacific Division, 'How to Do Things with Causes', April 2009

Edinburgh University Philosophy Society, 'Causality: What Can Be the Use of It?', March 2009

San Francisco State University Workshop on The Experimental Side of Modeling, 'How Do We Know What a Thought Experiment Teaches? Models, Fables and Parables', March 2009

Organization for Economic Cooperation and Development (OECD) and the National Research Council of the National Academies of the United States joint conference on Evidence-Based Policy: International Experiences, 'Towards a Theory of Evidence for Effectiveness for Evidence-Based Policy', Paris, March 2009

British Academy: Enquiry, Evidence and Facts: An Interdisciplinary Conference, 'Evidence-Based Policy: So, What's Evidence?', December 2008

Maastricht University, 'Evidence Based Policy! So What's Evidence?', November 2008

Philosophy of Science Association Biannual Conference, Workshop on Bending Science, 'Evidence for Use', November 2008

National Research Council, Standing Committee on Social Science Evidence for Use, Workshop on Evidence for Use, 'A Theory of Evidence for Effectiveness for Evidence-Based Policy', November 2008

National Research Council, Division of Behavioral And Social Sciences Education (DBASSE) Advisory Board meeting, 'Social Science Evidence; Social Policy Evidence: Observations from the Philosophy of the Social Sciences', October 2008

St Paul's Institute, Discussant on 'The Battle for Truth? The Science-Religion Debate', St Paul's Cathedral, October 2008

University of Kent Causality Study Fortnight: Causality and Probability in the Sciences, 'Causal Claims: From Science to Practice', September 2008

Centre for the Study of Mind in Nature, Annual Oslo Lecture on the Mind in Nature, 'The Incompleteness of Physics and the Hodgepodge of Nature', August 2008

Home Office, UK, Seminar, 'Evidence-Based Government: Hunting Causes and Using Them', June 2008

Centre for the Study of Mind in Nature (CSMN), University of Oslo, PhD-minicourse 'The Notion of "Cause" Needed for the Philosophy of Mind', May 2008

Templeton Foundation, Panelist at the conference 'A Comprehensible Universe: A Celebration of Michael Heller', May 2008

University of Toronto, Department of Philosophy Colloquium, 'Evidence-Based Policy: So ... What's Evidence?', April 2008

Thirty-Eighth Oberlin Colloquium in Philosophy, Oberlin College, 'Evidence-Based Policy: What's To Be Done About Relevance?', April 2008

Institute of Advanced Study and St Chad's College, Durham University, Modelling Matter Symposium, 'Models: Parables versus Fables', March 2008. Published in *Insights* Vol 1, Article 11, October 2009.

Skyrmsfest in Honor of Brian Skyrms' 70th Birthday, Department of Logic and Philosophy of Science, University of California, Irvine, 'Causes, Evidence and Efficacy', March 2008

University of Washington Walker Ames Lecture, 'Evidence-Based Policy - So, What's Evidence?', March 2008

Science Studies, University of California, San Diego, 'Evidence-Based Policy: So, What's Evidence?', February 2008

Department of Philosophy, University of Utah, 'Evidence-Based Medicine', February 2008

Philosophy Department Colloquium, Stanford University, 'What is This Thing Called 'Efficacy'?', January 2008.