

Publications

Books

Engineering the Eternal City: Infrastructure, Topography, and the Culture of Knowledge in Late Sixteenth-Century Rome (Chicago: University of Chicago, 2018)

Artisan/Practitioners and the Rise of New Sciences, 1400-1600 (Corvallis, OR: Oregon State University Press, 2011)

(Co-edited and co-authored with David McGee and Alan M. Stahl), *The Book of Michael of Rhodes: A Fifteenth-Century Maritime Manuscript*, 3 vols. (Cambridge, MA: MIT Press, 2009) **[Eugene S. Ferguson Prize from the Society for the History of Technology; J. Franklin Jameson Prize awarded by the American Historical Association]**

(With Brian Curran, Anthony Grafton, and Benjamin Weiss) *Obelisk: A History* (Cambridge, MA: MIT Press, 2009)

Openness, Secrecy, Authorship: Technical Arts and the Culture of Knowledge from Antiquity to the Renaissance (Baltimore: Johns Hopkins University Press, 2001) **[Morris D. Forkosch Prize for the best book in intellectual history published in 2001 awarded by the *Journal of the History of Ideas*]**

Technology, Society and Culture in Late Medieval and Renaissance Europe, 1300-1600 (Washington, D.C.: Society for the History of Technology, and American Historical Association, 2000), 75 page booklet

Technology and Society in the Medieval Centuries: Byzantium, Islam and the West, 500-1300 (Washington, D.C.: Society for the History of Technology, and American Historical Association, 2003)

[Editor] *Science and Technology in Medieval Society*, Annals of the New York Academy of Sciences, vol. 441 (New York, 1985)

Translation

(With Chiara Bariviera), *An English Translation of Agostino Steuco's De Aqua Virgine in Urbem revocanda* (Lyon: Gryphius, 1547) [On Bringing Back the Acqua Vergine to Rome] In Katherine W. Rinne, ed. *The Waters of Rome*, <http://www3.iath.virginia.edu/waters/first.html>

Articles

"Trading Zones in Early Modern Europe," Karel Davids, ed., "Focus: The Relationships between Economic History, the History of Science, and the History of Technology" *Isis* 106 (December

2015): 840-847.

(with Andrew Morrall), "Craft and Technology in Renaissance Europe," in Gordon Campbell, ed. *Oxford Illustrated History of the Renaissance* (Oxford: Oxford University Press, forthcoming).

"Multi-Tasking 'Pre-Professional' Architect/Engineers and other Bricologic Practitioners as Key Figures in the Elision of Boundaries between Practice and Learning in Sixteenth-Century Europe: Some Roman Examples," in Matteo Valleriani, ed. *Structures of Practical Knowledge* (Dordrecht: Springer, 2017), 223-246.

"Architecture and the Sciences," In Alina Payne, ed., *The Companion to Renaissance Architecture* (Malden, MA: Wiley-Blackwell, 2017), 191-219.

"Science and Technology," In Bruce R. Smith, ed. *The Cambridge Guide to the Worlds of Shakespeare*, Vol. 1: *Shakespeare's World, 1500-1660* (Cambridge: Cambridge University Press, 2015), 247-257.

"Trading Zones: Arenas of Exchange during the Late-Medieval/Early Modern Transition to the New Empirical Sciences," *History of Technology* 31 (2012): 5-25.

"Technological Transmission in China and Europe: A Comparative View," in *Cultures of Knowledge: Technology in Premodern China*, edited by Dagmar Schäfer (Leiden: Brill Academic Publisher, 2011), 77-86.

"The Craft of Premodern European History of Technology: Past and Future Practice," *Technology and Culture* 51 (July 2010): 698-714.

"Engineering, Patronage, and the Authorship of Practice in Early Counter-Reformation Rome," in *Conflicting Duties: Science, Medicine, and Religion in Rome, 1550-1750*, ed. M. P. Donato and J. Krayer (London: Warburg Institute, 2009), 9-34.

"Hydraulic Engineering and the Study of Antiquity: Rome: 1557-1570," *Renaissance Quarterly* 61(2008): 1098-1138.

"Picturing the Machine: Francesco di Giorgio and Leonardo da Vinci in the 1490s" in *Picturing Machines, 1400-1700*, ed. Wolfgang Lefèvre (Cambridge, Mass.: MIT Press, 2004), 117-141.

"The Cultural Uses of Invention in Early Modern Europe" in *Les Chemins de la nouveauté: Innover, inventer au regard de l'histoire*, ed. Liliane Hilaire-Pérez and Anne-Françoise Garçon (Paris: Comité des Travaux Historiques et Scientifiques, 2003), 293-311.

"Objects of Art/Objects of Nature: Visual Representation and the Investigation of Nature" in *Merchants and Marvels: Commerce, Science and Art in Early Modern Europe*, ed. Pamela H. Smith and Paula Findlen (New York: Routledge, 2001), 63-82.

“Invention, Secrecy, Theft: Meaning and Context in Late Medieval Technical Transmission,” *History and Technology* 16 (2000): 223-241.

"Openness and Empiricism: Values and Meaning in Early Architectural Writings and in Seventeenth-Century Experimental Philosophy" in *The Architecture of Science*, ed. Peter Galison and Emily Thompson (Cambridge: MIT Press, 1999), 79-103.

"Power, Patronage, and the Authorship of *Ars*: From Mechanical Know-How to Mechanical Knowledge in the Last Scribal Age," *Isis* 88 (March 1997): 1-41 Reprinted in Michael H. Shank, ed., *The Scientific Enterprise in Antiquity and the Middle Ages* (Chicago: University of Chicago Press, 2000): 394-435.

(Co-authored with Alex Roland) "Military Secrecy in Antiquity and Early Medieval Europe: A Critical Reassessment," *History and Technology* 11 (1994): 259-290.

"Invention, Authorship, 'Intellectual Property,' and the Origin of Patents: Notes toward a Conceptual History," *Technology and Culture* 32 (October 1991): 846-884.

"The Openness of Knowledge: An Ideal and its Context in 16th-Century Writings on Mining and Metallurgy," *Technology and Culture* 32 (April 1991): 318-355.

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[Chinese version: Chinese reader in the history of science, sponsored by the Max Planck Institute for the History of Science and the History of Science Society]

"Humanism and Science" in *Renaissance Humanism: Its Sources, Forms and Legacy*, 3 vols., ed. A. Rabil, Jr. (Philadelphia: University of Pennsylvania Press, 1988), 3: 486-512.

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Essays and Essay Reviews

Essay on lecture series by Anthony Grafton, “Past Belief: Visions of Early Christianity in Renaissance and Reformation Europe,” in Elizabeth Cropper, ed. *A.W. Mellon Lectures in the Fine Arts: Fifty Years* (Washington: National Gallery of Art, forthcoming).

“Bern Dibner’s Way of Collecting and Its Importance for Scholars,” in Lilla Vekerdy, ed. *The Era of Experiments and the Age of Wander: Scientific Expansion from the Seventeenth to the Nineteenth Centuries* (Washington, D.C.: Smithsonian Institution Scholarly Press, 2015), 61-64.

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Essay Review: "Culture and Machines in Renaissance Europe." Review of Jonathan Sawday, *Engines of the Imagination: Renaissance Culture and the Rise of the Machine* (London: Routledge, 2007) in *Early Science and Medicine* 14 (2009): 549-554.

"On the Cover: Michael of Rhodes: A Fifteenth-Century Mariner and his Book," *Technology and Culture* 50 (January 2009): 103-109.

Essay Review: "Plants and Animals in History: The Study of Nature in Renaissance and Early Modern Europe," *Historical Studies in the Natural Sciences* 38 (Spring 2008): 313-323.

Essay Review: "Huguenots, Chairs, and the Occult Philosophy." Review of Neil Kamil, *Fortress of the Soul: Violence, Metaphysics, and Material Life in the Huguenots' New World, 1517-1571* (Baltimore: Johns Hopkins University Press, 2005). *Isis* 99 (March 2008): 149-153.

"On Being an Independent Historian," *History of Science Society Newsletter* 37 (January 2008).

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[Seven volume work of which this is a part, winner of the Sally Hacker Prize for the best book in the history of technology directed to a broad audience of readers.]

"Classics Revisited: The *Annales* and the History of Technology," *Technology and Culture* 46 (January 2005): 177-186.

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Leonardo da Vinci, "Legacy." BBC Open University web site — www.open2.net/Leonardo/ — Click on "The Experts View," then "Legacy."

“Categories, disciplines, and values of transmission: A retrospective essay on *Openness, Secrecy, Authorship*,” *Intellectual News* 10 (Spring 2002): 62-69.

“Arsenali, miniere e botteghe” in *Storia della scienza*, 10 vols., ed. Sandro Petruccioli, vol. 5: La rivoluzione scientifica, (Rome: Istituto della Enciclopedia Italiana, 2001-2002): 223-241.

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Book and Exhibit Reviews (excluding essay reviews)

Michael Winthrop, *The Voyage of Thought: Navigating Knowledge across the Sixteenth Century World* (Cambridge: Cambridge University Press, 2017) in *Isis* (forthcoming).

Peter Fane-Saunders, *Pliny the Elder and the Emergence of Renaissance Architecture* (Cambridge: Cambridge University Press, 2016) in *Journal of Roman Studies* 108 (November 2018): 282-284.

Sven Dupré, Sachiko Kusakawa, and Karin Leonhard, eds., *Early Modern Color Worlds* (Leiden: Brill, 2016) in *Renaissance Quarterly* 70 (Winter 2017): 1520-1522.

Simone Testa, *Italian Academies and their Networks, 1525-1700: From Local to Global* (Basingstoke: Palgrave, 2015) in *Isis* 108 (December 2017): 899.

[Exhibit Review: “Decoding the Renaissance: 500 Years of Codes and Ciphers,” Folger Shakespeare Library, Washington, D.C. Nov. 11, 2014 –February 26, 2015 in *SHARP* [Society for the History of Authorship, Reading, and Publishing] *News* (2015).

Jack Goody, *Metals, Culture and Capitalism: An Essay on the Origins of the Modern World* (Cambridge: Cambridge University Press, 2012) in *Journal of World History* 26 (March 2015): 167-169.

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Dagmar Schäfer, *The Crafting of the 10,000 Things: Knowledge and Technology in Seventeenth-Century China* (Chicago: University of Chicago Press, 2011) in *Metascience* 21 (March 2012) (online publication), and 22 (2013): 177-180.

Angelo Cattaneo, *Fra Mauro's Mappa Mundi and Fifteenth-Century Venice* (Turnhout, Belgium: Brepols, 2011) in *Isis* 103 (June 2012): 397-398.

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Cesare S. Maffioli, *La via delle acque (1500-1700): Appropriazione delle arti e trasformazione delle matematiche* (Florence: Leo S. Olschki, 2010) in *Early Science and Medicine* 16.6 (2011): 614-616.

William Eamon, *The Professor of Secrets: Mystery, Medicine, and Italy* (Washington, D.C.: National Geographic Press, 2010) in *Bulletin of the History of Medicine* 85 (Fall 2011): 500-502.

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Mario Biagioli, *Galileo's Instruments of Credit: Telescopes, Images, Secrecy* (Chicago: University of Chicago Press, 2006) in *American Historical Review* 112 (June 2007): 947-948.

Gerhild Scholz Williams, *Ways of Knowing in Early Modern Germany: Johannes Praetorius as a Witness to his Time* (Aldershot, Hants: Ashgate Publishing, 2006) in *Renaissance Quarterly* 60 (Spring 2007): 218-219.

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William R. Newman and Lawrence M. Principe, *Alchemy Tried in the Fire: Starkey Boyle, and the Fate of Helmountain Chemistry* (Chicago: University of Chicago Press, 2002) in *Renaissance Quarterly* 57 (Spring 2004): 308-310.

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