

Michael H. Shank
Curriculum vitae

History of Science Dept
7143 Social Science Building
1180 Observatory Drive
Madison, WI 53706
608-262-3972
Fax: 608-262-3984

Home
2410 Chamberlain Ave.
Madison WI 53726
608-233-0679
email: mhshank@wisc.edu

Born in Goshen, Indiana, 13 December 1949
Married to Carol J. Troyer, 27 May 1972
Daughters Maria (b. 7 May 1980) and Laura (b. 7 November 1986)

Academic Positions

University of Wisconsin-Madison

1998-present: Professor of the History of Science (also Integrated Liberal Studies).
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 and 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.
Universität Wien, 1979-1981.
A.M., History of Science, Harvard University, 1978.
M.A., History and Philosophy of Science, University of Notre Dame, 1975.
Associated Mennonite Biblical Seminaries, 1971-1972.
B.A., Physics with honors, Goshen College, 1971.
Diploma, Latin-Greek curriculum, Athénée Royal de Rixensart, Belgium, 1967.

Selected Professional Activities

History of Science Society, Council, 2002-2004
History of Science Society, Committee on Meetings and Programs, 2002-2004
National Science Foundation Panel, 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 ca. 1500 reviews; ca. 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 (also panelist), Princeton University Press, Yale University Press, Oxford University Press, Cambridge University Press, University of Chicago Press, Hackett Publishing, *Isis*, *Journal of the History of Biology*, *Journal of the History of Ideas*, *History. Archiv für Geschichte der Philosophie*

Grants and Honors

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, Summer 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 David C. Lindberg), *The Cambridge History of Science*, vol. 2: *The Middle Ages* (New York: Cambridge University Press, 2008?).

Articles and Essay Reviews

1. "Academic Benefices and German Universities during the Great Schism: Three Letters from Johannes von 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 "Peuerbach," "Regiomontanus," and "Universities" in Thomas Glick, Steven Livesey, and Faith Wallis, eds., *Medieval Science, Technology and Medicine: An Encyclopedia* (London: Routledge, 2007) in press.
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. Articles "Henry of Langenstein," "Regiomontanus" *Oxford Dictionary of the Middle Ages* (in press).
26. "The Faces of Saturn" (INSAP V, in press?) in Marvin Bolt, ed., --submitted, no news
27. "Astronomia tra corte e università," in *Il Rinascimento italiano e l'Europa*, vol. 5: *Le scienze*, Antonio Clericuzio and Germana Ernst, eds. (Vicenza: Angelo Colla, 2007), in press.
28. "Regiomontanus," *New Dictionary of Scientific Biography* (2007), in press.
29. "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.

Approaching completion:

- "Regiomontanus on the Astronomer's Role in the Fifteenth Century"
(tentative title): *The Biography of an Astronomical Dialogue: The Text, Context, and Fate of Regiomontanus's Disputationes (1464, 1475)* – no publisher yet.
- (tentative title), co-edited with Ronald Numbers, *Wrestling with Nature* (in negotiation).
- "Piero della Francesca's 'Flagellation of Christ': A Historiographical Critique and Interpretation"
(two-part article turning into a book; originally intended for the *Journal of the Warburg and Courtauld Institutes*).
- "Regiomontanus, Printer of his Own *Disputationes* (ca. 1475)" (intended for the *Papers of the Bibliographical Society of America*).
- "The White-Vine Initials from Regiomontanus's Nuremberg Press," (intended for the *Papers of the Bibliographical Society of America*)

Other Works in Progress

- Regiomontanus's "Defense of Theon against George of Trebizond" – transcription and edition of a 573-page St. Petersburg autograph manuscript
- Website on the above in collaboration with Richard L. Kremer (Dartmouth College)
- Around the Trial of Galileo* (book manuscript in preparation)
- Why Copernicus?* A cross-cultural introduction to pre-Copernican astronomy based on my lectures for ILS 271
- With Peter Harrison and Ronald Numbers, eds., *Wrestling with Nature* (edited collection)
- The Bremis Notebook in Vienna, ÖNB lat. 4371 (edition of and introduction to a crucial text for understanding the medieval disputation).
- "The Enigmatic Annular (?) Eclipse of 1433."
- Henry of Langenstein, *Tractatus de dici de omni* (critical edition).
- "Scholar and Craftsman in Seventeenth-Century Holland: The Astronomer-Cobbler Dirk Rembrandtz van Nierop (d. 1683)."
- "Mennonites and Natural Science," article solicited by *Mennonite Quarterly Review*.

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 Paucens 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 editoriale e Poligrafici internazionali, 2000); and Tommaso Campanella, *Lettere, 1595-1638*, ed. Germana Ernst (Pisa/Rome: Istituti editoriale 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. C. Palmerino and JMMH 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 Medievalia Septentrionalia, 12), (Vienna: Fassbaender, 2006) for the *Journal for the History of Astronomy* 37 (2008), pp. (in press)
35. George Saliba
36. Gaukroger for *Renaissance Quarterly*
37. David King on Piero, for the *Journal for the History of Astronomy* 37 (2008),

Translations from the French:

- Madeleine Barthélemy-Madaule, *Lamarck the Mythical Precursor: A Study of the Relations Between Science and Ideology* (Cambridge, Mass.: The MIT Press, 1982).
- Jean Séguy, "Religion and Agricultural Success: The Vocational Life of the French Anabaptists from the Seventeenth to the Nineteenth Centuries," *Mennonite Quarterly Review* 47 (1973) 179-224.

André Trocmé, *Jesus and the Non-Violent Revolution* (Scottsdale, Penn.: Herald Press, 1973).

10/10/07