

Curriculum Vitae

ROBERT HUGH KARGON

Degrees

Ph.D., History, Cornell University.

D.Sc., honoris causa, University of Westminster (U.K.), 2008.

M.S., Physics, Yale University

B.S., Physics (Summa cum laude), Duke University

Academic Appointments

Willis K. Shepard Professor of the History of Science, The Johns Hopkins University, 1979-

Program Chair, Museum Studies M.A. Program, 2007-

Program Chair, Communication M.A. Program 2001-

Adult Education: Master of Liberal Arts Program, The Johns Hopkins University

Visiting Associate, California Institute of Technology, 1975; 1976

Visiting Professor, Universite de Montreal, 1977

Visiting Professor, Hebrew University of Jerusalem, 1983

Director, Space Telescope History Project, The Johns Hopkins University, 1982-1990

Research Associate, Institute for Policy Studies, The Johns Hopkins University, 1988

ACADEMIC MISCELLANY

Grants

American Philosophical Society

National Science Foundation

American Council of Learned Societies

National Endowment for the Humanities

Maryland Committee for the Humanities

National Air and Space Administration

National Bureau of Standards

The Spencer Foundation

NATO

Professional Service

Scientific Council, Maryland Academy of Sciences, 1978-83

Program Chairman, History of Science Society, 1982

Delegate of History of Science Society to the International Union of the History and Philosophy of Science

U.S. Delegate to the XIIIth International Congress of the History of Science (Moscow, USSR)

Chairman, Pfizer Prize Award Committee of the History of Science Society, 1976

Board of Directors, Baltimore Public Works Museum, 1984-88

Consultant, Smithsonian Institution, for exhibit Science in American Life, 1988-1994

Editorial

Advisory editor, *ISIS* 1971-75; 1984-88

Faculty Editorial Board, The Johns Hopkins Press, 1972-75

Editorial Board, *Historical Studies in the Physical Sciences*, 1975-79

Editorial Board, *Europa*, 1977-81

Editorial Board, *Knowledge and Policy*, 1995-99

Administration

Chairman, History of Science Department, The Johns Hopkins University, 1972-75; 1982-86; 1989-1992; 1996-98

Member, Academic Council, School of Continuing Education, The Johns Hopkins University, 1974-75; 1977-78; 1984-86

Member, Council, History of Science Society, 1976-78

Member, Johns Hopkins Committee on Public Policy, 1979-84

Co-Chair, Science Policy Study Group, Institute for Policy Studies, The Johns Hopkins University, 1988

PUBLICATIONS

Books

Urban Modernity: Cities and Innovation in an era of International Cultural Change (Cambridge MA, MIT, 2010) with Miriam Levin et al.

Science in Victorian Manchester: Enterprise and Expertise (new edition, Piscataway NJ,Transaction Publishers,2009).

Invented Edens Techno-Cities of the 20th Century (Cambridge MA, MIT, 2008) with Arthur Molella

The Rise of Robert Millikan: a Life in American Science (Ithaca, Cornell University Press,1982). **Chinese translation** with new introduction (Shanghai, 1998)

Science in Victorian Manchester: Enterprise and Expertise (Baltimore, Johns Hopkins Press,1977).

Atomism in England: from Hariot to Newton (Oxford, Clarendon Press, 1966).

L'Atomismo in Inghilterra (Bologna, Il Mulino, 1983). [translation of above]

Contributor to R. W. Smith, [with contributions by R. Kargon, et.al.] *The Space Telescope: A Study of NASA, Science, Technology and Politics* (New York and Cambridge, Cambridge University Press, 1989)

Books Edited

(With Peter Achinstein) *Kelvin's Baltimore Lectures and Modern Theoretical Physics* (Cambridge,MIT,1987).

The Maturing of American Science (Washington, DC, AAAS, 1974).

Victorian Science, with G. Basalla, W. Coleman (New York, Doubleday, 1970).

L. Campbell and W. Garnett, *Life of James Clerk Maxwell* (New York: Johnson, 1969).

Walter Charleton, *Physiologia Epicuro-Gassendo-Charltoniana* (New York, Johnson, 1966).

Collections Edited, Special Issues of Journals

Eco-Cities of Asia (with Simon Joss and Arthur Molella), *Journal of Urban Technology* (January 2013)

Visions of the Atomic Age (with Morris Low) *History and Technology* 19 (September, 2003), 175-292.

Museums and Adaptations (with Arthur Molella) *Curator: the Museum Journal* 49 (January, 2006), 5-115.

Articles

“Making Manila Modern: Science, Technology and American Colonialism, 1898-1915” *Historia Scientiarum* 19 (2010): 211-224.

“The US –Japan Nexus: Roots of the Japanese Scientific Enterprise” *Historia Scientiarum* 18 (2008): 62-75 in special issue “Locating Japanese Science and Technology: Place and the Production of Knowledge”

“Exporting MIT: Science, Technology and Nation-Building in India and Iran,” (with S.W. Leslie) in *Osiris* 21 (2006): 110-130.

"The City as a Net of Communications: Norbert Wiener, the Atomic Bomb and Urban Dispersal" (with A. Molrlla , *Technology and Culture* (October 2004)

"Environmental Planning for National Regeneration: Techno-Cities in New Deal America and Nazi Germany" (with Arthur Molella) in Arthur Molella and Joyce Bedi, eds., *Inventing for the Environment* (Cambridge MA, MIT Press, 2003), pp. 107-130.

“Knowledge for Use: Science, Higher Learning and America’s New Industrial Heartland, 1880-1915” (with S.G.Knowles) , *Annals of Science* 59 (2002):1-20.

"Model, Analogy and the Physical Imagination: the Case of the Vortex Atom," in Abdessalam Ben Maissa, ed., *Imagination and Sciences* (Rabat, Publications de la faculte de lettres, Rabat, 2000), pp. 15-35.

"Culture, Technology and Constructed Memory in Disney's New Town: Techno-nostalgia in Historical

Perspective" (with Arthur Molella) in Miriam Levin, ed. *Cultures of Control* (Amsterdam, Harwood, 2000).

"The Obsolescent University? Reconfiguring Higher Education for Regional Advantage,"(with Stuart Leslie) in Karen R. Merrill (ed.) *The Modern Worlds of Business and Industry: Cultures, Technologies, Labor* (Breda, Brepols Publishers, 1999)

"L'atome tourbillonnaire ou la reve de Kelvin," in *Les Cahiers de Science et Vie* (Aout, 1999), pp. 18-21.

"Selling Silicon Valley: Frederick Terman's Model for Regional Advantage," in *Business History Review*, vol. 70 (Fall, 1996): 435-472 (with Stuart Leslie)

"Translating American Models of the Technical University to India and South Korea, " in Martine Barrere, ed., *Sciences et Developpement* (Paris, ORSTOM, 1996), pp. 153-166 (withStuart Leslie).

"Imagined Geographies: Princeton, Stanford and the Boundaries of Useful Knowledge in Postwar America," *Minerva* XXXII (1994): 121-143 (with S.W. Leslie)

"Electronics and the Geography of Innovation in Post-War America," *History and Technology* 11 (1994): 217-231(with S.W. Leslie)

"Colonizing the New World and the Roots of Modern Science," in A. Lafuente, A. Elena and M.L. Ortega, eds., *Mundializacion de la ciencia y cultura nacional* (Madrid, 1993).

"Far Beyond Big Science: Science Regions and the Organization of Research and Development" in P. Galison and B. Hevly (eds.), *Big Science: the Growth of Large Scale Research*, Stanford University Press, 1992

"The Meaning and Use of Historical Models in the Study of Intuitive Physics,"(with Michael McCloskey) in Sidney Strauss, ed, *Ontogeny, Phylogeny, and Historical Development* (1988).

"Henry Rowland and the Physics Discipline in America," *Vistas in Astronomy* 29, 1986.

"Expert Testimony in Historical Perspective," *Law and Human Behavior* 10 (1986): 15-27.

- "Inventing Caltech," *American Heritage of Invention and Technology*, 1 No. 3 (1985): 24-30.
- "Karl Compton, Isaiah Bowman, and the Politics of Science in the Great Depression," *Isis* 76, September, 1985. (With E. Hodes)
- "The Evolution of Matter: Nuclear Physics, Cosmic Rays and Robert Millikan's Research Program," in W.R. Shea, ed., *Otto Hahn and the Rise of Nuclear Physics* (Dordrecht, Holland, 1983).
- "The Future of American Science: an Historical Perspective," in Mark Kann, ed., *The Future of American Democracy* (Philadelphia, Temple, 1983.)
- "Scienza e pubblico negli USA: una prospettiva storica," *Sapere* 49 (#8/9) (1983): 6-10.
- "La Science et son public: le cas des musees americains," *La Recherche* 14 (#147) (1983):1162-1164.
- "Birth Cries of the Elements: Robert Millikan's Route to Cosmic Rays," in H. Woolf, ed., *The Analytic Spirit: Essays in Honor of Henry Guerlac* (Ithaca, Cornell, 1981).
- "Temple to Science: Cooperative Research and the Origins of the California Institute of Technology," *Historical Studies in the Physical Sciences* 8 (1977): 3-31.
- "The Conservative Mode: Robert A. Millikan and the 20th-Century Revolution in Physics," *Isis* 68 No. 244, December, 1977.
- "Atomism in the 17th Century," *Dictionary of the History of Ideas* (1973).
- "The Testimony of Nature: Boyle, Hooke and Experimental Philosophy," *Albion*, September 1971.
- "Corpuscular Philosophy," *Encyclopedia Americana* (1970).
- "Model and Analogy in Victorian Science," *Journal of the History of Ideas*, September 1969.

Short Biographical Studies

"Robert Angus Smith," *Dictionary of Scientific Biography* (1975).

"Arthur Schuster," *Dictionary of Scientific Biography* (1975).

"Henry Roscoe," *Dictionary of Scientific Biography* (1974).

"Osborne Reynolds," *Dictionary of Scientific Biography* (1974).

"William Molyneux," *Dictionary of Scientific Biography* (1973).

"John Harris," *Dictionary of Scientific Biography* (1972).

"Walter Charleton," *Dictionary of Scientific Biography* (1971).

"P.A.M. Dirac," *Encyclopedia Americana* (1970).

"Oliver Heaviside," *Encyclopedia Americana* (1970).

Reviews

Reviews have appeared in *Isis*, *American Historical Review*, *Science*, *Bulletin of the History of Medicine*, *Victorian Studies*, *History*, *British Journal for the History of Science*, *Chronicle of Higher Education*, *The Scientist*, *Annals of Science*.