

Michael H. Shank
Curriculum vitae

History of Science Dept
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Academic Positions

University of Wisconsin-Madison

2008-10: Evelyn and Herbert Howe Bascom Professor of Integrated Liberal Studies.

1998-present: Professor of the History of Science (also Integrated Liberal Studies).

2004, 2010: Co-Director, UW Florence Summer Honors Program.

2005-2006: Director, Center for Early Modern Studies.

1999-2004: Senior Member, Institute for Research in the Humanities.

1989-1998: Associate Professor of the History of Science (also Integrated Liberal Studies).

Jan. 1995-July 1997: Department Chair.

1988-1989: Assistant Professor of the History of Science and Integrated Liberal Studies.

Emory University

1987-1988: Assistant Professor of Liberal Studies, Graduate Institute of Liberal Arts; coordinator of Liberal Studies major.

Harvard University

1987 (1 July-31 August): Associate Professor of the History of Science (promoted before departure for Emory).

1983-1987: Assistant Professor of the History of Science and Assistant Head Tutor.

Formal Education

Ph.D., History of Science, Harvard University, 1983.

A.M., History of Science, Harvard University, 1978.

M.A., History and Philosophy of Science, University of Notre Dame, 1975.

B.A., Physics with honors, Goshen College, 1971.

Diploma, section latin-grec, Athénée Royal de Rixensart, Belgium, 1967.

Grants and Honors

Directeur de Recherche Associé, Laboratoire de Philosophie et d'Histoire des Sciences, Centre National de la Recherche Scientifique/Université de Paris 7 (Diderot), Fall 2010.

University of Wisconsin, Research Committee, Supplemental grant, Fall 2010.

Herbert and Evelyn Howe-Bascom Professorship in Integrated Liberal Studies, 2008-2010.

National Science Foundation, Dissertation Research Grant (Frederick Gibbs), 2006-7.

Senior Member, Institute for Research in the Humanities, University of Wisconsin-Madison, 1999-2004.

National Science Foundation, Dissertation Research Grant (Jonathan Seitz), 2004-5.

IREX/NEH Short-term Travel Grant (St. Petersburg, Russia), Fall 2000.

National Science Foundation, Scholar's Award, 1998.

National Science Foundation, Dissertation Research Grant (Alison Sandman: Pilots Versus Cosmographers: Theory and Utility in Early Modern Spain), 1997-98

Bibliographical Society of America, Fellow, 1995-1996.

The Graduate School, UW-Madison (summer support, 1988, 1989, 1990, 1995, 1998).

Vilas Associate, UW-Madison, 1991-1993.

Institute for Research in the Humanities, UW-Madison, Visiting Fellow, Fall 1989.

Emory University Research Committee, Faculty Summer Research Grant, 1988.

National Science Foundation, History and Philosophy of Science Program, Scholar's Award, 1986-1987.

National Science Foundation, History and Philosophy of Science Program, Summer Scholar, 1984.

Fulbright-Hays Fellowship, Vienna, Austria, 1979-1980; renewed, 1980-81.

Social Science Research Council and American Council of Learned Societies, Doctoral Research Fellowship, Austria and West Germany, 1979-1980; write-up support, 1981.

Paleography Fellowship, Committee on Medieval Studies, Harvard University, 1978.

Turner Fellowship in X-Ray Crystallography, Goshen College, 1971.

Books, Monographs, Edited Collections (published and under contract)

"Unless You Believe, You Shall Not Understand:" Logic, University, and Society in Late Medieval Vienna (Princeton: Princeton University Press, 1988).

ed., *The Scientific Enterprise in Antiquity and the Middle Ages: Selections from Isis* (Chicago: University of Chicago Press, 2000).

coeditor (with Peter Harrison and Ronald Numbers), *Wrestling With Nature: From Omens to Science* (Chicago: University of Chicago Press, in press).

coeditor (with David C. Lindberg), *The Cambridge History of Science*, vol. 2: The Middle Ages (New York: Cambridge University Press, in press).

Regiomontanus's "Defense of Theon against George of Trebizond"—transcription and web edition of the 573-page St. Petersburg autograph manuscript (transcription complete; web publication underway through Dartmouth College)

Articles and Essay Reviews

1. "Academic Benefices and German Universities during the Great Schism: Three Letters from Johannes of Stralen, Arnold of Emelisse and Gerard of Kalkar to Henry of Langenstein, 1387-1388," *Codices manuscripti* 7 (1981) 33-47.
2. "From Galen's Ureters to Harvey's Veins," *Journal of the History of Biology* 18 (1985) 331-355.
3. "A Female University Student in Late Medieval Kraków," *Signs: Journal of Women in Culture and Society* 12 (1987) 373-380. Reprinted in Sarah Westphal-Wihl, Elizabeth A. Clark, Judith Bennett, Anne Vilen, and Jean O'Barr, eds., *Sisters and Workers in the Middle Ages* (Chicago: Signs Books, 1989), 190-197.
4. "Essay Review: Newtonian Biographies" [Richard S. Westfall, *Never At Rest: A Biography of Isaac Newton* (Cambridge: Cambridge University Press, 1980); and Gale E. Christianson, *In the Presence of the Creator: Isaac Newton and His Times* (London and New York: The Free Press, 1984)] *Journal for the History of Astronomy* 18 (1987) 224-228.
5. "Natural Science," *The Mennonite Encyclopedia*, vol. 5 (Scottsdale, Penn.: Herald Press, 1991), pp. 224-228.
6. (with David Vampola), "Negating Positivism: Language and the Practice of Science" in Clarence Sills and George Jensen, eds., *The Philosophy of Discourse*, 2 vol. (Portsmouth, N.H.: Boynton/Cook, 1992), I, pp. 22-52.
7. "The 'Notes on al-Bitruji' Attributed to Regiomontanus: Second Thoughts," *Journal for the History of Astronomy* 23 (1992) 15-30.
8. "Galileo's Day in Court" [Essay Review of Mario Biagioli, *Galileo, Courtier: The Practice of Science in the Age of Absolutism* (Chicago: University of Chicago Press, 1993)] *Journal for the History of Astronomy* 25 (1994) 236-243.
9. "University and Church in Late Medieval Vienna: *Modi dicendi et operandi*," in M. J. F. M. Hoenen, J. H. J. Schneider, and G. Wieland, ed., *Philosophy and Learning: Universities in the Middle Ages* [Education and Society in the Middle Ages and Renaissance, 6] (Leiden: Brill, 1995), 43-59.
10. "Lynn Thorndike (1882-1965)," in Helen Damico and Joseph Zadavcil, eds., *Medieval Scholarship: Biographical Studies on the Formation of a Discipline* (New York: Garland, 1995), I, 185-204.
11. "The Classical Scientific Tradition in Fifteenth-Century Vienna," in F. Jamil Ragep and Sally Ragep, with Steven Livesey, eds., *Tradition, Transmission, Transformation: Proceedings of Two Conferences on Pre-modern Science held at the University of Oklahoma* (Leiden: Brill, 1996), 115-136.
12. "How Shall We Practice History? The Case of Mario Biagioli's *Galileo, Courtier*," *Early Science and Medicine* 1 (1996) 106-150.

13. "Zur wechselnden Schätzung der Logik im spätmittelalterlichen Wien," in Michael Benedikt, Reinhold Knoll, Josef Rupitz, eds., *Verdrängter Humanismus-Verzögerte Aufklärung. Vol. 1, part 1: Philosophie in Österreich (1400-1650)* (Agsbach: Verlag Leben--Kunst--Wissenschaft, 1996), 119-137.
14. "Academic Consulting in Late Medieval Vienna: The Case of Astrology," in Michael McVaugh and Edith Sylla, eds., *Texts and Contexts in Ancient and Medieval Science: Studies on the Occasion of John E. Murdoch's Seventieth Birthday* (Leiden: Brill, 1997), 245-270.
15. "Regiomontanus and Homocentric Astronomy," *Journal for the History of Astronomy* 27 (1998) 157-166.
16. "Cosmology in 1588" Essay review of Miguel A. Granada, *El debate cosmológico en 1588: Bruno, Brahe, Rothmann, Ursus, Röslin* (Naples: Bibliopolis, 1996) for *Journal for the History of Astronomy* 30 (1999), 309-311.
17. "Know Thyself!" essay review of *Journals and the History of Science*, ed. Marco Beretta, Claudio Pogliano, and Pietro Redondi. Biblioteca di Nuncius: Studi e Testi XXXII (Florence: Leo Olschki, 1998) for *Early Science and Medicine* 5 (2000), 93-102.
18. Articles "Peurbach" and "Regiomontanus" in Wilbur Applebaum, ed., *Encyclopedia of the Scientific Revolution from Copernicus to Newton* (New York: Garland, 2000), pp. 491-92, 560.
19. Articles "Peurbach" and "Regiomontanus." *Encyclopedia Britannica* (2000) (www.eb.com).
20. "Regiomontanus on Ptolemy, Physical Orbs, and Astronomical Fictionalism: Goldsteinian Themes in Regiomontanus's 'Defense of Theon against George of Trebizond'," *Perspectives on Science* 10 (2002), pp. 179-207.
21. "Rings in a Fluid Heaven: The Equatorium-Driven Physical Astronomy of Guido de Marchia (fl. 1309)" *Centaurus* 45 (2003), pp. 175-203.
22. "Setting the Stage: Galileo in Tuscany, the Veneto, and Rome," in Ernan McMullin, ed., *The Church and Galileo* (Notre Dame: University of Notre Dame Press, 2005), pp. 57-87.
23. Articles "Peurbach," "Regiomontanus," and "Universities" in Thomas F. Glick, Steven J. Livesey, and Faith Wallis, eds., *Medieval Science, Technology and Medicine: An Encyclopedia* (London: Routledge, 2005), 392-93, 439-41, 493-99.
24. "Mechanical Thinking in European Astronomy (13th-15th Centuries)," in Massimo Bucciantini, Michele Camerota, and Sophie Roux, eds., *Mechanics and Cosmology in the Medieval and Early Modern Period* (Biblioteca di Nuncius, 64) (Florence: Leo Olschki, 2007), pp. 3-27.
25. "Regiomontanus as a Physical Astronomer: Samplings from the Defence of Theon against George of Trebizond," *Journal for the History of Astronomy* 38 (2007) 325-49.
26. "Regiomontanus," in Noretta Koertge, ed., *New Dictionary of Scientific Biography* 8 vol. (Detroit: Thomson-Gale, 2007), vol. 6, pp. 216-19.
27. "Astronomia tra corte e università," in *Il Rinascimento italiano e l'Europa*, vol. 5: *Le scienze*, Antonio Clericuzio and Germana Ernst, eds. (Treviso: Angelo Colla, 2008), pp. 3-20.

28. "Setting Up Copernicus? Francesco Capuano da Manfredonia's *Expositio* on the *Sphere* of Sacrobosco," *Early Science and Medicine* 14 (2009), pp. 290-315.
29. "Myth #2: That the Medieval Christian Church suppressed the Growth of Science" in Ronald Numbers, ed., *Galileo Goes to Jail and Other Myths about Science and Religion* (Cambridge, Mass.: Harvard University Press, 2009), pp. 18-27.
30. Essay review of George Saliba, *Islamic Science and the Making of the European Renaissance* (Cambridge, Mass.: MIT Press, 2007) for *Aestimatio* 6 (2009) 63-72. <http://www.ircps.org/publications/aestimatio/currvol.htm>
31. Articles "Henry of Langenstein," "Regiomontanus" in Robert Bjork, ed., *Oxford Dictionary of the Middle Ages* (Oxford: Oxford University Press, 2010), in press.
32. "Natural Knowledge and the Study of Nature in the Latin Middle Ages," in Peter Harrison, Ronald Numbers, and Shank, eds., *Wrestling with Nature: From Omens to Science* (Chicago: University of Chicago Press, in press, 2011).
33. "Introduction" and "Schools and Universities in the Latin Middle Ages," in Lindberg and Shank, eds., *The Cambridge History of Science*, 8 vols. (New York: Cambridge University Press) vol. 2: Medieval Science (in press, 2011).

Audiobook

with David Lindberg) "History of Science I: The Origins of Scientific Thought," University of the Air, Wisconsin Public Radio, Madison: Radio Store, 1995.

Exhibit Consultant

"Galileo, the Medici, and the Age of Astronomy" (April 4-September 7, 2009), Franklin Institute, Philadelphia.

Reviews (essay reviews with "Articles" above)

1. *Regiomontanus-Studien*, ed. Günther Hamann (Vienna: Verlag der Akademie der Wissenschaften, 1980) for the *Journal for the History of Astronomy* 13 (1982) 66-67.
2. Colin A. Ronan, *Science: Its History and Development Among the World's Cultures* (New York: Facts-on-File Publications, 1982) for *Isis* 75 (1984) 564-565.
3. Helmuth Grössing, *Humanistische Naturwissenschaft: Zur Geschichte der Wiener mathematischen Schulen des 15. und 16. Jahrhunderts* (Baden-Baden: Verlag Valentin Koerner, 1983) for the *Journal for the History of Astronomy* 16 (1985) 52-54.
4. Fritz Nagel, *Nicolaus Cusanus und die Entstehung der exakten Wissenschaften* [Buchreihe der Cusanus Gesellschaft, vol. 9] (Münster: Aschendorff, 1984), in *Isis* 77 (1986) 185-186.
5. Heiko Oberman, *Masters of the Reformation: The Emergence of a New Intellectual Climate in Europe*, translated by Dennis Martin (Cambridge, Engl.: Cambridge University Press, 1981), in *History of Universities* 5 (1985) 200-204.

6. Bert Hansen, *Nicole Oresme and the Marvels of Nature: A Study of his De causis mirabilium with Critical Edition, Translation, and Commentary* (Toronto: Pontifical Institute of Mediaeval Studies, 1985) for *Speculum* 62 (1987) 947-950.
7. Pavel Spunar, *Repertorium Bohemorum Provectum Idearum Post Universitatem Pragensem Conditam Illustrans*, vol. 1 [Studia Copernicana, XXV] (Wroclaw, Warsaw, Krakow: Polish Academy of Sciences Press, 1985) for *Speculum* 62 (1987) 1038.
8. Jane L. Jervis, *Cometary Theory in Fifteenth-Century Europe* (Dordrecht: D. Reidel, 1985) for *Speculum* 64 (1989) 445-446.
9. Günther Hamann and Helmuth Grössing, eds., *Der Weg der Naturwissenschaft von Johann von Gmunden zu Johannes Kepler* (Vienna: Verlag der Akademie der Wissenschaften, 1988) for the *Journal for the History of Astronomy* 20 (1989) 215-217.
10. Elspeth Whitney, *Paradise Restored: The Mechanical Arts from Antiquity Through the Thirteenth Century* [Transactions of the American Philosophical Society, vol. 80, 1 (1990)]. 167 pp. Philadelphia: The American Philosophical Society, 1990; in *Archives Internationales d'Histoire des Sciences* 41 (1991) 177-179.
11. Armin Gerl, *Trigonometrisch-astronomisches Rechnen kurz vor Copernicus: Der Briefwechsel Regiomontanus-Bianchini* (Stuttgart: Franz Steiner Verlag, 1989) for *Nuncius* 6 (1991) 345-348.
12. Rudolph Simek, *Erde und Kosmos im Mittelalter: Das Weltbild vor Kolumbus* (Munich: Verlag C. H. Beck, 1992), for the *Catholic Historical Review* 79 (1993) 329-330.
13. Notker Schneider, *Die Kosmologie des Franciscus de Marchia* (Leiden: Brill, 1991), for the *Journal for the History of Astronomy* 25 (1994) 59-61.
14. E. P. Bos and H. A. Krop, eds., *Franco Burgersdijk (1590-1635): Neo-Aristotelianism in Leiden* (Amsterdam/Atlanta: Rodopi, 1993) for the *Journal of the History of Philosophy* 33 (1995) 135-136.
15. Arno Borst, *The Ordering of Time: From the Ancient Computus to the Modern Computer* for *Isis* 86 (1995) 86-87.
16. Jean-Patrice Boudet, *Lire dans le Ciel: La Bibliothèque de Simon de Phares, astrologue du XVe siècle* (Bruxelles: Centre d'Étude des Manuscrits, 1994) for *Isis* 87 (1996) 346-347.
17. Rivka Feldhay, *Galileo and the Church: Political Inquisition or Critical Dialogue?* (Cambridge: Cambridge University Press, 1995) and Annibale Fantoli, *Galileo for Copernicanism and the Church* (Vatican City: Vatican Observatory Publications, 1994) for the *British Journal of the History of Science* 30 (1997) 105-109.
18. Alistair Crombie, *Science, Art, and Nature In Medieval and Modern Thought* (Rio Grande, Ohio: Hambleton Press, 1996), for *American Historical Review* 102 (1997) 1443-1444.
19. Agostino Sottili, ed., *Lauree pavesi nella seconda metà del '400, vol. 1: 1450-1475* [Fonti e studi per la storia dell' Università di Pavia, 25] (Bologna: Cesalpino, 1995), for *Speculum* 73 (1998) 600-601.

20. Franz Graf-Stuhlhofer, *Humanismus zwischen Hof und Universität: Georg Tanstetter (Collimitius) und sein Umfeld im Wien des frühen 16. Jahrhunderts* (Vienna: WUV-Verlag, 1996) for the *Journal for the History of Astronomy* 30 (1999) 83-85.
21. Eileen Reeves, *Painting the Heavens: Art and Science in the Age of Galileo* (Princeton: Princeton University Press, 1997) for the *American Historical Review* 104 (1999) 626-27.
22. Jan Veenstra, *Magic and Divination at the Courts of Burgundy and France: Text and Context of Laurens Pignon's Contre les devineurs (1411)* (Leiden: Brill, 1998) for *Isis* 90 (1999) 592-93.
23. Clive Ruggles, *Astronomy in Prehistoric Britain and Ireland* (New Haven: Yale University Press, 1999) for *Physics Today* 53, #4 (April 2000) 64-65.
24. John L. Heilbron, *The Sun in the Cathedral* (Cambridge, Mass.: Harvard University Press, 1999) for *The Renaissance Quarterly* 53 (2000) 574-75.
25. Paul Uiblein, *Die Universität Wien im Mittelalter. Beiträge und Forschungen.* (Schriftenreihe des Universitätsarchivs, Universität Wien, 11.) Edited by Kurt Mühlberger and Karl Kadletz (Vienna: WUV-Universitätsverlag, 1999), for *Isis* 92 (2001) 161.
26. Germana Ernst, ed., *Tommaso Campanella* (Rome: Istituto Poligrafico e Zecco dello Stato, 1999); Enzo Baldini, *Luigi Firpo e Campanella: Cinquant' Anni di Ricerche e di Pubblicazioni* (Pisa/Rome: Istituti editoriali e Poligrafici internazionali, 2000); and Tommaso Campanella, *Lettere, 1595-1638*, ed. Germana Ernst (Pisa/Rome: Istituti editoriali e Poligrafici internazionali, 2000) for *Renaissance Quarterly* 55 (2002) 749-52.
27. Jacques Verger, *Men of Learning in Europe at the End of the Middle Ages* (Notre Dame, Ind.: University of Notre Dame Press, 2000) for *The Annals of the American Academy of Political and Social Science* 579 (2002), pp. 284-86.
28. Scott Montgomery, *Science in Translation: Movement of Knowledge Through Cultures and Time* (Chicago: University of Chicago Press, 2000), for *The Journal of Interdisciplinary History* 33 (2002), pp. 95-96.
29. Ottavio Besomi and Michele Camerota, *Galileo e il Parnasso Tychonico: Un capitolo inedito del dibattito sulle comete tra finzione letteraria e trattazione scientifica* [Biblioteca di Nuncius, Studi e Testi, XLI] (Florence: Leo S. Olschki, 2000) for *Renaissance Quarterly* 57 (2004), pp. 1102-04.
30. William Shea and Jose Artigas, *Galileo in Rome: The Rise and Fall of a Troublesome Genius* (Oxford: Oxford University Press, 2003) for *The Renaissance Quarterly* 57 (2004) pp. 1102-3.
31. Christine Silvi, *Science médiévale et vérité: Étude linguistique de l'expression du vrai dans le discours scientifique en langue vulgaire* (Paris: Honoré Champion, 2003), for *Speculum* 80 (2005) 1364-66.
32. G. E. R. Lloyd, *The Ambitions of Curiosity* (Cambridge: Cambridge University Press, 2002), for *Isis* 96 (2005) 100.
33. Carla Rita Palmerino and J. M. M. H. Thijssen, eds., *The Reception of the Galilean Science of Motion in Seventeenth-Century Europe* [Boston Studies in the Philosophy of Science, 239]. (Boston/Dordrecht: Kluwer Academic Publishers, 2004), for *The Renaissance Quarterly* 59 (2006) 224-25.

34. Rudolf Simek and Kathrin Chlench, eds., *Johannes von Gmunden (ca. 1384-1442)* (Studia Mediaevalia Septentrionalia, 12), (Vienna: Fassbaender, 2006) for the *Journal for the History of Astronomy* 37 (2008), pp. 126-27.
35. Stephen Gaukroger, *The Emergence of a Scientific Culture: Science and the Shaping of Modernity* (Oxford: Oxford University Press, 2006) for *Renaissance Quarterly* 61 (2008) 632-33.
36. Andrea Battistini, Gilberto De Angelis, and Giuseppe Olmi, eds. *All' origine della scienza moderna: Federico Cesi e l'Accademia dei Lincei* (Bologna: Il Mulino, 2007) for *Renaissance Quarterly* 61 (2008) 1348-49.
37. George Saliba, *Islamic Science and the Making of the European Renaissance* (Cambridge, Mass.: The MIT Press, 2007) for *Aestimatio* 6 (2009), pp. 63-72.

Invited Papers/Talks/Workshops

1. "The *Disputationes* of Regiomontanus: Medieval Astronomy in Renaissance Garb," Annual Meeting of the History of Science Society, Philadelphia, 31 October 1982; and Regiomontanus Celebration, Esztergom, Hungary, June 1986 (read in absentia by Owen Gingerich.)
2. "Regiomontanus and Homocentric Astronomy," Historical Section of the American Astronomical Society, Annual Meeting of the American Astronomical Society, Boston, 16 January, 1983.
3. "On Hearts and Bladders: New Light on William Harvey's Discovery of the Circulation of the Blood," Amherst College, 12 January 1983.
4. "Late Medieval Universities: Myths, Hopes, and Realities," Second History Conference of Hudson Valley Colleges and Universities, Bard College, 22 October 1983.
5. "The Enigmatic Annular(?) Eclipse of 1433," Colloquium on the History of Medieval Science, St. John's University, Colledgeville, Minn., 8 June 1984.
6. Commentator on Anthony Bonner's paper, "Ramon Llull's Art as a Logical System," Boston Colloquium for the Philosophy of Science, 26 March 1985.
7. Panelist, "Science, Technology and the Military," Joint Atlantic Seminar in the History of the Physical Sciences, Harvard University, 27 April, 1986.
8. "Regiomontanus and Homocentric Astronomy," Program in History of Science and Technology, University of Minnesota, 1 May 1987.
9. "Logic and Society in Late Medieval Vienna," 22nd International Conference on Medieval Studies, Western Michigan University, Kalamazoo, Michigan, 9 May 1987.
10. "Remarks on the Ancestry of Peurbach's Planetary Models" History of Science Society, Cincinnati, 28 December 1988.
11. "Church and University in Late Medieval Vienna," American Historical Association and American Association of Church History, Cincinnati, 29 December 1988.
12. "Cosmology and Religion in the Late Middle Ages," American Historical Association and American Association of Church History, Chicago, 29 December 1991.
13. "The Ivory Tower and the Burg: Academic Consulting in Late Medieval Vienna," History of Science Society, Washington, D. C., 28 December 1992 (in honor of John Murdoch).

14. "The Classical Scientific Tradition in Late Medieval Vienna," University of Oklahoma Conference, Science and Cultural Exchange in the Premodern World (in honor of A. I. Sabra), 25 February 1993.
15. "Cosmology in the Late Middle Ages," University of New Mexico, Medieval Studies Lecture Series, 4 March 1993.
16. Comment on George Molland, "Addressing Ancient Authority: Thomas Bradwardine and Prisca Sapientia," at Madison Conference on Science and Theology in Medieval Islam, Judaism, and Christendom, 17 April 1993.
17. "Academic Consulting in Late Medieval Vienna," University of California-San Diego November 1994; and University of Notre Dame, October 1996.
18. "Nonwestern Influences on Early Greek Astronomy," Calvin College Science Departments, 7 March 1997.
19. "Regiomontanus and Homocentric Astronomy," International Union for the History and Philosophy of Science, Liège, Belgium, 24 July 1997.
20. "Astrological Consulting in Late-Medieval Vienna," German Historical Institute, Washington, D.C., 19 September 1997.
21. "Student Life In and Out of the Lecture Hall in Late Medieval Vienna, with special attention to the teaching of astronomy," Loyola University, 17 April 1998.
22. "Piero della Francesca's 'Flagellation of Christ: A Historiographical Critique and Reinterpretation" Department of Art History, University of Iowa, 8 April 1998.
23. "The Biagioli Affair," Department of History, University of Iowa, 9 April 1998.
- 24-26. "Regiomontanus on the Astronomer's Role in the Fifteenth Century," Northwestern University, 19 February 1999; Indiana University, 5 March 1999; University of California-San Diego, 1 June 1999.
27. "The Astronomical Context of Piero della Francesca's 'Flagellation of Christ,'" University of Notre Dame Workshop in the History of Astronomy, 3 July 1999.
28. "Goldsteinian Themes in Regiomontanus's 'Defense of Theon against George of Trebizond'," Pittsburgh, History of Science Society Meeting, 6 November 1999 (session in honor of Bernard R. Goldstein).
- 29-30. "Latin Astronomy from Roger Bacon to Regiomontanus" and "The Astronomical Context of Piero della Francesca's 'Flagellation of Christ,'" University of New Mexico, 25 April 2000.
31. "Could It Really Be Science That Far Back? The Case of the Babylonians," Junior Science, Engineering, and Humanities Fair, Madison, Wisconsin, 2 March 2001.
32. "Setting the Scene: Tuscany, the Veneto and Rome in the Age of Galileo," University of Notre Dame Galileo Conference, 18 April 2002.
33. The Scientific Revolution in Multicultural Perspective, University of Oklahoma, 9-10 April 2003 and the Newberry Library, November 1, 2003.
34. "Galileo, Italian Politics, and Astrology," History of Science Colloquium, UW-Madison, 28 January 2004.
35. "Models and Machines in European Astronomy, 1300-1700," European Science Foundation Workshop. Mechanics and Cosmology, Istituto e Museo di Storia della Scienza, Florence, 25-27 November 2004.

36. "Before the Revolution: Fifteenth-Century European Astronomy in Context," Conference on The Forgotten Fifteenth Century, Max-Planck-Institut für Wissenschaftsgeschichte, Berlin, 13-16 January 2005.
37. "Preparing Copernicus: Regiomontanus's Fifteenth-Century Critique of Astronomy," Distinguished Faculty Lectures (Focus on the Humanities), University of Wisconsin-Madison, 9 March 2005.
38. "The Faces of Saturn: Images and Texts to 1650", INSAP V, The Adler Planetarium, Chicago, 29 June 2005.
39. "The Place of Regiomontanus in the Copernican Revolution," Centro di Ricerca Matematica Ennio de Giorgi, Scuola Normale Superiore, Pisa, Italy, 6-7 December 2005.
40. "Regiomontanus as a Physical Astronomer," Second International Conference of the European History of Science Society, Krakow, 6-9 September.
41. "Rough Edges: Raptus and the Medieval Disturbances of the Celestial-Terrestrial Boundary," European Science Foundation Workshop. Mechanics and Cosmology, Max-Planck Institut für Wissenschaftsgeschichte, Berlin, 8-10 November 2006.
42. "Astronomy in Quattrocento Italy," Before Copernicus Workshop, Max-Planck Institut für Wissenschaftsgeschichte, Berlin, 12-14 December 2006.
43. "Latin Astronomy in the Fifteenth Century" and "Regiomontanus" Before Copernicus Workshop, Max-Planck Institut für Wissenschaftsgeschichte, Berlin, 6-8 August 2007.
44. "Myth: That the Medieval Church Repressed Science", Templeton Foundation Conference on Myths in Science and Religion, Green College, University of British Columbia, Vancouver, B. C., 24-26 August 2007.
45. "The Interaction of Natural Philosophy and Mathematics in Late-Medieval Astronomy," European Science Foundation Workshop. Mechanics and Cosmology, Granada, 18-20 October 2007.
46. "Setting Up Copernicus? Francesco Capuano da Manfredonia's Expositio on the Sphere of Sacrobosco," American Philosophical Association, Eastern Division (Philadelphia, 30 December 2008)—sponsored by the Société Internationale pour l'Étude de la Philosophie Médiévale.
- 47-50. "Astrology and Politics in the Galileo Affair," University of Michigan, 12 February 2009; DePauw University, 18 March 2009; UW Space Place, 8 September 2009; The Johns Hopkins University, 17 September 2009.
51. "Cross-Cultural Aspects of Pre-Copernican Astronomy," (keynote) Vatican Observatory Summer School, Sassone, Italy, 22 June 2009.
52. "The Galilei, Father and Son," Madison Early Music Festival, 12 July 2009.
53. "Galileo, Mover and Shaker," Astronomy Department, Board of Visitors Event at American Players Theater, Spring Green, Wisconsin, 20 July 2009.
54. "In the Wake of Bessarion's Greek *Almagest*: The Circulation of Ptolemy in the Fifteenth Century," Conference "Between Orient and Occident --- Transformation of Knowledge", Deutsches Museum, Munich, 7 November 2009.
55. "How the Context of Copernicus is Changing our Image of Him," Conference "The Jews and the Science of the Stars," Bar-Ilan University (Ramat Gan), 2-4 February 2010.

- 56-57. "Academic Debate in Late-medieval Vienna: Gleanings from the miscellany of Johannes Bremis (d. 1389) in Vienna, ÖNB 4371" and "The Problem of the Fifteenth Century for the Histories of the University and Science," Center for Medieval Studies, University of Stockholm, 3-4 May 2010.
58. Center for Medieval Studies and SLUUMM Project of the University of Stockholm), Berlin Workshop, Berlin, 27 May 2010.
59. "The Mercury Diagrams of Regiomontanus's *Disputationes*," for the workshop "The Production and Function of Astronomical Images, 1450-1650", Cambridge University, 25-26 June 2010.

Selected Professional Activities

History of Science Society, Council, 2002-2004
 History of Science Society, Committee on Meetings and Programs, 2002-2004
 National Science Foundation, Science, Technology and Society panelist, 2002
 Advisory Editor, *Isis*, 1997-1999
 Publications Committee, History of Science Society, 1994-1995; Chair, 1995.
 Associate Editor for Book Reviews, *Isis* (The Journal of the History of Science Society), 1989-1993 [edited some 1500 reviews; some 1800 pages in print]
 Contributor, *AHA Guide to Historical Literature* (Oxford University Press, 1995)--
 Scientific Revolution
 Past referee for the National Endowment for the Humanities, National Science Foundation, Fonds zur Förderung der Wissenschaftlichen Forschung, Princeton University Press, Yale University Press, Oxford University Press, Cambridge University Press, University of Chicago Press, Hackett Publishing, Polity Press, *Isis*, *Journal of the History of Biology*, *Journal for the History of Astronomy*, *Journal of the History of Ideas*, *History*, *Archiv für Geschichte der Philosophie*

Ph. D. Dissertations Advised

Alison Sandman (2001)
 Ralph Drayton (2001)
 Tomomi Kinukawa (2001)
 Jonathan Seitz (2006)
 Frederick Gibbs (2009)
 Current student: Scott Trigg

Professional Societies

Société Internationale pour l'Étude de la Philosophie Médiévale (SIEPM)--elected
 International Astronomical Union--History of Astronomy Division--elected
 History of Science Society
 Medieval Academy of America
 Renaissance Society of America

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