

THOMAS F. GLICK

Born Cleveland, Ohio, January 28, 1939

Department of History

Boston University

Boston, MA 02215

Telephone: (617) 353-8319

Fax: (617) 353-2556

E-mail: tglick@bu.edu

Website: www.bu.edu/history/glick

132 Brook Street

Holliston, MA 01746

(508) 429-2158

(508) 429-3830

Education:

Harvard University B.A. 1960 (History and Science)

Columbia University M.A. 1963 (Arabic)

Harvard University Ph.D. 1968 (History)

Teaching Positions:

Assistant Professor of History, University of Texas, 1968-71; Associate Professor, 1971-72; Associate Professor of History and Geography, Boston University, 1972-79; Professor, 1979- ; Professor of Gastronomy, Metropolitan College, Boston University, 2005- . Visiting Professor of the History of Science, University of Valencia, Spring 1980; Visiting Professor of the History of Technology, Polytechnic University of Valencia, Spring 1980; Fulbright Senior Lecturer, University of the Republic, Montevideo, Uruguay, April-May 1988; Fulbright Senior Lecturer, University of the Republic, Montevideo, Uruguay, April-May 1990.

Other Professional Activities:

Chairman, Department of History, Boston University, 1984-89, 1994-95; 2004; Director, Institute for Medieval History, Boston University, 1998-2003; Acting Director, American and New England Studies Program, Boston University, 1986-87; Vice-President, New England Medieval Conference, 1998-1999; president, 1999-2000. President, Northeast Chapter, Society for the Preservation of Old Mills, 1997- 2008; Treasurer, 2009- ; Honorary president, Centre Alcoià d'Estudis Històrics i Arqueològics (named 2011).

Revised Mar 25, 2012

JOURNALS

Medieval Encounters, Book Review Editor (2011-); *Darwin Online*, Editorial Advisory Panel (2008-); *Estudios sobre la Ciencia* (Madrid), Editorial Advisory Board (2008-); *Journal of Medieval Iberian Studies*, Editorial Board, (2007-); *Asclepio: Revista de Historia de la Medicina y de la Ciencia*, Editorial Board (2006--); *Epistème: Filosofia e História das Ciências em Revista* (Porto Alegre, Brazil) Editorial Board (1996-); *Quaderns d'Història de l'Enginyeria* (Barcelona), Editorial Board (1996-); *Boston Studies in the Philosophy of Science*, Advisory Board (1992-2010), Editorial Board (2011-); Advisory Board, *Journal of Catalan Intellectual History* (2011-); *Quipu: Revista Latinoamericana de Historia de las Ciencias y la Tecnología* (Mexico City), Editorial Board (1996- 2000); *Isis*, Advisory Editor (1995-97); *Llull: Revista de la Sociedad Española de Historia de las Ciencias*, Editorial Board (1981-94), North American Book Review Editor; *Taller d'Història* (Valencia), Editorial Board (1993-95); *Latin American Research Review*, Assistant Editor, 1968-69; Associate Editor, 1969-72; Advisory Editor, 1973-74; *Newsletter of the Society for Spanish and Portuguese Historical Studies*, Editor, 1969-72.

GRANTS, FELLOWSHIPS, PRIZES

Woodrow Wilson Fellow, 1961-62
 National Defense Language Fellow (Arabic), 1962-63
 Social Science Research Council, 1965-66; 1970-71
 Post-Doctoral Fellow in History, University of Texas, 1967-68
 American Council of Learned Societies, 1974-75
 American Psychoanalytical Association, 1979 (travel grant)
 Rockefeller Archives Research Grant, 1987
 American Philosophical Society Research Grant, 1987
 Serra d'Or Prize for Catalan Studies, 1987
 Guggenheim Fellowship, 1987-88
 Fulbright Senior Lectureship, University of the Republic, Montevideo, Uruguay,
 April-May 1988, April-May 1990
 National Science Foundation Grant, 1989-90
 National Endowment for the Humanities Grant, 1993-94
 Dibner Institute Senior Fellow, 2000-2001
 Norman MacColl Lecturer, Cambridge University, November 2000
 Premio Internacional Geocrítica, 2004
 Medalla Académica de la Sociedad Mexicana de Historia de la Ciencia, 2006
 Hacker Prize (Society for the History of Technology), 2008
 Who's Who in America, 2009, 2010, 2011, 2012, 2013
 Laureate Medal, Graduate College, Western Michigan University, 2009

Honorary Judge, Tribunal of Waters, Valencia, 2010
 Honorary Doctorate, University of Valencia, 2010
 Walter Prescott Webb Essay Prize, 2012

MEMBER

Reial Acadèmia de Bones Lletres de Barcelona, Corresponding Member (elected 1991)
 The Linnean Society, Fellow (elected 2008)
 Centre Alcoià d'Estudis Històrics i Arqueològics, Honorary Member
 History of Science Society
 Society for the History of Technology
 Society for Spanish and Portuguese Historical Studies
 Conference of Latin American Historians
 Sociedad Española de Historia de la Ciencia
 Societat Catalana d'Història de la Ciència
 Sociedad Mexicana de Historia de la Ciencia (Honorary Member)
 Society for the Preservation of Old Mills (President, Northeast Chapter, 1997-)

INVITED LECTURES SINCE 1990

1. "Observations on the Comparative Reception of Darwinism," Department of Biology Colloquium, Earlham College, Richmond, Indiana, February 19, 1990.
2. "Darwin and Darwinism in Latin America," Jornada Darwiniana, Universidade Estatal de Campinas, Campinas, Brazil, March 16, 1990.
3. "Darwin and America," Program in Social Anthropology, Universidade Federal do Rio Grande do Sul, March 29, 1990.
4. "Edison: Myth and Reality," Cátedra Alicia Goyena, Montevideo, Uruguay, May 4, 1990.
5. "The Reception of Psychoanalysis: An Historical Approach," Cátedra Alicia Goyena, Montevideo, May 7, 1990.
6. "Darwinism in Uruguay," Casa de la Cultura, Minas, Uruguay, May 9, 1990.
7. "Hydraulic Politics on the Alcoi River: The Regional Context of Medieval Irrigation," The Year of Tirant lo Blanc, Gandía, October 5, 1990

8. "The Rockefeller Foundation in Spain: The Assessment of Laboratories and the Culture of Scarcity," History of Science Society, Seattle, October 27, 1990.
9. "History of Irrigation and Hydraulic Technology," 10 hour graduate seminar, Department of the History of Science, University of Valencia, June 1991.
10. "Establishing Scientific Disciplines in Latin America: Genetics in Brazil, 1943-1960," International Conference on Science, Discovery and Colonial World, Madrid, June 26, 1991.
11. "The Diffusion of Irrigation Systems from Spain to the New World," El Nuevo Mundo y los Procesos de Difusión de la Ciencia y la Técnica Durante el Período Colonial," Universidad Internacional Menéndez y Pelayo, Valencia, September 12, 1991.
12. "Berbers in Valencia: The Case of Irrigation," Medieval Spain in the Western Mediterranean: A Conference in Honor of Robert I. Burns, S. J., Los Angeles, October 25, 1991.
13. "The Rockefeller Foundation and Brazilian Genetics," Science, Philanthropy and Latin America, Rockefeller Archive Center, North Tarrytown, NY, November 15, 1991.
14. "Columbus and his World," The Italian Historical Society of Massachusetts, Cambridge, November 21, 1991.
15. "Irrigation and Hydraulic Technology in Islamic Spain: Methodological Considerations," Fifth International Symposium on the History of Arabic Science, Granada, April 1, 1992.
16. "The Reception of Darwinism in Spain and in Valencia," Faculty of Biological Sciences, University of Valencia, June 8, 1992.
17. "Conflict among Irrigation Communities: An Historical Approach," First Program on Problems of Water Management in the Mediterranean Area, Callosa d'en Sarrià, Alicante, June 19, 1992.
18. "The Scientific World of the Spanish Jews," America 92: Roots and Trajectories, São Paulo, August 20, 1992; Rio de Janeiro, August 25.
19. "Observations on the Ethnicity of Marranos," Crisis and Creativity in the Sephardic World, 1391-1648, Jewish Theological Seminary, New York, November 11, 1992.
20. "Comparative Dimensions in the History of Science," II Trobades d'Història de la Ciència i de la Tècnica als Països Catalans, Peñíscola, December 8, 1992.

21. "The Transition from Roman to Islamic Spain: History and Archeology of Cultural Change," Center for the Study of Islamic Societies and Civilizations, Washington University, St. Louis, March 3, 1993.
22. "Miquel Crusafont and George Gaylord Simpson The Teilhardian Moment in Catalan Paleontology," Paleontological Institute, Sabadell, September 7, 1993.
23. "How to Study an Irrigation System," Societat Lul.liana d'Arqueología, Palma de Mallorca, October 13, 1993.
24. "Before and After Al-Andalus: Two Cultural Transitions," Conference on Islamic Spain, King Abd Al-Aziz Public Library, Riyadh, Saudi Arabia, November 2, 1993.
25. "Marranos and Moriscos as Agents of Technological Diffusion," Colloquium, Instituto de Estudios Arabes, CSIC, Madrid, April 4, 1994.
26. "The Reception of Darwin in Latin America," University of North Carolina at Wilmington, April 21, 1994.
27. "Toledo, Capital of Medieval Science," Toledo: Heritage and Future, A Symposium, Real Colegio Complutense, Harvard University, October 10, 1994.
28. "The Scientific Perspective on Aging in the times of Charles A. Stephens," Norway Historical Society, Norway, Maine, October 18, 1994
29. "The Reception of Psychoanalysis in the United States," Centro de Estudios Norteamericanos, Universidad de Alcalá de Henares, Casa de América, Madrid, November 29, 1994.
30. "The Letter of Toledo and the Toletan Tables: A Chapter in Medieval Political Astrology," Department of the History of Science, Centro de Estudios Históricos, Madrid, November 30, 1994.
31. "Scientific Relations Between Spain and the United States," Residencia de Estudiantes, Madrid, December 1, 1994.
32. "Darwin and the Cattlemen," IV Congress, Latin American Society for the History of Science and Technology, Cali, Colombia, January 24-26, 1995.
33. "Precursors of Psychoanalysis in Latin America," IV Congress, Latin American Society for the History of Science and Technology, Cali, Colombia, January 24-26, 1995.
34. "Scientific Banquets: On the Rituals of Legitimization of Disciplines and Ideas," Boston Colloquium for the Philosophy of Science, Boston, April 11, 1995.

35. "Transformations of Agrarian Structures and Rural Society in Medieval Valencia, Casa de Velázquez/Ministry of Agriculture, Madrid, April 12, 1996.
36. "Reading the Repartimientos: The Organization of Rural Space in the Aftermath of the Conquest of Al-Andalus," Department of Medieval History, University of Zaragoza/Institución Fernando el Católico, Zaragoza, April 15, 1996.
37. "Conversion to Islam and Paleoandalusi Society," Homenaje a Pierre Guichard, Granada, Spain, May 9, 1996.
38. "From Al-Andalus to the Hispanic Kingdoms: Feudalized and Non-Feudalized Water Systems," Homenaje a Pierre Guichard, Valencia, May 14, 1996.
39. "Technology in Fifteenth-Century Valencia," Civitas Europa, Valencia, November 9, 1996.
40. "The Mills of the Huerta of Valencia: History and Cultural Preservation," University of Valencia, March 1997.
41. "Scientific and Popular Receptions of Darwin, Freud and Einstein: Towards an Analytical History of the Diffusion of Scientific Ideas," Colloquium: The Reception of Darwinism in Iberoamerica: A Comparative Analysis, Cancún, Mexico, November 1997.
42. "An Idea of Diffusion," Comparative History in the Life Sciences, Boston Colloquium for the Philosophy of Science, February 12, 1998.
43. "The Preservation of Valencian Water Mills: A Cultural Priority," Conservation and Restauration of the Valencian Historical Patrimony: The *Molí dels Frares* and the Battle of Salses, Universidad Internacional Menéndez Pelayo, Valencia, March 11, 1998.
44. "Valencian Water Mills: Elements of our Historical Patrimony," Round Table, Association of Friends of Valencian Mills, March 11, 1998.
45. "Water Mills: Past, Present and Future," Seminar on Rural History, University of Valencia, March 12, 1998.
46. "On the Influence of Haeckel in Brazil: Emilio Goeldi and Recapitulation," V Congress, Latin American Society for the History of Science and Technology, Rio de Janeiro, Brazil, July 31, 1998.
47. "Vicente Giner Boira and the Valencian Culture Wars of the Post-Franco Era," "Santangel 98," Dominican University, Oak Park, Illinois, August 25, 1998.
48. "Einstein's Public Persona: Between Physics and Cultural Politics," Institut d'Estudis Catalans, Barcelona, November 19, 1998.

49. "The Agricultural Landscape of Islamic Spain," Program in Medieval Studies, Brown University, March 4, 1999.
50. "Valencian Mills of the Fifteenth Century: Between Feudalism and Commercialism," Seminar in Medieval History, Autonomous University of Barcelona, March 9, 1999.
51. "The Agricultural Landscape of Islamic Spain," Scenes and Seasons: The Medieval Landscape, Pennsylvania State University, April 10, 1999.
52. "Oasis Agriculture and Cultural Diffusion in the Muslim World: The Palm Grove of Elche," III Congreso de Fenicultura, Elche, November 15, 1999.
53. "The Letter of Toledo," New England Medieval Conference, Boston University, December, 1999.
54. "Fritz Muller and the Reception of Darwinism in Brazil," Dibner Institute for the History of Science, Cambridge, Mass., November 7, 2000.
55. "Sexual Reform, Psychoanalysis, and the Politics of Divorce in Spain, 1918-1936," International Colloquium on the Comparative Analysis of the Activities and Politics of the World League for Sexual Reform, Clare College, Cambridge, November 17, 2000.
56. "All Over but the Shouting: Darwin, Freud and Einstein in Spain," The Norman MacColl Lecture, Department of Spanish and Portuguese, New Hall College, Cambridge University, November 22, 2000.
57. "Millers and Bakers in Fifteenth-Century Valenica: The Life and Litigious Times of Jaume Perfeta," Colloquium on Medieval Spanish Studies, Trinity Hall, Cambridge, November 24, 2000.
58. "Transfer of Technology to Al-Andalus: Two Important Packages," España, Nuevo Milenio, Madrid, December 2000.
59. "Scientific Translations from Arabic to Latin and Hebrew in Medieval Spain," University of New Mexico, March 21, 2001.
60. "What New Mexican Acequias Owe to Spanish and Islamic Irrigation Systems," Taos Valley Acequia Association, Taos, March 23, 2001
61. "Hydraulic Archeology of Islamic Spain: Miquel Barceló and his School," Archeology of the Medieval Mediterranean, International Congress on Medieval Studies, Kalamazoo, May 4, 2001.

62. “Privileged Observers: Muslims, Water Rights, and Irrigation in Medieval Valencian Litigation,” Symposium on Muslim Minorities and Royal Justice in the Crown of Aragon, Institute for Medieval History, Boston University, May 13, 2001.
63. “‘Thin Hegemony’ and Consensual Communities in the Medieval Crown of Aragón,” Symposium on Feudalism, Museum of the History of the City of Barcelona, February 2002.
64. “Marañón, Intersexuality and the Biological Construction of Gender in 1920s Spain,” Symposium on Alternative Discourses in Early 20th Century Spain, Clare College, Cambridge, May 2002.
65. “A Comparative Perspective on Medieval Scientific Translation Movements: The Invention of ‘Hebrew Science’,” Boston Colloquium for the Philosophy of Science, Boston, March 1, 2004.
66. “Mills and Millers in Medieval Valencia,” Penn State University, March 2004.
67. “The Last Diffusionist,” Barcelona, May 28, 2004.
68. “Miquel Crusafont and the Introduction of the Synthetic Theory of Evolution in Spain,” Darwin Symposium, Manaus, Brazil, October 2004.
69. “Jews and Berbers Revisited,” Conference on “Negotiating Medieval Frontiers,” Ithaca, Cornell University, November 2004.
70. “Autonomous Irrigation Communities in Late Medieval Valencia,” Medieval Academy of America. Miami. April 2, 2005.
71. “Einstein: Three Years, Three Places (Zurich 1905, Barcelona 1923, {Princeton 1949}”. Address on the 50th Anniversary of Einstein’s Death, Saló de Cent, City Hall of Barcelona, April 18, 2005.
72. “Why was Einstein Famous?” Faculty of Physics, University of Valencia. April 21, 2005.
73. “Every Average Woman You Know: Ramon Serrano Vicens, Kinsey, and Female Sexuality in Franco Spain, “Disciplining Discourses,” Cambridge, England, May 24, 2005.
74. “How the West Was Won. The Tool-kit of Eastern Agriculture in the Western Mediterranean World, 8th-13th Centuries.” European Science Foundation, Earth Program, Team 3 (Historical Landscapes) Meeting, Menorca, October 28, 2005.

75. "The Comparative Reception of Scientific Ideas," Tübingen University, December 10, 2006.

76. "Periods without Chronology." British Academy symposium on "Uses of Periodization: Beyond Positivist History," Prague, October 7, 2006
77. "Teihardian Evolutionists in Catholic Spain," New Approaches to Science and Religion, Göttingen University, June 30, 2006.
78. "Historical Status and Present Meaning of Historic Hydraulic Landscapes: Oases," First International Congress on Oases and Sustainable Tourism, Elche (Spain), December 15, 2006.
79. "Spanish Rights Litigation in American Water Law," Forum de Debats, University of Valencia, December 19, 2006.
80. "Darwinism and the Vatican, 1877-1902: Did the Church Have a Policy?," Program in the History and Philosophy of Science, Notre Dame University, March 9, 2007.
81. "The Medieval Arab World as an Axis of the Diffusion of Science and Technology," Saló de Cròniques, City Hall, Barcelona, April 11, 2007.
82. "Josep Millàs i Vallicrosa: Some Memories and Comments," Institut d'Estudis Catalans, Barcelona, April 13, 2007.
83. "The Economic Culture of Shtetl Jews in Romania, 1907-1914," European Studies Seminar Series, Boston University, October 2, 2007.
84. "Mariano Artigas and Catholic Evolutionism," Pontificia Università della Santa Croce, Rome, December 5, 2007.
85. "The Comparative Reception of Darwinism," Pontificia Università della Santa Croce, Rome, December 7, 2007.
86. "Slicing the Pie: The Reception of Darwinism at the Subnational Level," Darwin Industries, Inc., Aarhus University, Aarhus, Denmark, February 7, 2008.
87. "The Plaintiff's Briefs in *State of Texas vs. Vamont Plantations*: The Emergence of the Historical Doctrine of Spanish Water Rights," Texas State Historical Association, Corpus Christi, March 6, 2008.
88. "All Over but the Shouting: Darwin, Freud and Einstein in Spain," University of Colorado, April 11, 2008
89. 'Reception of Darwin: Protestants and Catholics,' Colloquium on Charles Darwin in Europe, Christ's College, Cambridge, 26 February 2009.

90. ‘El pensamiento de Darwin en Galicia. El pensamiento evolutiva en N6voa Santos,’ University of Santiago de Compostela, Lugo campus, 3 March 2009; Santiago campus, 5 March 2009
91. ‘The Reception of Darwinism by the Brazilian Intelligentsia,’ The Reception of Darwinism: Transcultural Differences, Boston Colloquium for the Philosophy of Science, Boston, 3 April 2009.
92. ‘The Early Reception of Darwin in Boston: Bostonian Visitors to Down House,’ Boston University British Programmes, London, 6 May 2009.
92. ‘Teilhard de Chardin’s Undetected Selectionism,’ Metaphysics, Ontology and the Science-Religion Debates: A Workshop in Memory of Professor Mariano Artigas, Thomas More Institute, London, 9 May 2009.
93. ‘The Early Reception of the *Origin of Species* in Boston,’ The Reception of Darwinism at the Subnational Level: Cities,” XXIII International Congress of History of Science and Technology, Budapest, 28 July 2009.
94. ‘Darwin, His Illness, His Wife and Her Cookbook,’ Round the Table with Darwin, Universitat Oberta de Catalunya, Barcelona, 9 September 2009.
95. ‘“So Permanent a Breath:”: Darwin, Lyell, Hooker and the Problem of “Transportal”,’ International Symposium on Islands and Evolution, Port Mahon, Menorca, 17 September 2009.
96. ‘Darwinism in the Islamic World in the Context of the Comparative Reception of Darwinism,’ Darwinism and Evolution in the Muslim World, Hampshire College, Amherst, 2 October 2009.
97. ‘The Early Reception of the “Origin of Species” in England and the United States,” Western Michigan University, 6 October 2009.
98. ‘Medieval Scientific Translation Movements: A Comparative Perspective,’ Western Michigan University, 7 October 2009.
99. ‘Information Transfer in Islamic Spain: How Ancient Science Came to Western Europe,’ Plenary Lecture, Mediterranean Editors and Translators, Barcelona, 31 October 2009.
100. ‘Darwinism and Religion in Three Traditions: John Zahm (Roman Catholic), William Louis Poteat (Protestant), Mohammed Abduh (Muslim),’ Darwin’s Living Legacy, Bibliotheca Alexandrina, Alexandria, Egypt, 16 November 2009.

101. ‘Institutions as “Technology: Arab Tribal-Style Irrigation in the Canary Islands and Texas,’ *La conquista sin fin: Al-Andalus y las Américas*, La Alhambra, Granada, 29 January 2010.
102. “The Early Abbasid Translations of Ancient Science: A Comparative Perspective,” Department of History, King Saud University, Riyadh, 6 March 2010.
103. “Everyday Science and Technology in the Early Islamic World,” Faculty of Sciences, King Saud University, Riyadh, 9 March 2010.
104. “The Arab Impact on Spanish Culture: Technology, Landscape and Everyday Life,” Faculty of Arts, King Saud University, Riyadh, 10 March 2010.
105. “Unamuno’s Hair Shirt: The 1909 Darwin Centennial in Valencia,” *The Cultural Impact of Darwin and Darwinism in Europe*, Clare Hall, Cambridge, UK, 12 March 2010.
106. “The Transmission of Arabic Science in Latin and Hebrew in Medieval Spain,” History Department Medieval Seminar, Harvard University, March 31, 2010.
107. “Irrigation in Medieval Spain,” Escuela de Agrónomos, Universitat Politècnica de Valencia, 26 May 2010.
108. “Darwin by Telegraph: Newspaper Coverage of Darwin’s Death (1882) and the Scopes Trial (1925) in Spain, Uruguay and the United States,” *Darwin in Communication*, Chinese Society for the History of Science and Technology, Beijing, 26 August 2010.
109. “What do Spanish Irrigation Systems Owe to the Arabs, Really?” *III Congrès d’Estudis de l’Horta Nord*, Valencia, 10 February 2011.
110. “Aeronautics, Aviation and Modernity in Spain: Emilio Herrera, Relativity and the Eclipse of 1905,” *Science, Technology and Spanish Culture, 1900-1936*, University of Kentucky, Lexington, 3 March 2011.
111. “The Medieval Islamic World as an Axis of the Diffusion of Science and Technology,” *Medieval Encounters: Cultures in Contact, Convergence and Conflict*, University of New Mexico, 11 April 2011.
112. “What do New Mexican Acequias Owe to the Arabs, Really?” *Medieval Encounters: Cultures in Contact, Convergence and Conflict*, University of New Mexico, 13 April 2011.

THOMAS F. GLICK
PUBLICATIONS

1. BOOKS AND MONOGRAPHS

Irrigation and Society in Medieval Valencia. Cambridge, Mass., Harvard University Press, 1970. Spanish version: *Regadío y sociedad en la Valencia medieval*. Valencia, Del Cenia al Segura, 1988; 2nd ed., Biblioteca Valenciana, 2003.

The Old World Background of the Irrigation System of San Antonio, Texas. El Paso, Texas Western Press, 1972.

Spanish version, *Los antecedentes en el viejo mundo del sistema de irrigación de San Antonio, Texas*. Granada: University of Granada Press, 2010. Abridged in *Los cuadernos de Cauce 2000*, No.15 (Madrid, 1988); also in Instituto de la Ingeniería de España, *Obras hidráulicas prehispánicas y coloniales en América*, I (Madrid, 1992), pp. 225-264.

Darwinism in Texas. Austin, Humanities Research Center, 1972.

The Comparative Reception of Darwinism. Austin, University of Texas Press, 1974. 2nd ed., Chicago, University of Chicago Press, 1988.

Islamic and Christian Spain in the Early Middle Ages: Comparative Perspectives on Social and Cultural Formation. Princeton, Princeton University Press, 1979. 2nd revised ed. Leiden: Brill, 2005.

Spanish version, chapters 1-6: *Cristianos y musulmanes en la España medieval (711-1250)* (Madrid, Alianza, 1991) reissued as no. 67 in the collection "Grandes Obras de Historia" (Madrid, Altaya, 1997); chapters 7-10: *Tecnología, ciencia y cultura en la España medieval* (Madrid, Alianza, 1992).

Darwin en España. Barcelona, Ediciones Península, 1982; 2nd expanded ed. (Valencia: Universitat, 2010).

Diccionario Histórico de la Ciencia Moderna en España. 2 Vols. Barcelona, Península, 1983 (with J. M. López Piñero).

La España posible de la Segunda República: La oferta a Einstein de una cátedra extraordinaria en la Universidad Central (Madrid 1933). Madrid, Editorial de la Universidad Complutense, 1983 (with J. M. Sánchez Ron)

Emilio Herrera, *Flying: The Memoirs of a Spanish Aeronaut*. Albuquerque, University of New Mexico Press, 1984. Spanish version: *Memorias*. Madrid, Ediciones de la Universidad Autónoma, 1988.

Francesc Duran i Reynals (1899-1958). Barcelona, Ajuntament, 1986 (with A. Roca).

Einstein y los españoles: Ciencia y sociedad en la España de entreguerras. Madrid, Alianza, 1986; 2nd ed. Madrid, Consejo Superior de Investigaciones Científicas, 2006

The Comparative Reception of Relativity. Dordrecht, D. Reidel, 1987.

Einstein in Spain: Relativity and the Recovery of Science. Princeton, Princeton University Press, 1988.

Darwin y el darwinismo en el Uruguay y América Latina. Montevideo, Universidad de la República, 1989.

George Sarton i la història de la ciència a Espanya. Barcelona, Consejo Superior de Investigaciones Científicas, 1990.

Convivencia: Jews, Muslims, and Christians in Medieval Spain. New York, George Braziller, 1992 [with Vivian Mann and Jerrilyn Dodds].

La Ley de Aduanas de 1888. Montevideo: Universidad de la República, 1992 [with J. P. Barrán and A. Cheroni].

El Megaterio de Bru y el Presidente Jefferson. Valencia, Universitat de Valencia, 1993 [with J. M. López Piñero]

El agua: Artefacto cultural, issue no. 593 of *Arbor* (Madrid), May 1995.

From Muslim Fortress to Christian Castle: Social and Cultural Change in Medieval Spain. Manchester, Manchester University Press, 1995.

Irrigation and Hydraulic Technology: Medieval Spain and its Legacy. Aldershot, Variorum, 1996.

(ed.) Charles Darwin, *On Evolution*. Indianapolis, Hackett, 1996 (with David Kohn).

El darwinismo en España e Iberoamérica. Madrid, Doce Calles, 1999 (with Rosaura Ruiz and Miguel Angel Puig-Samper).

Els molins hidràulics valencians: Tecnologia, història i context social. Valencia, Institució Alfonso el Magnànim, 2000 [with Enric Guinot and Luis P. Martínez].

The Reception of Darwinism in the Iberian World. Dordrecht, Kluwer, 2001 [with M. A. Puig-Samper and Rosaura Ruiz].

A recepção do Darwinismo no Brasil. Rio de Janeiro, Fiocruz, 2003 [with Heloisa Domingues and Magali Romero Sá].

Medieval Science, Technology and Medicine: An Encyclopedia. New York, Routledge, 2005 (with Steven J. Livesey and Faith Wallis).

Negotiating Darwin: The Vatican Confronts Evolution, 1877-1902. Baltimore, Johns Hopkins University Press, 2006 [with Mariano Artigas and Rafael A. Martínez].

Spanish version: *Seis católicos evolucionistas: El Vaticano frente a la Evolución (1877-1902)* (Madrid: Biblioteca de Autores Cristianos, 2010).

Paisajes de conquista: Cambio social y geográfico en la Alta Edad Media. Valencia, University of Valencia Press, 2006.

The Reception of Charles Darwin in Europe. 2 vols., London, Continuum, 2008 (with Eve-Marie Engels).

Discurs del Prof. Thomas F. Glick en el solemne acte de la seua investidura com a Doctor "Honoris Causa." Valencia: Universitat, 2010.

What about Darwin? Baltimore: Johns Hopkins University Press, 2010.

ARTICLES

A. History of Science

"El escepticismo en la ideología científica del Dr. Martín Martínez y del P. Feijóo," *Asclepio* (Madrid), 17 (1965), 255-261.

"Science and the Revolution of 1868: Notes on the Reception of Darwinism in Spain," in C. Lida and I. Zavala, eds., *La Revolución de 1868* (New York, Las Americas, 1970), pp. 267-272.

"On the Influence of Kircher in Spain," *Isis*, 62 (1971), 379-381.

"La recepción del darwinismo en España en dimensión comparativa," *Actas, III Congreso Nacional de Historia de la Medicina*, 3 vols. (Valencia, 1972), I, 193-200; also in *Asclepio*, 21 (1969), 210-214; summarized in *Anthropos*, 16-17 (October 1983), 9.

"The Valencian Homage to Darwin in the Centennial Date of his Birth," *Actas, III Congreso*, II, 577-601; also in *Ciència* (Barcelona), May 1982, 20-27.

- "Spain," in T. F. Glick, ed., *The Comparative Reception of Darwinism*, pp. 307-345.
- "Felix de Azara: The Myth of the Isolated Genius in Spanish Science," *Journal of the History of Biology*, 8 (1975), 67-83 (with David M. Quinlan).
- "Endocrinology: A Brief Introduction," *Journal of the History of Biology*, (1976), 229-233 (with Diana Long).
- "On the Diffusion of a New Specialty: Marañón and the 'Crisis' of Endocrinology in Spain," *Journal of the History of Biology*, 9 (1976), 287-300.
- "José María Millás Vallicrosa (1897-1970) and the Founding of the History of Science in Spain," *Isis*, 68 (1977), 276-283.
- "Einstein y los españoles: Aspectos de la recepción de la relatividad," *Llull: Boletín de la Sociedad Española de Historia de las Ciencias*, 2.4 (December 1979), 3-22.
- "Einstein a Barcelona," *Ciència*, October 1980, 10-18.
- "Psicoanálisis, reforma sexual y política en la España de entre-guerras," *Estudios de Historia Social*, 16-17 (1981), 7-25.
- "La transferència de la ciència a través de les fronteres culturals," *Ciència*, October 1982, 38-44; (Spanish) "La transferencia de las revoluciones científicas a través de las fronteras culturales," *Ciencia y Desarrollo* (Mexico), 12, # 72 (January-February 1987), 77-89.
- "The Naked Science: Psychoanalysis in Spain, 1914-1948," *Comparative Studies in Society and History*, 24 (1982), 533-571.
- "El darwinismo en España en la primera mitad del siglo XX," *Anthropos*, 16-17 (October 1982), 76-81.
- "Esteve Terradas (1883-1950) i Tullio Levi-Civita (1873-1941): Una correspondència," *Dynamis*, 2 (1982), 387-402 (with Antoni Roca).
- "In Memoriam: Tomás Rodríguez Bachiller (1899-1980)," *Dynamis*, 2 (1982), 403-409.
- "Ciencia y tecnología de la España contemporánea en la historiografía norteamericana," *Arbor*, 116 (1983), 165-179.
- "Perspectivas sobre la recepción del darwinismo en el mundo hispano," *Actas, II Congreso de la Sociedad Española de Historia de las Ciencias*, 3 vols. (Zaragoza, 1984), I, 49-64.
- "La polémica del darwinismo en Cuba," *Actas, II Congreso*, I, 413-418.

"La oferta de una cátedra extraordinaria a Albert Einstein por la Universidad Central: Madrid 1933," *Actas, II Congreso*, II, 427-436 (with J. M. Sánchez Ron).

"El evolucionismo en la obra de Roberto Névoa Santos," in *Darwin a Barcelona* (Barcelona, 1984), 461-474.

"Walter B. Cannon i la ciència catalana d'entreguerres," in *Societat Catalana de Ciències, Butlletí del cinquantenari (1932-1982)* (Barcelona, 1985), pp. 139-159; also in *Ciència* (Jan.-Feb. 1984), 40-51.

"Einstein, Rey Pastor y la promoción de la ciencia en España," in *Actas, I Simposio sobre Julio Rey Pastor*, Luis Español, ed. (Logroño, 1985), pp. 79-90.

"George Sarton and the Spanish Arabists," *Isis*, 76 (1985), 487-499.

"José Celestino Mutis (1732-1808)," *Fundación Juan March. Boletín Informativo*, #169 (April 1987), 3-12.

"George Sarton i Josep M. Millàs Vallicrosa: Una amistat científica," in *Cinquanta anys de ciència i tècnica a Catalunya* (Barcelona, 1987), pp. 213-217.

"Relativity in Spain," in T. F. Glick, ed., *The Comparative Reception of Relativity* (Dordrecht, 1987), pp. 231-263.

"Cultural Issues in the Reception of Relativity," in *ibid.*, pp. 381-400.

"La acogida de la relatividad en España: Cuatro niveles de recepción," in R. Llosa and M. A. Sellés, eds., *Sobre los orígenes de la teoría de la relatividad* (Madrid, 1987), pp. 143-177.

"El impacto del psicoanálisis en la psiquiatría española de entreguerres," in J. M. Sánchez Ron, ed., *Ciencia y sociedad en España: De la Ilustración a la Guerra Civil* (Madrid, CSIC, 1988), pp. 205-221.

"La Fundació Rockefeller i Espanya: La crisi dels laboratoris," in Luis Navarro Veguillas, ed., *Trobades científiques del la Mediterrània: Història de la Física* (Barcelona, Generalitat de Catalunya, 1988), pp. 367-372.

"La Fundación Rockefeller en España: Augustus Trowbridge y las negociaciones para el Instituto Nacional de Física y Química, 1923-1927," in J. M. Sánchez Ron, ed., *La Junta para Ampliación de Estudios e Investigaciones Científicas 80 años después*, 2 vols. (Madrid, CSIC, 1988), II, 280-300.

"Imperio y dependencia científica en el XVIII español e inglés: La provisión de los instrumentos científicos," in J. L. Peset, ed., *Ciencia, vida y espacio en Iberoamerica*, 3 vols. (Madrid, 1989), III, 49-63.

"Biologia i context social: la nova historiografia del Darwinisme," *Treballs de la Societat Catalana de Biologia*, 40 (1989), 7-18.

"La 'Idea Nueva': Ciencia, política y republicanismo," in B. Ciplijauskaitė, and Ch. Maurer, eds., *La voluntad de humanismo: Homenaje a Juan Marichal* (Barcelona, Anthropos, 1990), pp. 57-70.

"Fundaciones americanas y ciencia española: la Fundación Del Amo, 1928-1940," in Luis Español, ed., *Estudios sobre Julio Rey Pastor (1888-1962)* (Logroño, 1990), pp. 313-326.

"Pedro Puig Adam: Becario de la Fundación Rockefeller," *ibid.*, pp. 115-118.

"José María Plans y su generación frente a la relatividad," *Sesión Necrológica en Memoria de José M. Plans Freyre* (Madrid, Real Academia de Ciencias Exactas, 1990), pp. 11-14.

"Science and Independence in Latin America," *Hispanic American Historical Review*, 71 (1991), 307-334.

"La ciencia contemporánea en las *Memorias* de Odón de Buen," *Actas del V Congreso de la Sociedad Española de Historia de las Ciencias y de las Técnicas*, 3 vols. (Murcia, 1991), I, 229-243.

"Darwin y la filología española," *Boletín de la Institución Libre de Enseñanza*, 2nd epoch, no. 12 (October 1991), 35-41.

"Science in Medieval Spain: The Jewish Contribution in the Context of Convivencia," in *Convivencia*, pp. 83-111. Abridged Spanish version: "El mundo científico de los judíos españoles," *Sefardica*, no. 10 (September 1993), 117-138. Abridged Portuguese version: "O Mundo Científico da Espanha," in A. Novinsky and D. Kuperman, eds., *Ibéria Judaica: Roteiros da Memória*, (Sao Paulo, USP, 1996), pp. 61-84

"La ciencia latinoamericana en el siglo XX," *Arbor*, 142 (1992), 233-252.

"El impacto del darwinismo en la Europa mediterránea y en Latinoamérica," in A. Lafuente and J. Sala Catalá, eds., *Ciencia colonial en América* (Madrid, 1992), pp. 319-350.

"Establishing Scientific Disciplines in Latin America: Genetics in Brazil, 1943-1960," in A. Lafuente, A. Elena and M. L. Ortega, eds., *Mundialización de la ciencia y cultura nacional* (Aranjuez, 1993), pp. 363-375.

"Les dimensions comparatives en la història de les ciències," in *II Trobades d'Història de la Ciència i de la tècnica* (Barcelona, Societat Catalana d'Història de la Ciència, 1993), pp. 59-70.

"Ciencia, política y discurso civil en la España de Alfonso XIII," *Espacio, Tiempo y Forma, Serie V, Historia Contemporánea* (Madrid), 6 (1993), 81-98; reprinted in *Nación y estado en la España liberal*, G. Gortázar, ed. (Madrid, Noesis, 1994), pp. 255-275.

"The Rockefeller Foundation and the Emergence of Genetics in Brazil, 1943-1960," in *Missionaries of Science: The Rockefeller Foundation and Latin America*, Marcos Cueto, ed. (Bloomington, Indiana University Press, 1994), pp. 149-164. Portuguese trans.: "A Fundação Rockefeller e a Emergência da Genética no Brasil (1943-1960)," in Domingues *et al.*, eds., *A recepção do Darwinismo no Brasil* (Rio de Janeiro, Fiocruz, 2003), pp. 145-163.

"Science and Society in Twentieth-Century Latin America," *The Cambridge History of Latin America, Volume VI, Part I, 1930 to the Present* (Cambridge, Cambridge University Press, 1994), pp. 463-535; reprinted in Leslie Bethell, ed., *Ideas and Ideologies in Twentieth Century Latin America* (Cambridge, 1996), pp. 287-359.

"Miquel Crusafont i George Gaylord Simpson: Interferències biogràfiques, confluències històriques," *Arraona: Revista d'Història* (Sabadell), 14 (1994), 45-56.

"L'Arxiu Miquel Crusafont Pairó a Sabadell," *Arraona: Revista d'Història*, 14 (1994), 77-82.

"Science in Twentieth-Century Latin America," *The Cambridge History of Latin America, Volume XI, Bibliographical Essays* (Cambridge, Cambridge University Press, 1995), 878-885.

"Ciencia: Una década crucial," in J. Zozaya, ed., *Alarcos: El fiel de la balanza* (Toledo: Junta de Comunidades de Castilla-La Mancha, 1995), pp. 161-170.

"Ancient and Stormy Seas: Theories of Prolongevity and Rejuvenation in Relation to the work of C. A. Stephens," in *Proceedings of the Steamship College. C. A. Stephens Sesquicentennial Lectures* (Norway, ME., 1996), pp. 1-10.

"López Piñero y Robert Merton: Ciencia, técnica, motivación, decadencia," *Arbor*, 604-605 (April-May 1996), 57-67.

"Darwinismo y ganadería: La polémica entre selección y cruzamiento en la América Latina," in Luis Carlos Arboleda and Carlos Osorio, eds., *Nacionalismo e Internacionalismo en la Historia de las Ciencias y la Tecnología en la América Latina* (Cali, Colombia, 1997), pp. 399-408.

“Precursores del psicoanálisis en la América Latina,” *Episteme: Filosofia e História das Ciências em Revista* (Porto Alegre), no. 8 (Jan.-Jun. 1999), 139-150.

“Le point de vue de Darwin,” *Cahiers de Science et Vie* (Paris), no. 49 (Feb. 1999), 68-73.

“Between Science and Zionism: Einstein in Brazil,” *Episteme*, no. 9 (July-Dec. 1999), 101-120.

“Virus and Cancer: A Controversial Theory,” *Contributions to Science* (Barcelona), 1 (1999), 87-98 (with Antoni Roca).

“From the Sarton Papers: Paul Kraus and Arabic Alchemy,” *Cronos* (Valencia), 2 (2000), 221-244.

“The Reception of Darwinism in Uruguay,” in *The Reception of Darwinism in the Iberian World* (Dordrecht, Kluwer, 2001), pp. 29-52. Spanish trans. “La recepción del darwinismo en el Uruguay,” in *El darwinismo en España e Iberoamérica* (Madrid, Doce Calles, 1999), pp. 47-67.

“The Scientific and Popular Receptions of Darwin, Freud, and Einstein: Toward an Analytical History of the Diffusion of Scientific Ideas,” in *The Reception of Darwinism in the Iberian World* (Dordrecht, Kluwer, 2001), pp. 229-238 [with Mark G. Henderson]. Spanish trans. “Las recepciones científicas y populares de Darwin, Freud y Einstein: Hacia una historia analítica de la difusión de las ideas científicas,” in *El darwinismo en España e Iberoamérica* (Madrid, Doce Calles, 1999), pp. 289-297.

“On the Theory of Recapitulation in Brazil: Emilio Goeldi and Hoatzim Fledglings (*Filhotes da Cigana*),” in M. A. Puig-Samper *et al.*, eds., *Evolucionismo y Cultura: Darwinismo en Europa e Iberoamérica* (Madrid, Doce Calles, 2002), pp. 391-395.

“Sexual Reform, Psychoanalysis, and the Politics of Divorce in Spain in the 1920s and 1930s,” *Journal of the History of Sexuality*, 12 (2003), 68-97.

“O positivismo brasileiro na sombra do Darwinismo: O grupo Idéia Nova em Desterro, in Domingues *et al.*, eds., *A recepção do Darwinismo no Brasil*. (Rio de Janeiro, Fiocruz, 2003), pp. 181-189.

“Dictating to the Dictator: Augustus Trowbridge, the Rockefeller Foundation, and the Support of Physics in Spain, 1923-1927,” *Minerva*, 43 (2005), 121-145.

“Einstein: Tres momentos, tres lugares,” *Quark*, #16 (May-August 2005), 41-53.

- “Marañón, Intersexuality and the Biological Construction of Gender in 1920s Spain,” *Cronos*, 8 (2005), 121-137.
- “Science Frustrated: The ‘Einstein Institute’ in Madrid,” *Minerva*, 44 (2006), 355-378 (with J.M. Sánchez Ron).
- “Einstein: Zurich 1905,” in *Cent anys d’herència einsteiniana*, Carlos Ferreira Garcia, ed. (Valencia: Universitat de Valencia), 2006, pp. 75-83
- “The Anthropology of Race across the Darwinian Revolution,” in *A New History of Anthropology* (Oxford: Blackwell, 2008), pp. 225-241.
- “Darwin and the Vatican: The Reception of Evolutionary Theories,” in Engels and Glick, eds., *The Reception of Charles Darwin in Europe* (London: Continuum, 2008), pp. 413-429 (with Mariano Artigas and Rafael Martínez).
- “The Reception of the Synthetic Theory in Spain,” in Engels and Glick, eds., *The Reception of Charles Darwin in Europe* (London: Continuum, 2008), pp. 553-568.
- “O Programa Brasileiro de genética evolucionária de populações, de Theodosius Dobzhansky” *Revista Brasileira de Historia*, 28 (2008), 315-325.
- “Darwinismo y el evolucionismo: Panorama comparativa internacional,” *Boletín de la Institución Libre de Enseñanza*, II época, No. 70-71 (October 2008), 161-17.
- “Miquel Crusafont, Teilhard de Chardin and the Reception of the Synthetic Theory in Spain,” in *The Reception of Charles Darwin in Europe*, ed. Eve-Marie Engels and Thomas F. Glick, 2 vols. (London, Continuum, 2008), II: 553-568.
- “Der Vatikan und die Evolution. Die Haltung der Heiligen Stuhls gegenüber,” in Eve-Marie Engels, ed., *Charles Darwin und sein Wirkung* (Frankfurt: Suhrkamp, 2009), pp. 397-426 (with Rafael Martínez).
- “El evolucionismo en Nóvoa Santos: Adaptación y recapitulación,” in *O Darwinismo e Galicia*, F. Díaz-Fierios, ed. (Santiago de Compostela: Universidade, 2009), pp. 237-248.
- “Miquel Crusafont e a introdução da teoria sentética da evolução na Espanha,” in *Darwinismo, meio ambiente, sociedade*, H. Domingues, M. Romero, M. A. Puig-Samper, and R. Ruiz, eds. (Rio de Janeiro: MAST, 2009), pp. 220-235.
- “La recepció de l’evolucionisme,” in *La ciència en la història dels Països Catalans*, J. Vernet and R. Parés, eds, 3 vols. (Barcelona, Institut d’Estudis Catalans, 2004-09), III, 273-295 (with A. Camós and J. Catalá).

“All Over But the Shouting: Darwin, Freud and Einstein in Spain, 1868-1950,” *Colorado Review of Hispanic Studies*, 7 (2009), 227-237.

“The Comparative Reception of Darwinism: A Brief History,” *Science and Education*, 19 (2010), 693-703.

“So Permanent a Breath: Darwin, Lyell, Hooker, and the Problem of ‘Transportal’,” in *Islands and Evolution*, V. Pérez Mellado and C. Ramon, eds. Port Mahon: Institut Menorquí d’Estudis, 2010 (Recerca, 19), pp. 171-183.

“La recepció comparativa del darwinisme: models i perspectives,” in Jesús I. Catalá and Victor Navarro Brotons, eds., *Darwin: El seu temps, la seua obra, la seua influència* (Valencia: Universitat de Valencia, 2010, pp. 32-45.

“On the Origins of the ‘School of Barcelona’: Joan Vernet (1923-2011): *In memoriam*,” *Medieval Encounters*, 17 (2011), 570-576.

“Sharing Science: Jews, Muslims, and Practical Science in the Medieval Islamic World, in *History as Prelude: Muslims and Jews in the Medieval Mediterranean*, Joseph V. Montville, ed. (New York: Lexington Books, 2011), pp. 27-54.

B. History of Technology

“Dos documentos medievales referentes al Tribunal de las Aguas,” *Boletín de la Sociedad Castellonense de Cultura*, 43 (1967), 81-84.

“Levels and Levelers: Surveying Irrigation Canals in Medieval Valencia,” *Technology and Culture*, 9 (1968), 165-180.

“Medieval Irrigation Clocks,” *Technology and Culture*, 10 (1969), 424-428.

“Cob Walls Revisited: The Diffusion of Tabby Construction in the Western Mediterranean World,” in B. Hall and D. West, eds., *On Pre-Modern Technology and Science: Studies in Honor of Lynn White, Jr.* (Los Angeles, 1976), pp. 147-159.

“Noria Pots in Spain,” *Technology and Culture*, 18 (1977), 644-650.

“Emilio Herrera and Spanish Technology,” in E. Herrera, *Flying: The Memoirs of a Spanish Aeronaut* (Albuquerque, 1984), pp. 173-215. Spanish version in Herrera, *Memorias* (Madrid, 1988), pp. 161-195.

“La missió d'Esteve Terradas als Estats Units: 1944-1945,” in *Cinquanta anys de ciència i tècnica a Catalunya* (Barcelona, 1987), pp. 35-42.

“Las técnicas hidráulicas antes y después de la conquista,” in *En torno al 750 aniversario: Antecedentes y consecuencias de la conquista de Valencia*, 2 vols. (Valencia, 1989), I, 53-71.

“El término árabe *dawla* ‘turno de riego,’ en una alquería en las tahas de Berjar y Dalias: Ambroz (Almería),” in *El agua en zonas áridas: Arqueología e historia*, 2 vols. (Almería, 1989), I, 123-141 (with M. Espinar and J. Martínez Ruiz).

“Molins d'aigua a l'Horta medieval de València,” *Afers* (Valencia), 9 (1990), 9-22.

“Posts de llit i llits de post a la València medieval,” *Afers*, 9 (1990), 147-150.

“El sentido arqueológico de las instituciones hidráulicas. Regadío berber y regadío español,” *Aragón vive su historia. II Jornadas de Cultura Islámica* (Madrid, Instituto Occidental de Cultura Islámica, 1990), pp. 165-171.

“Regadío y técnicas hidráulicas en al-Andalus. Su difusión según un eje Este-Oeste,” *La caña de azúcar en tiempos de los grandes descubrimientos, 1450-1550* (Motril, Casa de la Palma, 1990), pp. 83-98.

“Sir Clements Markham i l'interès britànica en el regadiu hispànic a mitjan segle XIX,” in Clements R. Markham, *El regadiu de l'Espanya de l'Est (1867)* (Valencia, Institució Valenciana d'Estudis i Investigació, 1991), pp. 7-44.

“Historia del regadío y las técnicas hidráulicas en la España medieval y moderna. Bibliografía comentada,” *Crónica Nova* (Granada), 18 (1990), 121-153; 19 (1991), 167-192; 20 (1992), 209-232.

“Irrigació en l'Horta de València durant el segle XV,” in *Lluís de Santangel: Un nou home, un nou món* (Valencia, 1992), pp. 147-154 (Catalan); Castilian translation as “Irrigación en la huerta de Valencia durante en siglo XV,” in *Lluís de Santángel y su época: Un nuevo hombre, un mundo nuevo* (Valencia, 1992), pp. 147-154.

“Hydraulic Technology in Al-Andalus,” in Salma K. Jayyusi, ed., *The Legacy of Muslim Spain* (Leiden, 1992), pp. 974-986; reprinted in Salvatore Ciriaco, ed., *Land Drainage and Irrigation: Studies in the History of Civil Engineering* (Aldershot, Ashgate, 1998), pp. 46-57, and in Michael G. Morony, ed., *Production and the Exploitation of Resources* (Aldershot, Ashgate, 2003).

“Sobre la tipologia convencional dels molins hidràulics,” *Afers*, 15 (1993), 53-56.

“Edison: Mito y realidad,” *Arbor*, 148 (May 1994), 39-50.

“La Font del Molinar i la política d'aigües a l'edat mitjana,” *Alberri* (Cocentaina), 5 (1992) [1994], 99-103.

“Cap a una història institucional dels regs: Un mètode d'estudi comparatiu,” *Taller d'Història*, III.1 (1994), 39-46.

“Moriscos and Marranos as Agents of Technological Diffusion,” *History of Technology*, 17 (1995), 113-125; Spanish version, *Arbor*, 149 (1994), 113-131.

“El agua: Artefacto cultural,” *Arbor*, 151 (1995), 9-11.

“Arthur Maass y el análisis institucional del regadío en España,” *Arbor*, 151 (1995), 13-33.

“Berbers in Valencia: The Case of Irrigation,” in *Iberia and the Mediterranean World of the Middle Ages*, 2 vols. (Leiden, E. J. Brill, 1995-96), II, 191-206.

“La transmisión de las técnicas hidráulicas de regadío del mundo islámico al mundo hispánico,” in Mercedes García Arenal, ed., *Al-Andalus Allende el Atlántico* (Granada, Junta de Andalucía, 1997), 222-233.

“Irrigation and Hydraulic Technology in Islamic Spain: Methodological Considerations,” *Journal for the History of Arabic Science*, 11 (1995-97), 3-19; Spanish version in *Ciencias de la naturaleza en al-Andalus. Textos y estudios*, 4 (1996), 71-91.

“Transformaciones de las estructuras agrarias de la sociedad valenciana en la época medieval,” in José Morilla Critz *et al.*, eds., *Impactos exteriores sobre el mundo rural mediterránea* (Madrid, Ministerio de Agricultura, 1997), pp. 203-224.

“Hydraulic systems and Technologies of Islamic Spain: History and Archeology,” in P. Squatriti, ed., *Working with Water in Medieval Europe: Technology and Resource-Use* (Leiden, 2000), pp. 267-329 (with Helena Kirchner).

“El patrimoni hidràulic valencià i els nostres molins,” in *Els molins hidràulics valencians* (Valencia, 2000), pp. 7-28 [with Enric Guinot and Luis P. Martínez].

“La molineria hidràulica valenciana: Qüestions obertes,” in *Els molins hidràulics valencians* (Valencia, 2000), pp. 29-99 [with Luis Pablo Martínez].

“La técnica del mundo islámico medieval: dos conjuntos significativos,” in Luis Ribot García, ed., *Año 1000, Año 2000: Dos milenios en la historia de España*, 2 vols. (Madrid, España Nuevo Milenio, 2001), II, 213-226.

“Los cultivos árabes en la América del norte colonial: Glosas sobre el pensamiento agronómico de Jefferson,” in Fernando Nuez, ed., *La herencia árabe en la agricultura y el bienestar de Occidente* (Valencia, Universidad Politécnica de Valencia, 2002), pp. 425-445.

“Azaira, Alhetma: Two Medieval Arabisms Reflecting the Allocation of Irrigation Water,” *Suhayl: Journal for the History of the Exact and Natural Sciences in Islamic Civilization*, 3 (2002-03), 213-219 (with Simonne Teixeira).

“Esteban Terradas en Estados Unidos: La misión de 1944-45,” in *Esteban Terradas Illa (1883-1950): Ingeniería, arquitectura y ciencia en el siglo XX* (Barcelona, Escola d'Arquitectura La Salle, 2004), pp. 141-150. (Catalan version:) “Esteve Terradas al Estats Units: La missió de 1944-1945,” in *Esteve Terradas Illa (1883-1950): Enginyeria, arquitectura i ciència al segle XX* (Barcelona, 2004), pp.141-150.

“Sistemes agrícoles islàmics de Xarq al-Andalus,” in *Història Agrària dels Països Catalans*, J. M. Salrach, ed., (Barcelona, Fundació Catalana per a la Recerca, 2004), pp. 45-89

“The Islamic Empire,” in W. Bernard Carlson, ed., *Technology in World History*, 7 vols. (New York: Oxford University Press, 2005), 3: 36-63.

“Regants contra feudals. Observacions sobre uns plets d'aigua a la Ribera del Xúquer (segle XV),” *Afers*, 20 (2005), 357-368.

“Irrigation in Medieval Spain: A Personal Narrative Accross a Generation,” in Joyce Marcus and Charles Stanish, eds. *Agricultural Strategies* (Los Angeles: Cotsen Institute of Archaeology, 2006), pp. 162-187.

“Mills and Millers in Medieval Valencia,” in Steven A. Walton, ed., *Wind and Water in the Middle Ages* (Tempe, Arizona: ACMRS, 2006), pp. 189-211 [with Luis Pablo Martínez].

“Cacao Culture: Case Studies in History: Introduction,” *Food & Foodways*, 15 (2007), 1-5 (with Beth Forrest).

“Agricultura morisca,” in *Entre terra i fe: Els musulmans al regne cristià de València (1238—1609)*, R. Benítez Sánchez-Blanco and J. V. García Marsilla, eds. (Valencia: Universitat de València, 2009), pp. 237-247.

“Islamic Technology,” in *A Companion to the Philosophy of Technology*, J. Olsen et al., eds. (New York: Wiley-Blackwell, 2009), pp. 32-36.

“Emilio Herrera Linares (1879-1967),” *Icaro: Boletín Informativo de la Asociación de Aviadores de la República*, #92 (November 2007), 3-5.

“What do Spanish Irrigation Systems owe to the Arabs, Really?” in *Actes del III Congrès d'Estudis de l'Horta Nord*, 2 vols. (Valencia: Universitat Politècnica de Valencia, 2011), I, 11-16.

C. History of Geography/Environmental History

“Urban Ecosystems and Island Biogeography,” *Environmental Conservation*, 5 (1978), 299-304 (with Anthony M. Davis).

“Science, Technology and the Urban Environment: The Great Stink of 1858,” in Lester Bilsky, ed., *Historical Ecology: Essays on Environment and Social Change* (Port Washington, 1980), 122-139; Spanish translation in *Ciudad y Territorio* (Madrid), no. 71 (January-March 1987), 23-33.

“Historia del medio ambiente: Una nueva disciplina,” in Víctor Navarro Brotóns, ed., *La historia de las ciencias y la enseñanza* (Valencia, 1980), pp. 139-153.

“History and Philosophy of Geography,” *Progress in Human Geography*, 8 (1984), 275-283; 9 (1985), 424-431; 10 (1986), 267-277; 11 (1987), 405-416; 12 (1988), 441-450; 14 (1990), 120-128. Spanish translation in *La geografía hoy: Textos, historia y documentación* (Barcelona, Anthropos, 1994), pp. 19-41, 79-87.

“Before the Revolution: Edward Ullman and the Crisis of Geography at Harvard, 1949-1950,” in John E. Harmon and Timothy J. Rickard, eds., *Geography in New England* (New England Geographical Society, 1988), pp. 49-62; Spanish version in *Geo-Crítica*, #55 (Barcelona, 1985).

“Capel, desde el mundo angloamericano,” *Anthropos*, 11, new ed. (1993), 73-74.

“Ecología urbana y administración municipal inglesa en el siglo XIX: Desde Chadwick hasta la junta de obras metropolitana,” *Ciudad y Territorio/Estudios Territoriales*, 26 (1994), 95-99.

“Estados Unidos: Agua y planificación regional,” *Ciudad y Territorio/ Estudios Territoriales*, 27 (1995), 647-649.

“La ciudad norteamericana desde dentro: Las ‘Expediciones’ de Bunge,” *Ciudad y Territorio/ Estudios Territoriales*, 27 (1995), 917-918.

“Dos etapas de planificación en el siglo XX,” *Ciudad y Territorio/ Estudios Territoriales*, 28 (1996), 294-295.

“La ciudad jardín en USA,” *Ciudad y Territorio/ Estudios Territoriales*, 29 (1997), 184-185.

“Los nuevos barrios hispanos,” *Ciudad y Territorio/Estudios Territoriales*, 30 (1998), 198-199.

“Planeamiento urbano norteamericano en Filipinas,” *Ciudad y Territorio/Estudios Territoriales*, 30 (1998), 500-501.

“Las postrimeras del 98: Cuba y Santo Domingo,” *Ciudad y Territorio/Estudios Territoriales*, 30 (1998), 788-789.

“Los inicios del GIS en Estados Unidos,” *Ciudad y Territorio/Estudios Territoriales* 33 (2001), 178-179.

“La *Big Dig* de Boston,” *Ciudad y Territorio/Estudios Territoriales*, 33 (2001), 581-581.

“La Macdonaldización,” *Ciudad y Territorio/ Estudios Territoriales*, 35 (2003), 195-196.

“Barrios excluidos: East Harlem,” *Ciudad y Territorio/ Estudios Territoriales*, 35 (2003), 485-486.

“Estados Unidos: Turismo y gastronomía,” *Ciudad y Territorio/ Estudios Territoriales*, 35 (2003), 756-757.

D. Spanish History and Culture

“Acculturation as an Explanatory Concept in Spanish History,” *Comparative Studies in Society and History*, 11 (1969), 136-154 (with O. Pi-Sunyer).

“Richard Ford and Spanish Culture,” *Texas Quarterly*, 14.3 (Autumn 1971), 67-79.

“Muhtasib and Mustasaf: A Case Study of Institutional Diffusion,” *Viator*, 2 (1971), 59-81.

“The Historical Bond Between Spain and Ireland: The Perceptual Interface,” *Texas Quarterly*, 19.1 (Spring 1976), 113-125.

“The Ethnic Systems of Premodern Spain,” *Comparative Studies in Sociology*, 1 (1978), 157-171.

“Américo Castro: La historia como antropología cultural,” *Anthropos* (Barcelona), 21-22 (Jan.-Feb. 1983), 84-91.

“Catalans as Jews: Catalan Philosemitism in the Franco Era,” in Salvador Espriu, *La pell de brau* (Marlboro Vt., Marlboro Press, 1987), pp. 67-79.

“Maó i els Estats Units al Segle XIX: Tres esbossos per a una història,” *Revista de Menorca*, 80 (1989) [1990], 109-141.

“Massachusetts/Uruguay: Una Perspectiva desde Nueva Inglaterra sobre la Ley de Aduana de 1888,” in *La Ley de Aduanas*, pp 45-53.

“Convivencia: An Introductory Note,” in *Convivencia: Jews, Muslims, and Christians in Medieval Spain*, pp. 1-9.

“New Perspectives on the *Hisba* and its Hispanic Derivatives,” *Al-Qantara*, 13 (1992), 475-489.

“L'alta edat mitjana,” in *Història del País Valencià* (Valencia, Tres i Quatre, 1992), pp. 59-82.

“Before and After Al-Andalus,” *Proceedings of the Seminar Al-Andalus, Centuries of Vicissitudes and Accomplishments*, 5 vols. (Riyadh, 1996), I, 83-100.

“Resettlement and Redistribution of Land,” in *Medieval Iberia: Readings from Christian, Muslim, and Jewish Sources*, Olivia R. Constable, ed. (Philadelphia, University of Pennsylvania Press, 1997), pp. 228-231.

“On Converso and Marrano Identity,” in *Crisis and Creativity in the Sephardic World, 1391-1648* (New York, Columbia University Press, 1997), pp. 59-76.

“Peasants and the Organization of ‘Import Agriculture,’” in *Islam and Catalonia* (Barcelona, Lunweg, 1998), 85-91; Catalan translation in *L'Islam i Catalunya* (Barcelona, Lunweg, 1998), 85-91.

“Recepció i transmissió de la cultura mitjançant els *scriptoria* monàstics,” in *Temps de monestirs: Els monestirs catalans entorn l'any mil* (Barcelona, Generalitat de Catalunya, 1999), pp. 198-205; Castilian version in *Tiempo de monasterios* (Barcelona, 2000), pp. 198-205.

“De l'Est a l'Oest: Observacions sobre la difusió de la canyamel a l'Edat Mitjana,” *Afers* 32 (1999), 13-17.

“Reading the *Repartimientos*: Modeling Settlement in the Wake of Conquest,” in Mark D. Meyerson and Edward D. English, eds., *Christians, Muslims, and Jews in Medieval and Early Modern Spain* (Notre Dame: University of Notre Dame Press, 1999), pp. 20-39.

“Tribal Landscapes of Islamic Spain: History and Archeology,” in John Howe and Michael Wolfe, eds., *Inventing Medieval Landscapes: Senses of Place in Western Europe* (Gainesville, University of Florida Press, 2002), pp. 113-135.

“ ‘Thin Hegemony’ and Consensual Communities in the Medieval Crown of Aragon,” in M. Barceló *et al.*, eds. *El feudalisme comptat i debatut: Formació i expansió del feudalisme català* (Valencia, Universitat de València, 2003), 523-538.

“El poder de un paradigma,” *Revista d’Història Medieval*, 12 (2001-02) [2003], 273-278.

“ ‘My Master, The Jew’: Observations on Interfaith Scholarly Interaction in the Middle Ages,” in Harvey J. Hames, ed., *Jews, Muslims and Christians In and Around the Crown of Aragon* (Leiden, Brill, 2004), pp. 157-182.

“Santangel as a Cultural Symbol: Vicente Giner Boira and the Valencina Culture War of the Post-Franco Era,” in Kathleen E. LeMieux, ed., *Lluís de Santàngel: Primer Financiero de América* (Valencia: Generalitat Valenciana, 2008), pp. 275-292.

“Gayangos and the Boston Brahmins,” in Cristina Álvarez Millán and Claudia Heide, eds., *Pascual de Gayangos: A Nineteenth-Century Spanish Arabist* (Edinburgh: Edinburgh University Press, 2008), pp. 159-181.

“Jews and Christians in the Medieval Crown of Aragon,” in *Uneasy Communion: Jews, Christians, and the Altarpieces of Medieval Spain*, Vivian B. Mann, ed. (New York: Museum of Biblical Art, 2010), pp. 10-43.

E. Essay Reviews

“The Field of Geography,” *Science*, 211 (1981), 377-378.

“In Search of Geography,” *Isis*, 74 (1983), 92-97.

“History of Spanish Science: El Boom,” *Isis*, 77 (1986), 514-517.

“Segredos do jovem Einstein,” *Ciência Hoje* (Rio de Janeiro), September 1990, pp. 60-61.

“The Reception of Psychoanalysis in France,” *Intellectual History Newsletter*, 13 (1991), 63-67.

“The Darwinologists,” *Biology and Philosophy*, 7 (1992), 507-510.

F. Prefaces/Prologues/Forwards

- to Gabriel Alonso de Herrera, *Obra de agricultura*. Valencia, Hispaniae Scientia, 1979.
- to Charles Darwin, *L'Origen de les espècies* (Barcelona, Edicions 62, 1982; 2nd ed., 1983), pp. 5-17.
- to J. M. López Piñero, *El "Atlas de Historia Natural" donado por Felipe II a Jaime Honorato Pomar* (Valencia, Vicent García Editores, 1990), pp. 11-16 (Spanish), 83-87 (English).
- to Joan Estruch, *Saints and Schemers: Opus Dei and its Paradoxes* (New York, Oxford University Press, 1995), pp. xiii-xviii.
- to Tomás V. Pérez Medina, *Los molinos de agua en las comarcas del Vinalopó (1500-1840)* (Petrer, Centre d'Estudis Locals, 1999), pp. 7-11.
- to Rafael de Buen y Lozano, *Estudio batitológico de la Bahía de Palma de Mallorca* (Palma de Mallorca, Govern de les Illes Balears, 2002), pp. xi-xiii.
- to *Molins i moliners: Els molins hidràulics fariners del Comtat* (Cocentaina: Centre d'Estudis Contestans, 2006), p. 7.
- to José A. Rivera, *La Cultura de la Acequia* (Valencia, PUV, 2009), pp. 9-12.
- Epilogue to Charles Darwin, *Origen de les especies: 150e Anniversari* (Barcelona: Edicions 62, 2009), pp. 465-79.
- "Epilogo: Contexto historico del libro," Fernando J. Ponte Hernando, *Roberto Novoa Santos (1885-1933), Precursor del tratamiento de la diabetes con incretinas* (n.p.: Novo Nordisk, 2009), pp. 93-95.
- Prologue to Fernando J. Ponte and Javier del Valle-Inclán, *Roberto Nóvoa Santos: Las primeras páginas* (Santiago de Compostela: Auga, 2011), pp. 7-10.

G. Autobiography

- "Mi colaboración con López Piñero," *Anthropos*, 20 (December 1982), 16-17.
- "My Secret, Most Excellent Radio," *Western Reserve Academy Alumni Record* (Spring 2001), p. 25.
- "El ultimo difusionista," *Scripta Nova, Revista Electrónica de Geografía y Ciencias Sociales* (Barcelona), VIII, no. 170 (1 August 2004).

“Eldorado a València. Reflexions sobre mig segle de reconeixement,” *Afers*, 67 (2010), 741-749.

“Nóvoa Santos visto desde Harvard,” *El Correo Gallego*, 13 August 2011

H. Script

“El Mundo Subterráneo,” Televisión Española, October 1984 [program on the social history of sewage systems].

I. Courses

Historia de la agricultura. Valencia, Escuela Técnica Superior de Ingenieros Agrónomos, 1980 (mimeo).

“Latin America,” in Douglas Allchin, ed., *History of Non-Western Science: A Syllabus* (1995).

J. Short articles, Columns

“La historia y la antropología,” *Las Provincias* (Valencia), Dec. 12, 1965

“Abogados de aguas en la edad media valenciana,” *Las Provincias*, June 22, 1967

“Einstein y los españoles,” *Ya* (Madrid), November 6, 1979.

“El sentit històric de l'any Darwin,” *El Món* (Barcelona), no. 55, Dec. 24, 1982.

“Francesc Duran Reynals als Estats Units,” *Avui* (Barcelona), Feb. 12, 1987

“La Màquina del Temps” [The Time Machine, column], *Ciència* (Barcelona)

Els catalans i Edison: La llum elèctrica (Nov. 1983), 52-53; L'Eclipsi del Sol "hispanic" de 1905 (Dec. 1983), 48-49; Keynes i Espanya (Jan.-Feb. 1984), 80-81; Teoria i pràctica en la medicina medieval (Mar.Apr. 1984), 159-160; Marginalia einsteiniana (May 1984), 224-227; Centenaris: La invenció de l'aviació (June 1984), 284-285; Les petites mentides d'un home de ciència (July 1984), 351-352; El món linneà del segle XVIII (November 1985), 52-53; Jethro Tull a València: Va ser adoptat el nou mètode? (Oct. 1986), 331-332; El Teilhardisme a Catalunya (Nov. 1986), 51-52; Crusafont i Teilhard de Chardin: Un document (Dec. 1986), 49-50.

“El primer proceso de modernización de la física en España,” *Cambio 16* (Madrid), 16 Mar. 1987 (#798), p. 165.

“Early Genetics in Uruguay,” *Comisión Fulbright Newsletter* (Montevideo), #2 (1990), p. 2.

“Emilio Herrera,” *ABC* (Madrid), Jan. 4, 1994, p. 3; also in *ABC. Edición Internacional*, 12-18 Jan., p. 3.

“Federico Brassó,” *La República* (Montevideo), January 6, 1995.

“El eclipse solar de 1905,” *ABC*, August 30, 1995, p. 50.

- "La trascendencia buena," *ABC*, January 29, 1996.
- "Homenaje a Guichard," *ABC*, June 14, 1996.
- "El gesto problemático de Rodman," *ABC*, June 21, 1996
- "Vivir con la paella," *ABC*, September 9, 1996
- "La Huerta valenciana y los molinos de Campanar," *ABC*, December 14, 1996
- "Mi detención en Gerona," *ABC*, January 17, 1997.
- "Recordando a Vicente Giner," *Las Provincias*, August 15, 1997.
- "L'Horta de València i les hortes europees," *Per una horta viva. Cartalera Turia. Turia Extra*, Dec. 2001, pp. 6-7.
- "Intelligent Design: Scientific Concept or Religious View?" *Encyclopaedia Britannica 2007 Book of the Year 2007* (Chicago, 2007), pp. 286-287.
- "¿Cambió Darwin a América Latina?" *BBC Mundo* (on-line), 23 November 2009.

K. Comments

on Andrew M. Watson, "The Arab Agricultural Revolution," *Journal of Economic History*, 34 (1974), 74-78.

on R. and E. Hunt, "Canal Irrigation and Local Social Organization," *Current Anthropology*, 17 (1976), 400-401.

"Crítica a N. Stepan y L. Pyenson," *Quipu: Revista Latinoamericana de Historia de las Ciencias y la Tecnología*, 2 (1985), 437-442.

L. Reports

"Symposium on Methodology and Problems in the History of Science and Technology, Mexico City, October 1981," *Isis*, 73 (1982), 421.

"Mesa redonda sobre la situación de la historia de las ciencias en diferentes universidades e instituciones científicas y culturales del mundo," *Actas, II Congreso de la Sociedad Española de Historia de las Ciencias*, 3 vols. (Zaragoza, 1984), I, 187-189, 190-191.

"Catalonia, Factory of Spain,' An Exhibition in Barcelona," *Technology and Culture*, 27 (1986), 597-603.

"Meeting Reports: The International Congress on Science and the Discovery of the New World," *History of Science Society Newsletter*, 20.4 (October 1991), 19-20.

"Science, Discovery and the Colonial World. Madrid, 25-28 June 1991," *Isis*, 83 (1992), 282-286.

“La Memòria de l'Aigua. Propuesta de Catalogación y Valoración de los Molinos Hidráulicos del Río de la Sénia (Provincia de Castellón).” Valencia, September 1997. 49pp. With Enric Guinot and Luis Pablo Martínez.

M. Poetry

“Bobby Troup,” *The Harwood Review* (Summer 2001), p. 2.

3. ENCYCLOPEDIA ARTICLES

Diccionari de les ciències de la societat als països catalans (Barcelona, Edicions 62, 1979): Darwinisme, 139-140.

Dictionary of Scientific Biography: Leo the African (VIII, 190-191); Clements R. Markham (IX, 123-124); Crisóstomo Martínez (IX, 145-146); Pío del Río-Hortega (XI, 465-466); Hipólito Ruiz (XI, 605-606); Francisco Sánchez (XII, 97-98); Pierre Teilhard de Chardin (XIII, 277); José Hipólito Unanue (XIII, 541); José Mariano Vellozo (XIII, 601-602).

Gran Enciclopedia Catalana: Pelegrí Casanova (IV, 526-527); F. J. Jaubert de Paçá (VIII, 731); Rovella, séquia de (XIII, 785).

McGraw-Hill Encyclopedia of World Biography: Abd al-Rahman I (I, 11); Abd al-Rahman III (I, 11-12); Alfonso I Henriques (I, 130-131); Alfonso III of Portugal (I, 131-132); Alfonso VI of Spain (I, 132-133); Alfonso X of Spain (I, 133-134); The Cid (III, 4-5).

Cultural Atlas of Africa, Jocelyn Murray, ed. (Oxford, Phaidon, 1981): Canary Islands, p. 124.

Lexikon des Mittelalters (Artemis): Bewässerung (Band II: 22-23); Noria.

Dictionary of the Middle Ages, Joseph Strayer, ed., 13 vols (New York, Scribner's, 1982-89): Agriculture and Nutrition, The Mediterranean Region (I, 79-88); Fruits and Nuts (V, 305-307); Irrigation (VI, 556-559); Seville (XI, 213-214); Toledo (XII, 67-68); Umayyads of Córdoba (XII, 275-278).

Diccionario Histórico de la Ciencia Moderna en España (Barcelona, 1983): Dionisio Alcalá Galiano, Antonio Alcedo, Dionisio Alcedo, Gabriel Alonso de Herrera, Diego de Alvear, Pedro Mártir de Angleria, Isidoro de Antillón, José Aparici, Teodoro Ardemans, Vicente Asensio, and 125 others.

Cambridge Encyclopedia of Latin America and the Caribbean, Simon Collier, ed. (Cambridge, 1985; 2nd edition, 1992): Science in Latin America (pp. 421-427). Spanish edition: *Enciclopedia de Latinomérica*, 3 vols. (Madrid, Asutra, 1987), III, 162-169.

Book of Days 1987 (Ann Arbor, Pierian Press): Islamic Spain (pp. 4-5).

Historical Dictionary of Modern Spain, Robert W. Kern, ed. (Westport, CT, Greenwood Press, 1990): George Borrow (pp. 8-9); Science (pp. 434-442).

Ciència i tècnica als Països Catalans: Una aproximació biogràfica, 2 vols. (Barcelona, Fundació Catalana per a la Recerca, 1995): "Odon de Buen y del Cos: l'Oceanògrafia (I:

761-791) [with Francesc Bujosa]; "August Pi i Sunyer: La fisiologia experimental" (II, 1055-1085); "Josep Royo i Gómez: La paleontologia a dos continents," (II, 1277-1304.); "Francesc Duran i Reynals: La projecció internacional de la recerca biomèdica catalana," (II, 1335-1365) [with Antoni Roca].

Encyclopedia of Latin American History and Culture, 5 vols. (New York, Charles Scribner's Sons, 1996): "Science" (V, 79-84).

"Science and Technology," in *American Decades 1900-1909*, Vincent Tompkins, ed. (Detroit, Gale, 1996), pp. 445-484.

"Science and Medicine," in *American Eras 1878-1899*, Vincent Tompkins, ed. (Detroit, Gale, 1997), pp. 355-380.

"Leo the African," in *Encyclopaedia of the History of Science, Technology, and Medicine in Non-Western Cultures*, Helaine Selin, ed. (Dordrecht, Kluwer, 1997), p. 508.

Microsoft Encarta (CD-ROM, Spanish Version, 1997 ed.): Ciencia española e hispanoamericana; Achúcarro Lund, Nicolás; Ameghino, Florentino; Cruz, Oswaldo; Elhuyar y Lubice, Fausto; Elhuyar y Lubice, Juan José; Herrera, Alfonso L.; Lanz, José María; Larrañaga, Dámaso Antonio; Millás Vallicrosa, José; Mira y López, Emilio; Mociño, José Mariano; Pi-Sunyer, Augusto; Rey Pastor, Julio; Río-Hortega, Pío del; Royo y Gómez, José; Ruiz López, Hipólito; Terradas e Illa, Esteban; Unanue, José Hipólito; Vernet Ginés, Juan

The Dictionary of Anthropology, Thomas Barfield, ed. (Oxford, Blackwell, 1997): acculturation (pp. 2-3), central place theory (53), diffusion, diffusionism (118-119), geographic determinism (223), Melville J. Herskovits (234); hydraulic systems and societies (253-254), irrigation (265-267), Alfred L. Kroeber (270-271), Ralph Linton (293-294); oriental despotism (345-346), social Darwinism (429-430), technology (464-466). Spanish version: *Diccionario de antropología* (Barcelona: Bellaterra, 2001)

Encyclopedia of Historians and Historical Writing, Kelly Boyd, ed. (London, Fitzroy Dearborn, 1999): Robert I. Burns (154-155); Américo Castro (184-186); Comparative History (242-244); Feudalism (382-384); S. D. Goitein (473); Pierre Guichard (496-498); Ibn Khaldun (572-573); E. Lévi-Provençal (716-717); Ramón Menéndez Pidal (799-800); Robert K. Merton (804-805); George Sarton (1052-1053); Ellen C. Semple (1083-1084); Islamic Spain (1124-1127); Lynn White, Jr. (1295-1296).

Encyclopedia of the Renaissance, Paul F. Grendler, ed., 6 vols. (New York, 1999): "Agriculture," I, 20-24

Medieval Iberia: An Encyclopedia, E. Michael Gerli, ed. (New York/London, 2003): Agriculture (3842); Archeology (101-102); Technology (776-778).

Diccionari d'Historiografia Catalana, Antoni Simon i Tarrés, ed.(Barcelona, 2003): F. X. Borrull (245); Congrés d'Història de la Medicina, Tercer (163-64); M. de Epalza (441); E. J. Hamilton (558); F. J. Jaubert de Paça (700-01); Arthur Maass (747); J. A. Maravall (764-65); M. R. McVaugh (795); *Sharq al-Andalus* (1093-94).

Europe 1450-1789: Encyclopedia of the Early Modern World, Jonathan Dewald, ed., 6 vols. (New York: Charles Scribner's Sons, 2004): Colonialism (II, 2-5); Magellan (IV, 1012); Scientific Instruments (V, 332-339).

Medieval Science, Technology and Medicine: An Encyclopedia (New York, Routledge, 2005): Agriculture (6-9); Agronomy (10-13); Alum (31-32); Sa'id al-Andalusi (34-35); Bayt al-Hikma (80-81); al-Biruni (88-90); Bridges (103-104); Canals (114-155); Clepsydra (126-127); Christopher Columbus (131-133); Communication (135-139); Eyeglasses (167); *Fihrist* (174-175); Ibn Buklarish (246-247); Ibn Majid (252); Instruments, Agricultural (269-271); Irrigation and Drainage (272-275); John Mandeville (326-327); Noria (369-371); Marco Polo (414-415); Roads (447-449); Technological Diffusion (470-472); Toledo (478-481); Translation Movements (482-486).

Encyclopaedia of Islam, 3rd ed. (Leiden: Brill, 2007--): Aqueduct (fasc. 2007-2, pp. 144-146).

Historical Atlas: A Comprehensive Survey of the World (Elanora Heights, New South Wales: Millennium House, 2008): "Ocean's Greatest Explorer" [Captain Cook], pp. 282-285; "Voyage of the Beagle", 312-313.

The Oxford Dictionary of the Middle Ages, Robert E. Bjork, ed., 4 vols.(Oxford & New York: Oxford University Press, 2010): Accounting and Bookkeeping (I, 6), Alum and astringents (I, 47), Archaeology: Iberia (I, 109-112), Field systems (II, 622-23), Noria (III, 1211), Qanat (III, 1376), Saqiya (IV, 1464), Shaduf (IV, 1527), Sugar (IV, 1580), Taula de canvi (IV, 1597), Waterworks (IV, 1717-1719).

Handbook of Medieval Studies, Albrecht Classen, ed. (Berlin: DeGruyter, 2010): "The Arab West" (pp. 1-6); "Technology in the Middle Ages" (pp. 1305-1310).

BOOK REVIEWS

182 book reviews in 43 journals.