

Secretary, Society for the History of Technology (SHOT) 2000-2004
Executive Council, SHOT, 1993-96
Program Chairman, SHOT, 1982
Dexter Prize Committee Chairman, 1989

History of Science Society
Advisory Editor
Price/Webster Prize Committee Chairman, 2008

Society of Architectural Historians

Honors

Allan Nevins Prize, Economic History Association
Abbott Payson Usher Prize, SHOT
Thomas Newcomen Award, Business History Society
IEEE Life Members' Prize, IEEE/SHOT
Derek Price/Rod Webster Prize, History of Science Society
George Owen Distinguished Teaching Award (twice)
President's Cup Distinguished Teaching Award

Publications

Books

The Cold War and American Science: The Military-Industrial-Academic Complex at MIT and Stanford (New York: Columbia University Press, 1993)

Paperback edition, March 1994

Boss Kettering: Wizard of General Motors (New York: Columbia University Press, 1983)

Paperback edition, 1986

In progress

Heart of Glass: Corporate Architecture and Urban Renewal (University of Toledo Press, 2011).

The Architects of Modern Science (Johns Hopkins Press)

Articles

“Spaces for the Space Age: William Pereira’s Aerospace Modernism” in Peter Westwick (ed.) Blue-Sky Metropolis: Aerospace and Southern California (University of California Press, 2011)

“Time of Troubles for the Special Laboratories”, forthcoming in David Kaiser (ed.) MIT: Moments of Decision (MIT Press, 2010).

“Laboratory Architecture: Planning for an Uncertain Future” Physics Today 63 (April 2110): 40-45.

“A Different Kind of Beauty: Scientific and Architectural Style in I.M. Pei’s Mesa Laboratory and Louis Kahn’s Salk Institute” Historical Studies in the Natural Sciences 38:1 (Spring 2008) 173-221.

“Toledo’s Perfect Glass Box” Timeline 25 (April-June 2008) 32-47.

“Lynwood Bryant, 1908-2005” Technology and Culture 48, 1, (January 2007):. 236-244.

“Engineering the Cold War” Historia Scientiarum 16 (July 2006) 35-40.

“Exporting MIT: Science, Technology and Nation Building in India and MIT” (with Robert Kargon) Osiris 21(2006) 110-130.

“What History Can Teach Us About Technology and Society” Nexus, 2,2 (Spring 2002) 6-12.

“Blue Collar Science: Bringing the Transistor to Life in the Lehigh Valley” Historical Studies in the Physical and Biological Sciences 32:1 2001, pp. 71-115.

“Regional Disadvantage: Replicating Silicon Valley in New York’s Capital Region” Technology and Culture 42:2 (April 2001) 236-264.

“Industrial Versailles: Eero Saarinen’s Corporate Campuses for GM, IBM, and AT&T” (with Scott Knowles) Isis 92:1 (March 2001) 1-33.

“The Biggest Angel of Them All: The Military and the Making of Silicon Valley” in Martin Kenney (ed.) Understanding Silicon Valley: The Anatomy of an Entrepreneurial Region (Stanford University Press, 2000) 43-71.

“General Motors” in Marc Rothenberg (ed.) The History of Science in the United States: An Encyclopedia (NY: Garland Publishing, 2000) 224-224.

“Reestablishing a Conversation in STS: Who’s Talking? Who’s Listening? Who Cares?”

Bulletin of Science, Technology and Society, 19 (August 1999), 271-280.

“Winning Markets or Winning Nobel Prizes? KAIST and the Challenges of Late Industrialization” (with Kim Dong-Won) Osiris 13 (1999) pp. 219-250.

“The Obsolescent University? Reconfiguring Higher Education for Regional Advantage” (with Robert Kargon) in Karen R. Merrill (ed.) The Modern Worlds of Business and Industry (Brepols, 1998) 121-140.

“Translating American Models of the Technical University to India and South Korea” (with Robert Kargon) in Martine Barrere (ed.) Les Sciences Hors D Occident Au Xxe Siecle, Volume 5 (Paris 1996) 153-166.

“Selling Silicon Valley: Frederick Terman’s Model for Regional Advantage”, (with Robert Kargon), Business History Review, Volume 70 (Winter 1996) 435-472.

"Science and Politics in Cold War America" in Margaret Jacob (ed.) The Politics of Western Science, 1640-1990 (New Jersey: Humanities Press, 1994) 199-233.

"Imagined Geographies: Princeton, Stanford, and the Spatial Dimensions of Knowledge in Postwar America," (with Robert Kargon), Minerva, XXXII, 2 (Summer 1994) 121-143.

"Electronics and the Geography of Innovation in Postwar America," (with Robert Kargon), History and Technology, 11 (1994), 217-231.

"The Costs of McCarthyism" Contention 4 (Fall 1994), 67-76.

"Weaning Universities from the Pentagon," The Chronicle of Higher Education, Dec. 1, 1993) B-1 ff.

"How the West Was Won: The Military in the Making of Silicon Valley," in William Aspray (ed.) Technological Competitiveness in the Electrical and Electronics Industries: Historical and Contemporary Perspectives (New York: IEEE Press, 1993) 75-89.

"Far Beyond Big Science: Science Regions and the Organization of Research and Development," (with E. Schoenberger and R. Kargon), P. Galison and B. Hevly (eds.) Big Science: The Growth of Large Scale Research (Stanford University Press, 1992).

"The Bug: Boss Kettering's Cruise Missile", Timeline, (Aug.-Sept. 1991) pp. 42-51.

"Samuel Wesley Stratton," Dictionary of Scientific Biography, Supplement II, v. 18, (New York: Scribners, 1990) 887-88.

"Lyman James Briggs" Dictionary of Scientific Biography, Supplement II, v. 17, (New York: Scribners, 1990) 102-04.

- "From Backwater to Powerhouse" The Stanford Magazine (March, 1990), 55-60.
- "Charles Franklin Kettering," in George S. May (ed.) The Automobile Industry to 1920 (New York, 1990), 243-260.
- "Profit and Loss: The Military and MIT in the Postwar Era," Historical Studies in the Physical Sciences, 21:1 (1990), 59-85.
- "Andrew Carnegie," in Paul Paskoff (ed.) Iron and Steel in the Nineteenth Century (New York, 1989), 47-71.
- "Communities of Nineteenth Century Science and Technology," Reviews in American History (June 1989), 232-37.
- "Playing the Education Game to Win: The Military and Interdisciplinary Research at Stanford," Historical Studies in the Physical Sciences. 18:1 (1987), 55-88.
- "Technological Literacy: Faulty New Maps of an Old Chasm," Baltimore Sun, March 1, 1986, 4L.
- "From Lab to Soap Box," Technology Review (May/June 1988), 66-70.
- "Rewriting Baltimore's Past: The Uses and Abuses of History," Baltimore Sun, July 14, 1985, p. C1+.
- "Steeple Building at Stanford: Electrical Engineering, Physics, and Microwave Research," (with Bruce Hevly), Proceedings of the IEEE, 73, 7 (1985) 1169-1180.
- "Politics and Electrical Technology: Who Prevails?" Urban Resources, 3, 1 (1985) 55+.
- "Boss Kettering's Scientific Foxhunt," Timeline (December, 1984), 11-19.
- "The 'Lost Exhilaration' of American Technology," in David Houshell, ed., The History of American Technology: Exhilaration or Discontent? (Occasional Papers from the Hagley Museum and Library, 1984).
- "When Research Was Young," Research Management, (September, 1982).
- "The Urban Habitat: The City and Beyond," Technology and Culture, (July, 1982), 417-429.
- "Thomas Midgley and the Politics of Industrial Research," Business History Review, (Winter, 1980), 480-502.
- "Charles F. Kettering and the Copper-cooled Engine," Technology and Culture (October,

1979), 752-776.

Book Reviews

Review of Meredith L. Clausen *The Pan Am Building and the Shattering of the Modernist Dream*, in Journal of Regional Science Vol. 46, No. 2, 2006, pp. 390-392.

“Science suffers in the Right’s political war on reality” The Baltimore Sun, September 18, 2005 Sunday Final Edition

Joyce Bedi, *Exploring the Art and Science of Stopping Time: A CD-ROM Based on the Life and Work of Harold E. Edgerton* in Isis, Vol. 96, No. 1 (Mar., 2005), pp. 143-144

Review of Steve Mellon, *After the Smoke Clears: Struggling to Get By in Rustbelt America* Technology and Culture - Volume 45, Number 4, October 2004, pp. 864-866

Review of Thomas Soderqvist (ed.) *The Historiography of Contemporary Science and Technology in H-SCI-MED-TECH* (March 1998)

Review of John V. Pickstone (ed.) *Medical Innovations in Historical Perspective* in The Bulletin of the History of Medicine, 72 (1998), pp. 144-146.

Review of Lawrence Badash, *Scientists and the Development of Nuclear Weapons: From Fission to the Limited Test Ban Treaty, 1939-1963* in Isis, 88 (Mar. 1997) pp. 158-159.

Review of Osiris, 2nd ser., vol 7: *Science After* 40 in Technology and Culture, 35 (Oct. 1994) pp. 881-883.

Review of Ann Markusen et. al., *The Rise of the Gunbelt: The Remapping of Industrial America* in Science (13 November, 1992) pp. 1168-69.

Review of Joan Bromberg, *The Laser in America* in Technology and Culture, 34 (July 1993) pp. 709-11.

Review of Judith Goodstein, *Millikan's School: A History of the California Institute of Technology* in Physics World, 5 (April 1992) pp. 51-52.

Review of Donald MacKenzie, *Inventing Accuracy: A Historical Sociology of Nuclear Missile Guidance* in IEEE Annals of the History of Computing, 14 (1992) pp. 69-70.

Review of Peter J.T. Morris, *The American Synthetic Rubber Research Program* in Journal of American History (March 1991) pp. 372-73.

Review of Sheila Slaughter, *The Higher Learning and High Technology: Dynamics of Higher Education Policy Formulation in Science, Technology, and Human Values*, 16 (Spring 1991) pp. 261-63.

Review of David Wilson (ed.) Universities and the Military in Science (14 May 1990) pp. 870-71.

Review of H. Bruce Franklin, War Stars in Science (6 January 1989), 101-02.

Review of Margaret B. Graham, RCA and the Videodisc in Isis 79:1 (March 1988) 160-61.

Review of Weldon B. Gibson, SRI, Vol I. The Founding Years, Vol II, The Takeoff Years in Isis 78:4 (Dec. 1987) 600-02.

Review of Leonard Reich, The Making of American Industrial Research; Science and Business at GE and Bell, 1876-1926 in The Journal of Economic History XLVII, 2 (June 1987) 565-66.

Review of M. Anbar and S. J. Reiser, The Machine at the Bedside: Strategies for Using Technology in Patient Care in Bulletin of the History of Medicine 60 (1987) 619-20.

Review of John Rae, The American Automobile Industry in Technology and Culture, 27, 4 (1986) 892-93.

Review of A. Michal McMahon, The Making of a Profession: A Century of Electrical Engineering in America in Isis 77, 33 (Sept. 1986) 554-56.

Review of David Noble, The Forces of Production: A Social History of Industrial Automation in Technology and Culture 27, 1 (Jan. 1986) 158-60.

Review of M. Roe Smith (ed.), Military Enterprise and Technological Change in Science 231, 4735 (Jan. 17, 1986) 277-78.

Review of Joel W. Eastman, Styling vs. Safety: The American Automobile Industry and the Development of Automotive Safety, 1900-1966, in Bulletin of the History of Medicine 59, 1 (1985) 142-43.

Review of Frank P. Davidson, Macro: A Clear Vision of How Science and Technology Will Shape Our Future in Technology and Culture, 26, 3 (1985) 656-58.