

ROBERT P. CREASE

PROFESSOR, DEPARTMENT OF PHILOSOPHY, STONY BROOK UNIVERSITY, STONY
BROOK, NY 11794

Ph.D. Columbia University 1987, BA Amherst College 1976

ADMINISTRATIVE POSITIONS

2006-12, 2017- 23 Chair, Philosophy Department
2005 Spr. Acting Chair, Philosophy Department
1997-8 Director, Graduate Program, Philosophy Department

POSITIONS AND EDITORIAL POSTS

2018-2021 Board of Directors (Secretary), Gathering 4 Gardner
2016-2017 Chair, Forum on History of Physics, American Physical Society (Vice-Chair 2015-6)
2014-2021 Co-Editor-in-Chief, Physics in Perspective (Springer)
2011-2020 Editor, Newsletter for Forum on History of Physics, American Physical Society
2002-3 Senior Fellow, Dibner Institute for the History of Science and Technology
2000+ Professor, SUNY Stony Brook
1994-2000 Associate Professor, SUNY Stony Brook
1988-94 Assistant Professor, SUNY Stony Brook
1987-8 Visiting Professor, SUNY Stony Brook

SELECT HONORS AND GRANTS

2023-4 National Science Foundation (NSF) Award ID #2317588, \$240,000, for "Social and Political Dynamics of Lab-Community Relations."
2021 William Thomson, Lord Kelvin Medal and Prize (Institute of Physics) for "describing key humanities concepts for scientists, and explaining the significance of key scientific ideas for humanists."
2019 Mahan Lectureship, Gettysburg College, Gettysburg, PA.
2019 Grant-in-Aid, American Institute of Physics, for Oral Interview of David Moncton
2016 Grant-in-Aid, American Institute of Physics, for Oral Interview of Toichiro Kinoshita
2013 First Prize, Stony Brook 2012-3 Science Playwriting Competition, for "Trust Territory"
2008 Fulbright Fellowship, German Studies Seminar on Science and Policy, Berlin/Brussels, June
2007 Elected a Fellow, American Physical Society, Washington
2007 Elected a Fellow, Institute of Physics, London
2006-9 Templeton Research Lectures 3-year grant, "Trust in Science and Religion"
2007 Stony Brook University Interfaith Center Partnership Award
2004 William H. McLean Visiting Scholar, Collegiate School
1999, 2000 SBU-BNL Seed Grant, "Science Studies at Stony Brook"
1998 Co-PI for NSF Grant No. 431-0807A, for "Social Dimensions of Science" Course, in Project WISE (Women in Science and Engineering)
1994-6 Faculty Associate for 3-Year NSF Grant (PI Ted Goldfarb) "Science and Ethics in the High School Classroom"
1979-80 Fulbright/Hays Full Grant for Study in Belgium
1977-9 National Defense and Area Studies Award (Language: Dutch)

SELECT COMMITTEES

Search Committee, VP for Research, 2011, 2014
Executive Committee, American Physical Society Forum on History of Physics, 2010+

Chairman, Provost Search Committee, 2007
American Institute of Physics History Committee (2000-3)
American Physical Society Task Force on Preservation of Referee Reports (1999-2000)
Brookhaven Lecture Committee (1994-2000); Chair 1997-9, Secretary 1995-7
Institutional Review Board (IRB), Brookhaven National Laboratory (1998-1999)

OTHER

Columnist for: *Physics World*, 2000+
Founder, Laboratory History Conferences, which meet approximately biennially since 1999.
Contributor to: Encyclopedia Britannica, American National Biography, New Dictionary of Scientific Biography, etc.

List of Work

A. Authored and Co-Authored Books:

Philosophy of Physics: A New Introduction (2023). IOP Publishing, Bristol, UK.

The Leak: Politics, Activism, and Loss of Trust at Brookhaven National Laboratory, with Peter Bond, MIT Press, 2022.

The Workshop and the World: What Ten Thinkers Can Teach Us about Science and Authority. W. W. Norton, March 2019.

Philosophy of Physics. Institute of Physics (IOP) ebook, 2017.

The Quantum Moment, by Robert P. Crease and Alfred S. Goldhaber. W. W. Norton, 2014.
Translations: Japanese, Czech

World in the Balance: The Historic Quest for an Absolute System of Measurement, W.W. Norton, 2011. Translations: Portuguese (Zahar, 2013), Chinese.

The Great Equations: Breakthroughs in Science from Pythagoras to Heisenberg, WW Norton, January 2009. Translations: Chinese, Japanese, Portuguese, Hebrew.

J. Robert Oppenheimer: A Life, by Abraham Pais, with supplemental material by Robert P. Crease.
New York: Oxford University Press, 2006.

The Prism and the Pendulum: The Ten Most Beautiful Experiments in Science. NY: Random House, 2003. Trans: Japanese (Nikkei 2006), Chinese (Citè, 2006), Portuguese/Brazil (Zahar 2006), Portuguese/Portugal (Europa-América 2006), Spanish (Crítica 2006).

Making Physics: A Biography of Brookhaven National Laboratory, 1946-1972. Chicago: University of Chicago Press, 1999.

Peace and War: Reminiscences of a Life at the Frontiers of Science, by Robert Serber with Robert P. Crease. New York: Columbia University Press, 1998. Japanese translation 2016.

The Play of Nature: Experimentation as Performance. Indiana University Press, 1993

The Second Creation: Makers of the Revolution in 20th Century Physics, by Robert P. Crease and Charles C. Mann. New York, Macmillan, 1986; repr. Rutgers University Press, 1996

B. Edited Works and Translations:

Between Science and Industry: Institutions in the History of Materials Science (2024), ed. R. Crease. World Scientific.

Phenomenology of Quantum Mechanics, special issue of *Continental Philosophy Review*, ed. by Robert P. Crease, Delicia Kamins, Paul Rubery, forthcoming (articles are already posted.)

Technoscience and Postphenomenology: The Manhattan Papers, ed. by Jan K. B. Friis and Robert P. Crease, Maryland: Lexington Books, 2015

Science Policy Up Close, by John H. Marburger III, edited by Robert P. Crease. Harvard University Press, 2015

The Philosophy of Expertise, ed. E. Selinger and Robert P. Crease. Columbia Univ. Pr. 2006. Chinese Trans, China Science Publishing, 2015.

What Things Do, by P.-P. Verbeek, Dutch trans. by R. P. Crease. Penn State UP, 2005.

American Philosophy of Technology, by Hans Achterhuis, trans. from the Dutch by Robert P. Crease. Indiana University Press, 2001.

Hermeneutics and the Natural Sciences, ed. Robert P. Crease. Kluwer 1997. A reprint of *Man and World* 30:3, of which I was guest-editor.

Dialectic and Difference: Finitude in Modern Thought, by Jacques Taminiaux. Ed. and tr. from the French by Robert P. Crease and James T. Decker. Humanities Press, 1985.

Vico in English: A Bibliography of Writings by and About Giambattista Vico (1668-1744). Atlantic Highlands: Humanities Press, 1978.

C. Articles

95. Founding the First Chemistry Laboratory in Russia: Mikhail Lomonosov's Project. <http://arxiv.org/abs/2404.08779>

94. "Francis James Macdonald Farley" 2024, The Royal Society. <https://royalsocietypublishing.org/doi/10.1098/rsbm.2023.0037>.

93. "Reflections on the New Big Science: Capabilities and Challenges" (2024). *In Big Science in the 21st Century: Economic and Societal Impacts*, ed. by T Arabatzis, P Charitos, H Cliff, G Dissertori, J Forneris, J Li-Ying, IOP Press. In <https://cernbox.cern.ch/s/CIGEi2hC5XKJvt0>
92. "Toichio Kinoshita," with Makiko Nio (2024). US National Academy of Sciences Biographical Memoir.
91. "Francis Farley" (2024). Royal Society of London Biographical Memoir.
90. "Toichiro ("Tom") Kinoshita (1925–2023): Pioneer of precision in tumultuous times" (2023). *Proceedings of the National Academy of Sciences*, July 11. 120 (29) e2309070120 <https://doi.org/10.1073/pnas.2309070120>
89. "Introduction: Phenomenology of Quantum Mechanics" (2021). Robert P. Crease, Delicia Kamins, and Paul Rubery. *Continental Philosophy Review*. [://doi.org/10.1007/s11007-021-09561-w1](https://doi.org/10.1007/s11007-021-09561-w1)
<https://link.springer.com/article/10.1007/s11007-020-09525-6>
88. "Interview with physicist Christopher Fuchs," Robert P. Crease with James Sares, *Continental Philosophy Review*. <https://link.springer.com/article/10.1007/s11007-020-09525-6>
87. "Explaining Phenomenology to Physicists," in H. A. Wiltche and P. Berghofer, eds, *Phenomenological Approaches to Physics*, Springer 2020, pp. 51-61.
86. "Populist Movements and Mistrust of Experts" (2023). *Handbook of Expertise*, ed. Gil Eyal and Tom Medvetz, Oxford University Press.
85. "Database thinking and deep description: designing a digital archive of the National Synchrotron Light Source," with Elyse Graham and Jamie Folsom," *Digital Scholarship in the Humanities*, fqz053, <https://doi.org/10.1093/llc/fqz053>,
<https://academic.oup.com/dsh/advance-article/doi/10.1093/llc/fqz053/5543076?guestAccessKey=1769ebad-2550-405f-a3cc-9f3d5b04e81f>
84. "Fueling Peter's Mill: Mikhail Lomonosov's Educational Training in Russia and Germany, 1731-1741," *Physics in Perspective* 20 (3), 2018, 272-304. DOI: 10.1007/s00016-018-0227-x <https://rdcu.be/4II0>
83. "On Not Being Able to Dance: The Interring," *Phenomenology and Performance Itself*, ed. by Stuart Grant, Jodie McNeilly-Renaudie, and Matthew Wagner, Palgrave Macmillan, 2018.
82. "Synchrotron Light Sources," in *Between Making and Knowing: Tools in the History of Materials Research*, ed. J D Martin and C Mody, World Scientific, 2020, pp. 571-7.

81. "Mikhail Lomonosov (1711-1765): Scientist in Politically Turbulent Times" (with Vladimir Shiltsev), *Il Nuovo Saggiatore* 33:5-6 (2017), pp. 41-54. Reprinted in *Quaderni di Storia della Fisica*, 2019.
80. "The Physical Tourist: Francis Bacon's London," in *Physics in Perspective* 19 (2017), pp. 291-306, DOI 10.1007/s00016-017-0207-6. <http://rdcu.be/uVZz>
79. "Arendt and the Authority of Science in Politics," *Arendt Studies*, 1:1 43-60, 2017, doi: 10.5840/arendtstudies20176191
78. "Do-It-Yourself Humanities," *The Chronicle Review*, February 3, 2017, B9-10.
77. "Missing Ihde," in *Techne: Research in Philosophy and Technology* 20:2 (2016), <https://www.pdcnet.org/techne/onlinefirst>.
76. "Forum on the History of Physics," *AIP History Newsletter* 48:2 (2016), p. 4.
75. "The New Big Science" (with Catherine Westfall), *Physics Today* 69, 5, 30 (2016).
74. "Yang-Mills for Historians and Philosophers," *Modern Physics Letters A*, 31:7 (2016). Reprinted in *60 Years of Yang-Mills Gauge Field Theories: C. N. Yang's Contributions to Physics*, L. Brink and K. K. Phua, eds, World Scientific 2016, pp. 377-386.
73. "Introduction" to *The Iconic Wall*, catalogue for the Simons Center for Geometry and Physics exhibition of that name. Simons Center Gallery, 2015.
72. "Theory and Theoretical Objects in an Existential/Hermeneutic Conception of Science," in *Debating Cognitive Existentialism: Values and Orientations in Hermeneutic Philosophy of Science*, ed. D. Ginev, Brill, 2015, pp. 53-64 (same as #64) .
71. "Two Paths for Continental Philosophy of Science," *Journal of Dialectics of Nature* 37:1, 2015, pp. 111-119.
70. "The Metroscape: Phenomenology of Measurement," in B. Babich and D. Ginev (eds), *The Multidimensionality of Hermeneutic Phenomenology, Contributions to Phenomenology* Switzerland: Springer International Publishing, 2014.
69. "The Beauty of Equations," in G. Hart and R. Sarhangi, eds, *Proceedings of the 2013 Bridges Conference*, Phoenix, Arizona, Tessellations Publishing, 2013, pp. 19-26.
68. "Pomor Polymath: The Upbringing of Mikhail Vasilyevich Lomonosov, 1711-1730," with Vladimir Shiltsev, in *Physics in Perspective*, 2013.
67. Response to Ginev, "Scrutinizing Scientism from a Hermeneutic Point of View", in *Social Epistemology Review and Reply Collective* 2 (6), 2013: 18-22.

66. "Response," contribution to a Book Symposium on Robert P. Crease, "World in the Balance," in *Philosophy & Technology* 26:2, 2013.
65. "Theory and Theoretical Objects in an Existential/Hermeneutic Conception of Science," in *Balkan Journal of Philosophy* 4:1, 2012, pp. 121-130.
64. "Art of the Quantum Moment," with Alfred S. Goldhaber, in G. Hart and R. Sarhangi, eds, *Proceedings of the 2012 Bridges Conference*, Phoenix, Arizona, Tessellations Publishing, 2012.
63. "Biographical Memoir: Maurice Goldhaber," in National Academy of Sciences *Biographical Memoirs*. National Academy of Sciences, 2012:
<http://www.nasonline.org/publications/biographical-memoirs/memoir-pdfs/goldhaber-maurice.pdf>
62. "Phenomenology and Natural Science," Internet Encyclopaedia of Philosophy, 2012.
<http://www.iep.utm.edu/phenomsc/>
61. "Biographical Memoir: Abraham Pais," in National Academy of Sciences *Biographical Memoirs*. National Academy of Sciences, 2011:
<http://www.nasonline.org/publications/biographical-memoirs/memoir-pdfs/pais-abraham.pdf>
60. "Physical Sciences," in *The Oxford Handbook of Interdisciplinarity*, ed. Frodeman et al. New York: Oxford UP, 2010, 2nd edition 2017.
59. "Trust, Expertise, and the Philosophy of Science" (with Kyle Powys Whyte), *Synthese* 177, No. 3, pp. 411-425, 2010.
58. "The Discovery of Dark Energy: Historical Reflections," *Sources and Detection of Dark Matter and Dark Energy in the Universe, Proceedings of the 8th UCLA Symposium*, Marina del Rey, California, 20-22 February 2008, Melville, New York: AIP Conference Proceedings (2009), pp. 87-94.
57. "Charles Sanders Peirce and the First Absolute Measurement Standard," *Physics Today*, December 2009, pp. 39-44.
56. "Surely you're joking, Mr. Duchamp!" *Physics World*, December 2009, pp. 28-33.
55. "The National Synchrotron Light Source, Part II: The Bakeout," *Physics in Perspective* 11 (2009): 15-45.
54. "Covariant Realism," *Human Affairs* 19:2 (June 2009), pp. 223-232.
53. "Recombinant Science: The Birth of the Relativistic Heavy Ion Collider (RHIC)," *Historical*

- Studies in the Natural Sciences*, 38:4, 2008, 535-568.
52. "The National Synchrotron Light Source, Part I: Bright Idea," *Physics in Perspective* 10 (2008): 438-467.
51. "Biographical Memoir: Robert Serber 1909-1997," in National Academy of Sciences *Biographical Memoirs* 2008. National Academy of Sciences, Washington, D.C. Online at <http://books.nap.edu/html/biomems/rserber.pdf>
50. "Foucault's Pendulum," in Sherry Turkle, ed. *Evocative Objects: Things We Think With*, MIT Press, 2007, pp. 288-294.
49. "Technique" (with John Lutterbie) in *Staging Philosophy*, ed. D. Saltz and D. Krasner, University of Michigan Press, 2006, pp. 160-179.
48. "From Workbench to Cyberstage," in *Postphenomenology: A Critical Companion to Ihde*, ed. E. Selinger. Albany: SUNY Press, 2006, pp. 221-229.
47. "Quenched! The ISABELLE Saga, Part 1." *Physics in Perspective* 7, Sept. 2005, pp. 330-376.
46. "Quenched! The ISABELLE Saga, Part 2." *Physics in Perspective*, 7, Dec. 2005.
45. "Oppenheimer and the Sense of the Tragic," in Cathryn Carson and David A Hollinger, eds, *Reappraising Oppenheimer*, Berkeley: Berkeley Papers in the History of Science, Vol. 21 (2005), pp. 315-323.
44. "E=mc²." *School Science Review*, special Einstein Edition, March 2005.
43. "Energy in the History and Philosophy of Science." *Encyclopedia of Energy*, Vol. 2. Elsevier (2004), 417-421.
42. "Philosophy of Science: How Science Moves," in *The Folio: A Journal for Focusing and Experiential Therapy*, 19:1 (2004): 32-42.
41. "Inquiry and Performance: Analogies and Identities Between the Arts and the Sciences." *Interdisciplinary Science Reviews* 28:4 (2003), 266-272.
40. "Exploring Animate Form: A Review Essay," *Phenomenology and the Cognitive Sciences* 2: 69-83, 2003.
39. "Dreyfus on Expertise: The Limits of Phenomenological Analysis" (with Evan Selinger), *Continental Philosophy Review* 35:3, 2003
38. "Fallout: Issues in the Study, Treatment, and Reparations of Exposed Marshall Islanders," in

Exploring Diversity in the Philosophy of Science and Technology, ed. by Robert Figueroa and Sandra Harding, Routledge, 2003, pp. 106-125.

37. "The Pleasures of Popular Dance." *Journal of the Philosophy of Sport*, 2003
36. "Experimental Life: Heelan on Quantum Mechanics." Festschrift for P. Heelan, Kluwer, 2002.
35. "Critical Issues in the Writing of Laboratory History." *Proceedings of the Second Conference on Laboratory History*, ed. Catherine Westfall. Newport News: Jefferson Laboratory, 2002.
34. "Anxious History: The High Flux Beam Reactor and Brookhaven National Laboratory," *Historical Studies in the Physical and Biological Sciences* 32:1 (2001): 41-56.
33. "The Manhattan Project: An Enduring Legacy." *Physics World*, Dec. 1999, pp. 59-63.
32. "Conflicting Interpretations of Risk: The Case of Brookhaven's Spent Fuel Rods." *Technology: A Journal of Science Serving Legislative, Regulatory, and Judicial Systems*, V 6 (1999): 495-500.
31. "Productive Objectivity: the Hermeneutics of Performance in Experimental Inquiry," M. Fehér, O. Kiss, and L. Ropoli, eds., *Hermeneutics and Science*. Kluwer, 1999, 25-34.
30. "What is an Artifact?" *Philosophy Today*, SPEP Supplement 1998, 160-168.
29. "Responsive Order: The Phenomenology of Dramatic and Scientific Performance," in *Creativity in Performance*, ed. R. Keith Sawyer. Greenwich, CT: Ablex, 1997.
28. "Introduction" to special issue of *Man and World* (30:3) on "Hermeneutics and the Natural Sciences," guest ed. Robert P. Crease, 1997.
27. "The Hard Case: Science and Hermeneutics," *The Very Idea of Radical Hermeneutics*, ed. By Roy Martinez, pp. 96-105. New Jersey: Humanities Press, 1997.
26. "40 Years After the Nobel Prize." Interview with C. N. Yang, *USB Research Notes* 1:1, 1997.
25. "Divine Frivolity: Hollywood Representations of the Lindy Hop, 1937-1942," in Krin Gabbard, ed., *Representing Jazz*, Duke University Press, 1995, 207-228.
24. "The History of Brookhaven National Laboratory Part Six: The Lab and the Long Island Community, 1947-1972." *Long Island Historical Journal*, 9:1 (Fall, 1996): 4-24.
23. "The History of Brookhaven National Laboratory Part Five: *LIHJ* 4:2 (Spring 1995).

22. "The Play of Nature: Experimentation as Performance," in *Continental and Postmodern Perspectives in the Philosophy of Science*, ed. Babette Babich, Debra Bergoffen, and Simon Glynn, pp. 69-88. Brookfield, VT: Avebury, 1995.
21. "Vico's 'Mirror Stage': Narrative, the *Scienza Nuova*, and the Barbarism of Reflection," in *Studies in 18th Century Culture* 24, pp. 107-119. Balt.: Johns Hopkins Univ. Pr., 1995.
20. "The Sculpture and the Electron: Hermeneutics of the Experimental Object," in *Science & Education* 4, pp. 109-114, 1995.
19. "Das Spiel der Natur: Experimentieren als Vorführung." *Deutsche Zeitschrift für Philosophie* 3 (1994): 419-437.
18. "The Improvisational Problem," in *Man and World* 27, pp. 181-193, 1994
17. "The History of Brookhaven National Laboratory Part Four: Problems of Transition," *LIJH* 7:1 (Fall 1994): 22-41.
16. "The National Laboratories and Their Future," *Forum*, Winter, 1993.
15. "Discovery: The Eureka! Moment Revisited," *R&D Innovator* 2:8 (August 1993): 9-10.
14. "Little Science, Big Science, Multinational Science." *Encyclopaedia Britannica Yearbook of Science and Technology 1994* (appeared 1993).
13. "The History of Brookhaven National Laboratory Part Three," *LIJH* 6:1 (Fall, 1993).
12. "The History of Brookhaven National Laboratory Part Two: The Haworth Years," *LIJH* 4:2 (Spring 1992).
11. "Questioning Foundations in the Philosophy of Science." *Continental Philosophy* 5, 1992.
10. "The History of Brookhaven National Laboratory Part One: the Graphite Reactor and the Cosmotron," *LIJH* 3:2 (Spring 1991): 167-188.
9. Crease, Robert P., and Samios, N. P. "Managing the Unmanageable." *Atlantic* (January 1991), 80-8. Repr. in *New Zealand Soil News* (1991), and the AAAS *Science and Technology Policy Yearbook* 1991, pp. 47-60.
8. "The Problem of Experimentation." In L. Embree and L. Hardy, eds., *Phenomenology of Natural Science*. Washington, D.C.: CARP and the University Press of America, 1991.
7. "The Yogi and the Quantum" (with Charles C. Mann). In P. Grim, ed., *Philosophy of Science and the Occult*, 2nd ed. State Univ. of New York Press, 1989.

6. "The Man Who Listened" (with Charles C. Mann). In Timothy Ferris, ed., *The World Treasury of Physics, Astronomy, and Mathematics* (Boston: Little Brown, 1991): 60-79. Adapted from *The Second Creation*, chapter on Paul Dirac.
5. "Obituary: Robert Hofstadter." *The Guardian*, 22 November 1990.
4. "The Rediscovery of Experiment." *Missouri Review*, Autumn, 1988.
3. "'Narrow and not Far-reaching Footpaths': Heidegger and Modern Art." In *The Collegium Phaenomenologicum: The First Ten Years*, ed. G. Moneta, J. Sallis, and J. Taminioux. The Hague: Nijhoff, 1988.
2. "Good Philosophy and Good Physics." *Threepenny Review*, Fall 1983.
1. "Vico and the 'Cogito.'" In *Vico: Past and Present*, ed. G. Tagliacozzo. Humanities Pr, 1981.

D. Encyclopedia Entries

Routledge Encyclopedia of Modernist Dance: "The Savoy Ballroom" 2024

Encyclopedia of Modernism: "The Lindy," "The Savoy Ballroom" 2014

Macmillan Reference Encyclopedia Discoveries in Modern Science: "Dark Energy" 2014

Encyclopedia of Energy, Kluwer. "Energy in the History and Philosophy of Science." 2005

Macmillan Encyclopedia of Physics. "Brookhaven National Laboratory." 2005

Encyclopedia of New York State. "Brookhaven National Laboratory," 2005.

"Jazz and Dance," in *The Cambridge Companion to Jazz*, ed. Mervyn Cook and David Horn, Cambridge University Press, 2002, pp. 69-80.

"Jazz and Dance," in *The Oxford Companion to Jazz*, ed. Bill Kirchner, Oxford University Press, 2000, 696-705.

Encyclopedia Britannica Yearbook of Science and the Future. I wrote the "Overview" article for this Yearbook every year between 1990 and 2000 (the final issue of the Yearbook before it was discontinued).

American National Biography (1999). Entries for the African-American jazz dancers:
 Leon James & Albert Minns
 Pete Nugent
 Eddie Rector

Earl “Snake Hips” Tucker

Encyclopedia of American Biography (1995). Entries for Nobel laureates in physics:
Sheldon Glashow
Steven Weinberg

E. Columns, “Critical Point”

Since May, 2000, I have written a monthly column called “Critical Point,” for *Physics World*. Each column discusses a different social dimension of physics.

“Why Science Thrives on Criticism,” May 2000, 17-18
“Dedications: That’s What You Need,” June 2000, 19-20
“Case of the Deadly Strangelets,” July 2000, 19-20
“The Dangers of Voodoo Science,” August 2000, 19
“The Competitive Edge in Science,” September 2000, 17
“The Art and Artistry of Textbooks,” October 2000, 18
“Physics, Metaphorically Speaking,” November 2000, 17
“A Top Ten for Science and Society,” December 2000, 17
“Science and The Simpsons,” January 2001, 19
“Do Physics and Politics Mix? February 2001, 17.
“Revenge of the Science Writer,” March 2001, 17
“Solutions to the Scientific Divide,” April 2001, 16
“Crackpots and Their Convictions,” May 2001, 14
“Labs as Crucibles of Uncertainty,” July 2001, 16
“True Tritium Tales,” August 2001, 18
“The Tragedy of William Sweet,” September 2001, 18
“What’s Your Philosophy?” October 2001, 18
“Ensuring Science Has a History,” November 2001, 16
“Too Confident About Uncertainty,” December 2001, 18
“Compromising Peer Review,” January 2002, 17
“Horror Stories That Grow Legs,” February 2002, 15
“Impedances That Hinder Women,” March 2002, 20
“This is Your Philosophy,” April 2002, 15-7
“The Most Beautiful Experiment,” May 2002, 17
“Edward Teller: Friend and Foe,” June 2002, 19
“What Does Energy Really Mean?” July 2002, 15
“Dirty Bombs Spark War of Words,” August 2002, 17
“The Most Beautiful Experiment,” September 2002, 17-8
“Manufacturing Firsts in Physics,” October 2002, 16
“Much More Than Pretty Pictures,” November 2002, 19
“Finding the Flaw in Falsifiability,” December 2002, 15
“The Many Roads to Leadership,” January 2003, 16
“The Legend of the Leaning Tower,” February 2003, 15
“The Rosalind Franklin Question,” March 2003, 17

“The Newton-Beethoven Analogy,” April 2003, 16
 “Deserving Better Science,” May 2003, 17
 “Numbers Count in All Amounts,” June 2003, 17
 “Foucault’s Pendulum,” July 2003, 17
 “IBM Gears Up for Gene Challenge,” August 17
 “So You Think Physics is Funny?” September 2003, 19
 “The Press is a Foreign Country,” October 2003, 18
 “The Advantage of Togetherness,” November 2003, 17
 “The Best Physics Humour Ever,” December 2003, 14-15
 “That’s the Way Things Go,” January 2004
 “The Thing About Rainbows,” February 2004, 16
 “The Paradox of Trust in Science,” March 2004, 18
 “The Oppenheimer Tragedy,” April 2004, 15
 “The Greatest Equations Ever,” May 2004, 17
 “Dealing With Cassandras,” June 2004, 16
 “Critical Reflections,” July 2004, 14
 “Proteins, Art and Science,” August 2004, 18
 “CERN, the US and the W,” September 2004, 15
 “The Greatest Equations,” October 2004, 14-15
 “The November Revolution,” November 2004
 “The Health Effects of Radiation,” December 2004
 “The King is Dead. Long Live the King!” January 2005
 “Surviving Graduate School,” February 2005
 “A Physicist Whose Mind Thawed,” March 2005
 “Gamma-ray Bursters in a New Light,” April 2005
 “Are Accelerators Dangerous?” May 2005
 “The Appeal of Rube Goldberg,” June 2005, 19
 “Lessons from Graduate School,” July 2005
 “Judging the Bomb Builders,” August 2005
 “Anosognosia,” September 2005, 19
 “Intelligent Design,” October 2005, 19
 November 2005 – no column
 “General Relativity,” December 2005, 16-17
 “Pythagoras,” January 2006, 15
 “Curing Anosognosia,” February 2006, 18
 “ $F=ma$,” March 2006
 “Off-hand Remarks,” April 2006, 14
 “Top Papers,” May 2006, 14
 “Just a Theory,” June 2006
 “The Retirement Problem,” July 2006, 14
 “Impedance Matching,” August 2006
 “Science as Drama,” September 2006
 “Tackling LHC Anxieties,” October 2006
 “Physics Legends,” November 2006
 “The Book of Nature,” December 2006

“The Lost Art of the Letter,” January 2007
 “Physics Legends,” February 2007
 “Equations as Icons,” March 2007
 “Science Bloopers,” April 2007
 “Tale of Two Anniversaries,” May 2007
 “Science Bloopers II,” June 2007
 “No-way Physics,” July 2007
 “Experts,” August 2007
 “Governing Science”, September 2007
 “Gravitation,” October 2007
 “Citizen Science,” November 2007
 “Dark Energy,” December 2007
 “The Last of its Breed,” January 2008
 “Constant Failure,” February 2008
 “A Mind of Her Own,” March 2008
 “Lab Architecture,” April 2008
 “The Bohr Paradox,” May 2008
 “A Passion for Boats,” June 2008
 “A Gathering for Gardner,” July 2008
 “A Question of Trust,” August 2008
 “Quantum of Culture,” Sept. 2008
 “Beauty and the Beast,” November 2008
 “Shifty Constants,” December 2008
 “Science Toys,” January 2009
 “Journeys to Greatness,” February 2009
 “Sites for New Eyes,” March 2009
 “Making Physics Popular,” April 2009
 “Two Cultures Turns 50,” May 2009
 “The Power of Robotics,” June 2009
 July, 2009: "The Call of the Wild"
 August, 2009: "Religion Explained"
 September, 2009: "Your Best Unit"
 October, 2009: No column, special issue
 November, 2009: “The Lure of Synchrotrons”
 December, 2009: “Surely You’re Joking, Mr. Duchamp!”
 January, 2010: “Priority battles”
 February, 2010: “Your Favorite Units”
 March, 2010: "Communicating Science"
 April, 2010: "Dealing with Domsday"
 May, 2010: No column, special issue
 June, 2010: “Discovering Dark Matter”
 July, 2010: “Missed Metric Moment”
 August, 2010: “Discovery with Statistics”
 September, 2010: “Body Talk”
 October, 2010: “Nuclear Fear Revisited”

November, 2010: "Bronx Physics"
December, 2010: "Au Revoir, Kilogram"
January, 2011: "Pyramid Metrologists"
February, 2011: "Gyrrangle"
March, 2011: "Metrology in the Balance," pp. 39-45.
April, 2011: "The Dark-Energy Game"
May, 2011: "Probing Potential PhDs"
June, 2011: "To Change the World"
July, 2011: "Chinese Metrology"
August, 2011: "Philosophy Rules"
September, 2011: "Leading by Example"
October, 2011: "Evaluating Evaluations"
November, 2011: "Mikhail Who?"
December, 2011: "Otherworldly Tales"
January, 2012: "Presidential Pledges"
February, 2012: "Fruitloopery"
March, 2012: "Measuring the Earth"
April, 2012: "The Cat that Never Dies"
May, 2012: "Atmospheric Tales"
June, 2012: "Quantum Guidebooks"
July, 2012: "Sporting Knowledge"
August, 2012: "Transit Watching"
September, 2012: "One Amazing Moment"
October, 2012: "How to Vote"
November, 2012: "Primate Physics"
December, 2012: "Physics and Painting"
January, 2013: "Identity Physics"
February, 2013: "Game-Show Science"
March, 2013: "The Quantum Moment"
April, 2013: "Measuring Culture"
May, 2013: "Why Humour Matters"
June, 2013: "The New Idols"
July, 2013: "The Treiman Effect"
August, 2013: "Just-in-time Physics"
September, 2013: "Dramatizing Physics"
October, 2013. No column; special 25th anniversary issue
November, 2013: "Deciding with Science"
December, 2013: "Longing for Laputa"
January, 2014: "Moving the Goalposts"
February, 2014: "The Spot in the Shadow"
March, 2014: "Feynman's Failings"
April, 2014: "Patenting Science"
May, 2014: "Why Don't They Listen?"
June, 2014: "Nanoethical Concerns"
July, 2014: "Mathematical Bridges"

August, 2014: "Gardening in Space"
September, 2014: "The Right Questions"
October, 2014: "Celebrating the Mind"
November, 2014: "Bell's Theorem Still Tolls"
December, 2014: "Literature of the Lab"
January, 2015: "Shutdowns and Startups"
February, 2015: "Art and the Quantum Moment"
March, 2015: "Kaleidoholic"
April, 2015: "Fight Over Light"
May, 2015: "15 Years and Counting"
June, 2015: "Black Elephants"
July, 2015: "Lab Lit Revealed"
August, 2015: "Better Science Policy"
September, 2015: "Physics Logos"
October, 2015: "From Wrong to Right"
November, 2015: "Cooking Bacon"
December, 2015: "Logo Motives"
January, 2016: "A Timely Matter"
February, 2016: "Peer Review's Value"
March, 2016: "Diversifying Utopia"
April, 2016: "Storytelling Matters"
May, 2016: "Meet the Topaholic"
June, 2016: "Guarding Integrity"
July, 2016: "See Like a Solar System"
August, 2016: "In Praise of Descartes"
September, 2016: "Fighting Science Denial"
October, 2016: "Unknown Unknowns"
November, 2016: "Brewing Coffee"
December, 2016: "Franken-Physics"
January, 2017: "This Time It's Different"
February, 2017: "Joel's Conference"
March, 2017: "Interstate Discomfort"
April, 2017: "The Sound of Trust"
May, 2017: "Entry Denied"
June, 2017: "Of Minds and Marches"
July, 2017: "Whose Cave Is It?"
August, 2017: "Oh America!"
September, 2017: "Making Space"
October, 2017: "The Scientific Sublime"
November, 2017: "What Philosophers Do"
December, 2017: "Frankenstein on Stage"
January, 2018: "The Dark Side"
February, 2018: "Collecting Books"
March, 2018: "The Pioneer Princess"
April, 2018: "A Flowering Success"

May, 2018: “Unenlightened Thinking”
 June, 2018: “What is Physics Like?”
 July, 2018: “Fooled by Time”
 August, 2018: “Running for Office”
 September, 2018: “Physics is Like...”
 October, 2018: “Do You Philosophize?”
 November, 2018: “New Views on Units”
 December, 2018: “The X-reality Files”
 January 2019: “Revolting Physics”
 February 2019: “An Unelementary Affair”
 March 2019: “A Frame of Mind”
 April 2019: “The New Big Science:
 May 2019: “QB or not QB”
 June 2019: “Leonardo da Vinci as the Master of Disaster”
 August 2019: “China’s Next Big Thing”
 September 2019: “Peering into the Past: Chinese Metallurgy”
 October 2019: “On the Retreat: Climate Change”
 November 2019: “Why Fireworks are So Important to Science”
 December 2019: “Paper Tools: Feynman Diagrams”
 January 2020: “Transmogrified Physics: A New Branch of Science”
 February 2020: “Hayden Planetarium’s New Show”
 March 2020: “History of the Periodic Table”
 April 2020: “Writing about Abusive Scientists”
 May 2020: “Importance of the Humanities: 20 Years a Columnist”
 June 2020: “Surprise in Science”
 July 2020: “Transmogrified Physics: Your Discoveries”
 August 2020: “Extinction Next Time”
 September 2020: “Wine, skis, clocks, bones: why Linn Hobbs lives in a material world”
 October 2020: “Why knocking down Brookhaven’s iconic smokestack is a monumental
 mistake”
 November 2020: “Helen Berman: the crystallographer who pioneered the Protein Data
 Bank”
 December 2020: “Madness in the method: why your notions of how science works are
 probably wrong”
 January 2021: “Joe Biden’s inauguration: why the rebuilding of trust in science is not
 over yet”
 February 2021: “A million years into the future: why you need a dose of very deep
 thinking”
 March 2021: “What the storming of the US Capitol tells us about science”
 April 2021: “Crisis in a lockdown: how NIST coped with a radiation leak”
 May 2021: “The fight for physics: how combat robotics on TV’s *BattleBots* turns
 students on to science”
 June 2021: “Muons and streetlights: the six-decade quest to pinpoint the value of $g-2$ ”
 July 2021: “How Aristotle helped me overcome my vaccination reluctance”

August 2021: “What do holidays mean to physicists in the 21st century?”

September 2021: “Competitive not cut-throat: what baseball’s Ted Williams tells us about physicists’ instincts”

October 2021: “William D Magwood IV: still fighting for nuclear”

November 2021: “So you think the history of science is easy?”

December 2021: “The conundrum at the heart of quantum physics – and how philosophers of science can help”

January 2022: “Snowflakes, snorkelling and spacewalks: your holiday secrets revealed”

February 2022: “Physics on the cheap: the secret to the best undergraduate science projects”

March 2022: “Hollywood disaster movies: what they signal about science”

April 2022: “Demons to think with: the rebels you mustn’t ignore”

May 2022: “Avoiding artefacts: do you know when you’re seeing a real signal?”

June 2022: “Blown away by the wonders of glass at Corning’s spectacular museum”

July 2022: “Tracks of my tears: the true meaning of Peter Higgs’ emotion at CERN in 2012”

August 2022: “Hello interflexionality: what I learned from the 14th Gathering for Gardner”

September 2022: “When physicists and philosophers realize they share a noble truth”

October 2022: “Click to comply: the dangers of online workplace training courses”

November 2022: “Life after the leak: lessons from the closure of the High Flux Beam Reactor”

December 2022: “Bohr, Einstein and Bell: what the 2022 Nobel Prize for Physics tells us about quantum mechanics,” with Gino Elia

January 2023: “Ever felt your ordinary human experience is being delegitimized? It’s the fault of ‘scientific gaslighters’”

February 2023: “The ethical dilemmas of renaming scientific principles that honour fallen idols”

March 2023: “Read all about it: how typography influences your understanding”

April 2023: “If science is to thrive, we must understand its human foundations”

May 2023: “This is what physicists think about cancelling wrongdoers from history”

June 2023: “Let’s talk about quantum 2.0: why we need to sharpen up our language,” with Jennifer Carter and Gino Elia

July 2023: “Toichiro Kinoshita: the theorist whose calculations of $g-2$ shed light on our understanding of nature”

August 2023: “*Nuclear Now* by Oliver Stone – putting nuclear energy back on the table”

September 2023: “Memorializing the great: how to honour scientists who’ve died”

October 2023: “Why was so much spent on quantum computers before they even existed?”

November 2023: “The Rule of Three in Materials Science”

December 2023: “LNT”

January 2024: “What the Movie *Oppenheimer* Can Teach Today’s Politicians about Scientific Advice”

February 2024: “The Nuclear Reactor Just for Students”

March 2024: “The American Reactor that was Closed by Fake News”

In 1986-7, I wrote a regular column, “On Science,” for Columbia, the Columbia University Alumni Magazine (6 issues).

F. Editorials, *Physics in Perspective*

Every issue of *Physics in Perspective* I’ve co-written an editorial with Peter Pesic and Joseph Martin, with the exception of a few guest editorials. For instance:

- “Editorial,” 16:1
- “The Feynman Lectures, Fifty Years On,” 16:2
- “Reading Physics Closely,” 16:3
- “Physics and Music,” 16:4
- “But Is It Science?” 17:1
- “Whose History Is It?” 17:2
- “Explorers and Settlers,” 17:3
- “Do Physics Conferences Still Matter?” 18:1
- “Physics Global and Local” 18:2
- “Meeting the Challenge of the New Big Science” 18:3
- “Megascience” 18:4
- “Immigrant Physics,” 19:1
- “Gonzo History,” 19:2
- “Where is the Physics Frontier?” 19:3

G. Editorials, Reviews, and other Short Pieces in the New York Times, Wall Street Journal, Nature, etc.

“Tsung-Dao Lee obituary: boundary-breaking physicist who won Nobel prize at just 30,” Nature 8 August 2024 <https://www.nature.com/articles/d41586-024-02585-1>

“Mikey Spillane,” Letter to the Editor, *Times Literary Supplement*, May 19, 2023, p. 6

Inside Alec Baldwin’s Crusade to Take Down a Nobel Prize-Winning Lab. *The Daily Beast*, May 19, 2023.
<https://www.thedailybeast.com/inside-alec-baldwins-crusade-to-take-down-a-nobel-prize-winning-lab>

“Canary in the Coal Mine: The 1997 Leak at Brookhaven National Laboratory,” *APS News*, May 2023 6.

Review of *On the Origin of Time: Stephen Hawking’s Final Theory* (2023). *Nature*.

“The Never-ending quest for a beginning,” review of Hertog, *On the Origin of Time: Stephen Hawking’s Final Theory*, *Nature* 616, 13 April 2023, 243-4.

“Review of *Elusive: How Peter Higgs Solved the Mystery of Mass*, by Frank Close, *Nature* 607 2022 27-8.

“Lecciones del Virus,” *El Mundo* (Andalusia), March 7 2021

“At 18, I Wasn’t Mature Enough to Vote,” *Wall Street Journal* OpEd, Nov. 4, 2020, p. A19.

Review of *Edward Condon’s Cooperative Vision: Science, Industry, and Innovation in Modern America*, by Thomas C. Lassman, *Journal of American History*, March 2020.

“Abstraction: Ground Zero,” in *Recent Paintings on Abstraction*, exhibit catalogue ed. Parviz Mohassel, Westbeth Gallery, New York City, Sept. 7-29, 2019

“The bizarre logic of the many-worlds theory,” review of Sean Carroll, **Something Deeply Hidden: Quantum Worlds and the Emergence of Spacetime**, *Nature* 573, 30-32 (2019), https://www.nature.com/articles/d41586-019-02602-8?utm_source=feedburner&utm_medium=feed&utm_campaign=Feed%3A+nature%2Frss%2Fcurrent+%28Nature+-+Issue%29

“Obituary: Murray Gell-Mann (1929-2019),” *Nature* 570, 20 June 2019, p. 308.

“The Workshop and the World,” *APS News*, June 2019, p. 8.

“Chernobyl Reconsidered, review of *Midnight in Chernobyl* and *Manual for Survival*, *New York Times* Sunday Book Review, April 7, 2019, p. 14.

“The Rise and Fall of Scientific Authority – and How to Bring It Back.” *Nature* 567, 309-310 (2019).

Review of *The Not-So-Secret Science Ecosystem*, by Jeremy J. Baumberg, *Physics Today*, February 2019, p. 59.

Review of *Philosophy of Mathematics*, by Øystein Linnebo. *Bulletin of the American Mathematical Society* 2018.

“A Rational Reductionist Argues his Case,” review of Steven Weinberg, *Third Thoughts*, *Nature* 560, 2 August 2018, p. 28.

“Preface” to *G4G12 Exchange Book*. Gathering 4 Gardner, 2018, Vol. 1, p. 5.

Review of *Ernst Jünger’s Philosophy of Technology: Heidegger and the Poetics of the Anthropocene*, by Vincent Blok, *Notre Dame Philosophical Reviews*, forthcoming.

“Final Ascent of Physics,” review of *Special Relativity and Classical Field Theory: The Theoretical Minimum*,” by Leonard Susskind and Art Friedman, *Nature* 21 September 2017, pp. 331-2

Review of Michael Lewis, *The Undoing Project: A Friendship that Changed Our Minds*, *Nature*, August 3, 2017, p. 30.

“Why Does Alec Baldwin Hate Science?” *Wall Street Journal*, April 27, 2017, A17.

“Revelations of Fundamental Science,” review of *The Greatest Story Ever Told ... So Far*, by Lawrence M. Krauss, *Nature* 544, 6 April 2017, p.34.

“Getting On the Grid,” review of *Zero Degrees*, by Charles W. J. Withers. *Wall Street Journal* 18-19 March 2017, p. C6.

"Theoretical Physics: Windows on the Weird," review of *Reality is Not What it Seems*, *Nature* 538 32-33, 06 October 2016.

"Material to Meaning," review of *The Big Picture: On the Origins of Life, Meaning, and the Universe Itself*, by Sean Carroll, *Nature* 533 (5 May 2016), p. 34.

Review of "The Observable: Heisenberg's Philosophy of Quantum Mechanics," *Physics in Perspective* 18:1 (2016).

“The Second Big Bang,” review of *The Invention of Science*, by David Wootton. *The Wall Street Journal*, December 12, 2015, p. C15.

Review of *Big Science: Ernest Lawrence and the Invention that Launched the Military-Industrial Complex*, by Michael Hiltzik. *The New York Times Sunday Book Review*, July 19, 2015, p. 1.

“Two Shades of Physics,” review of *Seven Brief Lessons on Physics* and *Physics: A Short History from Quintessence to Quarks*, *Nature* 526 (1 October 2015).

“Unshadowed Lens on the Past,” review of *To Explain the World* by S. Weinberg, *Nature* 518, 300, 18 February 2015.

“Enigma Variations,” review of the movies *The Imitation Game* and *The Theory of Everything*, *Nature* 515 (13 November 2014), pp. 195-6.

“Cultural Vandalism in America,” Project Syndicate 2015

"Why Don't Scientists Have More Authority in Government?" TEDxCERN (2014, www.youtube.com/watch?v=_2lbWMVfxNs)

"A Requiem for Technocracy," Project Syndicate (2014, www.project-syndicate.org/commentary/robert-p--crease-laments-the-declining-influence-of-science-in-public-policy).

"Making Sense of Oppenheimer," review of *Robert Oppenheimer: A Life Inside the Center*, by Ray Monk, *Physics World*, December 2013, pp. 8-9.

Review of *String Theory and the Scientific Method*, by Richard Dawid. *American Physical Society Forum for History of Physics Newsletter*, Fall 2013.

"Science Under the Nazis," Review of *Serving the Reich: The Struggle for the Soul of Physics under Hitler*, by Philip Ball, *Nature* 502, 2013, pp. 441-2

"A Cosmological Life," review of *My Brief History: A Memoir*, by Stephen Hawking, and *Hawking*, a documentary film, *Nature* 501 p. 162, 2013

Review of *Dogmatism in Science and Medicine: How Dominant Theories Monopolize Research and Stifle the Search for Truth*, by Henry H. Bauer, forthcoming, *Metascience*, 2013.

"Rebel Without a Pause," review of Phillip Schewe, *Maverick Genius: The Pioneering Odyssey of Freeman Dyson*, *Nature* 494, 311, 2013.

Review of Terry Quinn, *From Platinum Rods to Planck's Constant*. *Notes Rec. R. Soc.* (2013) 67, 171–172 doi:10.1098/rsnr.2013.0008; Published online 27 February 2013.
<https://royalsocietypublishing.org/doi/full/10.1098/rsnr.2013.0008>

"Scientific Mythbusting," review of *Science Secrets: The Truth about Darwin's Finches, Einstein's Wife, and other Myths*, by Alberto Martínez, *Metascience* 22, 2013, 509-511

Review of *On the Cucumber Tree: Scenes from the Life of an Itinerant Jobbing Scientist*, by Peter Day. *American Physical Society Forum for History of Physics Newsletter*, Fall 2012.

Review of "Building Cultures of Trust," by Martin E. Marty, *Journal of Lutheran Ethics* 12:5, 2012.

Review of *Galileo's Muse: Renaissance Mathematics and the Arts*, by Mark Peterson, *Physics in Perspective*, 2012.

Review of "Hedy's Folly," by Richard Rhodes, *Nature* November 2011

"Measurement and Its Discontents," by Robert P. Crease, *New York Times*, Oct 22, 2011

"Measurement and its Discontents," *New York Times*, Oct. 23, 2011.

Review of "The 4% Universe: Dark Matter, Dark Energy, and the Race to Discover the Rest of Reality," by Richard Panek, *Physics World*, April 2011, pp. 44-5

Review of "In Praise of Science: Curiosity, Understanding, and Progress," by Sander Bais, in *Metascience* (6 April 2011), pp. 1-3.

Review of "Envy and Power," a review of *Judging Edward Teller*, *Nature* 2 December 2010, pp. 629-630.

Review of "The Many Worlds of Hugh Everett III: Multiple Universes, Mutual Assured Destruction, and the Meltdown of a Nuclear Family," by Peter Byrne, *Nature* 24 June 2010 p. 1010.

Review of "The Boundaries of the New Frontier: Rhetoric and Communication at Fermi National Accelerator Laboratory," by Joanna S. Ploeger, *ISIS* 2010.

"The Younger Oppenheimer," review of "Something Incredibly Wonderful Happens: Frank Oppenheimer and the World He Made Up," by K.C. Cole, *Nature*, 24 Sept. 2009: 476-7.

"Working on a Chain (Reaction) Gang," *Wall Street Journal*, December 4, 2009, p. W13.

"When Science is the Life of the Party," *Newsday*, October 14, 2008. Online at: http://www.newsday.com/news/opinion/ny-opcre145882661oct14_0_1094509.story

"Long Island is at the Center of a New Frontier," *Newsday*, February 12, 2009, p. A35.

"Building a Better Robot," *Wall Street Journal*, April 24, 2009, p. W13.

"Two Singular Men," by Robert P. Crease. Review of "Einstein and Oppenheimer: The Meaning of Genius," by Silvan S. Schweber. In *American Scientist* 96, 2008, pp. 422-3

"Fermilab: Physics, the Frontier, and Megascience," by Lillian Hoddeson, Adrienne W. Kolb, and Catherine Westfall, Univ. Chicago Press, 2008. *Hist. of Physics Newsl.* Spring 2009.

"Atomic Arias," review of "Dr. Atomic," opera production at the Metropolitan Opera Company, in *Physics World*, January 2009, pp. 34-5.

Review of *Riding the Wave*, by Leo Beranek, *Wall Street Journal*, May 22, 2008

Review of Roger Newton, *From Clockwork to Crapshoot*, *American Scientist*, 2007

Review of *Rethinking Expertise*, by Harry Collins & Robert Evans, *Nature* 450 15 Nov. 2007, pp. 350-1.

Review of Peter Woit, *Not Even Wrong: The Failure of String Theory and the Search for Unity in Physical Law*, in *Skeptical Inquirer* 30:6 (November/December) 2006, pp. 53-4.

Review of: "Perfectly Reasonable Deviations from the Beaten Path: The Letters of Richard P. Feynman," ed. by Michelle Feynman, New York: Perseus, 2005, in *American Scientist* 93 (July-August 2005), pp. 360-361.

Review of Galileo's Pendulum: Science, Sexuality, and the Body-Instrument Link, by Dušan I. Bjelic, *Human Studies*, 2005

Review of E. Brian Davies, *Science in the Looking Glass: What do Scientists Really Know?* *New Scientist*, 13 September 2003, pp. 52-3

Review of Susan Haack, *Defending Science – Within Reason*. *New Scientist* 20 September 2003, p. 49.

Review of Maxine Sheets-Johnstone, *The Primacy of Movement*, in *Continental Philosophy Review* 35, 2002, 103-7.

Review of Emily Thompson, *The Soundscape of Modernity: Architectural Acoustics and the Culture of Listening in America 1900-1933* in *The Wall Street Journal*, 24 April 2002, p. D9.

Review of Stuart Isacoff, *Temperament: How Music Became a Battleground for the Great Minds of Western Civilization*, in *The Wall Street Journal*, December 2001.

Review of Freeman Dyson, *Imagined Worlds*, in *Isis*.

Review of Edmund Bolles, ed., *Galileo's Commandment*, in *Quarterly Review of Biology* 76:2 (June 2001), 221-2.

Review of Harry E. Gove, *From Hiroshima to the Iceman: The Development and Applications of Accelerator Mass Spectrometry*. *Isis* 92:3 (2001), 632-3.

"Breakthrough Books" column in *Lingua Franca*, April 1999.

Review of Peter Galison, *Image and Logic*. *Technology and Culture*, 2000, pp. 924-5.

Review of Noretta Koertge, ed., *A House Built On Sand: Exposing Postmodern Myths about Science*. In *Quarterly Review of Biology*.

Review of Keith J. Laidler, *To Light Such a Candle: Chapters in the History of Science and Technology*. In *Science Spectra*, Issue 16, 1999, pp. 72-3.

Review of Sandra Fraleigh, *Dance and the Lived Body: A Descriptive Aesthetics*, in *Newsletter*

of the Study Project in Phenomenology of the Body, Spring 1992, pp. 10-13.

Review of I. Stadler, ed., *Contemporary Art and its Philosophical Problems*. In *Wellesley Alumni Magazine*, Summer, 1987.

Review of 't Hart, *Recht en Staat in het denken van Giambattista Vico*. *Philosophy and Rhetoric* 1981, pp. 133-5.

Review of 't Hart, *Recht en Staat in het denken van Giambattista Vico* (different review from above). *Review of Metaphysics* 1980, pp. 806-7.

H. Plays

"Trust Territory" (2013), 10-minute play submitted to the Stony Brook 2012-13 Science Playwriting Competition. The play was awarded first prize, and was read at the Simons Center on April 10.

I. Interviews

Frankie Manning, Jazz Dancer, for Smithsonian Oral History Program
Toichiro Kinoshita, Physicist, for American Institute of Physics (2016).

J. Manuscript and Proposal Reviews

I have reviewed for: *Continental Philosophy Review*, *Journal of Nuclear Materials Management*, *National Science Foundation*, *MacArthur Foundation*, *Social Studies of Science*, *Techne*, *Sungkyun Journal of East Asian Studies*, and others including numerous university presses. Academia,

K. Talks and Conference Presentations

These are too numerous to mention, ranging from formal conference presentations to after-dinner talks at Users' Meetings of synchrotron radiation sources. For the past year: Julia Robinson Mathematics Festival, SPEP, NY Science group, Brooklyn, SSAP, Arendt Circle, APS, G4G, etc.

L. Radio Interviews and Podcasts

10 podcasts for various radio shows in connection with *The Leak*.

"Flood Control: The Pandemic and Science Denial," podcast for Gathering for Gardner, October 2020: https://www.youtube.com/watch?v=Dncy_5Mwft0

Talk Nerdy, episode 286, December 3, 2019,

<https://tunein.com/podcasts/Science-Podcasts/Talk-Nerdy-with-Cara-Santa-Maria-p1138788/>

Podcast, Physics World May 2020: 20th anniversary of first column.

https://www.youtube.com/watch?v=S3642_WNSbY

Podcast, Physics World July 2020: Experiences of surprise in science.

<https://physicsworld.com/a/the-emotions-of-discovery-the-quantum-tv-thriller-devs-nanosponges-take-on-covid-19/>