



Lewis Pyenson

Career Summary

Lewis Pyenson is Professor Emeritus in the Department of History of Western Michigan University. He is the author of books about mathematics and physics in Germany and a trilogy about the exact sciences in the imperial experience of Germany, the Netherlands, and France during the nineteenth and twentieth centuries. He coauthored a survey of the history of science, *Servants of Nature* (New York: Norton, 1999), reviewed in the *New Yorker* (17 May 1999) and the *London Times* (29 April 1999). His book, *The Passion of George Sarton* (Philadelphia: American Philosophical Society, 2007), examines how an early twentieth-century marriage related to the formation of an academic discipline (history of science). His pseudonymous novel *True Jacob* (Kalamazoo: Fair Oaks, 2009) received favorable review in the flagship history-of-science journal ("True Jacob: A Novel," *Isis*, 102 [2011], 282-83). His most recent book is *The Shock of Recognition: Motifs of Modern Art and Science* (Leiden: Brill, 2021).

Pyenson taught at Université de Montréal from 1973 to 1995, advancing from lecturer to Professor of History. During this time, he organized conferences and used archives in the New World, Europe, Asia, and the Pacific; he directed 4 doctoral dissertations (plus one co-direction) and 12 M.A. theses. Notable conferences where he spoke include the First Meeting of the Society for the Social Studies of Science (Ithaca), the Ninth International Conference on General Relativity and Gravitation (Jena), the Conference on Scientific Colonialism (Melbourne), the

Sixteenth International Congress of History of Science (Bucharest), the founding Congress of the Latin American Society of the History of Science and Technology (Puebla), the first Conference on the History of Physics of the European Physical Society (Pavia), the Fourth International Colloquium on Sinology (Chantilly), New Trends in the History of Science (Utrecht), the eightieth anniversary of the Junta para la Ampliación de Estudios e Investigaciones Científicas (Madrid), the Eighteenth International Congress of History of Science (Hamburg/Munich), Sciences and Empires (CNRS/UNESCO, Paris), and the Fiftieth Anniversary of UNESCO Conference on the History of Science (Paris). He received the Herbert C. Pollock Award of the Dudley Observatory (Schenectady) in 1986. Recipient of a number of federal Canadian research grants, in 1989-1991 he was named a Killam Senior Fellow of the Canada Council of Arts. In 1994 he was elected Fellow of the Royal Society of Canada.

From 1995 to 2001 he was Graduate Dean at University of Louisiana at Lafayette (Université des Acadiens), where he supervised doctoral production to maintain the university's Carnegie status and stimulated research activity by organizing internal publications and events. He saw the inception of doctoral programs in Francophone Studies and Cognitive Science, and the closure of a doctoral program in Statistics. He chaired the Conference of Southern Graduate Schools and sat on its prize committee. Moving to the faculty from 2001 to 2006, he was Professor of History with cross-appointments in Francophone Studies, Mathematics, Physics, and Computer Sciences.

During 11 years in Louisiana, he spoke at the United Nations/European Space Agency Workshop on Basic Space Science (Córdoba, Argentina), the Seventh International History Colloquium, Universidad de Navarra (Pamplona), the Fifth European Colloquium on Ethnopharmacology (Valencia), the International Colloquium on Emile Masson (Pontivy, France), and the Twenty-Second International Congress of History of Science (Beijing). He was elected to the Phi Beta Delta and Phi Kappa Phi honor societies and named Honorary Member of the Arbeitskreis Geschichte Geophysik und kosmische Physik, Germany. He received the Silver Award of the University and College Design Association for his edited book, *Fortiter, Feliciter, Fideliter: The Centennial Lectures of the Graduate School of the University of Southwestern Louisiana* (renamed the University of Louisiana at Lafayette in 1999), and the Award for Outstanding Achievement in Research of the Canadian Museums Association for his two co-edited books. *The Art of Teaching Physics: The Eighteenth Century Demonstration Apparatus of Jean Antoine Nollet/ L'art d'enseigner la physique: Les appareils de démonstration de Jean-Antoine Nollet (1700-1770)* (Sillery, Quebec: Septentrion for the David M. Stewart Museum, 2002). He was given the Richard G. Neiheisel Phi Beta Kappa Award in Arts and Sciences (University of Southwestern Louisiana). In 1996, he was Suntory Lecturer in Japan (universities of Tokyo, Tohoku, Kyoto, and Tokai) and in 2005 held the George Sarton Chair at Ghent University, Belgium. Also in 2005, he received for a second time the Herbert C. Pollock Award of the Dudley Observatory and was elected Corresponding Member of the International Academy of the History of Science. In 2001-2004, he sat on the Konrad Adenauer Award Committee, Royal Society of Canada.

In 2006 Pyenson became Graduate Dean at Western Michigan University, which position he held until 2010 under 3 presidents and 4 provosts. There he focused on recruitment and

retention of students, on faculty morale, and generally on procedures and standards. He supervised the university's participation in the National Academies' *Data-Based Assessment of Research-Doctorate Programs* (Washington DC: National Academies Press, 2011). Conference lectures during this time were delivered at: Analogous Spaces: Architecture and the Space of Information, Intellect and Action (Ghent), Science and the Colonies around 1808 (Royal Netherlands Academy of Sciences), 150th Anniversary Conference on Henri Pirenne (Brussels/Ghent), Empires of Science in the Long Nineteenth Century (Huntington Library), Travels and Scientific Expeditions in Latin America (Centro Franco-Argentino de Altos Estudios de la Universidad de Buenos Aires), and A Mathematician's Journeys: Otto Neugebauer between History and Practice of the Exact Sciences (New York). He sat on the Habilitation jury of Pascal Crozet in Paris (Dr Crozet is now *directeur de recherches*, CNRS, Paris).

Pyenson returned to the faculty in 2011 as Professor of History. Among his notable conference lectures beginning in 2011 were those at the Forty-Sixth International Congress on Medieval Studies (Kalamazoo), Thinking Shadows: The Art of Memory and Morphogenesis of Ideal Entities (Bologna), the Transatlantic Studies Association (Ghent), the Sixth Annual Conference of the History of the Humanities (Oxford), European Society for the History of Science (London), Seeking a New Conception of Science: The Future of Scientific Culture in East Asia (Chubu University, Japan), and the Seventh World Congress and School on Universal Logic (Orthodox Academy of Crete, Greece). He sat on the doctoral committee of Joris Mercelis at Ghent (Dr Mercelis is now Assistant Professor of History of Science and Technology, Johns Hopkins University).

In the year that he became Professor Emeritus, 2020, the non-profit, open-access search engine **exaly** finds that across his lifetime Pyenson is the most published author in *Isis* (History of Science Society) and in the British historiographical journal *History of Science*, and the third-most cited author in the latter (<https://exaly.com/author/9636130/lewis-pyenson/rankings>). He continues to direct a doctoral dissertation at Western Michigan University about sugar engineers in the Colonial Atlantic World.

December 2022

Lewis Pyenson

Narrative of Publications

Lewis Pyenson is Professor Emeritus in the Department of History of Western Michigan University. He is the author of books about mathematics and physics in Germany and a trilogy about the exact sciences in the imperial experience of Germany, the Netherlands, and France during the nineteenth and twentieth centuries. He coauthored a survey of the history of science, *Servants of Nature*. His scholarly book, *The Passion of George Sarton*, examines how an early twentieth-century marriage related to the formation of an academic discipline. His most recent book is *The Shock of Recognition: Motifs of Modern Art and Science* (Leiden: Brill, 2021).

The trilogy appeared over the course of nine years: *Civilizing Mission: Exact Sciences and French Overseas Expansion, 1830-1940* (The John Hopkins University Press, Baltimore and London 1993); *Empire of Reason: Exact Sciences in Indonesia, 1840-1940* (E.J. Brill, Leiden 1989); and *Cultural Imperialism and Exact Sciences: German Expansion Overseas 1900-1930* (Peter Lang, New York 1985). It generated a great deal of interest from the time that the project took shape in the 1970s (Pyenson, "The Incomplete Transmission of a European Image: Physics at Greater Buenos Aires and Montreal, 1890-1920," *Proceedings of the American Philosophical Society*, 122 [1978], 92-114). One of his conclusions, that the exact sciences in the nineteenth and early twentieth centuries did not change form in the overseas ambits of the European imperialist powers, gave rise to an unprovoked attack and a disagreeable exchange in *Isis* (Pyenson's reply: "Cultural Imperialism and Exact Sciences Revisited," *Isis*, 84 [1993], 103-108). But even these severe critics did not challenge the typology of scientist-imperialists that he discovered, and the verdict of a large number of balanced assessments of his enterprise is favorable. Four reviews, from many score more, indicate the impact of the trilogy. Anne Rasmussen, historian at the University of Strasbourg, wrote in 1998 after the appearance of the third, French volume that "the pioneering and sustained work of L. Pyenson...retain a prominent, distinctive interpretation." The third volume's "great merit" is "to reveal many figures in full [who are] traced in a mass of biographical sources." It "describes very well the terms of the social contract that connect scientists to the empire." Lewis Pyenson was "the first to have risked a synthesis about French colonial science and to have proposed a working interpretation still unequalled." (Rasmussen in *Annales: Histoire, Sciences Sociales*, 53 [1998], 1001-1003). Patrick Petitjean, an authority on science and colonization in the CNRS (Paris), looking forward to more work devoted to the descriptive sciences in the French empire, wrote that the third volume "is the first systematic book about French colonial sciences," and it shows that colonial science is "far more important than previously reported from historians of colonization as well as from historians of science and technology." (Petitjean in *Annals of Science*, 52 (1995), 187-192). Australian social anthropologist Clive Kessler, in a long commentary on the second, Dutch volume, emphasized the subtlety of the argument:

Not a conspiracy, then, nor even an impersonal, structurally induced convergence of diverse influences all working broadly in the same direction, cultural imperialism for Pyenson is rather the outcome of the untidy, even inchoate, clash of a variety of forces of variable strengths pulling unevenly in different directions and varying over time in salience and also in their clarity of articulation.

Kessler continued: “The agenda of Dutch colonial scientific endeavor explored by Pyenson was an impressive one, international in its horizons and in the recognition its distinctions earned.” He perceived Pyenson’s contention that science and imperialism could be understood

By recourse to...Michel Foucault’s ideas on the shaping of power by, and its immanence in, scientific and disciplinary discourses; and Clifford Geertz’s arguments that, far from emerging from any pre-existing ‘givens’ of power, simply to rationalize and ratify its purposes, culture enters into the very shaping, and is thus constitutive, of power itself.

(Kessler, “Colonial Science and the Creation of a Postcolonial Scientific Tradition in Indonesia,” *Akademika: Journal of Southeast Asia Social Sciences and Humanities* [Universiti Kebangsaan Malaysia Press], 37 [December 1990], 91-105). And the historian of medicine José María López Piñero, reviewing Pyenson’s work in connection with linguistic imperialism in Europe, wrote that “assimilating with care the explanations and the conclusions of Pyenson’s works about scientific imperialism will be of significant benefit for studies of scientific activity in Spain.” (López Piñero, “El imperialismo científico,” *Saber/Leer* [Madrid], no. 81 [January 1995], p. 12).

The general work written with Susan Sheets-Pyenson, *Servants of Nature: A History of Scientific Institutions, Enterprises, and Sensibilities* (HarperCollins, London/W. W. Norton, New York 1999), also received favorable comment from an unusually broad spectrum of reviewers. In one of its very few reviews of a book in history of science, the *New Yorker* (17 May 1999, p. 91) commented: “The book’s inclusiveness helps us recognize not only how science affects everything, from daily life to government budgets, but also the way we think about everything, from politics to poetry.” The literary reviewer Peter Ackroyd finds that “One of the strengths of this volume, in fact, is the extent to which it illuminates how science alters according to the country or culture in which it is practiced.” (Ackroyd in *London Times*, 29 April 1999). In 2012 sociologist Steve Fuller reviewed the second volume of Peter Burke’s *Social History of Knowledge*, comparing it to *Servants of Nature*, “a work of similar scope and vintage” with “a more overtly philosophical and specifically Marxist flavor.” Fuller elaborated: “The Pyensons are mainly interested in the materiality of knowledge as an ideological conduit,” concluding “on the worry that the often violent modes of domination through which science advances is breeding an ideological backlash that may soon undermine the enterprise [sic].” (Fuller in *Journal of Global History*, 7 [2012], 534). No Marxist, the dean of US historians of science Charles C. Gillispie emphasized a decade earlier: “Their introduction is a masterly brief survey of the evolution of historiography of science from Comte to postmodernism, about which they are severe, justly in my view.” About the work in general, “the most appealing feature is the deftness with which they handle a comparative approach, selecting both the common features and the distinctive differences in the cultivation of science throughout the ages in Europe, the Orient, India, and Islam.” It is a “masterly and wide-ranging...book, conceived in an altogether original manner, carried off with verve and dignity, and mercifully free of jargon and methodology.” (Gillispie in *Annals of Science*, 59 [2002], 409-412). The stern critic Paula Findlen devoted four pages to rehabilitating postmodernist scholarship and informing a reader about themes that she would have preferred to see, but she concluded that the book is “a valuable contribution to the general history of science.” (Findlen in *Isis*, 91 [2000], 117-120).

Pyenson’s scholarly publications divide into four groups: a) historiography; b) history of modern exact sciences; c) science beyond Europe; d) art and science in Modernity.

a) *Historiography*. He has contributed regularly to historiography since his early publication, “‘Who the Guys Were’: Prosopography in the History of Science,” *History of Science*, 15 (1977), 155-188. More recently is *The Passion of George Sarton: A Modern Marriage and Its Discipline* (American Philosophical Society, Philadelphia 2007). Following the appearance of the book, Sartonian themes were elaborated with Christophe Verbruggen: Sarton’s close connection with Nobel-laureate Henri La Fontaine (Pyenson and Verbruggen, “Ego and the International: The Modernist Circle of George Sarton,” *Isis*, 100 [2009], 60-78); his relationship with historian Henri Pirenne (Pyenson and Verbruggen, “Elements of the Modernist Creed in Henri Pirenne and George Sarton,” *History of Science*, 49 [2011], 377-394); and Sarton’s key role in the foundation of the worldview of the controversial Belgian first minister Hendrik De Man (Verbruggen and Pyenson, “History and the History of Science in the Work of Hendrik De Man,” *Belgisch Tijdschrift voor Nieuwste Geschiedenis*, 41 [2011], 487-511). Recently he collaborated with Chinese scholars examining the surprisingly similar sensibilities of George Sarton and the linguist and musicologist Yuen Ren Chao: Dian Zeng, Jian Yang, and L. Pyenson. “Compatible Humanists: Yuen Ren Chao Meets George Sarton,” *Isis*, 110 (2019), 742-753. With Roshdi Rashed, he looked into Otto Neugebauer as a historian (Rashed and Pyenson, “Otto Neugebauer, Historian,” *History of Science*, 50 [2012], 402-431). He wrote about the Enola Gay controversy at the National Air and Space Museum (Washington, DC) for Japanese readers: Pyenson, “Western Wind: The Atomic Bomb in American Memory,” *Historia Scientiarum*, 6, no. 3 (1997), 231-241. He has lectured on Mabel Sarton as a talented designer-entrepreneur. His interaction with the late woman of letters, May Sarton, is described in her last writings (May Sarton, *Selected Letters, 1955-1995*, ed. Susan Sherman [Norton, New York 2002]). He has recently published “Sobre o Estilo na História Intelectual,” *Khronos, Revista de História da Ciência* (São Paulo), nº 14 (January 2023), 1-43, translated and introduced by Gildo Magalhães dos Santos Filho: <https://www.revistas.usp.br/khronos/article/view/207935/191245>

b) *History of modern exact sciences*. Pyenson’s study *The Young Einstein: The Advent of Relativity* (Adam Hilger, Bristol and Boston 1985) appeared several years before the first volume of the *Collected Papers of Albert Einstein*. Since then, a small army of editors combing through the details of Einstein’s early life have corrected and amplified his observations. The book continues to be cited with approval by dispassionate scholars (recently Herbert Hunziker, “Albert Einstein’s Magic Mountain: An Aarau Education,” *Physics in Perspective*, 17 [2015], 55-69), and by the general reading public, notably in the book’s revised Spanish translation; an older favorable review is by Jorge Calado in *Times Literary Supplement*, 14 March 1986, p. 283. Pyenson’s first short book, *Neohumanism and the Persistence of Pure Mathematics in Wilhelmian Germany*, is also still cited; early favorable reviews of it: Herbert Mehrtens, *Annals of Science*, 43 (1986), 200-201; David Vampola, *Kos* (Milan, Italy), 1 (September 1984), 21-22; Bernhard vom Brocke, “Die Gelehrten,” *Das Historisch-Politische Buch*, 31 October 1983, pp. 305-308. He carried out a systematic prosopography of doctoral students across the human and natural sciences in L. Pyenson and Douglas Skopp. “Educating Physicists in Germany circa 1900,” *Social Studies of Science*, 7 (1977), 329-366. In “The Relativity Revolution in Germany,” in *The Comparative Reception of Relativity*, Thomas Glick, ed. (Boston/Dordrecht: Reidel, 1987), pp. 59-111, he compares the French Revolution to the early reception of relativity in Germany, and he shows how Max Planck encouraged his doctoral students to address Einstein’s work.

c) *Science beyond Europe*. Older essays on science beyond Europe continue to receive attention: Pyenson, “Macondo científico: Instituciones científicas en América Latina a principios del siglo XX,” in *La Junta para Ampliación de Estudios e Investigaciones Científicas 80 años después*, ed. José

Manuel Sánchez Ron, 2 vols; (Consejo Superior de Investigaciones Científicas, Madrid 1988), *I*, 229-249; Pyenson, "Pure Learning and Political Economy: Science and European Expansion in the Age of Imperialism," in *New Trends in the History of Science*, ed. R. P. W. Visser, H. J. M. Bos, L. C. Palm, and H. A. M. Snelders (Rodopi, Amsterdam 1989), pp. 209-278; Pyenson, "Why Science May Serve Political Ends: Cultural Imperialism and the Mission to Civilize," *Berichte zur Wissenschaftsgeschichte*, 13 (1990), 69-81; Pyenson, "The Ideology of Western Rationality: History of Science and the European Civilizing Mission," *Science and Education*, 2 (1993), 329-343. More recently, he has revealed the surprisingly sophisticated curriculum of science at the University of Córdoba, Argentina, early in the nineteenth century, before the renovations of Domingo Faustino Sarmiento, and the equally sophisticated network of nineteenth-century printers and publishers in Argentina: Pyenson, trans. Gastón Sironi, "Ciencia en Córdoba en el siglo diecinueve," in *Universidad Nacional de Córdoba. Cuatrocientos años de historia*, ed. Daniel Saur and Alicia Servetto (2 vols; Editorial de la Universidad Nacional de Córdoba, Córdoba, Argentina 2013), *I*: 251-281 (see: Mariana Mendoza, "Antes de Sarmiento se enseñaba ciencia en la Universidad," <http://www.unciencia.unc.edu.ar/2012/mayo-1/antes-de-sarmiento>); and he has examined the role of scientists in the Argentine war against autochtones in Patagonia and in George Armstrong Custer's war against Native Americans: Pyenson, "Athena's Retinue: Nineteenth-Century Scientists Embedded in the Army," *British Journal for the History of Science*, 45 [2012], 377-400). Also notable: Pyenson and Milan Singh. "Physics on the Periphery: A World Survey, 1920-1929," *Scientometrics*, 6 (1984), 279-306.

d) *Art and science in Modernity*. Over recent decades he has studied how art relates to science in Modernity. A number of articles have appeared: "The Enlightened Image of Nature in the Dutch East Indies: Consequences of Postmodernist Doctrine for Broad Structures and Intimate Life," *Historical Studies in the Natural Sciences*, 41 (2011), 1-40; "The Einstein-Picasso Question: Neo-Idealist Abstraction in the Decorative Arts and Manufactures," *Historical Studies in the Natural Sciences*, 43 (2013), 281-333; "Sculpture in the Belle Epoque: Mathematics, Art, and Apparitions in School and Gallery," in *Being Modern: The Cultural Impact of Science in the Early Twentieth Century*, ed. Robert Bud, Paul Greenhalgh, Frank James, and Morag Shiach (UCL Press, London 2018), 188-206. His comprehensive treatment is *The Shock of Recognition: Motifs of Modern Art and Science* (Leiden: Brill, 2021), 668 pp., summarized in: "Science in History and Beyond," *ChemTexts*, 7, no. 1 (2021), 1-7, and reviewed by José Emilio Burucúa in *Prismas: Revista de historia intelectual* (Universidad Nacional de Quilmes, Argentina), no. 26 (2022), 285-86. In connection with this enterprise, he has been casting life-sized bronze busts and welding iron sculpture (Pyenson, "Realization in Arts and Sciences," *Leonardo*, 50, no. 2 [April 2017], 217-19). As part of an engagement with the arts generally, under the pseudonym Tom Sriver he wrote a novel, which became one of the few works of fiction reviewed favorably by *Isis* (Diane Greco Josefowicz, "True Jacob: A Novel," *Isis*, 102 [2011], 282-283). A collection on eighteenth-century physics in both French and English versions has also appeared: Pyenson and Jean-François Gauvin, ed., *The Art of Teaching Physics: The Eighteenth Century Demonstration Apparatus of Jean Antoine Nollet* [Sillery, Quebec: Septentrion, for the David M. Stewart Museum, 2002], reviewed by David Bryden in *Bulletin of the Scientific Instrument Society*, no. 77 [June 2003], 40-41.

Beyond these thematic areas, Pyenson has edited and co-edited a large number of volumes: specialized collections of articles, notably three co-edited volumes, with Russell McCormmach and R. Steven Turner, of *Historical Studies in the Physical Sciences* (The Johns Hopkins University Press, Baltimore 1977-79); collections for the general scholarly public, notably in his capacity as

Graduate Dean at the University of Louisiana at Lafayette (1995-2001); a translation from Polish (Leopold Infeld, trans. Helen Infeld, ed. Pyenson, *Why I Left Canada* [McGill-Queen's University Press, Montreal 1978], reviewed by Mark Kac, *Science*, 6 April 1979, pp. 49-50).

His occasional writings have appeared in a variety of periodicals: Pyenson, "Technology's Triumph Over Science," *Chronicle [of Higher Education] Review*, 6 March 2011, pp. B4-B5); Nicholas D. Pyenson and L. Pyenson, "Treating Medieval Manuscripts as Fossils," *Science*, 309 [2005], 698-699); Pyenson, "Without Feathers," *Lingua Franca*, vol. 9, no. 4 [May-June 1999], pp. 5, 73; Bruce Draine, John Greenly, David Garland, and L. Pyenson, "Supersonic Boom," *New Republic*, 156, 7 (18 February 1967), pp. 35 ff. His reviews have appeared in a wide range of vehicles.

February 2023

Lewis Pyenson

List of Publications

A. Contributions to Periodicals.	9
B. Books and Parts of Books.	19
C. Other Publications.	25

A.1. ISI (Web of Knowledge, before Clarivate) periodicals (articles [A], reviews [R], letters [L], notes [N], proceedings papers [P])

130. Pyenson, L. "The Second Physicist: On the History of Theoretical Physics in Germany," *Isis*, 113 (2022), 194-196. R
129. Pyenson, L. "Science in History and Beyond," *ChemTexts*, 7, no. 1 (2021), 1-7. A
128. Haubold, Hans J., Arak M. Mathai, and L. Pyenson. "Space Science and Technology Education, Teaching, Research," *Space Policy*, 53 (2020), Article Number: 101384. A
127. Zeng, Dian, Jian Yang, and L. Pyenson. "Compatible Humanists: Yuen Ren Chao Meets George Sarton," *Isis*, 110 (2019), 742-753. A
126. Pyenson, L. "Natures in Translation," *Isis*, 109 (2018), 405-406. R
125. Pyenson, L. "Realization in Arts and Sciences," *Leonardo*, 50, no. 2 (April 2017), 217-219. A
124. Pyenson, L. "Great Scientists Wage the Great War" *Journal of Military History*, 80 (2016), 573-575. R
123. Pyenson, L. "War of Guns and Mathematics," *Journal of Military History*, 80 (2016), 573-575. R
122. Pyenson, L. "Race, Science, and the Nation," *American Historical Review*, 119 (2014), 1368-1370. R
121. Pyenson, L. "Uncovering the Germanic Past," *American Historical Review*, 119 (2014), 1368-1370. R
120. Pyenson, L. "The Einstein-Picasso Question: Neo-Idealist Abstraction in the Decorative Arts and Manufactures," *Historical Studies in the Natural Sciences*, 43 (2013), 281-333. A
119. Rashed, Roshdi, and L. Pyenson. "Otto Neugebauer, Historian," *History of Science*, 50 (2012), 402-431. A
118. Pyenson, L. "The Colonial Machine," *American Historical Review*, 117 (2012), 1671-1672. R
117. Pyenson, L. "Athena's Retinue: Nineteenth-Century Scientists Embedded in the Army," *British Journal for the History of Science*, 45 (2012), 377-400. A
116. Pyenson, L. "From Man to Ape: Darwinism in Argentina, 1870-1920," *Journal of Interdisciplinary History*, 42, (2012), 487-489. R

115. Pyenson, L. "El Desierto en una vitrina: Museos e historia natural en la Argentina, 1810-1890," *Journal of Interdisciplinary History*, 42 (2012), 487-489. R
114. Pyenson, L. "Science: A Four-Thousand Year History," *Isis*, 102 (2011), 744-745. R
113. Pyenson, L., and Christophe Verbruggen. "Elements of the Modernist Creed in Henri Pirenne and George Sarton," *History of Science*, 49 (2011), 377-394. A
112. Verbruggen, Christophe, and L. Pyenson. "History and the History of Science in the Work of Hendrik De Man," *Belgisch Tijdschrift voor Nieuwste Geschiedenis*, 41 (2011), 487-511. A
111. Pyenson, L. "Archibald Liversidge, FRS," *Ambix*, 58 (2011), 177-8. R
110. Pyenson, L. "Indology, Indomania, and Orientalism," *American Historical Review*, 116 (2011), 529. R
109. Pyenson, L. "The Enlightened Image of Nature in the Dutch East Indies: Consequences of Postmodernist Doctrine for Broad Structures and Intimate Life," *Historical Studies in the Natural Sciences*, 41 (2011), 1-40. A
108. Pyenson, L. "Cracking the Einstein Code," *Journal of Interdisciplinary History*, 41 (2010), 274-276. R
107. Pyenson, L. "Beyond Borders: Fresh Perspectives in History of Science," *British Journal for the History of Science*, 42 (2009), 299-301. R
106. Pyenson, L., and Christophe Verbruggen. "Ego and the International: The Modernist Circle of George Sarton," *Isis*, 100 (2009), 60-78. A
105. Pyenson, L. "Einstein on Politics: His Private Thoughts and Public Stands on Nationalism, Zionism, War, Peace, and the Bomb," *Isis*, 99 (2008), 432-434. R
104. Pyenson, L. "Forward into the Past," *Studies in the History and Philosophy of Science A* 39 (2008), 211-219. A
103. Pyenson, L. "Physical Sense in Relativity: Max Planck Edits the *Annalen der Physik*, 1906-1918," *Annalen der Physik*, 17 (2008), 176-189. A [See B.2.3c]
102. Pyenson, L. "Reply," *Isis*, 98 (2007), 800. L
101. Pyenson, L. "Editor's Foreword," *Historical Studies in the Physical and Biological Sciences*, 37 (2007), 189-204. A
100. Pyenson, L. "Centre and Periphery Revisited: The Structures of European Science, 1750-1914," *British Journal for the History of Science*, 39 (2006): 122-123. R
99. Pyenson, L. "The Collected Papers of Albert Einstein, Vol 7: The Berlin Years: Writings, 1918-1921 [German]," *Isis*, 97 (2006), 766-767. R

98. Pyenson, L. "The Collected Papers of Albert Einstein, Vol 7: The Berlin Years: Writings, 1918-1921," [English] *Isis*, 97 (2006), 766-767. R
97. Pyenson, L. "Drawing Theories Apart: The Dispersion of Feynman Diagrams in Postwar Physics," *Annals of Science*, 63 (2006), 363-370. R
96. Pyenson, L. "Statistical Mind in a Pre-Statistical Era: The Netherlands 1750-1850," *Annals of Science* 62 (2005), 275-276. R
95. Pyenson, Nicholas D., and L. Pyenson. "Treating Medieval Manuscripts as Fossils," *Science*, 309 (2005), 698-699. L
94. Pyenson, L. "Science and the City," *Urban History Review-Revue d'Histoire Urbaine*, 33 (2004), 63-64. R
93. Pyenson, L. "The Burden and the Promise of Scientific Research in Difficult Times," *Astrophysics and Space Science*, 290 (2004), 463-471. A
92. Pyenson, L. "From Newton to Hawking: A History of Cambridge University's Lucasian Professors of Mathematics," *Nature*, 428 (2004), 258-260. R
91. Pyenson, L. "The Measure of the World: A Novel," *Isis*, 94 (2003), 127-128. R
90. Pyenson, L. "Einstein's Daughter: The Search for Lieserl," *Isis*, 94 (2003), 159-161. R
89. Pyenson, L. "Einstein: The Formative Years, 1879-1909," *Isis*, 94 (2003), 159-161. R
88. Pyenson, L. "Measuring America: How an Untamed Wilderness Shaped the United States and Fulfilled the Promise of Democracy," *Nature*, 421 (2003), 211-212. R
87. Pyenson, L. "The Measure of all Things: The Seven-Year Odyssey and Hidden Error that Transformed the World." *Nature*, 421 (2003), 211-212. R
86. Pyenson, L. "Uses of Cultural History: Karl Lamprecht in Argentina," *Proceedings of the American Philosophical Society*, 146 (2002), 235-255. A
85. Pyenson, L. "An End to National Science: The Meaning and the Extension of Local Knowledge," *History of Science*, 40 (2002), 251-290. A
- 84a, 84b. a. Pyenson, L. "Comparative History of Science," *History of Science*, 40 (2002), 1-33. A
b. Italian translation: *Storiografia*, 8 (2004), 147-77.
83. Pyenson, L. "A History of Science in the Netherlands: Survey, Themes and Reference," *Annals of Science*, 59 (2002), 97-98. R
82. Pyenson, L. "Quantum Generations: A History of Physics in the Twentieth Century," *Technology and Culture*, 42 (2001), 373-375. R
81. Pyenson, L. "Einstein in Love: A Scientific Romance," *Nature*, 409 (2001), 766-767. R

80. Pyenson, L. "The Egypt Expedition, an Undertaking in the Age of Enlightenment 1798-1801," *Annals of Science*, 58 (2001), 107-109. R
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