

William René Joseph SHEA

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Date of Birth: 16 May 1937

Place of Birth: Gracefield, Quebec, Canada.

Nationality: Swiss and Canadian.

Academic Career:

1948–53 Bilingual High School of the University of Ottawa.

1952–3 Gold medal in Chemistry.
1952–3 Editor of the High School Student Newspaper.
1952–3 Public Speaking Prize (French Section).

1953–55 Faculty of Arts, University of Ottawa.

1956–63 Gregorian University, Rome.

1959 L.Ph. (Summa cum laude). Gold Medal for Philosophy.
1959 B.A. (University of Ottawa).
1961 B.Th. (Summa cum laude). Gold Medal for Theology.
1963 L.Th. (Cum laude).

1963–65 University of Ottawa: Lecturer in philosophy.

1965–68 Department of History and Philosophy of Science Cambridge University: Graduate Student.

1965–68 Canada Council Fellowship.
1965 Member of Trinity College.
1966 Member of Darwin College.
1967–68 President of the Student Association of Darwin College.

1968 Ph.D. (Cantab). Title of Dissertation: "Galileo's Philosophy of Science: The Middle Period 1610–32."

- 1968–73 University of Ottawa: Assistant Professor (1968–1972); Associate Professor with tenure in 1973.
- 1973–74 Harvard University: Fellow of the Center for Italian Renaissance Studies.
(Villa I Tatti, Florence); Istituto e Museo di Storia della Scienza, Florence: Visiting Professor.
- 1974–81 McGill University: Associate Professor of Philosophy; Chairman, History and Philosophy of Science Program.
- 1973–76 Member of the History of Science Society.
- 1980–81 Member of the Academic Committee of the Social Sciences and Humanities Research Council of Canada.
- 1981–89 Secretary-General of the Division of History of Science of the International Union of History of Philosophy of Science.
- 1981–82 Ecole des Hautes Etudes en Sciences Sociales, Paris: Directeur d'études associé.
- 1982–88 McGill University: Full Professor.
- 1982–88 Member of the Canadian National Committee of History and Philosophy of Science.
Member of the General Committee of the International Council of Scientific Unions, and member of the Committee on Scientific Priorities.
- 1983–86 Member of the Selection Committee of the Killam Program.
- 1984–85 Director of Graduate Program in Philosophy.
- 1986–87 Chairman of the Pfizer Prize Committee of the History Science Society.
Member of the Standing Committee on Science and Ethics of the Royal Society of Canada.
- 1986–89 Member of the Editorial Board of the *History of Philosophy Quarterly*.
- 1988–90 Second Vice President Canadian Society for the History and Philosophy of Science.
- 1988 Elected Member of the International Academy of the History of Science (Corresponding member since 1978).

- 1988–89 Fellow of the Wissenschaftskolleg (Institute for Advanced Studies), Berlin.
- 1989–95 McGill University: Professor of History and Philosophy of Science.
- 1989 Elected Fellow of the Royal Society of Canada.
Appointed Member of the Standing Committee for the Humanities of the European Science Foundation.
- 1989–93 President of the Division of History of Science of the International Union of History and Philosophy of Science.

Appointed to the Advisory Editorial Board of *Physis* and *Nuncius*.
- 1990–92 President of both Divisions of the International Union of History and Philosophy of Science.
Appointed to the Scientific Committee of the Institute of History of Science, Florence, Italy.
Member of the Centre for Medicine, Ethics and Law, McGill University, and Associate Professor of the Faculty of Medicine.
- 1992 Appointed Hydro-Quebec Professor.
Visiting Professor, University of Rome (May-June).
- 1993 Awarded the Koyré Medal, the highest award of the International Academy of the History of Science.
- 1996–2003 Université Louis Pasteur of Strasbourg: Professor of History and Philosophy of Science.
- 1996 Elected Member of the Académie des Marches del'Est.
- 1996 Appointed Chairman of the European Science Foundation Network on *The Scientific Image*.
- 1997 Elected Member of the Académie d'Alsace.
- 1997 Elected Member of the Academia Europaea.
- 1997 Elected Foreign Member of the Royal Swedish Academy of Sciences.
- 1997 Elected Member of the Rotary International.

	1997-2001	President of the International Academy of the History of Science.
	1997	Appointed Member of the Editorial Board of the <i>Notes and Records</i> of the Royal Society of London.
	1998	Appointed "Professeur des Universités en classe exceptionnelle".
	1998	Member of the Steering Committee of the <i>John Templeton Seminars on Science and Religion at Oxford</i> .
	1999-2003	Chairman of the Standing Committee for the Humanities of the European Science Foundation
2003-2012		Professor at the University of Padua and incumbent of the "Galileo Chair of History of Science"
	2003	Elected member of the Council of the Academia Europea
	2004	Elected member of the Accademia Galileiana
	2005	Appointed member of the Committee on "Science, Religion and the Ontological Quest" of the Pontifical Commission of the Vatican.
	2005-2008	Member of the Evaluation Committee of the Catalan Institution for Research and Advanced Studies
	2006	Appointed member of the Committee for the new National Edition of the Works of Galileo
	2007-2010	Co-Director of the Venice Summer School of Science and Religion at the Istituto Veneto di Scienze Lettere ed Arti.
	2007-2009	Member of the Evaluation Committee for Strategic Grants of the Spanish National Research Council.
	2009-2010	Member of the Evaluation Committee for History of the Portuguese Research Council.
2012-present Science, Scienze	2012	Visiting Scholar Max Planck Institute for History of Berlin. September 2012.
	2013	Elected foreign member of the Accademia delle dell'Istituto di Bologna.
	2014	Elected foreign member of the Accademia nazionale di scienze, lettere e arti di Modena.
	2015	Visiting Scholar Max Planck Institute for History of Science, Berlin.

PUBLICATIONS

Books:

1. *Galileo's Intellectual Revolution*. London: Macmillan, 1972; second edition, New York: Science History Publications, 1977. Italian translation, *La rivoluzione intellettuale di Galileo*. Florence: Sansoni Editore, 1974. Spanish translation, *La revolución intelectual de Galileo*. Barcelona: Ariel, 1983. French translation (enlarged), *La révolution intellectuelle de Galilée*. Paris: Editions du Seuil, 1992.
2. *Galileo's Florentine Residences* (with M. L. Righini Bonelli). Florence: Istituto e Museo di Storia della Scienza, 1979.
3. *Copernico, Galileo, Cartesio. Aspetti della rivoluzione scientifica*. Rome: Armando Editore, 1989.
4. *The Magic of Numbers and Motion. The Scientific Career of René Descartes*. Canton, MA: Science History Publications, 1991. Spanish translation, *La magia de los numeros y el movimiento: La carrera científica de Descartes*. Madrid: Alianza, 1993. Italian translation, *La magia dei numeri e del moto*. Turin: Bollati Boringhieri, 1994 and 2013.
5. *Copernico*. Milan: Le Scienze, 2001, new edition 2013. German translation, *Nikolaus Kopernicus der Begründer des modernen Weltbilds*. Heidelberg: Spektrum der Wissenschaft, 2003. Dutch translation, *Copernicus Grondlegger van het moderne wereldbeeld*. Amsterdam: Van Veen, 2006.
6. *Galileo's in Rome. The Rise and Fall of a Troublesome Genius* (with Mariano Artigas). Oxford and New York: Oxford University Press, 2003; Spanish translation, *Galileo en Roma: Cronica de 500 dias*. Madrid: Encuentro, 2003; Japanese translation, Tokyo: Otsukishoten, 2005; German translation, *Galileo Galilei. Aufstieg und Fall eines Genies* Darmstadt. Primus Verlag, 2006; Korean translation. Seoul: Eastasia Publishing Co., 2006; Italian translation, *Galileo a Roma*. Venice: Marcianum Press, 2009.
7. *Designing Experiments and Games of Chance: the Unconventional Science of Blaise Pascal*. Canton: Ma: Science History Publications, 2003.
8. *Galileo Observed. The Politics of Science and Religion* (with Mariano Artigas). Boston: Science History Publications, 2006.
9. *El Caso Galileo: Mito y Realidad* ((with Mariano Artigas). Madrid: Encuentro, 2009. A revised and expanded version of item 8.
10. *Galileo Interviewed*. Zurich: Galileo Press, 2013. Limited Edition. Italian translation by Flavia Marcacci, *Intervista a Galileo*. Rome: Carocci, 2015. Adapted for the stage and premiered at the Teatro Bonci of Cesena in April 2015.

Books Edited:

1. *Reason, Experiment and Mysticism in the Scientific Revolution* (with M.L. Righini Bonelli). London: Macmillan and New York: Neale Watson Academic Publications, 1975. New edition, Sagamore Beach: Science History Publications, 2012.
2. *Values and the Quality of Life* (with J. King-Farlow). New York: Neale Watson Academic Publications, 1976.
3. *Contemporary Issues in Political Philosophy* (with J. King-Farlow). New York: Neale Watson Academic Publications, 1976.
4. *Basic Issues in Philosophy of Science*. New York: Neale Watson Academic Publications, 1976.
5. Sir William Dawson, *Modern Ideas of Evolution*. (edited by William R. Shea and John F. Cornell with a critical introduction by William R. Shea). New York: Neale Watson Academic Publications, 1977.
6. *Rutherford and Physics at the Turn of the Century* (with Mario Bunge). New York: Science History Publications and London: Macmillan, 1979.
7. *Otto Hahn and the Rise of Nuclear Physics*. Dordrecht and Boston: D. Reidel, 1983.
8. *Nature Mathematized*. Dordrecht and Boston: D. Reidel, 1983.
9. *Revolutions in Science: Their Meaning and Relevance*. Canton, MA: Science History Publications, 1988.
10. *Scientists and their Responsibility* (with Beat Sitter). Canton, MA: Watson Publishing International, 1989.
11. *Philosophie, Physik, Wissenschaftsgeschichte* (with Wolfgang Muschik). Berlin: Technische Universität Berlin, 1989.
12. *Creativity in the Arts and Sciences* (with A. Spadafora). Canton, MA: Science History Publications, 1990.
13. *Nature, Experiment, and the Sciences. Essays on Galileo and the History of Science in Honour of Stillman Drake* (with Trevor H. Levere). Dordrecht: Kluwer, 1990.
14. *Persuading Science: The Art of Scientific Rhetoric* (with Marcello Pera). Canton, MA: Science History Publications, 1991. (Italian translation, *L'arte della rivoluzione scientifica*. Milan: Guerini, 1992).
15. *From the Twilight of Probability. Ethics and Politics* (with A. Spadafora). Canton, MA: Science History Publications, 1992.
16. *Storia delle Scienze: Le Scienze Fisiche e Astronomiche*. Milan: Einaudi, 1992.

17. *Interpreting the World, Science and Society* (with A. Spadafora). Canton, MA: Science History Publications, 1992.
18. *Energy Needs in the Year 2000 and Beyond: Ethical and Environmental Perspectives*. Canton, MA: Watson Publishing International, 1994. French translation, *Les besoins énergétiques de l'an 2000*. Québec: Ministère des ressources naturelles, 1995.
19. *The Scientific Image in the Age of the Enlightenment*. Canton, MA: Science History Publications, 2000.
20. *1604-2004: Supernovae as Cosmological Lighthouses* (with M. Turatto et alii). San Francisco: Astronomical Society of the Pacific, 2005.
21. Paolo Sarpi, *Istoria dell'Interdetto*, critical edition (with Corrado Pin). Conserve: ThinkAdv, 2006.
22. Campano da Novara, *Theorica Planetarum*, critical edition of the Latin text and Italian translation (with Tiziana Bascelli and Aldo Bullo). Conserve: ThinkAdv, 2007.
23. Galileo Galilei, *The Sidereal Message*, translated with an introduction and notes by William R. Shea. Canton, Ma: Science History Publications, 2009.
24. Ilario Altobelli. *Scienziato, Teologo, Corrispondente di Galileo* (with Alessandro Giostra and Francesco Merletti). Treia: Città di Treia, 2011.
25. Galileo, *Selected Writings*, edited and translated (with Mark Davie). Oxford: Oxford University Press, 2012.

Articles:

1. *Galileo's "Discorso intorno alle cose che stanno in sù l'acqua o che in quello si muovono"*, Florence: G. Barbèra, 1969.
2. "The End of the Aristotelian Cosmos", *Studi Secenteschi* X (1969), pp. 135-159.
3. "Galileo's Atomic Hypothesis", *Ambix. The Journal for the History of Early Chemistry* XVII (1970), pp. 13-27.
4. "The World in Motion", *La Revue de l'Université d'Ottawa* 40 (1970), pp. 341-385.
5. "Galileo's Claim to Fame", *The British Journal for the History for the History of Science* 5 (1970), pp. 111-127.
6. "Galileo, Scheiner, and the Interpretation of the Sunspots", *Isis* 61 (1970), pp. 498-519.
7. "Galileo and the Controversy of the Comets", *Physis* 12 (1970), pp. 5-35.
8. "The Significance of Experiments in the Writings of the Young Galileo", *La Revue de L'Université d'Ottawa* 41 (1971), pp. 192-206.

9. "Beyond Logical Empiricism", *Dialogue* 10 (1971), pp. 223-242.
10. "Galileo's *Discourse on Floating Bodies*. Aristotelian and Archimedean Elements", *Actes du XIIIe Congrès International d'Histoire des Sciences*. Paris: A. Blanchard, 1971, t. 4, pp. 149-153.
11. "La rivoluzione astronomica copernicana", *Memorie della Società Astronomica Italiana* XLIV (1973), pp. 671-687.
12. "The Classification of Scientific Terms as "Theoretical" and "Observational" in Contemporary Philosophy of Science", in J.A. Wojciechowski (ed.), *Conceptual Basis of the Classification of Knowledge*, Munich: Verlag Dokumentation, 1974, pp. 172-185.
13. "Kepler and Galileo", *Journal for the History of Astronomy* V (1974) pp. 58-60.
14. "Georg Locher's *Disquisitiones mathematicae de controversiis et novitatibus astronomicis*' and Galileo's *Dialogue on the Two World Systems*", *Proceedings of the 13th International Congress of the History of Science. Section VI*. Moscow: Nauka, 1974, pp. 211-219.
15. "Trends in the Interpretation of Seventeenth-Century Science", in M.L. Righini Bonelli and W.R. Shea (eds.), *Reason, Experiment and Mysticism in the Scientific Revolution*. London: Macmillan and New York: Science History Publications, 1975, pp. 1-17.
16. "McTaggart and the Neo-Positive Entropists", *Philosophy* 50 (1975), pp. 346-351.
17. "Le copernicanisme de Galilée", *Avant, Avec, Après Copernic*. Paris: Blanchard, 1975, pp. 213-218.
18. (with N. Wolf) "Stillman Drake and the Archimedean Grandfather of Experimental Science", *Isis* LXVI (1975), pp. 397-400.
19. "La controriforma e l'esegesi biblica di Galileo Galilei", A. Babolin (ed.), *Problemi Religiosi e Filosofia*, Padua: La Garangola, 1975, pp. 37-62.
20. "Christoph Scheiner", *Dictionary of Scientific Biography*. New York: Charles Scribner's Sons, 1975, vol. XII, pp. 151-152.
21. "Some Aspects of Post-Renaissance Astronomy", *Vistas in Astronomy* 50 (1976), pp. 11-15.
22. "Galileo and the Justification of Experiments", in R.E. Butts and J. Hintikka (eds.), *Historical and Philosophical Dimensions of Logic, Methodology, and Philosophy of Science*. Dordrecht: D. Reidel, 1977, pp. 81-92.
23. "Descartes, Critic of Galileo", in R.E. Butts and J. Pitt (ed.), *New Perspectives on Galileo*. Dordrecht: D. Reidel, 1978, pp. 139-159.

24. "Marin Mersenne: Galileo's Traduttore–Tradittore", *Annali dell'Istituto e Museo di Storia della Scienza* 2 (1977), pp. 55-70.
25. "Descartes and the Rosicrucians", *Annali dell'Istituto e Museo di Storia della Scienza* 4 (1979), pp. 29-47.
26. "The Scientific Revolution of the Seventeenth Century", in *Anais do Simpósio sobre Historia e Filosofia da Ciência*. Sao Paulo: Academia das Ciências do Estado de Sao Paulo, 1979, pp. 115-175.
27. "Orientations actuelles de la philosophie et de l'histoire des sciences en Amérique", *Sciences Paris (A.F.A.S.)*, t. 9, No. 3-4, 1979, pp. 77-82.
28. "The Young Hegel's Quest for a Philosophy of Science or Pitting Kepler Against Newton", in J. Agassi and Robert Cohen (eds.), *Essays in Honour of Mario Bunge*. Dordrecht and Boston: D. Reidel, 1981, pp. 381-397.
29. "Descartes and the French Artisan Jean Ferrier", *Annali dell'Istituto e Museo di Storia della Scienza* VII (1982), fasc. 2, pp. 145-159.
30. "The Young Hegel's Philosophy of Nature or the Fear of Mathematics", in Jean Dhombres (ed.), *Sciences et techniques en perspectives I* (1981-1982), section 4, pp. 1-34.
31. "Do Historians and Philosophers of Science Share the Same Heritage?", in William R. Shea (ed.), *Nature Mathematized*. Dordrecht and Boston: D. Reidel, 1983, pp. 3-20.
32. "The Galilean Geometrization of Motion", in William R. Shea (ed.), *Nature Mathematized*. Dordrecht and Boston, 1983, pp. 51-60.
33. "From Rutherford to Hahn", in William R. Shea (ed.), *Otto Hahn and the Rise of Nuclear Physics*. Dordrecht and Boston, 1983, pp. 1-18.
34. "Scienza e Religione: la condanna di Galileo", *Scienza Duemila* V, n. 4 (1983), pp. 28-33.
35. "Melchior Inchofer's *Tractatus Syllepticus*: a Consultor of the Holy Office Answers Galileo", in P. Galluzzi (ed.), *Novità celesti e crisi del sapere*. Florence: Giunti, 1984, pp. 283-292.
36. "Descartes: Methodological Ideal and Actual Procedures", *Philosophia Naturalis* 21 (1984), pp. 577-589.
37. "Cambiamenti teorici razionali: i vortici", in M. Pera and J. Pitt (eds.), *I Modi del Progresso*. Milan: Il Saggiatore, 1985, pp. 137-159.
38. "L'Europa e gli sviluppi della scienza nel mondo", in M. Guidetti (ed.), *Storia d'Italia e d'Europa* vol. 8, t. 2. Milan: JACA Book, 1985, pp. 527-551.

39. "Panofsky Revisited: Galileo as a Critic of the Arts", in Piero Morselli (ed.), *Renaissance Studies in Honor of Craig Hugh Smyth*. Florence: Giunti Barbèra, 1985, vol. I, pp. 481-492.
40. "Filosofi e storici della scienza possono parlare tra di loro?", in Francesca Rivetti Barbò (ed.), *Dialogo e Malinteso*. Milan: Marzorati, 1985, pp. 241-264.
41. "Tâches actuelles d'une philosophie des sciences: A la reconquête de la rationalité", in Thomas De Koninck and Lucien Morin (eds.), *Urgence de la philosophie*. Québec: Presses de l'Université Laval, 1985, pp. 334-339.
42. "Descartes in the Philosophical Haven of the Netherlands", *Canadian Journal of Netherlandic Studies* IV (1985), pp. 61-85.
43. "Filled With Wonder: Kant's Cosmological Essay, the *Universal Natural History and Theory of the Heavens*", in Robert E. Butts (ed.), *Kant's Philosophy of Physical Science*. Dordrecht and Boston: D. Reidel, 1986, pp. 95-124.
44. "Hegel's Celestial Mechanics", in Michael Petry (ed.), *Hegels Philosophie der Natur*. Stuttgart: Klett-Cotta, 1986, pp. 31-44.
45. "Galileo and the Church", in D. Lindberg and R.L. Numbers (eds.), *God and Nature: Historical Essays on the Encounter Between Christianity and Science*. Berkeley: University of California, 1986, pp. 114-135.
46. "The Trend in History and Philosophy of Science", *Historia e Desenvolvimento da Ciência em Portugal*. Lisbon: Academia das Ciências de Lisboa, 1986, vol. 2, pp. 1265-1282.
47. "È sempre razionale credere negli esperimenti?", *Nuova Civiltà delle Macchine* IV (1986), Nos. 3/4, pp. 43-57.
48. "The Quest for Scientific Rationality: Some Historical Considerations", in J.C. Pitt and M. Pera (eds.), *Rational Changes in Science*. Dordrecht: D. Reidel, 1987, pp. 155-176.
49. "The Printing Press as an Agent of Change at the Time of the Scientific Revolution", in Peter F. McNally (ed.), *The Advent of Printing*. Montreal: McGill University, 1987, pp. 25-36.
50. "Research and Use of Energy in Classical Times", in Folio Quilici and Paolo Galluzzi (eds.), *Man, Environment, Energy*. Rome: ENI, 1987, pp. 103-113.
51. "Descartes and the Rosicrucian Enlightenment", in R.S. Woolhouse (ed.), *Metaphysics and Philosophy of Science in the 17th and 18th Centuries*. Dordrecht and Boston: Kluwer, 1988, pp. 73-99.
52. "The Unfinished Revolution: Johann Bernoulli (1702–1780) and the Debate Between the Cartesians and the Newtonians", in William R. Shea (ed.), *Revolution in Science: Their Meaning and Relevance*. New York: Science History Publications, 1988, pp. 70-92.

53. "Reassessing the Scientific Revolution and Its Religious Inspiration", in T.D. Singh and Ravi Gomatan (eds.), *Synthesis of Science and Religion: Critical Essays and Dialogues*. San Francisco: Bhaktivedanta Institute, 1988, pp. 104-112.
54. "De l'astrologie à l'astronomie", in T. Klaniczay, E. Kushner and A. Stegmann (eds.), *L'époque de la Renaissance 1400–1600. Vol. I L'avènement de l'esprit nouveau (1400–1480)*. Budapest: Akadémiai Kiadó, 1988, pp. 106-113.
55. "Transworld Journeys", in S. Allén (ed.), *Possible Worlds in Humanities, Arts and Sciences*. (Proceedings of the Nobel Symposium). Berlin: Walter de Gruyter, 1989, pp. 82-89.
56. "La Stampa quale responsabile dei cambiamenti al tempo della rivoluzione scientifica", *Ragioni Critiche*, anno IV (IIIe serie) nos. 1-2, March 1989, pp. 18-20.
57. "Cartesian Clarity and Cartesian Motion", in J.S. Brown and J. Mittelstrass (eds.), *An Intimate Relation: Studies in the History and Philosophy of Science in Honour of Robert E. Butts*. Dordrecht and Boston: Kluwer, 1989, pp. 23-41.
58. "Galileis physikalischer Beweis für die Bewegung der Erde um die Sonne", in W. Muschik and W.R. Shea (eds.), *Philosophie, Physik, Wissenschaftsgeschichte*. Berlin: Technische Universität Berlin, 1989, pp. 68-77.
59. "The Epistemology of the Disillusionment with Science", in William R. Shea and B. Sitter (eds.), *Scientists and their Responsibility*. Canton, MA: Watson Publishing International, 1989, pp. 189-202.
60. "Galileo Galilei: An Astronomer at Work", in T.H. Levere and W.R. Shea (eds.), *Nature, Experiment, and the Sciences*. Dordrecht: Kluwer, 1990, pp. 51-76.
61. "Tackling the Mind", in P. Weingartner and G. Dorn (eds.), *Studies on Bunge's Treatise*. Amsterdam: Rodopi, 1990, pp. 205-214.
62. "The Mainspring of the Arts and Science", in W.R. Shea and A. Spadafora (eds.), *Creativity in the Arts and Science*. Canton, MA: Watson International, 1990, pp. xi-xvi.
63. "Eloge: Pierre Costabel 1912–1989", *Isis* 81(1990), pp. 708-709.
64. "Descartes and the Art of Persuasion", in M. Pera and W.R. Shea (eds.), *Persuading Science: The Art of Scientific Rhetoric*. Canton, MA: Science History Publications, 1991, pp. 125-141. Italian translation, "Cartesio e l'arte della persuasione" in M. Pera and W.R. Shea (eds.), *L'Arte della persuasione scientifica*. Milan: Guerini, 1992, pp. 167-186.
65. "Quand la terre était le nombril du monde", *Les Cahiers de Science et Vie*, no. 2, 2 April 1991, pp. 6-13.

66. "Une erreur de Galilée" in R. Bouveresse and H. Barreau (eds.), *Karl Popper: Science et Philosophie*. Paris: Vrin, 1991, pp. 259-261.
67. "Past and Present Links Between Philosophy and History of Science", in *Impact of Science on Society*, no. 160 (1991), pp. 279-287. Portuguese translation, "Ligações entre a história e a filosofia da Ciência: passado e presente", *Impacte Ciência e sociedade* 11 (1992), 5-14. Turkish translation, *Bilim Tarihi*. Haziran (1992) Sayı: 8, pp. 10-15.
68. "Scientific Responsibility, the Environment and Responsible Ethics", *Science International*, Special Issue, September 1991, p. 33.
69. "Science and Culture" in E. Groffier and M. Paradis (eds.), *The Notion of Tolerance and Human Rights*. Ottawa: Carleton University Press, 1991, pp. 105-116.
70. "Premessa" in William R. Shea (ed.), *Storia delle Scienze: Le Scienze Fisiche e Astronomiche*. Milan: Einaudi, 1992, pp. 11-15.
71. "La rivoluzione scientifica" in William R. Shea (ed.) *Storia delle Scienze: Le Scienze Fisiche e Astronomiche*. Milan: Einaudi, 1992, pp. 168-233.
72. "All the Light We Have", in W.R. Shea and A. Spadafora (eds.), *From the Twilight of Probability*. Canton, MA: Science History Publications, 1992, pp. xi-xv.
73. "When Experiments Speak with a Forked Tongue", in W.R. Shea and A. Spadafora (eds.), *Interpreting the World, Science and Society*. Canton, MA: Science History Publications, 1992, pp. 103-120.
74. Adam Ries (1492–1559)", in W. Kaunzer and H. Wussing (eds.), *Adam Ries: Cos*. Stuttgart and Leipzig: B.G. Teubner, 1992, p. 5.
75. "Introduction" in C. Morabito (ed.), *Physis. Indici Prima Serie 1959–1985*. Florence: Olschki, 1992, pp. v-vii.
76. (with P.M. Johnson), "Pour une éthique de l'environnement", *Ecodécision*, June 1992, pp. 23-24.
77. "Archimedes and Descartes: A Syracusan Victory", in C. Dollo (ed.), *Archimede: Mito, Tradizione, Scienza*. Florence: Olschki, 1992, pp. 225-236.
78. (with C. Cardinal, N. Chartrand and D. Dubeau), "Electricity and Health: Decision-Making in Conditions of Uncertainty. Questions of Ethics and Law". *World Energy Council. 15th Congress. Division 1. Energy and the Environment. Technical Session I.4*. Madrid, 1992, pp. 121-139.
79. "L'ambiente della fede e la fede nell'ambiente", in M. Micheletti and A. Savignano (eds.), *Filosofia della religione*. Genoa: Marietti, 1993, pp. 199-215.
80. "Descartes Savant. Response", *Metascience* 3 (1993) pp. 27-32.

81. "Energy , the Pulse of Life" in William R. Shea (ed.), *Energy Needs in the Year 2000 and Beyond: Ethics and Environmental Perspectives*. Canton, M.A.: Watson Publishing International, 1994, pp. ix-xviii.
82. "The Trial of Galileo", *Lonergan Review* 3 (1994), pp. 1-15.
83. "Stillman Drake (1910–1993)", *Nuncius* 9 (1994), pp. 295-297.
84. "Le Monde ou le beau roman de la physique de Descartes", *Littératures Classiques* 22 (1994), pp. 73-85.
85. "Thinking Scientifically", *Annals of Science* 52 (1995), pp. 615-618.
86. "Nature: Described or Constructed?" in Dante Della Terza (ed.), *Da una riva e dall'altra. Studi in onore di Antonio D'Andrea*. Florence: Cadmo, 1995, pp. 423-435.
87. "Un scientifique de carrière, René Descartes", *Philosophiques. Revue de la Société de Philosophie du Québec* XXII (1995), pp. 385-392.
88. "Il contributo di Paolo Rossi a una nuova interpretazione della rivoluzione scientifica", in A. La Vergata and A. Pagnini (eds.), *Storia della Filosofia, Storia della Scienza*. Florence: La Nuova Italia, 1995, pp. 5-21.
89. "Le macchine e i meccanismi della natura", in Pietro Rossi and Carlo Viano (eds.), *Storia della Filosofia*. vol. III. Rome: Laterza, 1995, pp. 165-179.
90. "Le nuove cosmologie", in Pietro Rossi and Carlo Viano (eds.), *Storia della Filosofia*. vol. III. Rome: Laterza, 1995, pp. 180-208.
91. "Technology and the Rise of the Mechanical Philosophy", in R.S. Cohen and M. Marion (eds.), *Quebec Studies in the Philosophy of Science*. Dordrecht and Boston: Kluwer, 1995, pp. 297-307.
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