

Curriculum Vitae

Jean De Groot

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Work Address:

School of Philosophy

Aquinas Hall

The Catholic University of America

620 Michigan Ave., N. E.

Washington, DC, 20064

Education

- 1980 Ph.D. Harvard University. History of Science
Ph.D. thesis: *Aristotle and Philoponus on Light*
Fields for general examinations:
Physical science from antiquity to Galileo
Medieval science and philosophy
Medieval intellectual history
- 1976-1978 Junior Fellow, Dumbarton Oaks Center for Byzantine Studies, Washington, DC.
Greek reading of Plato's *Timaeus* with John M. Duffy, Assistant Professor of Greek
Language and Literature at Dumbarton Oaks.
- 1976 Readings in Greek with R. W. Sharples, Lecturer in ancient Greek philosophy, University
College, London.
- 1974-75 V^e section, École Pratique des Hautes Études, Paris. Directeur d'études: Pierre Hadot
Translations from Greek with Alain Segonds, Le Centre national de la recherche
scientifique.
- 1971, M.A. Harvard University. History of Science
- 1970, B.A. University of Oklahoma. Major: philosophy. Minor: history of science
B.A. *summa cum laude*
Phi Beta Kappa

Teaching Positions and Academic Administrative Posts Held

- 2022–present Professor Emerita, School of Philosophy
- 2015–2022 Professor, School of Philosophy, The Catholic University of America
- 2000–2015 Associate Professor, School of Philosophy, Catholic University
- 2000–2008 Associate Dean, School of Philosophy, Catholic University
- 1994–2000 Assistant Professor, School of Philosophy, Catholic University
- 1984–1993 Adjunct Assistant Professor, School of Philosophy, Catholic University
- 1973–1974 Teaching Fellow, Department of History of Science, Harvard University
Courses assisted: Ancient Science, The Scientific Revolution
Junior and senior tutorial, full year

Courses Taught at Catholic University

Graduate courses:

Aristotle's *Physics*

Aristotle's *Posterior Analytics*

Aristotle's *Categories* and *On*

Interpretation

Aristotle's *De Caelo*

Wittgenstein's Later Philosophy

Twentieth Century Philosophy of Science

Undergraduate courses:

Honors:

Classical Mind

Modern Mind

Nature and Human Nature

Courses for majors:

History of Ancient Philosophy

Contemporary Philosophy

Philosophy of Science, Senior Seminar

For non-majors:

Classical Mind

Modern Mind

Logic

Dissertations Directed and Completed to Date

1. Andrew Peach, “*Denken wir uns*: Imaginative Scenarios in Wittgenstein’s Philosophy,” 2002.
2. Elizabeth Shaw, “William James on Human Nature and Evolution,” 2010.
3. Fr. Ignacio de Ribera Martín, “The Continuity of Substantial Change in Aristotle’s *Physics*,” 2012.
4. Jeong Hwan Kim, “Demonstrative Knowledge and Epistemic Continuity in Aristotle’s *Posterior Analytics*,” 2013.
5. Margaret Ross Cecere, “Aristotle on Nature and the Moral Life,” 2014.
6. Bradford Blue, “Continuity in Wittgenstein’s Philosophy,” 2016.
7. Andrew Hill, “Forms as Active Causes in Plato’s *Phaedo* and *Timaeus*,” 2016.
8. Sr. Anna Wray, “Noetic Thinking in Aristotle’s *De Anima* III.6,” 2019
- 9.. Paul Metilly, “Contrariety in Defense of the Principle of Non-Contradiction: An Interpretation of *Metaphysics* Γ,” 2019.

In progress

10. Erikk Geannakis, “Aristotle’s Philosophy of Mathematics: Confronting the Relation Between Physics and Mathematics”

Responsibilities as Associate Dean (2000-2008)

All undergraduate curriculum issues and student relations within the School of Philosophy

- Advising undergraduate students and management of faculty advising
- Handling of academic dishonesty cases
- Pre-theologian student advising
- Curriculum development
- Design of specialized undergraduate major for pre-seminary students
- Liaison with other schools of the university and with Honors Program
- Undergraduate recruitment and orientation of freshmen
- Supervision of office manager and maintenance of faculty offices

University Service (select list)

- Member, Search committee for Dean of the Columbus School of Law, 2018–2020
- Chair, an Ad Hoc Committee of the Academic Senate, 2018–2019
- Member, Committee on Faculty Economic Welfare, 2017–2020
- Member, STEM initiative at CUA, 2015–2017
- PIQUED Curiosity Team, joint initiative to improve teaching in the sciences, composed of professors in the sciences and teachers in the DC public schools, 2015–2017
- Member, President’s Task Force on Faculty Salaries, 2003-2004
- President, District of Columbia Beta chapter (Catholic University) of Phi Beta Kappa, 2005-2008
- Member, The Catholic University of America Press committee, 2002-2008
- Designed *Exploring Faith and Forming Intellect*, a four-part series of discussions for undergraduate students on faith and reason by School of Philosophy faculty, 2003. The series was jointly sponsored with the Division of Student Life at The Catholic University of America

Professional associations

American Catholic Philosophical Association

2018–19 President of the Association

2017–18 Vice-President of the Association

2019–20 Member, Planning Committee of the Association

2014–15, 2018–19 Member, Executive Committee

2013–16 Member of Executive Council

2013–14 Chair of temporary committee to organize a standing sub-committee for planning
 History of Science Society
 Participant, Forum for the History of Mathematical Sciences and the Early Science Forum
 Ancient Philosophy Society
 Classical Association of the Midwest and South
 American Philosophical Association

Fellowships, Grants, Honors

2021–2022 Fellow in Byzantine Studies, Dumbarton Oaks Libraries and Collections,
 Washington, DC
 2018–19 President, American Catholic Philosophical Association
 Fall, 2015 Finalist, Best Book of 2014 in the History of Philosophy (*Journal of the History of
 Philosophy*) for *Aristotle’s Empiricism: Experience and Mechanics in the 4th Century
 BC*.
 2014–2022 Elected to the European Academy of Sciences and Arts
 Spring, 2013 CUA Faculty Grant-in-Aid, “Aristotle’s Empiricism: Experience and Mechanics in the
 Classical Age”
 May, 2005 Dean’s 1895 Award for service to the School of Philosophy
 Spring, 2002 Forum Fellow, Intercultural Forum, Pope John Paul II Cultural Center, Washington, DC
 Summer 2000 CUA Faculty Grant-in-Aid, “Chauncey Wright and the Foundations of American
 Pragmatism”
 1976-1978 Junior Fellow, Dumbarton Oaks Center for Byzantine Studies, Washington, DC
 1974-1976 Frederick Sheldon Graduate Fellowship, a Harvard fellowship for travel and study
 1970-1973 NDEA Title IV Graduate Fellowship

Research Languages

Ancient and Medieval: Greek, Arabic, Latin Modern: French, German, Italian (reading competence)
 Language of concentration: Greek

Academic Papers Presented

42. Invited commentary on *The Concept of Motion in Ancient Greek Thought*, by Barbara Sattler (CUP 2020), ‘Author meets critics,’ Pacific Division of the American Philosophical Association, April, 2023.
41. “From Experience to Nature and Back Again: Hellenistic and Byzantine Mechanics,” Colloquium for the Fellows of Dumbarton Oaks Libraries and Collections, 2021.
40. “Imitation and Life: Device in the Fifth to Fourth Centuries BC,” invited paper in conference Technological Animation in Antiquity, University of Exeter, England, December 6, 2019.
39. “The Significance of Hylomorphism.” Presidential Address, meeting of the American Catholic Philosophical Association, Minneapolis MN, November 22, 2019.
38. Mathematical Form in Aristotle,” invited paper in Symposium on Mechanical Explanation in Aristotle, Pacific Division of the American Philosophical Association, Vancouver, British Columbia, Canada, April, 2019.
37. Ancient Science Up Close,” in panel on early science, History of Science Society meeting, Seattle, Washington, Nov. 2, 2018.

36. "Demonstration and Coherence in Aristotle's *De Caelo*," invited paper in conference *Demonstration, Experience, and Science in Ancient and Medieval Philosophy*, co-sponsored by the departments of Philosophy and Arabic and Islamic Studies at Georgetown University, April 19, 2018.
35. "Mechanics in Antiquity: Principles of Motion in Greece And Ptolemaic Alexandria," invited paper in the History of Science Department Colloquium series, University of Oklahoma, February 9, 2018.
34. "*Nicomachean Ethics* 5.8," Aristotle Workshop on *Nicomachean Ethics* (host, Michael Pakaluk), The Catholic University of America, Washington, DC, October 13–14, 2017.
33. "Nature, Soul and Solids in Aristotle's *De Caelo*," Marquette Aristotle and Aristotelianism Conference, Summer 2017, June 26–28, Milwaukee, WI.
32. "Can the Simple Be Explained? Mechanical Explanation in Aristotle's *De Caelo*," invited paper in Symposium on Mechanical Explanation in Aristotle, Eastern Division of the American Philosophical Association, January 5, 2017.
31. "Theatricality in Pottery Design and Machines," Second Interdisciplinary Conference on the Hellenic Heritage of Magna Graecia, Fonte Aretusa, Syracuse, Sicily, Italy, May 30–June 2, 2016.
30. "Archytas on Seeking and Learning," Classical Association of the Midwest and South, Williamsburg, VA, March, 2016.
29. "Triumph and Forgetfulness: The Historiography of Ancient Mathematics," Forum for the History of Mathematical Sciences panel, History of Science Society, San Francisco, CA, November, 2015.
28. "The Tradition of Mathematical Learning in Magna Graecia," First Interdisciplinary Conference on the Hellenic Heritage of Magna Graecia, Fonte Aretusa, Syracuse, Sicily, Italy, May, 2015.
27. "The Trouble with Weight: Mechanics Up to Archimedes," invited lecture at the Institute for the History and Philosophy of Science and Technology, and the Collaborative Program in Ancient and Medieval Philosophy, University of Toronto (Ontario), April 8, 2015.
26. "The Kinematics of Leverage in Aristotle's Scientific Context," in panel organized by myself at the History of Science Society meeting in Chicago, November 7, 2014.
25. "Causal Dynamism," invited keynote address in Graduate Student Colloquium, *Causation and Explanation*, School of Philosophy, The Catholic University of America, Washington, DC, February 2014.
24. "The Synergy of Mathematical Knowledge in Magna Graecia," in a panel on Science as an Agent of Continuity, History of Science Society, Boston MA, November 2013.
23. Invited commentator on a paper by Christopher Blum, "The Prospect of an Aristotelian Biology," meeting of the American Catholic Philosophical Association, Indianapolis, IN, November 2013.

22. "Why Epistemology is Not Ancient: From Device and Drama into Philosophy." Ancient Philosophy Society, Notre Dame, IN, April 2013.
21. "Empirical Encounters: the *Gnômôn* in Greek Science and the Theatrical Mask," Presidential panel, "New Perspectives in Ancient Science," Classical Association of the Midwest and South-Southern Section, Tallahassee, FL, November, 2012.
20. "Pritzl on Aristotle's *De Anima*," Fall Lecture Series "Aristotle's *De Anima*," School of Philosophy, The Catholic University of America, Washington, DC, September, 2012.
19. "The Natural Sciences and Ordinary Experience: Strategies of Compatibility and Conflict," invited paper in series 'Philosophy and Science,' Franciscan University, Steubenville, OH, March 4, 2011.
18. "Mechanics in the Aristotelian *Physical Problems*," Joint meeting of the History of Science Society and the Philosophy of Science Association, Montréal, Québec, Canada, Nov. 4-6, 2010.
17. "Contributions from Mechanics to Aristotle's Natural Philosophy," invited contribution to Medieval Science Colloquium, Boston College, Chestnut Hill, MA., May 25-26, 2007.
16. "Distinguishing Between Natural Philosophy and Science: The Case of Ancient Mechanics," invited Plenary Address, American Maritain Association, University of Notre Dame, IN, October, 2007.
15. "*Dunamis* and Mechanical Advantage in Aristotle," invited contribution to session "Mathematical Science and Natural Philosophy in Antiquity and the Middle Ages," History of Science Society, Arlington, VA, November, 2007.
14. "Is Aristotelian Science Possible? A Commentary on MacIntyre and McMullin," American Maritain Association, Nashville, TN, 2006.
13. "A Husserlian Perspective on Empirical Mathematics in Aristotle," American Catholic Philosophical Association, Denison University, Granville, OH 2006.
12. "Reasoning in Accordance with Nature: An Aristotelian Perspective," in conference *Is There a Natural Reason?* Lumen Christi Institute for Faith and Culture, University of Chicago, Chicago, IL, 2006.
11. "Teleology and Evidence: Reasoning about Human Nature," Fall lecture series on Natural Law and Contemporary Society, Fall Lecture Series, School of Philosophy, The Catholic University of America, Washington, DC, 2005.
10. "Homegrown Positivism: Charles Darwin and Chauncey Wright," Fall lecture series on Nature in American Philosophy, The Catholic University of America, 2000.
9. "The Status and Significance of Aristotle's Definition of Nature," American Catholic Philosophical Association, St. Paul, MN, 1999.
8. "The Method of Aristotelian Statics in Galileo's *Two New Sciences*," meeting of the History of Science Society, Kansas City, MO, 1998.

7. "Aristotle and Galileo: How to Apply Statics to Dynamics," International Colloquium on Patristic, Medieval and Renaissance Studies, Villanova University, Philadelphia, PA, 1997.
6. "Aristotle and Peirce: Indexical Signs in the *Physics*," Graduate Philosophy Club, American University, 1996.
5. "Form and Succession in Aristotle's *Physics*," Boston Colloquium for Ancient Philosophy, Boston College, Chestnut Hill, MA, 1993.
4. "The Significance of Ordering in Aristotle's *Physics*," Fall lecture series on Final Causality in Nature and Human Affairs, The Catholic University of America, 1992.
3. "Teresa of Avila and the Meaning of Mystical Theology," at the Conference on Hispanic Philosophy in the Age of Discovery, The Catholic University of America, 1992.
2. "Philoponus on Separating the Three-Dimensional in Optics," at the Dibner Institute Conference on the History of Optics, Andover Hill, MA, 1990.
1. "Philoponus on *De Anima* II.5: One Instance of Conceptual Change," at the Dumbarton Oaks Symposium on the Transmission and Reception of Knowledge, held at Dumbarton Oaks Center for Byzantine Studies in Washington, DC, 1977.

Other Presentations (representative list)

- "Bodily Awareness and the Beginning of Mechanics," CUA Women in Science, Busboys & Poets@ Brookland, Washington, DC, April 6, 2016.
- "Philosophy of Nature in the Seminary Curriculum in Philosophy," panel participant and presenter, American Catholic Philosophical Association, November, 2015.
- "Justice," presentation to *Women of Vision*, at DACOR Bacon House, Washington, D.C., 2008.
- "The *Logos* Project," précis of the lecture of Pope Benedict XVI at the University of Regensburg, presented to the Board of Advisors of the School of Philosophy, Catholic University of America, December 2006.
- "Woman as Architect of the Human Environment," presentation to *Women of Vision* at DACOR Bacon House, Washington, D.C., 2005.
- "The Mission of a Catholic University," presentation to a workshop for directors of the Division of Student Life, Pryzbyla Center, Catholic University of America, 2003.
- "*Fides et Ratio*: Intellectual Formation of Oneself," presentation in *Exploring Faith and Forming Intellect*, a series of discussions for undergraduates on faith and reason in daily life, Catholic University of America, 2003.
- Presented also to *Lumen Veritatis*, a Catholic Student Ministry group at the University of Virginia, 2003.

PUBLICATION LIST **June 2023**

Books

1. *Aristotle's Empiricism: Experience and Mechanics in the Fourth Century BC*. Las Vegas NV and Zurich: Parmenides Publishing, May, 2014.

Reviews:

M. Johnson, *Ancient Philosophy* 35, 220–230; Lennox, *Rev. Metaph.* 69 (2), 379–381; Berryman, *Aestimatio* 11, 248–252; Leunissen, *JHP* 54 (3), 498–499; Ugaglia, *Inter. Stud. Phil. Sci.* 29 (1), 99–101; Harari, *Rhizomata* 3 (2):225–232; M. Wilson, *Isis* 107 (2), 386–387; P. Madigan, *Heythrop Journal* 57 (1), 179; *Graduate Faculty Phil. Journal* 36 (1): 253; Logan, *Midwest Book Review* 2015; R. DeWitt, *HOPOS* 7 (1), 176–179.

2. *Aristotle and Philoponus on Light*. New York: Garland Publishing Co., 1991. Reprint by Routledge UK, August 2015.

Reviews:

Blakeley, *Philosophy in Review* 13 (1), 13–15; Lang, *Ancient Philosophy* 14, 190–192.

Edited book

3. *Nature in American Philosophy*. Washington, D. C.: The Catholic University of America Press, 2004.

Reviews:

Ryder, *Transactions C. S. Peirce Society* 41 (4), 865–868; J. Good, *Transactions C. S. Peirce Society* 44 (3), 541–547; Fortner, *Rev. Metaph.* 59 (3), 634–636.

In preparation

Ancient Mechanics, under contract with Routledge UK (Sciences in Antiquity series) projected for publication 2024.

Articles and book chapters**In preparation**

“The First Six Propositions of Archimedes’ *On Equilibrium of Planes* 1”

Accepted for publication

“An Ancient Grammar of Animation and *Technē*.” Accepted by the editors for the Oxford University Press volume, *Technological Animation in Classical Antiquity*, edited by T. Bur, M. Geromelou, and I. A. Ruffell.

In print

29. “The Empirical, Art, and Science in Hippocrates’ *On Joints*.” In *The Body as a Machine in Antiquity: Toward an Early History of Iatromechanics*, edited by Maria Geromelou and George Kazantzidis. Cambridge University Press. [publication June 2023]

28. “The Significance of Hylomorphism.” *Proceedings of the American Catholic Philosophical Association* 93 (2019): 1–17.

27. “Theatricality in Pottery Design and Machines.” in *Politics and Performance in Western Greece: Proceedings of the Second Interdisciplinary Conference on the Hellenic Heritage of Magna Graecia*, ed. Heather L. Reid and Davide Tanasi, 113–132. Sioux City IO: Parnassos Press, 2017. DOI: 10.2307/j.ctvbj7grj

26. “Letter to the Editor,” *International Studies in the Philosophy of Science* 29, no. 4 (2015): 431–433. DOI: 10.1080/02698595.2015.1195146

25. “The Tradition of Mathematical Learning in Magna Graecia.” In *Philosopher Kings and Tragic Heroes: Essays on Images and Ideas from Western Greece*, ed. Heather L. Reid and Davide Tanasi, 45–60. Sioux City IO: Parnassos Press, 2016.

24. "Motion and Energy." In *A Companion to Science, Technology, and Medicine in Greece and Rome*, 2 vols. Edited by Georgia L. Irby, vol. 1, 43–59. Chichester and Malden MA: Wiley-Blackwell, 2016.
23. "Why Epistemology is Not Ancient: From Device and Drama into Philosophy," *Epoché* 19, no. 2 (Spring, 2015): 181–190. DOI: 10.5840 2014123132
22. "Distinguishing Between Natural Philosophy and Science: The Case of Ancient Mechanics." In *Distinctions of Being: Philosophical Approaches to Reality*, edited by Nikolaj Zunic, 225–242. Washington, D.C.: Catholic University of America Press (American Maritain Association Publications), 2012.
21. "Teleology and Evidence: Reasoning about Human Nature." In *Natural Moral Law in Contemporary Society*, edited by Holger Zaborowski, 141-169. Washington, D.C.: Catholic University of America Press, 2010.
20. "Modes of Explanation in the Aristotelian *Mechanical Problems*." *Early Science and Medicine* 14 (2009): 22-42.
Reprinted in *Evidence and Interpretation: Studies on Early Science and Medicine. Essays in Honor of John E. Murdoch*. Edited by Edith Dudley Sylla and William R. Newman. Leiden: Brill, 2009.
19. "*Dunamis* and the Science of Mechanics: Aristotle on Animal Motion." *Journal of the History of Philosophy* 46, no. 1 (2008): 43-68.
18. "Is Aristotelian Science Possible? A Commentary on MacIntyre and McMullin." *Review of Metaphysics* 60, no. 3 (March, 2007): 463-77.
17. "A Husserlian Perspective on Empirical Mathematics in Aristotle." *Proceedings of the American Catholic Philosophical Association* 80 (2006): 91-100.
16. "Homegrown Positivism: Charles Darwin and Chauncey Wright." In *Nature in American Philosophy*, edited by J. De Groot, 53-71. Washington, D.C.: Catholic University of America Press, 2004.
15. "Introduction." In *Nature in American Philosophy*, edited by J. De Groot, vii-xx. Washington, D.C.: Catholic University of America Press, 2004.
14. "Aspects of Aristotelian Statics in Galileo's Dynamics." *Studies in History and Philosophy of Science* 31, no. 4 (2000): 645-64.
13. "The Status and Significance of Aristotle's Definition of Nature." *Proceedings of the American Catholic Philosophical Association* 73 (1999): 99-107.
12. "Eudoxan Astronomy and Aristotelian Holism in the *Physics*." In *Text and Context in Ancient and Medieval Science: Studies on the Occasion of John E. Murdoch's Seventieth Birthday*, edited by Edith Sylla and Michael McVaugh, 1-22. Leiden: E.J. Brill, 1997.
11. "Teresa of Avila and the Meaning of Mystical Theology." In *Hispanic Philosophy in the Age of Discovery*, edited by Kevin White, 145-59. Washington, D.C.: Catholic University of America Press, 1996.

10. "Form and Succession in Aristotle's *Physics*." In *Boston Studies in Ancient Philosophy*, vol. 10, edited by John Cleary, 1-23. Lanham, Md.: University Press of America, 1996.
9. "Philoponus on Separating the Three-dimensional in Optics." In *Nature and Scientific Method: Essays in Honor of William A. Wallace*, edited by Daniel Dahlstrom, 157-74. Washington, D.C.: Catholic University of America Press, 1991.
8. "On the Surprising in Science and Logic." *Review of Metaphysics* 40, no. 4 (June, 1987): 631-655.
7. "Philoponus on *De Anima* II.5, *Physics* III.3, and the Propagation of Light." *Phronesis* 28, no. 2 (1983): 177-96.

Unpublished:

"Traits Proper to the Soul Itself: *A Posteriori* Reasoning in Aristotle's *De Anima*," paper in the Fall Lecture Series in honor of Fr. Kurt J. Pritzl, O.P.†, School of Philosophy, 2012. Posted on Academia.edu and my Catholic University website. This paper concerns the interpretation of *De Anima* held by Prof. Pritzl.

Encyclopedia articles

6. "Chauncey Wright." *Stanford Encyclopedia of Philosophy*. Plato.Stanford.edu. (July 2, 2004, substantive revision 2009 and 2015).
5. "Archê." In *Supplement to the New Catholic Encyclopedia, 2012-2013: Ethics and Philosophy*. Edited by Robert L. Fastiggi, vol. 1, 92–94. Detroit: Gale, 2013.
4. "Pseudoscience." In *Supplement to the New Catholic Encyclopedia, 2012-2013: Ethics and Philosophy*. Edited by Robert L. Fastiggi, vol. 3, 1277–1279. Detroit: Gale.
- 3.. "Aristotle." *Encyclopedia of Time*, edited by Samuel L. Macey, 41–43. New York: Garland Publishing Co., 1994.

Essay reviews

2. "Rethinking the Meaning of Mechanism in Antiquity," Essay review of Sylvia Berryman, *The Mechanical Hypothesis in Ancient Greek Natural Philosophy*. *Metascience* 21, no. 3 (2012): 699-704. DOI 10.1007/s11016-011-9599-0.
1. Essay review of Joseph Owens' *Aristotle's Gradations of Being in Metaphysics E-Z*. *The Thomist* 73, no. 1 (2009): 160-65.

Book reviews

- L'hydrostatique de Ménélaüs: introduction, édition et traduction (Scientia Graeco-Arabica 27)*, by Roshdi Rashed. *Bryn Mawr Classical Reviews* 2023.02.25
<https://bmcr.brynmawr.edu/2023/2023.02.25/>
- Aristotle's Science of Matter and Motion*, by Christopher Byrne. *Isis* 113, no. 2 (June, 2022): 430–431.
- The Aristotelian Mechanics: Text and Diagrams*, by Joyce van Leeuwen. *Isis* 109, no. 1 (March, 2018): 164–65.
- Two Oxen Ahead: Pre-Mechanized Farming in the Mediterranean*, by Paul Halstead. *Classical Journal on-line*, February 4, 2017.
- An Approach to Aristotle's Physics*, by David Bolotin. *Review of Metaphysics* 53 (1999): 146–147.
- Aristotle's Physics and Its Medieval Varieties*, by Helen Lang. *Ancient Philosophy* 16 (1996): 220–224.

From Myth to the Modern Mind: A Study of the Origins and Growth of Scientific Thought, vol. 1, by Richard Schlagel, *Ancient Philosophy* 9 (1989): 319–320.

Representing and Intervening: Introductory Topics in the Philosophy of Science, by Ian Hacking. *Review of Metaphysics* 39 (June, 1986): 766–768.