

LAWRENCE SKLAR

Born: June 25, 1938 in Baltimore, MD
Married to: Elizabeth S. Sklar; one child

Education

Oberlin College, B.A., 1958
Princeton University, M.A., 1960; Ph.D., 1964

Fellowships, Awards and National Offices Held

Undergraduate

Ford Foundation Early Admission Scholarship
Honors List (all years)
Phi Beta Kappa (elected in junior year)
Sigma Xi (associate member)

Graduate

Woodrow Wilson Fellowship, 1959-60
Chancellor Green Fellowship, 1960-61
Charlotte Elizabeth Proctor Advanced Fellowship (awarded to
top ten students in third year graduate class), 1961-62
National Science Foundation Cooperative Fellowship, 1962-63

Post-Graduate

American Council of Learned Societies Study Fellowship (held
at Oxford University), 1965-66
John Simon Guggenheim Memorial Foundation Fellowship, 1974-75
Franklin J. Matchette Prize. Awarded by the American
Philosophical Association to *Space, Time, and Spacetime*
as outstanding philosophical book of 1973 and 1974
National Science Foundation Research Grants, 1977-78, 1979-80, 1982,
1984-85, 1986-87, 1988-89, 1998-2001, 2002-03
Rackham Foundation Summer Research Fellowship, 1983, 1994

Nelson Fellow, Philosophy Department, University of Michigan, 1991-1994,
 1995-
 James B. and Grace J. Nelson Professorship, Philosophy Department,
 University of Michigan, 1994-95
 National Endowment for the Humanities Fellowship, 1995-96
 Faculty Recognition Award, University of Michigan, 1995-98
 William K. Frankena Collegiate Professorship, University of Michigan,
 1995-2002
 Lakatos Award. Awarded to *Physics and Chance* as outstanding
 book in the philosophy of science for 1995.
Physics and Chance selected by Choice Magazine as Outstanding
 Academic Book in philosophy of science for 1995
 Fellow, American Academy of Arts and Sciences
 John Locke Lectureship in Philosophy, 1998, Oxford University
 Visiting Fellowship, All Souls College, Oxford University, 1998
 Michigan Humanities Award, 1998-99.
 Vice-President, American Philosophical Association, Central Division, 1999-
 2000
 President, American Philosophical Association, Central Division, 2000-01
 Past-President, American Philosophical Association, Central Division, 2001-02
 University of Michigan LS&A Excellence in Research Award, 1999
 Steelcase Research Professorship, Institute for the Humanities, University of
 Michigan, 2000-01
 Carl G. Hempel and William K. Frankena Distinguished University
 Professorship, University of Michigan, 2002-
 University of California Irvine Chancellor's Distinguished Fellow, 2003
 President-Elect, Philosophy of Science Association, 2005-06
 President, Philosophy of Science Association, 2007-08
 Past-President, Philosophy of Science Association, 2009-10
 LSA/OVPR Humanities Award, 2007-08
 Titular Member, Académie Internationale de Philosophie des Sciences

Memberships

American Philosophical Association
 Philosophy of Science Association
 Fullerton Club, 1962-66
 Research Club of the University of Michigan

Teaching

Teaching Fellow	Princeton University	1959-60
Instructor	Swarthmore College	1962-65
Visiting Lecturer	University of Illinois	Summer 1963
Assistant Professor	Swarthmore College	1965-66

Assistant Professor	Princeton University	1966-68
Visit. Assist. Professor	University of Pennsylvania	Summer 1968
Associate Professor	University of Michigan	1968-74
Visit. Assoc. Professor	Harvard University	Summer 1970
Visit. Assoc. Professor	UCLA	1973
Professor	University of Michigan	1974-
Visiting Professor	Wayne State University	1977
Nelson Professor	University of Michigan	1994-95
Collegiate Professor	University of Michigan	1995-2002
Distinguished University Professor	University of Michigan	2002-

Administration and Service

Associate Chairman, Department of Philosophy, The University of Michigan, 1970-72, 1982-83, 1983-84, 1986-87, 1989-91

National Science Foundation, Committee on Graduate Awards, 1970-72

Delegate of the Philosophy of Science Association to the United States National Committee for the International Union of the History and Philosophy of Science, 1974-78

Program Committee, Philosophy of Science Association; 1976 meetings and 1980 meetings

Alumni in Service to Oberlin College

Member, Board of Editors, *Philosophy of Science*, 1977-81, 1984-

Divisional Board for Humanities and Arts, Rackham School of Graduate Studies, The University of Michigan, 1977-78, 1979-80, 1980-81, 1981-82, 1986-88, 1990

Reviewer, *Mathematical Reviews*, 1978-

Nominating Committee, Rackham School, 1980

Member, Governing Board of the Philosophy of Science Association, 1981-84

Program Committee, American Philosophical Association, Western Division, 1982 meetings

National Science Foundation, Research Grants Panel for the History and Philosophy of Science, 1984-87.

Referee for the United States National Committee for the International Union for the History and Philosophy of Science, 1986.

Grant Awards Panel, National Endowment for the Humanities, 1988

Awards Panel, Lakatos Award, 1990-95, 1997-

Member, Editorial Advisory Board, *Studies in History and Philosophy of Modern Physics*, 1995-99.

Advisory Board, *Philosophical Essays*

Member, Executive Committee, American Philosophical Association, Central Division, 1999-2002.

External Review Panel, Department of Philosophy, University of Maryland, 1999

Member, Board of Editors, *Philosophy and Phenomenological Research*, 2000-

2005.

External Reviewer, Department of Logic and Philosophy of Science, University of California, Irvine, 2003

Publications

1967

1. "The Falsifiability of Geometric Theories," *Journal of Philosophy*, vol. LXIV, No. 8 (April 27, 1967) pp. 247-253.
2. "Types of Inter-Theoretical Reduction," *British Journal for the Philosophy of Science*, Vol. 18, No. 2 (August 1967) pp. 109-124.
3. Review of M. Bunge (ed.), *Delaware Seminar in the Foundations of Physics*, in *American Scientist*, (September 1967) p. 340.
4. Review of M. Bunge, *Scientific Research*, in *American Scientist* (December 1967) p. 507A.
5. Review of R. Schlegel, *Completeness in Science*, in *Journal of Philosophy*, Vol. LXV, No. 6 (March 21, 1968) pp. 179-183.
6. Review of K. Przibram, *Letters on Wave Mechanics*, in *American Scientist*, Vol. 56, No. 1 (Spring 1968) p. 53A.
7. Review of A. Kitaigorodskiy, *Order and Disorder in the World of Atoms*, in *Physics Today*, vol. 21, No. 3 (March 1968) p. 93.

1969

8. "The Conventionality of Geometry," *American Philosophical Quarterly*, Monograph Series, Vol. III, "The Philosophy of Science," pp. 42-60.
9. Review of R. B. Lindsay, *The Nature of Physics*, in *American Scientist*, Vol. 57, No. 2 (Summer 1969) p. 128A.
10. Review of A. Petersen, *Quantum Physics and the Philosophical Tradition*, in *American Scientist*, Vol. 57, No. 2 (Summer 1969) pp. 131A-132A.
11. Review of H. Bondi, *Assumption and Myth in Physical Theory*, in *Physics Today*, vol. 22, No. 8 (August 1969) p. 79.

1970

12. "Is Probability a Dispositional Property?," *Journal of Philosophy*, vol. LXVII, No. 11 (June 11, 1970) pp. 355-366.

1972

13. "Absolute Space and the Metaphysics of Theories," *Nous*, Vol. VI, No. 4 (November 1972), pp. 289-309.
14. Review of A. Grünbaum, *Geometry and Chronometry in Philosophical Perspective*, in *Philosophical Review*, Vol. LXXXI, No. 4 (October 1972) pp. 506-509.

1973

15. "Unfair to Frequencies," *Journal of Philosophy*, Vol. LXX, No. 2 (January 15, 1973) pp. 41-52.
16. "Statistical Explanation and Ergodic Theory," *Philosophy of Science*, vol. 40, No. 2 (June 1973) pp. 194-212.
17. (with S. Stich and J. Tinnon) "Entailment and the Verificationist Program," *Ratio*, Vol. XV, No. 1 (June 1973) pp. 84-97.
18. (with S. Stich and J. Tinnon) "Die Logische Folge und das Programm der Verifikationsanhänger," (German version of the item immediately above), *Ratio*, German Edition, 15. Band, Heft 1, pp. 79-92.

1974

19. *Space, Time, and Spacetime*, xii + 423 pp., 57 illus., University of California Press, Berkeley, 1974.
20. "The Evolution of the Problem of the Unity of Science," *Boston Studies in the Philosophy of Science*, Vol. XI, R. Cohen and R. Seeger, (eds.), "AAAS Symposia on Philosophy of Science - 1969," Reidel, Dordrecht, 1974, pp. 153-163.
21. "Incongruous Counterparts, Intrinsic Features and the Substantivality of Space," *Journal of Philosophy*, Vol. LXXI, No. 9 (May 16, 1974) pp. 277-290.
22. Review of D. H. Mellor, *The Matter of Chance*, in *Journal of Philosophy*, Vol. LXXI, No. 13, (July 18, 1974) pp. 418-423.

1975

23. "Methodological Conservatism," *Philosophical Review*, Vol. LXXXIV, No. 3 (July 1975) pp. 374-400.

1976

24. "Thermodynamics, Statistical Mechanics and the Complexity of Reductions," *Boston Studies in the Philosophy of Science*, Vol. XXXII, R. Cohen, C. Hooker, A. Michalos and J. van Evra, (eds.), "PSA 1974," Reidel, Dordrecht, 1976, pp. 15-32.
25. "Inertia, Gravitation and Metaphysics," *Philosophy of Science*, Vol. 43, No. 1 (March 1976) pp. 1-23.
26. (with M. Kaplan) "Rationality and Truth," *Philosophical Studies*, Vol. 30, No. 3 (September 1976) pp. 197-202.

1977

27. *Space, Time, and Spacetime*. Paperback edition of item 19 above. With revisions and a new preface for the paperback edition.
28. "Facts, Conventions, and Assumptions in the Theory of Space-Time," in J. Earman, C. Glymour and J. Stachel, (eds.), *Minnesota Studies in the Philosophy of Science*, Vol. VIII, Foundations of Space-Time Theories, Minneapolis, University of Minnesota Press (1977) pp. 206-274.
29. "What Might Be Right About the Causal Theory of Time," *Synthese*, Vol. 35, No. 2 (June 1977) pp. 155-171.
30. Review of M. Jammer, *The Philosophy of Quantum Mechanics*, in *Philosophy of Science*, vol. 44, No. 2 (June 1977) p. 332.
31. Review of A. Grünbaum, *Philosophical Problems of Space and Time*, 2nd enlarged edition, in *Journal of Philosophy*, Vol. LXXIV, No. 8 (August 1977) pp. 494-500.

1978

32. Review of I. Hinckfuss, *The Existence of Space and Time*, in *Philosophical Review*, Vol. XXXVII, No. 1 (January 1978) pp. 123-126.

1979

33. "Probability as a Theoretical Concept," *Synthese*, Vol. 40 (1979) pp. 409-414.
34. Reprinting of Item 29 in W. Salmon (ed.) *Hans Reichenbach: Logical Empiricist*, Reidel, Dordrecht (1979) pp. 367-384.

35. Review of J. Lucas, *A Treatise on Time and Space*, in *Mathematical Reviews*, Vol. 58 (November 1979) p. 83, item no. 25730.

1980

36. "Semantic Analogy," *Philosophical Studies*, vol. 38, No. 3 (October 1980) pp. 217-234.

37. Review of R. Causey, *Unity of Science*, in *Philosophy of Science*, Vol. 47, No. 4 (December 1980) pp. 656-657.

1981

38. "Up and Down, Left and Right, Past and Future," *Nous* Vol. XV, No. 2 (May 1981) pp. 111-129.

39. "Do Unborn Hypotheses Have Rights?," *Pacific Philosophical Quarterly*, Vol. 62, No. 1 (January 1981) pp. 17-29

40. "Time, Reality, and Relativity," in R. Healy (ed.), *Reduction, Time and Reality*, Cambridge University Press, Cambridge (1981) pp. 129-142.

41. Review of T. Seidenfeld, *Philosophical Problems of Statistical Inference*, *Philosophical Review*, Vol. XC, No. 2 (April 1981) pp. 295-298.

42. Review of S. Amsterdamski, *Between Experience and Metaphysics*, *Nous*, Vol. XV, No. 3 (September 1981) pp. 429-432.

43. Review of D. Turner and R. Hazelett (eds.), *The Einstein Myth and the Ives Papers*, *Journal of the American Chemical Society*, Vol. 103, No. 12 (1981) p. 3618.

44. Review of J. Derrida, *Edmund Husserl's Origin of Geometry: An Introduction*, *Mathematical Review*, Vol. 81, Issue a (January 1981) pp. 4-5, Item no. 00018.

45. Review of W. Stegmuller, *The Structuralist View of Theories*, *Mathematical Reviews*, Vol. 81, Issue i (September 1981) p. 3388, Item no. 00018.

1982

46. "Saving the Noumena," *Philosophical Topics*, Vol. 13 No. 1 (Spring 1982) pp. 89-110.

47. "Comments on Earman and Malament," *PSA 1978*, vol. 2, Philosophy of Science Association, East Lansing, pp. 186-193.

48. Review of R. Torretti, *Philosophy of Geometry from Riemann to Poincare*, *Review of Metaphysics*, Vol. xxxv, No. 3 (March 1982) pp. 633-634.
49. Review of H. Woolf (ed.), *Some Strangeness in the Proportion*, *Mathematical Reviews*, Vol. 82, Issue d (April 1982) pp. 1737-1739, Item No. 83002.
50. Review of H. Mehlberg, *Time Causality and the Quantum Theory*, *Mathematical Reviews*, Vol. 82, Issue f (June 1982) pp. 2696-2697, Item Nos. 81006a,b.
51. Review of G. Whitrow, *The Natural Philosophy of Time*, *Mathematical Reviews*, Vol. 82, Issue c (March 1982) pp. 925-926, item no. 00017.
52. Review of F. de Finis and M. Pantaleo (eds.), *Relativity, Quanta, and Cosmology in the Development of the Scientific Thought of Albert Einstein*, *Mathematical Reviews*, Vol. 82, Issue b (February 1982) pp. 869-870, Item no. 83002.
53. Review of W. Newton-Smith, *The Structure of Time*, *International Studies in Philosophy*, vol. XIV, no. 2, pp. 110-112.

1983

54. "Prospects for a Causal Theory of Spacetime," in R. Swinburne (ed.), *Space, Time, and Causality*, Reidel, Dordrecht (1983) pp. 45-62.
55. "Entropy and Explanation," in N. Rescher (ed.), *Scientific Explanation and Understanding*, University Press of America-CPS Publications, Lenham, MD, (1983) pp. 21-36.
56. Review of J. Buroker, *Space and Incongruence*, *Nous*, vol. 17, no. 2, (May, 1983), pp. 321-323.

1984

57. "Perceived Worlds, Inferred Worlds, The World," *Journal of Philosophy*, vol. LXXXI, no. 11, (November, 1984), pp. 693-706.
58. Review of M. Stafleu, *Time and Again*, *Mathematical Reviews*, vol. 84, Issue b (February 1984), p. 439, item no. 00030.
59. Review of B. Gal-Or, *Cosmology, Physics and Philosophy*, *Mathematical Reviews*, vol. 84, issue b (February 1984), pp. 820-821, item no. 85009.
60. Review of R. Angel, *Relativity: The Theory and its Philosophy*, *Mathematical Reviews*, vol. 84, issue f, (June 1984), p. 2460, item no. 83001.

61. Review of K. Denbigh, *Three Concepts of Time*, *Mathematical Reviews*, vol. 84, issue b, (February 1984), p. 328, item no. 0025.

62. Review of R. Schlegel, *Superposition and Interaction*, *Mathematical Reviews*, vol. 84, issue a, (January 1984), pp. 4-5, item no. 00024.

63. Review of E. Eells, *Rational Decision and Causality*, *Mathematical Reviews*, vol. 84, issue j, (October 1984), pp. 3948-3949, item no. 03050.

1985

64. *Philosophy and Spacetime Physics*, x + 335 pp., University of California Press, Berkeley, 1985.

65. "Modestly Radical Empiricism," in P. Achinstein and O. Hannaway, eds., *Observation, Experiment, and Hypothesis in Modern Physical Science*, MIT Press, Cambridge, 1985, pp. 1-20.

1986

66. "Comments on H. Field's "Can We Dispense with Space-Time?,"" *PSA-1984*, vol. 2, Philosophy of Science Association, East Lansing, 1986, pp. 101-105.

67. "Comments on D. Malament's "Time Travel in the Godel Universe","" *PSA-1984*, Philosophy of Science Association, East Lansing, 1986, pp. 106-110.

68. Review of J. Aronson, *A Realist Philosophy of Science*, *Philosophical Review*, vol. xcv, no. 3, July 1986, pp. 444-446.

69. Review of P. Landsberg, (ed.), *The Enigma of Time*, *Mathematical Reviews*, vol. 86, issue g (July 1986), p. 3283, item no. 83002.

70. Review of A. van der Merwe, (ed.), *Old and New Questions in Physics, Philosophy and Theoretical Biology*, *Mathematical Reviews*, vol. 86, issue d (April 1986), pp. 1725-1726, item no. 81002.

71. Review of D. H. Mellor, *Real Time*, *International studies in Philosophy*, vol. XVIII, no. 3, March 1986, pp. 69-70.

72. Review of J. T. Fraser, *The Genesis and Evolution of Time: A Critique of Interpretation in Physics*, *International Studies in Philosophy*, vol. XVIII, no. 3, March 1986, pp. 61-62.

1987

73. *Philosophy and Spacetime Physics*. Paperback edition of item 64 above.

74. "The Elusive Object of Desire: In Pursuit of the Kinetic Equations and the Second Law," in A. Fine and P. Machamer, eds., *PSA-1986*, vol. 2, Philosophy of Science Association, East Lansing, MI, 1987, pp. 209-225.

75. Review of K. Denbigh and J. Denbigh, *Entropy in Relation to Incomplete Knowledge*, in *Canadian Philosophical Reviews*, vol. VII, no. 2, February 1987, pp. 54-55.

76. Review of G. Colodny, ed., *From Quarks to Quasars, Philosophical Problems of Modern Physics*, *Mathematical Reviews*, vol. 87, issue j (October 1987) p. 5950, Item no. 81009.

1988

77. Review of M. Friedman, *Foundations of Space-Time Theories*, *Journal of Philosophy*, vol. LXXXV, no. 3, March, 1988, pp. 158-164.

78. Review of M. Friedman, *Foundations of Space-Time Theories*, *Mathematical Reviews*, vol. 88, issue c (March 1988), p. 1609, item no. 83001

79. Review of E. Squires, *The Mystery of the Quantum World*, *Mathematical Reviews*, vol. 88, issue i (September 1988), pp. 4930-4931, item no 81003

80. Review of D. Gribanov, Albert Einstein's Philosophical Views and the Theory of Relativity, *Mathematical Reviews*, vol. 88, issue k (November 1988), p. 5622, item no. 01033

1989

81. "Ultimate Explanations: Comments on Tipler," in A. Fine and J. Leplin, eds., *PSA - 1988*, Philosophy of Science Association, East Lansing, MI, 1989, pp. 49 - 55.

82. Review of P. Kroes, *Time: Its Structure and Role in Physical Theories*, *International Studies in Philosophy*, vol. xxi, no. 1, January, 1989, pp. 97 - 99.

83. Review of P. Janich, *Protophysics of Time*, *International Studies in Philosophy*, vol. xxi, no. 3, July, 1989, pp. 121-122

84. Review of F. Brentano, *Philosophical Investigations of Space, Time and the Continuum*, *Mathematical Reviews*, vol. 89, issue e (May, 1989), p. 2434, item 01051

85. Review of M. Heller, *Questions to the Universe*, *Mathematical Reviews*, vol. 89, issue (May, 1989), p. 2901, item 83001

86. Review of D. Greenberger, *New Techniques and Ideas in Quantum Measurement Theory*, *Mathematical Reviews*, volume 90, issue m, (December, 1989), pp. 7067-7069, item 81005

87. Review of R. Flood and M. Lockwood, eds., *The Nature of Time*, *Mathematical Reviews*, volume 89, issue m (December, 1989), p. 7113, item 83002.

1990

88. "Foundational Physics and Empiricist Critique," in C. Wade Savage, ed., *Scientific Theories*, *Minnesota Studies in the Philosophy of Science*, vol. XIV, University of Minnesota Press, Minneapolis, 1990, pp. 136-157.

89. "Invidious Contrasts Within Theories," in G. Boolos, ed., *Meaning and Method: Essays in Honor of Hilary Putnam*, Cambridge University Press, Cambridge, 1990, pp. 197-212.

90. "Real Quantities and Their Sensible Measures," in P. Bricker and R. Hughes, eds., *Philosophical Perspectives on Newtonian Science*, MIT Press, Cambridge, MA, 1990, pp. 57-75.

91. Reprinting of item 21 in J. van Cleve and R. Fredericks, eds., *The Philosophy of Left and Right*, Kluwer, Dordrecht, 1990, pp. 173-186.

92. Reprinting of item 40 in P. Yourgrau, ed., *Demonstratives*, Oxford University Press, Oxford, 1990, pp. 247-260.

93. Review of A. Loizou, *The Reality of Time*, *International Studies in Philosophy*, vol. xxii, no. 3, pp. 127-128.

94. Review of A. Grunbaum and W. Salmon, eds., *The Limits of Deductivism*, of P. Humphreys, *The Chances of Explanation* and of J. Trefil, *Reading of the Mind of God*, (joint review), *American Scientist*, vol. 78, July-August 1990, pp. 387-388.

95. Review of N. Swartz, *The Concept of Physical Law*, *Journal of Philosophy*, vol. lxxxvii, no. 8, August, 1990, pp. 432-435.

96. Review of D. Mook and T. Vargish, *Inside Relativity*, *Mathematical Reviews*, volume 90, issue f, (June 1990), pp. 3668-3669, item 83001.

97. Review of H. Mortimer, *The Logic of Induction*, *Mathematical Reviews*, volume 90, issue a, (January 1990), p. 35, item 03022.
98. Review of B. d'Espagnat, *Reality and the Physicist*, *Mathematical Reviews*, volume 90, issue c, (March 1990), pp. 1344-1345.
99. Review of J. Earman, *World Enough and Space-Time*, *Mathematical Reviews*, volume 90, issue k, (November, 1990), pp. 6758-6759, item 83001.
100. Review of J. Vickers, *Chance and Structure*, *Mathematical Reviews*, volume 90, issue g, (July 1990), pp. 3763-3764, item 03022.

1991

101. "The Conventionality of Simultaneity! Again?," in *Physical Interpretations of Relativity Theory:Proceedings*, Sunderland Polytechnic, Sunderland, 1991, pp. 523-537.
102. "How Free Are Initial Conditions?," in A. Fine, M. Forbes and L. Wessels, eds., *PSA - 1990*, Philosophy of Science Association, East Lansing, MI, 1991, pp. 551-564.
103. "Quantum Physics," in H. Burkhardt and B. Smith, eds., *Handbook of Metaphysics and Ontology*, Philosophia, Munich, 1991, vol. 2, pp. 747-749.
104. "Spacetime," in H. Burkhardt and B. Smith, eds., *Handbook of Metaphysics and Ontology*, Philosophia, Munich, 1991, vol. 2, pp. 850-852.
105. Review of P. Sibelius, *Natural Contradictions and the Concept of Action in Mechanics*, *Mathematical Reviews*, vol. 91, issue b (February 1991), pp. 1122-1123, item 81013.
106. Review of R. Penrose, *The Emperor's New Mind*, *Mathematical Reviews*, vol. 91, issue c (March 1991), pp. 1259-1260, item 00010.
107. Review of D. Bohm, *The Special Theory of Relativity*, *Mathematical Reviews*, vol. 91, issue e (May 1991), p. 2902, item 83006.
108. Review of J. Lucas and P. Hodgson, *Spacetime and Electromagnetism*, *Mathematical Reviews*, vol. 91, issue m (December 1991), pp. 6961-6962, item 83004.
109. Review of D. Pearce, *Roads to Commensurability*, *Journal of Symbolic Logic*, vo. 56, no. 1 (March 1991), pp. 355-356.

1992

110. *Philosophy of Physics*, xi + 246 pp., 31 illus., Westview Press, Boulder CO (hardback and paperback editions) and Oxford University Press, Oxford, Dimensions of Philosophy series, 1992. (Chosen asselection by The Library of Science.)

111. Review of R. Torretti, Creative Understanding, *Mathematical Reviews*, vol. 92, issue b (February 1992), pp. 581-582, item 00012.

112. Review of E. Squires, Conscious Mind in the Physical World, *Mathematical Reviews*, vol. 92, issue b (February 1992), p. 581, item 00011.

113. Review of A. Leff and A. Rex, Maxwell's Demon: Entropy, Information and Computing, *Mathematical Reviews*, vol. 92, issue h (August 1992), pp. 4621-4622, item 82003.

114. Review of P. Yorgrau, The Disappearance of Time, *Mathematical Reviews*, vol. 92, issue j (October 1992), p. 5318, item00020.

115. Review of S. Saunders and H. Brown, *The Philosophy of Vacuum*, *Mathematical Reviews*, vol. 92, issue i (September 1992) pp. 5193-5194, item 81007.

116. Review of D. Ruell, Change and Chaos, *Mathematical Reviews*, vol.92, issue j (October 1992),p. 5319, item 00025.

117. Review of D. Home and M. Whittaker, *Ensemble Interpretations of Quantum Mechanics: A Modern Perspective*, *Mathematical Reviews*, vo. 92, issue m (December 1992), p. 7137, item 81013.

118. Review of H. Krips, The Metaphysics of Quantum Theory, *Mathematical Reviews*, vol. 92, issue m (December 1992), pp. 7137-7138, item 81014.

1993

119. *Physics and Chance: Philosophical Issues in the Foundations of Statistical Mechanics*, xiii + 437 pp., 26 illus., Cambridge University Press, Cambridge, 1993.

120. Reprinting of item 38 in R. Le Poidevin and M. MacBeath, *The Philosophy of Time*, Oxford University Press, Oxford, 1993,

pp. 99-116.

121. Review of C. Ray, *Time, Space and Philosophy*, *Isis*, vol. 84 no. 1, March, 1993, p. 189.

122. Review of R. Koons, Paradoxes of Belief and Strategic Rationality, *Mathematical Reviews*, volume 93, issue d, (April, 1993), p. 1765, item 03029.

1994

123. *Filosofía de la física*, Spanish translation of item 109, Alianza Editorial, Madrid, 1994, 349 pp.

124. "Idealization and Explanation: A Case Study From Statistical Mechanics," in P. French, T. Uehling and H. Wettstein, eds., *Midwest Studies in Philosophy*, vol. XVIII, "Philosophy of Science," University of Notre Dame Press, South Bend IN, 1994, pp. 258-270.

125. "Determinism," in J. Kim and E. Sosa, eds., *A Companion to Metaphysics*, Blackwell, Oxford, 1994, pp. 116-118.

126. "Space and Time," in J. Kim and E. Sosa, eds., *A Companion to Metaphysics*, Blackwell, Oxford, 1994, pp. 465-470.

127. Review of J. von Plato, *Creating Modern Probability: Its Mathematics, Physics and Philosophy in Historical Perspective*, *Journal of Philosophy*, vol. XCI, no. 11, November 1994, pp. 622-626.

128. Review of T. Maudlin, *Quantum Non-Locality and Relativity*, *British Journal for the Philosophy of Science*, vol. 45, no. 3, September, 1994, pp. 933-934.

129. Review of A. Shimony, *Search for a Naturalistic World View*, *Mathematical Reviews*, volume 94, issue d, (April, 1994), item nos. 01098 and 01099.

130. Review of T. Brody, *The Philosophy Behind Physics*, *Mathematical Reviews*, volume 94, issue j, (October, 1994), item no. 81008.

131. Review of I. Ekeland, *The Broken Dice, and Other Mathematical Tales of Chance*, *Mathematical Reviews*, volume 94, issue i, (September, 1994), item no. 00003.

132. Review of J. Dupre, *The Disorder of Things*, *The Review of*

Metaphysics, vol. XLVIII, no. 2, issue 190, December 1994, pp. 400-401.

1995

133. Paperback edition of *Physics and Chance* (item 118), Cambridge University Press, Cambridge, 1995. (Chosen as selection by the Library of Science.)

134. "Time in Experience and in Theoretical Description of the World," in S. Savitt, ed., *Time's Arrow Today*, Cambridge University Press, Cambridge, 1995, pp. 217-229.

135. Reprinting of item 74 in S. Savitt, ed., *Time's Arrow Today*, Cambridge University Press, Cambridge, 1995, pp. 191-216.

136. "Author's Response," (Response to "Ideal Times (Review of *Physics and Chance*) by P. Hart), *Metascience*, New Series, Issue 7, 1995, pp. 90-93.

137. "Philosophy of Science," in R. Audi, ed., *Cambridge Dictionary of Philosophy*, Cambridge University Press, Cambridge, 1995, pp. 611-615.

138. Entries in T. Honderich, ed., *Oxford Companion to Philosophy*, Oxford University Press, Oxford, 1995.: "Action-at-a-Distance," p. 5; "Ludwig Boltzmann," p. 98; "Stochastic Process, p. 852.

139. Review of D. Oliver, *The Shaggy Steed of Physics: Mathematical Beauty in the Physical World*, *Mathematical Reviews*, volume 95, issue d, (April, 1995), item no. 00013.

140. Review of L. Brown and J. Rigden, eds., *"Most of the Good Stuff": Memories of Richard Feynman*, *Mathematical Reviews*, volume 95, issue i, (September, 1995), item no. 01023.

141. Review of G. Nerlich, *What Spacetime Explains*, *Mathematical Reviews*, volume 95, issue j, (October, 1995), item no. 83002.

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Forthcoming

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“Introduction,” in the above.

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Reprinting of item 38 forthcoming in Vincenzo Fano, *Tempo fisico ed esperienza*, Cooperative Libreria Universitaria, Bologna

Talks and Addresses

American Philosophical Association:

Commentator, Western Division, 1970
 Chairman of Symposium, Eastern Division, 1975
 Commentator, Western Division, 1977
 Lead Symposiast, Western Division, 1978
 Invited Speaker, Pacific Division, 1980
 Chairman of Symposium, Western Division, 1981
 Chairman of Symposium, Western Division, 1982
 Lead Symposiast, Eastern Division, 1984
 Commentator, Pacific Division, 1984
 Invited Speaker, Eastern Division, 1987
 Invited Speaker-Symposiast, Pacific Division, 1990
 Chairman of Symposium, Eastern Division, 1994
 Invited Symposiast, Pacific Division, 1994
 Chairman of Symposium, Eastern Division, 1995
 Invited Speaker, Central Division, 1997
 Invited Speaker, Pacific Division, 1997
 Symposiast-Commentator, Eastern Division, 1998
 Invited Speaker, Pacific Division, 1998
 Introduction to Presidential Address, Central Division, 2000
 Presidential Address, Central Division, 2001
 Commentator, Pacific Division, 2001
 Invited Speaker, Eastern Division, 2001
 Invited Speaker, Pacific Division, 2003
 Invited Speaker, Pacific Division, 2004
 Invited Speaker, Central Division, 2004
 Invited Speaker, Pacific Division, 2006
 Chairman of Symposium, Pacific Division, 2008
 Chairman of Symposium, Pacific Division, 2009

Philosophy of Science Association:

Symposiast, 1974
 Chairman of Symposium, 1976
 Symposiast-Commentator, 1978
 Chairman of Symposium, 1980
 Symposiast-Commentator, 1984
 Lead Symposiast, 1986
 Symposiast-Commentator, 1988
 Invited Speaker-Symposiast, 1990
 Chairman of Symposium, 1996
 Chairman of Symposium, 1998

Invited Speaker, 2002
 Chairman of Symposium, 2004
 Chairman of Symposium, 2006
 Presidential Address, 2008

Other:

Symposiast, University of North Carolina Philosophy and Physics Colloquium, 1969
 Symposiast-Commentator, Minnesota Conference on Philosophy of Physics, 1974
 Commentator, Oberlin Colloquium in Philosophy, 1977
 Invited Lecturer, Mount Holyoke College, 1977
 Invited Speaker, Thyssen Symposium in Philosophy, Barnstaple, England, 1979
 Invited Speaker, Pittsburgh Colloquium in the Philosophy of Science, 1979
 Symposiast, Royal Institute of Philosophy, Keele, England, 1981
 Symposiast, Pittsburgh History and Philosophy of Science Program Workshop, 1983
 Lecturer, School of Public Health, University of Michigan, 1984, 1988
 Lecturer, National Endowment for the Humanities Institute in the Philosophy of Science, University of Minnesota, 1986.
 Invited Speaker, Newton Tercentenary Conference, Yale University, 1987.
 Invited Symposiast, American Association for the Advancement of Science, 1969, 1988.
 Invited Speaker, Gibbs Sesquicentennial Program, University of Maryland, 1989
 Moderator, Symposium on Non-Linear Dynamics, University of Michigan, 1990
 Invited Speaker, Conference on Physical Interpretations of Relativity Theory London, 1990
 Invited Speaker, Workshop on Kant and Contemporary Epistemology, Florence, 1992
 Invited Scientific Contributor, Workshop on Scientific Validity in the Courts, Washington, DC, 1991
 Invited Speaker, Conference on "Time's Arrow Today," University of British Columbia, Vancouver, 1992
 Invited Commentator, Third International Symposium on the History of Particle Physics: The Rise of the Standard Model, Palo Alto, 1992
 Invited Speaker, North Carolina Philosophy Colloquium, 1992
 Collegiate Professorship Inaugural Lecture, University of Michigan, 1995
 Lakatos Award Lecture, London School of Economics and Political Science, London, 1996
 Invited Speaker, Oxford University Conference on Relativity, 1996
 Invited Speaker, Cambridge University Conference on Philosophy of Physics, 1996
 Invited Speaker, LSE/King's College Faculty-Graduate Student

Seminar, London, 1996
 Invited Speaker, Philosophy of Physics Seminar, London
 School of Economics, 1996
 Commentator, University of North Carolina Philosophy
 Colloquium, 1996
 Invited Speaker, Oberlin Colloquium in Philosophy, 1997
 John Locke Lectures, Oxford University, 1998
 Invited Speaker, Aristotelian Society, London, 1998
 Invited Speaker, World Congress of Philosophy, Boston, 1998
 Invited Speaker, Irvine Conference on the Philosophy of Mathematics and
 Physics, 1998
 Invited Lecturer, Lecture Series, Center for the Philosophy of Science,
 University of Pittsburgh, 1998-99
 Invited Speaker and Symposiast, Conference on Gravity and Geometry,
 University of British Columbia, 1999
 Invited Symposiast, Conference on Chance in Physics: Foundations and
 Perspectives, Naples, Italy, 1999
 Invited Speaker, Conference on Conceptual Foundations of Statistical
 Mechanics, Jerusalem, Israel, 2000
 Department of Philosophy, University of Illinois – Urbana, Annual Public
 Lecture, 2001
 University of Michigan, Humanities Institute Brown-Bag, 2001
 Invited Speaker, Conference on The Mathematics of Modern Physics from 1850
 To 1940, Denmark, 2002
 John Dewey Memorial Lecture, University of Vermont, 2001
 Invited Speaker, Western Ontario Conference on Philosophy of Physics, 2002
 Invited Speaker, University of North Carolina Philosophy Colloquium, 2002
 Chancellor's Distinguished Fellow Lecture, University of California, Irvine, 2003
 Coffa Memorial Lecture, Indiana University, 2002
 Distinguished University Professorship Inaugural Lecture, University of
 Michigan, 2003
 Invited Speaker, Santa Barbara Conference in Philosophy of Science, 2005
 Invited Participant, Pacific Institute of Theoretical Physics, Workshop on Arrows
 of Time, Stillwater, MN, 2004
 Invited Speaker, Conference on Reductionism and Anti-Reductionism in Physics,
 Pittsburgh Center for Philosophy of Science, 2006
 Presidential Address, Philosophy of Science Association, Pittsburgh, 2008
 Keynote Speaker, University of Pittsburgh – Carnegie-Mellon University
 Graduate Student Conference, 2010

Invited Papers presented to Departmental Colloquia at:

Rockefeller University
 Massachusetts Institute of Technology
 University of Southern California
 Oberlin College

University of Pennsylvania
Johns Hopkins University (2 invitations)
California State College-Long Beach
University of Chicago
University of North Carolina-Greensboro
Indiana University
University of Illinois at Chicago Circle
University of California-Los Angeles
University of California-Los Angeles; Physics Department
The University of Michigan; Physics Department (2 invitations)
University of Massachusetts
Rice University
University of Arizona
Syracuse University
University of Vermont
University of Miami
Michigan State University
Wayne State University; Physics Department
University of British Columbia: Physics Department
University of British Columbia/Simon Fraser University
Ohio State University
University of Chicago History and Philosophy of Science Workshop
Rutgers University
Western Michigan University
University of Vermont
Colby College
Brown University

Brief Expository Reviews in *Mathematical Reviews*

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2. Of Z. Augustynek, "Past, Present and Future in Relativity."
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4. Of J. Fetzer, "Reichenbach, Reference Classes, and Single Case 'Probabilities'."
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6. Of R. Wojcicki, "Set Theoretic Representations of Empirical Phenomena."
7. Of E. Erwin, "Quantum Logic and the Status of Classical Logic."
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13. Of H. Kyburg, "Tyche and Athena."
14. Of L. Boon, "Repeated Tests and Repeated Testing."
15. Of M. Sachs, "On the Philosophy of General Relativity and Ideas of Eastern and Western Cultures."
16. Of H. Simon, "Fit, Finite and Universal Axiomatizations of Theories."
17. Of H. Leblanc, "Probabilistic Semantics for First-Order Logic."
18. Of P. Walley and T. Fine, "Varieties of Modal (Classificatory) and Comparative Probability."

19. Of H. Zeh, "Quantum Theory and Time Asymmetry."
20. Of D. Finkelstein, "The Delinearization of Physics."
21. Of P. Bergmann, "Unitary Field Theory, Geometrization of Physics or Physicalization of Geometry?"
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23. Of C. Yang, "Einstein's Impact on Theoretical Physics."
24. Of G. Nerlich, "Is Curvature Intrinsic to Physical Space?"
25. Of N. Cufaro Petroni and J. P. Vigièr, "Markov Process at the Velocity of Light: the Klein-Gordon Statistic."
26. Of E. Zahar, "Einstein, Meyerson and the Role of Mathematics in Physical Discovery."
27. Of G. Joseph, "Geometry and Special Relativity."
28. Of M. Garcia-Sucre, "Space-Time in a Simple Model of a Physical System."
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31. Of M. Davis, E. Stachel and E. Heller, "Quantum Dynamics in Classically Integral and Non-Integrable Regions."
32. Of V. Alda, "Remark on Two Papers Concerning Axiomatics of Quantum Mechanics."
33. Of R. Laymon, "Independent Testability: The Michelson-Morley and Kennedy-Thorndike Experiments."
34. Of C. von Weizsacker, "A Reconstruction of Quantum Theory."
35. Of A. Barut, "Consequences of a Dynamical Theory of the Planck Constant K for the Origin of Quantum Theory."
36. Of K. Friedrichs, "Unobserved Observables and Unobserved Causality."

37. Of A. Polikarov, "An Attempt at Reconstructing the Transition from Classical to Relativistic Physics."

38. Of D. Malament and S. Zabell, "Why Gibbs Phase Averages Work - the Role of Ergodic Theory."

39. Of R. Lestienne, "Entropy, Mechanical Time and Cosmological Arrow."

40. Of R. Hermann and N. Hurt, "Some Relations Between System Theory and Statistical Mechanics."

41. Of P. Cardoso Dias and A. Shimony, "A Critique of Jaynes' Maximum Entropy Principle."

42. D. Gooding, "Metaphysics vs. Measurement: The Conversion and Conservation of Force in Faraday's Physics."

43. Of J. Isenberg, "Wheeler-Einstein-Mach Spacetimes."

44. Of M. Deakin and G. Troup, "The Logical Status of Thermodynamic Proofs of Mathematical Theorems."

45. Of C. Moulineo, "An Example of a Theory-Frame: Equilibrium Thermodynamics."

46. Of W. Zurek, "Pointer Basis of Quantum Apparatus: Into What Mixture Does the Wave Packet Collapse?"

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49. Of M. Redhead, "Experimental Tests of the Sum Rule."

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52. Of L. Kruger, "Reduction as a Problem, Some Remarks on the History of Statistical Mechanics from a Philosophical Point of View."

53. Of V. Kartsev, "The Mach-Boltzmann Controversy and Maxwell's Views on Physical Reality."

54. Of A. Fine, "Hidden Variables, Joint Probabilities, and the Bell Inequalities."

55. Of Y. Orlov, "The Wave Logic of Consciousness, A Hypothesis."
56. Of J. Audretsch, "Quantum Gravity and the Structure of Scientific Revolutions."
57. Of H. Leblanc, "What Price Substitutivity? A Note on Probability Theory."
58. Of E. Bitsakis, "Continuity and Discontinuity in Contemporary Physics."
59. Of J. Dieudonne, "Le Continu et le Discret."
60. Of I. Pitowsky, "Resolution of the Einstein-Podolsky-Rosen and Bell Paradoxes."
61. Of J. Hurley and C. Garrod, "Generalization of the Onsager Reciprocity Theorem."
62. Of P. Pearle, "Might God Toss Coins?"
63. Of N. Mermin, "Comment on: Resolution of the Einstein-Podolsky-Rosen and Bell Paradoxes."
64. Of A. Macdonald "Comment on: Resolution of the Einstein-Podolsky-Rosen and Bell Paradoxes."
65. Of I. Levi, "Ignorance, Probability and Rational Choice."
66. Of P. Gardenfors and N. Sahlin, "Unreliable Probabilities, Risk-Taking, and Decision-Making."
67. Of C. Phillipidis, D. Bohm and R. Kaye, "The Aharonov-Bohm Effect and the Quantum Potential."
68. Of N. Sahlin, "On Counterfactual Probabilities and Causation: A Note."
69. Of B. van Fraassen, "Gentleman's Wagers: Relevant Logic and Probability."
70. Of P. Moldauer, "Comment on: Bell's Theorem as a Nonlocality Property of Quantum Theory'."
71. Of H. Stapp, "Bell's Theorem as a Nonlocality Property of Quantum Theory."
72. Of P. Eberhard, "Constraints of Determinism and of Bell's Inequalities Are Not Equivalent."

73. Of A. Fine, "Comments on the Significance of Bell's Theorem."
74. Of N. Mermin, "Pair Distributions and Conditional Independence: Some Hints About the Structure of Quantum Correlations."
75. Of P. Teller, "Quantum Physics, the Identity of Indiscernibles and Some Unanswered Questions."
76. Of B. Mundy, "Relational Theories of Euclidean Space and Minkowski Spacetime."
77. Of K. Lehrer and C. Wagner, "Probability Amalgamation and the Independence Issue: A Reply to Laddage."
78. Of J. Pollock, "A Theory of Direct Inference. I. A Classical Theory of Direct Inference."
79. Of P. Teller, "The Projection Postulate as a Fortuitous Approximation."
80. Of S. Gudder, "Finite Quantum Processes".
81. Of D. Mayo, "An Objective Theory of Statistical Testing".
82. Of J. Fetzer, "Probability and Objectivity in Deterministic and Indeterministic Situations."
83. Of C. Wagner, "Aggregating Subjective Probabilities: Some Limitative Theorems".
84. Of E. Eells, "Objective Probability Theory Theory".
85. Of P. Teller, "The Projection Postulate: A New Perspective".
86. Of J. Forge, "Theoretical Functions, Theory and Evidence".
87. Of A. Fine, "What is Einstein's Statistical Interpretation, or Is It Einstein for Whom Bell's Theorem Tolls?"
88. Of A. Stairs, "Sailing into the Charybdis: van Fraassen and Bell's Theorem".
89. Of R. Schock, "Ravens, Grue, and Material Implication".
90. Of T. Horgan, "Science Nominalized".
91. Of J. Pollack, "Foundations of Direct Inference".

92. Of A. Hiskes, "Space-Time Theories and Symmetry Groups".
93. Of L. Wessels, "EPR Resuscitated? A Reply to Halpin".
94. Of N. Maxwell, "Are Probabilism and Special Relativity Incompatible?"
95. Of I. Pitowsky, "Quantum Mechanics and Value Definiteness".
96. Of H. Leblanc and C. Morgan, "Probability Functions and their Assumption Sets - the Binary Case".
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