GENERAL STUDIES


- John Harris. Industrial Espionage and Technology Transfer: Britain and France in the Eighteenth Century. Ashgate (1-800-535-9544), 1998. 678 pp., illus. $110.95. Rivalry between the two nations and the methods used by France to obtain skilled manpower and technology which had given Britain the edge, particularly in the new coal-based technologies.


- Ian Inkster. Technology and Industrialization: Historical Case Studies and International Perspectives. Ashgate (1-800-535-9544), 1998. 336 pp. $89.95. Essays embrace case studies of Britain, Japan, Europe, China, India, and Australia from ca. 1700 to present. A political economy approach to industrial and technological history.


- David C. Mowery and Nathan Rosenberg. Paths of Innovation: Technological Change in 20th-Century America. Cambridge Univ. Pr., 1998. 216 pp., $27.95. The internal combustion engine, electricity, and chemistry as areas of innovation that have dominated the century.

- Darwin Stapleton. Introducing... Clean Water. I&IT (Winter 1999), pp. 24-35. The career and legacy of engineer Benjamin H. Latrobe with focus on plans to bring fresh water to American cities in the early 19th century.


RAILROADS

- Cagney’s Locomotive Works, Suppliers of Complete Miniature Railroads. Fidalgo Reprints (1617 32nd St., Anacortes, WA 98221-3382), 1998. 48 pp. $14.50 pdp. Reprint of Cagney’s 1901 catalogue, the most famous name in small, passenger carrying steam railroads. Includes 16 pages of history and information on preserved locomotives. Also reproduced is a very rare Cagney brochure from the Pan-American Exposition, Buffalo, NY, 1901.


- J. I. Lillie. The Enemy, Oxidation. Chemical processes that lead to failure of the boiler tubes and firebox in a steam locomotive. New Boiler Tubes. Replacement of tubes in Pere Marquette locomotive 1225 and how choices were made to vary from PM’s method of tube installation to ensure stability and long life. Project 1225 89 (Nov. 1995) Avail: The Michigan State Trust for Railway Preservation, Inc., P.O. Box 665, Owosso MI 48867-06665.

- Robert Lochte. Reducing the Risk: Woods, Phelps, Edison, and the Railway Telegraph. Timeline 16,1 (Jan./Feb. 1999), pp. 42-54. Inventors scrambled to perfect a system that would prevent collisions, but the railroads were unimpressed.


Westinghouse Air Brake Co. *Instruction Leaflet No. 2388, January, 1947: Feed Valve Code of Tests and Repair Instructions.* ARM Reprint Books (33 Ashland St., Manchester NH 03104), 1995. A second reprint of the leaflet provides a diagrammatic view of the piping arrangement for testing type B, C, and M feed valves and the code of tests for these valves used in air brakes on streetcars, interurbans, and steam and diesel locomotives.


**WATER TRANSPORTATION**


Elinor De Wire. *Guardians of the Lights: The Men and Women of the U.S. Lighthouse Service.* (Avail.: Elinor De Wire, P.O. Box 654, Gales Ferry CT 06335-0654). 317 pp., illus., biblio., index. $32 ppd. Based on archival material and personal interviews, presents a portrait of the lighthouse keeper in America from the first official lighthouse established in 1716 to the early 1980s when automation replaced the last "guardian of the light."


**AUTOMOBILES & HIGHWAYS**


### Other Transportation


Marc Dieriks. **Fokker: A Transatlantic Biography.** Smithsonian Pr., 1997. 250 pp., illus. $35. Anthony Fokker, legendary aircraft designer and manufacturer.

Steve Harrison. **Another First for the Wright Brothers.** CRM 18 (No. 10 1995), pp. 46-7. Summary of analyses of a crankcase fragment held at Wright Brothers National Memorial museum which proved that it was the crankcase from the first flight in 1903 and also that the Wrights were the first aviators to use precipitation-hardened aluminum-copper alloy.

Peter Jakab. **Visions of a Flying Machine: The Wright Brothers and the Process of Invention.** Smithsonian Inst. Pr. (1-800-782-4612), 1997. 272 pp., illus., $15.95. Research on how the brothers visualized concrete solutions to difficult technical problems that had baffled the best-trained scientists and engineers for over a century.


Jennifer Reese. **Streetcar Suburbs: Preservation** (Jan./Feb. 1999), pp. 52-57. San Francisco suburb of Sunset where the houses were literally made of trolley cars.

Walter Rice and Val Lupiz. **1947: The Year San Francisco Nearly Lost Its Powell Street Cable Cars.** VR (Sept./Oct. 1998), pp. 82-88. The political fight and protest that led to the street cars’ preservation. Includes description of cable car operations.

### Agriculture & Food Processing


### Bridges & Tunnels


Frederic D. Schwarz. **Don’t Lower the River, Raise the Bridge.** I&T (Fall 1998), pp. 8-9. Efforts to save the 1868 Zoarville bridge, America’s only surviving Fink through-truss bridge.


### Buildings & Structures


WATER CONTROL & RECLAMATION


IRON & STEEL


MINES & MINING

> W. Julian Parton. Death of a Great Company: Reflections on the Decline and Fall of the Lehigh Coal and Navigation Company. Canal History and Technology Pr. (30 Centre Sq., Easton, PA 18042; (610) 559-6617. 123 pp., illus., map, $15.95. Problems that led to the closing of one of Pennsylvania’s oldest anthracite companies in 1954. Author was a company engineer and manager.

POWER GENERATION


TEXTILES


ABBREVIATIONS:


I&T = American Heritage of Invention & Technology

PH = Public Historian

R&LHS = Railway & Locomotive Historical Society

RH = Railroad History

T&C = Technology & Culture

VR = Vintage Rails

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Publications of Interest

**General Interest**

- Christopher Andreae. *Lines of Country: An Atlas of Railroad and Waterway History in Canada*. Stoddart Publishing (1-800-805-1083; e-mail: gdsinc@genpub.com), 1998. 560 photos; 39 full-page color maps; 238 oversize pages; 1,375 lines, companies, agencies, indexed and chroni
cled. $75 US, $95 CDN. Useful reference work with out-
standing maps and encyclopedic attention to detail.

- Dennis Arbogast, Fred A. Klancnik, and David Bodamer. *This Time with Feeling*. Civil Engineering 68 (Oct. 1998), pp. 56-9. Redevelopment and reuse projects, including waterfronts in Racine, Kenosha, and Sheboygan, WI. Transformation of a former airforce base into a planned residential community.

- David Edgerton. *Science, Technology and the British Industrial ‘Decline,’ 1870-1970*. Cambridge Univ. Pr. (New York), 1996. 88 pp., index. Using previously unknown statistical data, draws new and controversial conclusions about British innovation and technical training since 1870 and pro-
vides a guide to the debates about the subject.


- Alvin Johnston. *A Time to Fish and a Time to Dry Nets—Lake of the Woods*. Lakewood Publishing Co. (Box 907, Warroad, MN 56763), 1996. 260 pp. $16 ppd. paper. A vivid picture of what life was like around Lake of the Woods, inc. chapters on hunting, mink ranching, logging and politics, by a commercial fisherman who worked the lake and was alobbyist for the Minnesota Fish Producers Assn.

- Ohio Valley Historical Archaeology. Published annually. Avail: Kit Wesler, Wickliffe Mounds Research Center, Box 155, Wickliffe, KY 42087-0155. Vol. 11 - $18; Vol. 12 - $17; Vol. 13 - $18. Shipping - $1.50 first vol., $1 each addi-
tional. Recent issues include:


- A. W. Skempton, ed. *Civil Engineers and Engineering in Britain, 1600-1830*. Valorium, 1996. 338 pp, illus. $107.95. Collection of papers by author of over 45 years of study. Includes early professional societies, biographies, river naviga-

- Ann and Jurgen Wilde and Thomas Weski, eds. Albert Renger-Patzsch: Photographer of Objectivity. M.I.T. Press, 1998. Photos. $60. Renger-Patzsch was a leader in the New Objectivity movement and embraced modern industrialism, taking photographs of trains, machines, quarries and slag heaps. He is credited with being a stylistic model for Bernd and Hilla Becher who “portray the decline and fall of the very industrial order he glorified.” Originally published in Germany, this book collects 113 of his b & w photos from the 1920s to 1960s.

**Railroads**

ered diesel locomotive production at Schenectady, NY from the late 1940s to 1969 when the plant ceased production.

Albert Churells. From Steam to Diesel: Managerial Customs and Organizational Capabilities in the 20th-Century American Locomotive Industry. Princeton Univ. Pr., 1999. $45. How GE and GM drove established steam locomotive builders out of business. According to Hank Rentschler [SIA], “this book is a must read for anyone interested in some of the earliest manufacturers of locomotives, and how they failed to make the transition to modern, diesel locomotives. This dissertation is also a classic study of enormous successes of certain industrial production techniques and how later management, in full control of their destiny, made mistake after mistake, and ultimately destroyed what had taken decades to build . . . Churells has an excellent grasp of the technical aspect of locomotive manufacturing, along with related business and financial matters.”

Ken Frazer. The Making of a Railroad Signalman. VR (Mar./Apr. 1999), pp. 50-54. Firsthand account of the initiation into the signalman’s job on the Lackawanna RR in the 1940s.

H. Roger Grant. Railroads in the Heartland: Steam and Traction in the Golden Age of Postcards. Univ. of Iowa Pr. (Iowa City), 1997. 181 pp., illus. $29.95. Collection of more than 100 postcards organized by category: railroad landscapes, depots, other railroad facilities, people and the iron horse, and electric interurban lines, and printed one per page with a lengthy caption describing the view and putting it in context. The five chapters document railroading in Ohio, Ind., Ill., Mich., Wisc., Minn., Iowa, and northern Missouri from 1905 to 1915.


Aaron Isaacs, ed. Twin City Lines-The 1940s. Minnesota Transportation Museum (3816 Vincent Av. S., Minneapolis MN 55410), 1995. 38 pp., illus. $10.00 ppd. Heavily illustrated booklet transports the reader back to “the last decade of really first class public transit in the Twin Cities.” Uses extensive quotes from people who rode and worked on the cars and includes a glossary of streetcar terms.


O. Winston Link. The Fading Giant: Sounds of Steam Railroading. O. Winston Link Railway Productions (4920 Buckhorn Road S. W., Roanoke, VA 24014). CD recording. $20. Unavailable for years, sounds of the Norfolk and Western captured on 1950s state-of-the-art recording equipment by the photographer of the last days of steam.

Arthur C. McConnell. “A Greater Victory:” The Brotherhood of Sleeping Car Porters in St. Paul. Minnesota History 55 (Spr. 1997), pp. 202-216. The influence of St. Paul activists in the establishment of the national union and in breaking the stranglehold that the Pullman Co. had over its African-American porters. Good descriptions of what work life was like for the porters. Ample attention to the support provided by wives who continued union organizing and fundraising while the porters were on the road.

Michael Malone. James J. Hill, Empire Builder of the Northwest. Univ. of Oklahoma Pr. (Norman), 1996. 306 pp., maps, bibliog., index. $29.95. This treatment is half the length of earlier Hill bios by Joseph Pyle and Albro Martin but benefits from scholarship considered unseemly by the former and unavailable to the latter. Rev.: Minnesota History 55 (Fall 1996), pp. 131-2.


William D. Middleton. At the Heart of the New York Central. VR (Mar./Apr. 1999), pp. 56-66. Scenes along the Hudson River in the 1940s and 1950s. Also restoration of Grand Central Terminal.


Water Transportation

Scott F. Anfinson. The Wreck of the USS Essex. Minnesota History 55 (Fall 1996), pp. 94-103. A 19th-c. sloop of war designed by one of America’s foremost architects, Donald McKay. It was later assigned to the Minnesota Naval Militia in Duluth for training and later converted to offices. It was finally sold for scrap and burned at Minnesota Pt. in Lake Superior where the wreck remains.

Material History Review 48 (Autumn 1998) is a theme issue dedicated to Ships, Seafaring and Small Craft. Includes: John Summers, “Probably the Most Beautiful Rowboat Afloat:” The Form and Meaning of the St. Lawrence Skiff; Hallie Bond, The “Featherweight and the Backwoods” and the Evolution of the Pack Canoe; Brad Loewen, Recent Advances in Ship History and Archaeology, 1450-1650: Hull Design, Regional Typologies and Wood Studies; David McGee, The Amsler Integrator and the Burden of Calculation; Scott M. Stroh III, Snapboats and “Dead-Heads”: Interpreting Maritime History Onboard the W. T. Preston; Reflecting and Reliving Watermen’s Work; Nicolas Landry, Culture matérielle et niveaux de richesse chez les pêcheurs de Plaisance et de l’île Royale, 1700-1758. MHR is published twice yearly by the National Museum of Science & Technology, Box 9724, Station T, Ottawa, Ontario K1G 5A3.

Edward A. Mueller. Upper Mississippi River Rafting Steamboats. Ohio Univ. Pr. (Athens), 1995. 117 pp., illus. A compendium, in words and pictures, of the owners, crew members, and boats that plied the river, tending the gigantic log rafts en route to sawmills downstream from the 1860s until 1915.

Edward A. Mueller. Steamships of the two Henrys : being an account of the maritime activities of Henry Morrison Flagler and Henry Bradley Plant. E. A. Muller, Jacksonville,
Steamboat lines in Florida and the men who built them.


**Air Transport**


**Power Generation**


Larry Buhr. *Lost to History: The A. L. Cole Generating Station and Its Industrial Heritage.* Saskatoon History Review (SHR) v. 13, pp. 24-36 (1998). Venerable Western Canadian power generating site and numerous adaptive reuse attempts which ultimately failed. Avail: Distributor, SHR, 674 University Dr., Saskatoon, SK, S7N OJ2, Canada.

Robert Coates-Stephens. *The Gods are Back in Power. Country Life,* 15 October 1998. Reuse of the 1912 Art Nouveau Montemartini power station in Rome’s old industrial quarter as a temporary exhibition space for the Greek and Roman sculpture collection of the Musei Capitolini while the museum undergoes a long-term restoration. The classical marble heads and torsos are displayed against the background of the powerhouse’s boilers and turbines.


**Mines & Mining**


Aharon Oren and Carol D. Litchfield. *Early Salt Production at the Dead Sea and the Mediterranean Coast of the Holy Land.* Journal of Salt History v. 6 (1998), pp. 7-18. International journal of salt history includes many articles and miscellaneous items on salt mining and production from ancient times to present.

**Bridges**


George A. Gesner and José Jardim. *Bridge within a Bridge.* Civil Engineering 68 (Oct. 1998), pp. 44-7. Two automobile lanes and a railroad deck were added to the Tagus River Bridge, completed in 1966. When built, it was the longest bridge in Europe and inc. the world’s longest continuous truss.


**Water Control & Reclamation**

Peter C. Mackall. *Rivers and the Making of a Nation.* Southwest History Center (Southwest State University, Marshall MN), 1995. 22 pp., $3.00 + $1.50 p &h. Examines the historical manipulation of the nation’s rivers and some of the untoward consequences of our national hubris.

BUILDINGS & STRUCTURES


- Ronald C. Tobey. Technology as Freedom: The New Deal and the Electrical Modernization of the American Home. Univ. of Calif. Pr., 1997. 316 pp., illus. $35. The role of New Deal programs, especially the TVA, in bringing a plethora of electrical appliances into the average American residence.

LOGGING & LUMBERING


TEXTILES


- Maureen Fennell Mazzaoui, ed. Textiles: Production, Trade and Demand. Ashgate Publishing Ltd. (Old Post Rd., Brookfield VT 05036-9704), 1998. 352 pp. $107.95. Textiles within the expanding global economy in the Age of European Exploration. Looks at responses to competition, evolving techniques and modes of production, and changes in the patterns of consumption of local and imported cloth in a comparative cross-cultural context. Individual essays focus on world regions and individual countries, such as Iran, British North America, Spanish colonial America, Brazil, China, Southeast Asia, India, and West Africa.

IRON & STEEL

- Gregory Galer, Robert Gordon and Frances Kemmish. Connecticut’s Ames Iron Works: Family, Community, Nature, and Innovation in an Enterprise of the Early American Republic. Connecticut Academy of Arts & Sciences (Box 208211, New Haven, CT 06520; (203) 432-3113), 1999. $13.95 ppd. The difficulties and complexities of establishing an industrial enterprise in the 1830s and the struggles undertaken by Horatio Ames and his associates through 1870. This may have been the first ironworks in the country to initiate wood-fired puddling. It was also the site of heavy forging of large shafts, locomotive tires, and wrought-iron cannon. Innovation, reinvestment, and dogged entrepreneurship did not assure success.

ABBREVIATIONS:

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
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<tbody>
<tr>
<td>I&amp;T</td>
<td>American Heritage of Invention &amp; Technology</td>
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<tr>
<td>PH</td>
<td>Public Historian</td>
</tr>
<tr>
<td>R&amp;LHS</td>
<td>Railway &amp; Locomotive Historical Society</td>
</tr>
<tr>
<td>RH</td>
<td>Railroad History</td>
</tr>
<tr>
<td>T&amp;C</td>
<td>Technology &amp; Culture</td>
</tr>
<tr>
<td>VR</td>
<td>Vintage Rails</td>
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A Supplement to Vol. 28, No. 2

GENERAL INTEREST


➤ Massimino Negri. *The Preservation of the Sites and Monuments of Industrial Archaeology, and Programmes for Their Conversion into Museum.* TICCIH Bulletin (Spring 1999), pp. 3-4. Sweden’s Bergslagen Ekomuseum and Italy’s Crespi d’Adda presented as case studies of large-scale industrial sites and efforts to interpret them to the public as industrial heritage moves into the mainstream of the European preservation movement. Bergslagen Ekomuseum comprises nearly 60 sites and an enormous area of forest where iron was extracted at the end of the 12th century. Crespi d’Adda, a cotton mill and company town, was built between 1878 and 1900. It is considered one of Italy’s finest IA sites.


MISC. INDUSTRIES

➤ Tim Allen. *Copperas, the First Major Chemical Industry in England.* IAN (Winter 1998), pp. 2-3. Excavation of 16th c. copperas works near Whitstable, Kent. Copperas was a metal sulphite, produced by a noxious and dangerous process of boiling liquid containing sulphuric acid. It was used principally as a dye fixative for woolens, but also used for the embryonic pharmaceutical industry and for other purposes including tanning, the manufacture of ink, and as a sheep dip.


Andre Millard. America on Record: A History of Recorded Sound. Cambridge Univ. Pr., 1995. 413 pp., illus., biblog., index. Describes jazz, blues, swing, rock, rap, and movies against the business and technological background of sound recording, incl. such developments as cylinders, 78 rpm discs, 45 rpm microgroove singles, and compact discs.


Agriculture & Food Processing


Cecilia Danysk. Hired Hands: Labour and the Development of Prairie Agriculture, 1880-1930. McClelland and Stewart (Toronto), 1995. 231 pp. $18.95. Transformation of the farm worker that accompanied the development of mechanized farming in western Canada. Originally viewed as equals, accumulating cash and experience, they became hired hands faced with the prospect (after all the good farmland was gone) of being wage laborers for life, in conflict with their employers and the government which stifled their attempts to unionize.


Textiles


Mark Watson. Nemesis for the Scottish Textile Industry? IAN (Summer 1999), p. 4. Last jute spinning mill in UK closes. Includes other sites visited by the SIA study tour.

Power Generation


Water Control & Reclamation

CONTRIBUTORS TO THIS ISSUE

Susan Appel, Champaign, IL; Richard Candee, York, ME; Eric DeLony, Washington, DC; Don Durfee, Houghton, MI; Mary Habstritt, New York, NY; Jay Harding, Palmyra, NY; Eric DeLony, Washington, DC.

With thanks
MINES & MINING


IRON & STEEL


BRIDGES


BUILDINGS & STRUCTURES


AIR TRANSPORT


ABBREVIATIONS:

IAN = Industrial Archaeology News
I&T = American Heritage of Invention & Technology
PH = Public Historian
T&C = Technology & Culture
VR = Vintage Rails

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SIA member Dan Mayer died on May 6. Dan was a museum consultant and an avid railroad fan, who rarely missed a chance to attend SIA conferences and tours accompanied by his wife Martha. He will be missed by his many SIA friends.

Dan specialized in exhibition design and developed exhibits for such museums as Eckley Miners' Village, the New York State Historical Association, the Scranton Iron Furnace, the Vermont Folklife Center, and the Historical Association of Cedarburg, WI. He also worked for the Historic American Engineering Record in Seattle and installed the Urban Cultural Park Visitor's Center in Albany.

For many years Dan was a professor in the Cooperstown Graduate Program in Museum Studies from which he graduated in 1973. It is a two-year program leading to a master's degree in museum studies, and it is located on the campus of the New York State Historical Association and the Farmers' Museum in Cooperstown, NY. Founded in 1964, it is one of the most well-respected graduate programs of its kind, with over 600 graduates. The graduate students were very special to Dan. His friends and colleagues have established the Daniel D. Mayer Scholarship Fund in his honor. The award will be given to a student who shares Dan's enthusiasm for exhibitions, and perhaps even railroads! Tax-deductible contributions are being accepted: Dan Mayer Scholarship Fund, Cooperstown Graduate Program, Box 800, Cooperstown, NY 13326.
PUBLICATIONS OF INTEREST

GENERAL INTEREST


- Demeter Fertis and Anna Fertis. *Historical Evolutions of Infrastructure: 15,000 Years of History*. New York: Vantage Pr., 1998. 191 pp. illus. $18.95. The evolution of infrastructure from ancient times to the present, taking into account the influences of each period’s leaders in literature, mathematics, architecture and science.

- Forgotten NY. Website includes photographs of remnants of New York City’s past. Some, like the subway images, are accompanied by historical information, while others, like those of the former Flushing airport, have only sketchy captions. If you’re interested in looking for traces of the past in NYC, this may at least provide inspiration.

- Industrial Archaeology News is the quarterly newsletter of the Association for Industrial Archaeology (AIA) in Great Britain. In addition to news of IA events in the UK, its Autumn 1999 issue included articles on Bath’s Industrial Museum, Routeways over Standlege (over 200 yrs. of transportation history over a pass in the Pennine watershed), and A Proposed Limekiln Typology. The newsletter, as well as the association’s scholarly journal IA Review, are benefits of AIA membership. Back issues available. Also available: David Eve, *A Guide to the Industrial Archaeology of Kent*. 60 pp. Produced for the AIA’s 1999 conference. The format is similar to guidebooks to SIA annual conferences. Info: AIA Office, School of Archaeological Studies, Univ. of Leicester, Leicester LE1 7RH, UK; e-mail: AIA@le.ac.uk.

- Industrial Patrimony: Resources, Practices, Cultures is the new journal of TICCIH. The first issue (1999) includes (in English): Hans Kania, Zollverein Colliery on preserving a large-scale industrial landscape in the Ruhr; Piotr Gerber, *The Project and Realization of the Museum of Industry and Technology in Walhbrzych*, the creation of an industrial museum at a coal mine in Lower Silesia; Gyorgyi Nemeth, The Miskolc-Diosgyor Ironworks, industrial preservation in northeast Hungary; Eugene Logunov, *Iron Ore and the Iron Works of the 18th-20th c. in the Urals*, threats to Russia’s iron heritage in the transition to a market economy; Orjan Hamrin, *Preserving and Interpreting the Flatenberg Foundry*, a museum in Bergslagen, Sweden; Stuart B. Smith, *The Death of Industry Yet the Growth of Heritage*, on historic mines in Cornwall; Franco Mancuso, *Safeguarding the Industrial Heritage and the New Needs of the City: The Case of Venice*, problems preserving industrial sites in cities that predate the industrial revolution; Michael Cotte, et. al., *Restoring and Reusing Historical Bridges in Kyushu Island*, efforts to preserve bridges on one of Japan’s main islands. The journal is available from: Écomuseé de la Communauté Urbaine Le Creusot-Montceau les Mines, Industrial Patrimony Journal, Chateau de la Verrerie, B.P. 53, F 71202, Le Creusot Cedex, France. $51; $41 TICCIH members; $35 students.

- Richard W. Iobst. *Civil War Macon*. Mercer Univ. Pr., 1999. 450 pp., photos. $35. In the heart of the Confederacy, Macon (GA) was considered a secure location for hospitals, prisons, and industry. Three chapters (101 pp.) detail difficulties in the face of wartime shortages, of converting the Findlay Iron Works to a cannon foundry, manufacturing small arms, and building a laboratory to improve and standardize ordinance.


Mary Habstritt, New York, NY; and Patrick Harshbarger, SIAN editor.

Winter 1999


**RAILROADS**


**WATER TRANSPORTATION**

**RAILROADS**


**WATER TRANSPORTATION**


Ronald Paxton and Jean Leslie. *Bright Lights: The Stevenson Engineers 1752-1971*. (Avail: Prof. Roland Paxton, Civil & Offshore Engineering, Heriot-Watt Univ., Edinburgh EH14 4AS, U. K., but all checks made to: Gillespie Macandrew.) 207 pp., illus., US $46 by check via sea mail; $52 air. Canada, if you can, $17.95 plus £3.50 sea mail, £7.00 air. “A premier study” of the canal, according to the reviewer. Rev: *RH* (Spring 1999), p. 163.

Jerry Stockbridge. Move It or Lose It: Saving the Cape Hatteras Lighthouse. Structures (Fall 1999), pp. 36-38. (Published by the Nat’l Council of Structural Engineers Assoc., Inc.) When the shoreline encroached on the 1870 lighthouse, engineers and other specialists picked it up and rolled it away.

John R. Ward. The Little Ships That Could. I&IT (Fall 1999), pp. 34-43. Building destroyer escorts in Denver and Duluth during WW II.

AUTOMOBILES & ROADWAYS


POWER GENERATION


WATER CONTROL & RECLAMATION


CONTRIBUTORS TO THIS ISSUE

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BRIDGES


Steven Gatke. Crib Trestles and Bridges. Timber Times (Issue 21, June 1999), pp. 28-32. Fascinating photos of “Lincoln Log” style bridges used by West Coast logging railroads. Surely enough to make a bridge engineer’s hair stand on end, but they appear to have worked quite satisfactorily and with reasonable safety.


Barbara Moran. A Bridge That Didn’t Collapse. I&IT (Fall 1999), pp. 10-19. Maine’s Deer Isle bridge was built at the same time as the Tacoma Narrows, and with virtually the same design. One difference: it still stands.

The Rebuilding of Victoria Bridge, 1897-1899. Canadian Rail (May/June 1999), pp. 59-87. An exhaustive and well-illustrated history of the Grand Trunk RR’s truss bridge at Montreal. Canadian Rail is the bi-monthly magazine of the Canadian Railroad Historical Assoc., 120 Rue St-Pierre, St. Constant, Quebec J5A 2G9. Membership in the CRHA includes a subscription. $36CA/$31US.

Rafail Veksler and Abhay P. Thorat. The Arch Bridge Mystery. Civil Engineering, Sept. 1999, p. 48-51. Evaluation, including investigating the reason for significant concrete spalling in spite of loads and wind stresses well within allowable limits, and the planned restoration of the historic Manayunk railroad bridge in Philadelphia.

BUILDINGS & STRUCTURES

Paul Marsden and Timothy Whitman, eds. The Top 10 Construction Achievements of the 20th Century. KHL International (Southfields, Southview Rd., Wadhurst, East Sussex TN5 6TP, UK), 1999. 272 pp., illus. $64.95. Based on nominations made at Conexpo-Con/Agg 99, an exhibition for the construction, aggregate and concrete industries, and a final vote by industry executives and editors, this list includes such projects as the Golden Gate Bridge and Hoover Dam. Multiple photos and diagrams of initial designs, work in progress and the completed projects are accompanied by detailed accounts that include problems encountered during construction.

Charles P. Roberge, et. al. Saving the Exeter Street Theater. Structures (Fall 1999), pp. 17-21. (Published by the Nat’l Council of Structural Engineers Assoc., Inc.) Innovative repairs to wood roof trusses in the 1885 theater in Boston.


(continued on page 19)
CHAPTER NEWS

Samuel Knight (California) has been working on the restoration of a 1909 flatcar at the California State Railroad Museum. They have also been continuing their work to help save the Knight Foundry. Chapter members helped organize a new not-for-profit Knight Foundry Preservation Society, which has negotiated terms to purchase the foundry. The chapter held a two-day tour to the Marin Headlands to view historic lighthouses and military installations including bunkers and gun batteries from WW II.

The New England Chapters held their combined winter meeting and papers session at Plymouth (NH) State College in early February. In January, the Southern NE Chapter toured the Belcher Malleable Iron Foundry in Easton, MA.

Oliver Evans (Philadelphia) toured the construction of a new combined sewer overflow being built in an underground tunnel near the Fairmount Waterworks in November. The annual Filmfest, hosted by Lance Metz, was held in December.

NOTES & QUERIES

agement for participation in the symposium. Registration (including lodging and meals) is available to TIMS members for $1,000. In addition to the formal symposium, TIMS members in North America have organized three optional pre-symposium tours. These will visit steam, water, and electrically powered mills in Missouri; watermills in northern Virginia and West Virginia; and, wind engines (American-style pumping windmills) in Texas. Info: Derek Ogden, TIMS America, HCR 5, Box 339, Madison, VA 22727; (540) 672-1303; fax 672-0218; e-mail: butler_j@mediask.net.

The European Federation of Associations of Industrial and Technical Heritage (E-FAITH) is a new organization established to promote cooperation and communications between non-profit associations involved in the recording, conservation, development, management, and interpretation of industrial sites in Europe. Among the group’s aims is to launch a campaign for a European Industrial and Technical Heritage Year. Information is available on the website of the Flemish Assoc. for Industrial Heritage: www.conservare.be/vvia/Euro2002/E-Faith.htm.

Paper proposals are invited for the conference, Kitchens: Design, Technologies, and Work at the Hagley Museum and Library, Wilmington, DE, Nov. 10, 2000. Proposals may address household, commercial, and industrial kitchens in North America after 1850. Of interest are changing design and technology of kitchens and their contents (such as appliances and furniture), the social relations of kitchen work (cooking, cleaning, etc.) within firms or households, and the spatial relationships inside kitchens, as well as between kitchens and other spaces in homes or institutions. Proposals are due by Apr. 21, 2000 and should include an abstract of no more than 500 wds. and a brief c.v. Info: Roger Horowitz, Center for the History of Business, Technology and Society, Hagley Museum and Library, Box 3630, Wilmington, DE; (302) 658-2400; e-mail: rh@udel.edu.

PUBLICATIONS OF INTEREST

(continued from page 11)

TEXTILES


IRON & STEEL


David Weitzman. Pouring Iron: A Foundry Ghost Story. Houghton Mifflin, 1998. Surely to please adult SIAers and children, alike. In this fictional account, the real Knight Foundry (1875, Sutters Creek, CA) is seen through the eyes of a boy, Howard, a modern-day apprentice, who meets foundrymen (ghosts from the past) who show him their craft. Rich in detail, it goes step-by-step through the making of the mold to the pouring of the iron with the ghost story adding suspense and mystery. Illustrated with beautiful line drawings by Weitzman (author and illustrator of another SIA favorite Superpower). The Knight Foundry was a featured site of the 1996 SIA annual conference.

ABBREVIATIONS:

I & T = American Heritage of Invention & Technology
IAN = Industrial Archaeology News (UK)
IAR = Industrial Archaeology Review (UK)
NCPTT = National Center for Preservation Technology & Training, National Park Service
RH = Railroad History
TICCIH = The International Committee for the Conservation of the Industrial Heritage

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We endeavor to make citations as complete as possible, but they are from a variety of sources, and are sometimes incomplete. If a date, publisher, price, or other statistic is missing, it simply means that it was unavailable, and, unfortunately, we do not have the time to track down these missing bits. The SIA, unless otherwise noted, is not a source for any of the cited works. Readers are encouraged to use their library, bookstore, or school for assistance with locating books or articles.
PUBLICATIONS OF INTEREST

GENERAL INTEREST

➤ American Memory: Historical Collections for the National Digital Library. Web Site: http://memory.loc.gov/ammem/anyhome. The Library of Congress Web site allows searches for images, documents, and sound recordings in various historical collections, including HABS/HAER; railroad maps; the Farm Security Admin. photographs; and the Detroit Publishing Co. photographs, a collection of 25,000 glass negatives and transparencies from a project where a specially outfitted railroad car was sent across the country in 1902 to document the former frontier. There is a wealth of images related to industry and technology. The search engine allows searching by keyword or subject. Some individual collections allow searching by photographer or geographic location.


➤ Arnold Pacey. Meaning in Technology. MIT Press, 1999. 272 pp., illus., $27.50. How an individual's sense of purpose and meaning in life can affect the shape and use of technology.


➤ Small Town America: Stereoscopic Views from the Robert Dennis Collection. Web site: http://digital.nypl.org/stereoviews. The NY Public Library has digitized selected historical collections, and this is one of the first collections of photographs to be put on its Web site. (Another on the history of transportation is due soon.) The stereoviews of small towns and cities in NY, NJ, and CT are grouped by location and can be searched by keyword. Many images of bridges, mills, and transportation.

➤ Edward Tenner. Why Things Bite Back: Technology and the Revenge of Unintended Consequences. Knopf, 1996; 1997 pap. 346 pp., bibliog., index. $26; $13 pap. 20th-c. technology that improved conditions only later to develop adverse consequences or “revenge effects.” Examples include automobiles, which were viewed as solving the sanitary problems of horse-drawn vehicles only to result in a different kind of pollution as well as traffic jams; football helmets, which have led to more violent play, and carpal tunnel syndrome, brought on by improvements in office technology, but which goes back to the days of telegraph operators, who developed “glass arm.”


➤ G. Pascal Zachary. Endless Frontier: Vannevar Bush, Engineer of the American Century. MIT Press, 1999. 528 pp., illus. $22. Biography of cofounder of Raytheon, whose initial success was based on long-lasting radio tubes, and President Roosevelt’s engineering advisor, who oversaw the work of the Manhattan Project.


Mines & Mining


➤ Janet L. Finn. Tracing the Veins: Of Copper, Culture, and Community from Butte to Chuqicamata. Univ. of Calif. Pr., 1998. 309 pp., bibliog., index, maps. $45; $16.95 pap. Double history of two Anaconda mining communities: Chuqicamata, Chile, and Butte, Montana. Connections between people in company towns in the First and Third Worlds.

➤ J. S. Holliday. Rush for Riches: Gold Fever and the Making of California. Univ. of Calif. Pr., 1999. 336 pp., illus. $50. Frames the gold rush years within the larger story of the state’s transformation from a Mexican hinterland to the forefront of capitalism.

➤ A. Bernard Knapp, Vincent C. Pigott & Eugenia W. Herbert, eds. Social Approaches to an Industrial Past: The Archaeology and Anthropology of Mining. Routledge, 1998. 306 pp., bibliog., index. $75.00. Iron production in Cyprus in the Iron Age, in Thailand, in the Alps in the Bronze Age, in pharaonic Egypt, and in Africa during the colonial period; and modern mining communities in Australia, the U.S., and Cornwall. Social life in mining communities with respect to gender issues, prostitution, religious institutions, class, and race.


Logging & Lumbering


➤ Thad J. Sitton and James H. Conrad. Nameless Towns: Texas Sawmill Communities, 1880-1942. Univ. of Texas Pr., 1998. 271 pp., photos. $37.50; $18.95 pap. Sawmill communities in Texas from oral history, company records, and other archives. The companies that ran the mills, the jobs involved in logging and milling, and the rough-hewn towns themselves.

Agriculture & Food Processing


➤ Donation to Archives Center Reveals One Inventor’s Life. Lemelson Center News (Summer 1999), pp. 1-2. Avail: Lemelson Center, Smithsonian NMAH, 14th St. and Constitution Ave. NW, Washington, DC 20560. Everett H. Bickley (1888-1972), noteworthy as the developer of a photoelectric bean sorter widely used in canneries and storage elevators.


once numerous distilleries. The golden years of Irish distilling were just over 100 years ago, but during the first two decades of the 20th century, the industry was in chaos from loss of the American market to Prohibition and the English market to politics following the establishment of the Irish Free State. Only in recent years has the industry made a comeback.

IRON & STEEL

➤ James R. Bennett. Tannehill and the Growth of the Alabama Iron Industry. Avail: Tannehill Ironworks, 12632 Confederate Parkway, McCalla, AL 35111; (205) 477-5711. 488 pp., illus., photos, maps. $22.95 paper. $38.95 hardback. Daniel Hillman's ironworks from 1830 to its destruction by Union soldiers in 1865.


TEXTILES


➤ Claudio Zanier. The Valorisation of Silk Heritage in Italy. Building Viable Tourist Itineraries around Historical Uniqueness. Industrial Patrimony, v. 2, pp. 9-14. Efforts to develop silk factories as tourist sites in Italy.

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With thanks

MISC. INDUSTRIES

➤ Stephen B. Adams and Orville R. Butler. Manufacturing the Future: A History of Western Electric. Cambridge Univ. Pr., 1999. 270 pp., illus. $34.95. First full-length history of the Western Electric Co. Telegraphs, telephones, radios, and an early computing machine, demonstrate that vertical integration, after WE's acquisition by Bell Telephone in 1882, was a lengthy process rather than a single event; maturation of industrial psychology; civil rights in corporate America.


➤ Reginald Bennett. The Mountains Look Down: A History of Chichester, A Company Town in the Catskills. Purple Mt. Press (Box E3, Fleischmanns, NY 12430-0378; 914-254-4062; www.catskill.net/purple), 1999. 143 pp., $18.50 ppd., paper. An anecdotal history by a resident of a self-contained Catskill furniture-making town, which thrived in the late-19th century and fell on increasingly hard times in the 20th century, until the whole place was auctioned in 1939. The technology of the mills and the broader web of personal, social, and economic factors.


POWER GENERATION


➤ Charles Bazerman. The Languages of Edison's Electric Light. MIT Press, 1999. 478 pp., illus. $39.50. How Edison and his colleagues represented light and power to themselves and to others as the technology was transformed from an idea to a daily fact of life.


Buildings & Structures


Anne Elizabeth Powell. Back from the Brink, Civil Engineering (Oct. 1999), pp. 52-57. Two-decade-long decision-making process that finally ended in the successful move of the Cape Hatteras Lighthouse in the summer of 1999. The engineering challenges of the move itself are also discussed.


Water Control & Reclamations

Diane Galusha. Liquid Assets: A History of New York City’s Water System. Purple Mt. Press (Box E3, Fleischmanns, NY 12430; 914-254-4062; www.catskill.net/purple), 1999. 303 pp., $40.50 ppd., hardbound. Amazingly, the history of New York City’s immense water supply system has never before been recounted in a full-length book. The social, economic, political, engineering, and technological history of this vast three-century, multibillion-dollar enterprise, whose branches reach out across lower NY State.

Lance Helwig, et al. Safe Passage. Re-design of the fish bypass system at the Bonneville Dam on the Columbia River. Although the dam incorporated a fish ladder when it was built in 1938, many improvements have been made over the years, of which this is but the latest.

Barbara Vilander. Hoover Dam: The Photographs of Ben Glaha. Univ. of Arizona Pr., 1999. 168 pp., photos, $24.95. Glaha was the project photographer assigned to record every aspect of the construction of Hoover Dam. His photos were used to demonstrate the progress and financial viability of the project, but he also produced photos that were exhibited as works of art in galleries and museum. His work is placed within the context of western landscape art.


Railroads


Steeling a Ride. Lake Superior Magazine (April/May 1999). Burlington Northern-Santa Fe ore dock operations in Superior, WI.


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PUBLICATIONS OF INTEREST

COMPiled By
Mary Habstritt, New York, NY; and Patrick Harshbarger, SIAN editor.

GENERAL INTEREST


RAILROADS


➤ Shawn M. Herne.  The Railroad Timekeeper.  The B&O RR Museum (901 W. Pratt St., Baltimore, MD 21223; (410) 539-2311), 1999.  32 pp., illus. $7.  Guide to railroad clocks in the museum collection.  Includes overview history of railroad timekeeping, photos, and brief history of each clock.


➤ Railroad Heritage is a new quarterly magazine of the Center for Railroad Photography and Art.  It showcases historic and contemporary railroad photography and art including ephemera such as advertising, calendars, brochures, and engravings.  The first issue (Spring 2000) includes Arthur H. Miller, Photo Archives in the Donnelley Railroad Collection; Memorable Rail Photographs of the 20th Century (images selected from the Center's traveling exhibit); Michael Zega, PRR's Colonel Frank N. Barksdale, Inventor of the Limited Book (limited trains advertised by illustrated booklets); Storm Limits Exposure: Korling’s Great Depression-Era Photo (account
Notes From the President

Keeping the Industrial Past Alive

By Carol Poh Miller

On Saturday, June 3rd, at the SIA annual business meeting in Duluth, I took the reins from President Sandra Norman. It is gratifying if a bit overwhelming to stand at the helm of the Society for Industrial Archeology at this particular moment in time—at the start of a new century and as we, the North American forum for industrial archeology, stand poised to mark our 30th anniversary next year.

As a preservationist and historical consultant, I have long been high on the SIA, finding tremendous personal and professional value in its activities and publications, and special pleasure in the camaraderie of its diverse membership. On the rolls are architects, archeologists, engineers, museum specialists, planners, teachers, students, retirees, and many non-professionals for whom industrial archeology is an exciting avocation. Yet, while our present membership stands at 1,700—highest in SIA history—that number seems surprisingly small when one considers the seemingly exponential growth of interest in both historic preservation and heritage tourism.

As vice president, one of my duties was to oversee production of a new SIA membership brochure, a task I undertook with great pleasure. Featuring a compelling image of Cleveland’s historic Central Furnaces, together with selected process tours SIA has hosted over the years, the brochure represents a collaborative effort by the board of trustees. Through the wonder of e-mail we labored over the text and images until we were all comfortable that we’d gotten it right—succeeded in describing, in a nutshell, who we are and what we do.

So … with the goals of breaking 2,000 and increasing the vitality and programs of the SIA, I invite each of you to help spread the word. Surely you have a friend, acquaintance, or family member who is interested in the physical survivals of our industrial and technological past—in understanding how things were (and are) made and how industry and technology have shaped our environment and our history.

Keep the industrial past alive—by recruiting a new member to join the SIA! For membership brochures, drop a postcard to SIAHQ at the address on page 1 of this newsletter. Or call 906-487-1889; or e-mail us at sia@mtu.edu.

I look forward to working with each you during the next two years to advance the cause of IA and, of course, to toasting SIA at 30 at next year’s annual conference in Washington, D.C.

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Reading list of recent publications on dieselization.


- David A. Mendell.  War, Technology, and Experience aboard the USS Monitor.  Johns Hopkins Univ. Pr., 2000.  224 pp.,
ill. $35 hc, $14.95 pb. Examines the experience of men aboard the famous ironclad from the perspective of the thrills and dangers that accompanied the new machine.

**Automobiles & Highways**


- Preserving the Historic Road in America Conference Proceedings. CD-ROM presents over 60 papers addressing the identification, preservation, and management of historic roads. April 2000 conference held in Morristown, NJ. $29 ppd. Avail: Karen VanGilder, Rural Heritage Program, National Trust for Historic Preservation, 1785 Massachusetts Ave., NW, Washington, DC 20036.


**Water Control & Reclamation**


**Buildings & Structures**

- John A. Martini. *Base End Stations.* Samuel Knight Chapter SIA Newsletter 10 (June 2000), pp. 8-11. Concrete bunkers that dot the California coastline served as the “eyes” for artillery batteries. They helped gunners calculate ranges to enemy ships. The earliest permanent stations date from 1908 and they continued to be built through 1945. Describes construction techniques and range-finding operations.


**Bridges**

- King Bridge Co. Web Site. www.kingbridgeco.com. Info on history of King Bridge Co. of Cleveland and location of extant company bridges.

- Gerald M. Kuncio. *Golden Age in the City of Bridges.* Western Pennsylvania History (Summer 1999), v. 82, 2, pp. 58-73. The building of Pittsburgh’s great river bridges, 1924-1940.


- David A. Simmons. *A Lowell Perspective.* Timeline (July/Aug. 2000), pp. 52-54. 1884 photo offers clues to the ill-fated history of bridge building over the Muskingum River at Lowell, OH.


**Mines & Mining**

- Brian Black. *Petrolia: The Landscape of America's First Oil Boom.* Johns Hopkins Univ. Pr., 2000. 248 pp., photos. $42.50. The boomtown mentality justifies laying waste to the environment for “the common good.”

- Roger Burt. *Innovation or Imitation? Technological Dependency in the American Nonferrous Mining Industry.*

**Contributors to this Issue**

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*With thanks*
Captions for Photos in Blast Furnaces by Bernd & Hilla Becher (1990). In spite of the Becher's artistic intent to have the stunning blast furnace photos speak for themselves as images, John Teichmoeller and Michael Rabbit, in conjunction with members of the Railroad Industry Special Interest Group, have compiled detailed captions to the photos of North American blast furnaces in the Becher's 1990 book. The material is now available for viewing and output at the RRISIG's Web site: nrl.io/rrisig.


Judith Scheffler. “...there was difficulty and danger on every side”: The Family and Business Leadership of Rebecca Lukens. Pennsylvania History (Summer 1999). The problems faced by Lukens as she operated the ironworks that later became Lukens Steel. Despite opposition from her family, she took over the business after her husband died in 1825.

TEXTILES


John Kifner. Museum Brings Town Back to Life: Converted Factory Is Economic Catalyst for Massachusetts City. NY Times, May 30, 2000, p. A-14. Sprague factory complex in North Adams is adaptively reused to showcase large modern artworks. The project was opposed as a $35 million boondoggle when conceived and financed in the early 1990s, but it has turned the dying industrial city around with more than 130,000 visitors during its first year of full operation.


Agriculture & Food Processing


ABBREVIATIONS:

ALHFAM = Assoc. for Living History, Farm and Agricultural Museums
I&T = American Heritage of Invention & Technology
IA News = Industrial Archaeology News (UK)
IA Review = Industrial Archaeology Review (UK)
MHR = Material History Review (CAN)
R&LHS = Railway & Locomotive Historical Society
T&I = Technology & Culture: Quarterly of the Society for the History of Technology
TICCIH = The International Committee for the Conservation of the Industrial Heritage

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SOCIETY FOR INDUSTRIAL ARCHAEOLOGY

NEWSLETTER

A Supplement to Vol. 29, Nos. 3–4

Fall 2000

PUBLICATIONS OF INTEREST

COMPiled BY
Mary Habstritt, New York, NY; and Patrick Harshbarger, SIAN editor.

GENERAL INTEREST

Frederick Allen. Technology at the End of the Century. I&T (Winter 2000), pp. 10-16. Compares 1899 with 1999 to draw lessons about technological change, and to refute common perception that the “information age” is more chaotic than the “industrial age.”

Torsten Berg and Peter Berg, eds. R. R. Angerstein’s Illustrated Travel Diary, 1753-1755: Industry in England and Wales from a Swedish Perspective. National Museum of Science and Industry (Avail: Gazelle Book Services, Falcon House, Queen Sq., Lancaster, LA1 1RN, U.K.; www.gazellebooks.co.uk), 2000. 43 pp., illus., £34.95. Angerstein was an industrial spy who traveled through Europe in the 1750s supported by the Swedish government, gathering information about trades and emerging technology. The diary of his trip to Britain is extraordinary for its quality of observation and insight, its comparative nature, and the large number of detailed illustrations. Coal, tin and copper mines, porcelain factories, iron foundries, smithies and workshops, rolling and slitting mills, chemical factories, waterworks, etc. This is the first published English-language translation.


Copperopolis: Landscapes of the Early Industrial Period in Swansea. Royal Commission on the Ancient and Historical Monuments of Wales (Plas Crug, Aberystwyth, Ceredigion, Wales SY23 1NJ, UK), 2000. 400 pp., illus., £32. Swansea was the first major industrial region in Wales, and its preeminence as an international center of copper smelting at the end of the 18th c. earned it the title of Copperopolis.


Ruins of Detroit. Web site has information on Detroit IA sites. www.bhere.com/ruins/toc.htm#industrial.


CHEMICALS

The DuPonts in Delaware: 200 Years. Wilmington (DE) News Journal, June 18-19, 2000. Two 8-page, pull-out sections celebrate the history of the family that established the famous blackpowder works on the Brandywine River (now Hagley Museum & Library) and went on to be leaders of the chemical industry.


Anne Cooper Funderburg. Making Teflon Stick. I&T (Summer 2000), pp. 10-20. General Motors researchers discovered Teflon by accident and teamed with DuPont to develop it in the 1930s. Significant obstacles had to be overcome to produce and market Teflon successfully.

Dorothy Hosler, Sandra L. Burkett, and Michael J. Tarkanian. Prehistoric Polymers: Rubber Processing in Ancient Mesoamerica. Science (June 18, 1999), v. 284, pp. 1988-
1990.  Ancient peoples harvested latex, processed it using liquid extracted from a species of morning glory vine, and fashioned rubber balls, figurines, and other artifacts.

> Arnold Thackray and Minor Myers, Jr.  **Arnold O. Beckman: One Hundred Years of Excellence.**  Chemical Heritage Foundation (1-888-224-6006, ext. 2222), 2000.  379 pp., illus., $65 includes CD-ROM video.  The blacksmith's son who played a pivotal role in the development of scientific instruments for the chemical and biomedical industries.  In 1934, he created the first of his inventions, the pH meter.

**MISC. INDUSTRIES**


> Christina Bates.  **Wearing Two Hats: An Interdisciplinary Approach to the Millinery Trade in Ontario, 1850-1930.**  MHR 51 (Spring 2000), pp. 16-25.  A collection of 500 hats from a Sarnia millinery shop provides documentation for the industry in the 1920s and 1930s.

> Regina L. Błaszczyk.  **Imagining Consumers: Design and Innovation from Wedgewood to Corning.**  Johns Hopkins Univ. Pr., 2000.  368 pp., illus. $39.95.  Trials and tribulations of china and glassware producers in their contest for the hearts of working- and middle-class women, who made up more than 80 percent of those buying mass-produced goods by the 1920s.

> Bruce Epperson.  **Failed Colossus: Strategic Error at the Pope Manufacturing Co., 1878-1900.**  T&C, v. 41,2 (April 2000), pp. 300-320.  Early bicycle manufacturer rode the wave of success with innovative armory production technology and aggressive patent and market strategies, then foundered when bicycle mfr. was standardized and failed upon entering the automobile market.

> David Gwyn.  **Power Systems in Four Gwynedd Slate Quarries.**  IAR 21,2 (1999), pp. 83-100.  Slate industry of NW Wales dominated world production of roofing slates in the 19th c.  Power sources were a blend of water and steam.

> Robert H. Lochte.  **Going Wireless in 1880.**  I&T (Summer 2000), pp. 28-35.  Alexander Graham Bell's attempts to develop a photophone, a wireless telephone that used sound to modulate a beam of light.

> Michael Trueman.  **Lime Kilns—Modelling Their Technological Development.**  IA News (Spring 2000), pp. 4-5.  A typology for lime kilns based on mixed-feed, separate feed, intermittent, and continuous processes.

> Curt Wohleber.  **The Can Opener.**  I&T (Summer 2000), pp. 6-7.  Technological evolution of the can opener.

**RAILROADS**


> Keith Falconer.  **Swindon’s Head of Steam: The Regeneration of the GWR’s Works.**  IP v.3 (2000), pp. 21-28.  Opening a new railway museum at Great Western Railway former main engineering works at Swindon, U.K.


> Robert A. Le Massena.  **Design-It-Yourself Locomotive.**  RH (Spring 2000), pp. 22-57.  illus.  Railroad companies avoided standardization of the 4-8-4 locomotive, resulting in an extraordinary number of variations in the first half of the 20th c.


> David A. Pfeiffer.  **Commuter & Light Rail Station Photographs.**  R&LHSN v. 20,3 (Summer 2000), pp. 10-11.  Info on a National Archives collection of 3,500 images taken by USDOT in 1979 to document handicapped accessibility at metropolitan stations.  Includes uncommon interior views of ticket windows, restrooms, waiting areas, stairs, and exits.

> J. W. Swanson.  **Vanishing Triangles.**  RH (Spring 2000), pp. 84-87.  illus.  Triangular-shaped catenary (electrified wires) over four-track main line of New Haven RR near Stamford, CT.  Placed in 1908, it may be the oldest high-voltage catenary still in existence from the early period of railroad electrification in the Northeast.  It is scheduled for replacement, but the railroad is being encouraged to preserve a representative segment.

> Wilma Ruth Taylor and Norman Thomas Taylor.  **This Train Is Bound for Glory: The Story of America’s Chapel Cars.**  Judson Pr. (Valley Forge, PA), 1999.  382 pp.  Church missions on rails.  Authors are restoring the last Baptist chapel car.
AUTOMOBILES & HIGHWAYS


➤ Christian W. Overland. Celebrating Detroit: Assembling an Automobile National Heritage Area. SCA Journal (Fall 1999), pp. 10-17. Up to $1 million per year for ten years is available in federal matching funds to interpret and preserve automobile-related heritage in southern Michigan.

➤ Leonard S. Reich. The Dawn of the Truck. I&T (Fall 2000), pp. 18-25. Trucks caught on much more slowly than cars, partly because of the expense, partly because horses did a good job, and partly because people had to figure out what trucks could do.


HAER 2001 Summer Employment. The Historic American Buildings Survey/Historic American Engineering Record (HABS/HAER), a division of the National Park Service, seeks applications from qualified individuals for summer employment documenting historic sites and structures of architectural and technological significance. Duties involve on-site field work and preparation of historical reports and measured and interpretive drawings for the HABS/HAER Collection at the Prints and Photographs Division of the Library of Congress. Projects last twelve weeks, beginning in May or June. Salaries range from entry level positions at $4,500 to more senior positions at approximately $8,500 for the summer, depending on job responsibility, location of the project, and level of experience. Applicants for positions as architects, landscape architects, historians, engineers, illustrators, industrial designers, and industrial archeologists must submit the following:

- A résumé and/or U.S. Government Standard Form OF-612 (You DO NOT have to specify whether you wish to work for HABS or HAER.)
- Supplemental Qualifications Statement (OPM Form 1170) or college transcript
- Letter of recommendation from a faculty member or employer familiar with your work
- Appropriate work samples (copies of portfolios, articles, class papers, etc.)
- CAD Background and Experience Inquiry Form (for Architects and Architecture Technicians to be considered for CAD-based projects)

Applicants who have worked for HABS/HAER since Summer 1995 need submit only complete, current forms OF-612, OPM-1170, or current resume, and SF-50 (Notification of Personnel Action). Forms OF-612 and OPM-1170 are available at Federal office buildings, many employment agencies, campus job placement centers, and from HABS/HAER at the following address. Submit application materials to: Summer Program Administrator, National Park Service, HABS/HAER Division, 1849 “C” St., N.W., Room NC300, Washington, DC 20240.

For more information: (202) 343-9626/9618; e-mail: robyn_brooks@nps.gov. Applications must be postmarked by February 15, 2001. Positions are open only to U.S. citizens. Successful candidates will be notified by telephone between late April and early May 2001. Please provide a telephone number and, if possible, e-mail address, for that time period. For more information and to download application forms, visit the HABS/HAER Web site: www.cr.nps.gov/habs/haer/joco/summer-jobs.htm.

Michigan Technological University invites applications for a tenure-track assistant or associate professor in industrial or historical archeology. Appointment begins August 2001. Includes teaching at the undergraduate level and in the masters program in industrial archeology. The masters program emphasizes field-based learning and archeological science in the comparative study of 19th- and 20th-century industrial sites and communities. Upper Michigan’s historic mining locations and extractive industries provide a rich base for local resources and research. Candidate should demonstrate an active research record combined with excellent teaching skills; geographical area(s) of specialty open. Ph.D. required; competitive salary and benefits. Review of applications begins on Dec. 15, 2000 and will continue until the position is filled. Send letter of application, c.v., and sample of scholarly work, and letters from three references to Dr. S. R. Martin, Chair, IA Search Committee, Dept. of Social Sciences, MTU, Houghton, MI 49931. Program description at www.social.mtu.edu/1A/iahm.html. MTU is an Equal Opportunity Educational Institution/Equal Opportunity Employer.
AVIATION

➤ American Aviation, the Early Years is a theme issue of CRM: Cultural Resource Management, v. 23, 2 (2000), published by the National Park Service. Included are Jody Cook and Ann Deines, Cultural Resources, People, and Places of Aviation’s Early Years; Tom D. Crouch, Flight in America, 1784-1919; Darrell Collins and Ann Deines, Counting Down to the Centennial of Flight; Marla McEnany, From Pasture to Runway, Managing the Huffman Prairie Flying Field; Tom D. Crouch, Octave Chanute, Aeronautical Pioneer; Jeanne Palermo, Restoration, Preservation, and Conservation of the 1905 Wright Flyer III; Paul R. Green, Preserving Aviation Heritage Resources in the U.S. Air Force; Jody Cook, A Place Called Langley Field: National Significance in American Military and Civil Aviation; Suzanne P. Allan, Rehabilitating Building 661 at Langley Air Force Base.


POWER GENERATION


BRIDGES

➤ Eric DeLony. Tom Paine’s Bridge. I&T (Spring 2000), pp. 38-45. In addition to his famous political writings, Tom Paine designed, patented, and modeled a long-span iron bridge. Although his engineering was doubtful, he spread the word about an engineering revolution in the making.

➤ Emory Kemp. The Wheeling Suspension Bridge, the 150th Anniversary. IP v.3 (2000), pp. 67-70.

BUILDINGS & STRUCTURES

➤ John S. Allen. A History of Horseley, Tipton: 200 Years of Engineering Progress. Landmark Publishing (Waterloo House, 12 Compton, Ashbourne, Derbyshire DE6 1DA, U.K.; landmark@clara.net), 2000. 176 pp. £17.95. Commencing coal mining at Tipton at the end of the 18th c., the Horseley Co. developed into an important engineering and structural ironwork company, whose output included cast-iron bridges and buildings, locomotives, steamboats, steel pipes, and gasholders.


➤ Candace Clifford. Moving Lighthouses. CRM, v. 22, 9 (1999), pp. 36-40. Lighthouses have a long history of being moved culminating in the recent attention given to the Cape Hatteras project.

➤ Fitzgerald & Halliday, Inc. and Historical Perspectives, Inc. Fort Trumbull: Ramparts, Subs and Sonar. New London Development Corp. (Avail: Connecticut Historical Commission, 59 S. Prospect St., Hartford, CT 06106; 806-555-3005; davepoirier@lyrical.com), 2000. Fort Trumbull guarded Connecticut’s Thames River from the American Revolution to the Cold War. The fort housed the U. S. Navy’s underwater sound lab.


ABBREVIATIONS:

CRM = Cultural Resources Management, published by the National Park Service
IA News = Industrial Archaeology News (UK)
IAR = Industrial Archaeology Review (UK)
I&T = American Heritage of Invention & Technology
IP = Industrial Patrimony (FRA), Journal of the Int’l Committee for the Conservation of the Industrial Heritage (TICCIH)
MHR = Material History Review
R&LHSN = Railway & Locomotive Historical Society Newsletter
RH = Railroad History
SCA = Society for Commercial Archeology Journal
T&G = Technology & Culture: Quarterly of the Society for the History of Technology
VAN = Vernacular Architecture Newsletter

Publications of Interest is compiled from books and articles brought to our attention by you, the reader. SIA members are encouraged to send citations of new and recent books and articles, especially those in their own areas of interest and those obscure titles that may not be known to other SIA members. Publications of Interest c/o the SIA Newsletter, 305 Rodman Road, Wilmington, DE 19809.

We endeavor to make citations as complete as possible, but they are from a variety of sources, and are sometimes incomplete. If a date, publisher, price, or other statistic is missing, it simply means that it was unavailable, and, unfortunately, we do not have the time to track down these missing bits. The SIA, unless otherwise noted, is not a source for any of the cited works. Readers are encouraged to use their library, bookstore, computer, or school for assistance with locating books or articles.
GENERAL INTEREST


- Vicki Goldberg. *Lewis W. Hine: Children at Work*. Prestel, 1999. 104 pp., photos. $39.95. As an investigative photographer for the National Child Labor Committee, Lewis Hine documented children working in mines, mills, fish canneries, factories, and on the streets from 1906 to 1918. His purpose was to use his photos to create social change. This book contains over 90 of his finest works.


MINES & MINING


- James Ferguson. *Expectations of Modernity: Myths and Meanings of Urban Life on the Zambian Copperbelt*. Univ. of Calif. Pr., 1999. 326 pp., bibliog. $17.95. Modern miners struggle to get on with their lives after decades of economic decline following the industrialization of northern Zambia’s copperbelt in the 1920s and 30s.


Univ. Pr., 1999. 286 pp., biblog. $24.95. Prehistoric copper mining and use around Lake Superior and, through trade, in parts of the eastern U.S.


- Tom Zoellner. **Oil and Water.** I&T (Fall 2000), pp. 44-52. History of offshore drilling beginning in the 1940s.

**IRON & STEEL**


- Matthew Kierstead. **W(h)ither the Stone Ironworks Building?** NECN 19 2 (1999), pp. 4-6. Pre-Civil War stone-walled ironworks buildings are endangered.


- Calvin Lieberman. **Creative Destruction.** I&T (Fall 2000), pp. 54-63. History of specialized machinery to reclaim steel from junk cars.

**TEXTILES**


- Run of the Mill. **Preservation** (Nov./Dec. 1999), pp. 79-81. Saving the Dan River textile mill complex, Danville, VA.

- **Textiles: Threads Through Time** is a theme issue of the ALHFM Bulletin 30,3 (Fall 2000) devoted to period clothing and textiles. Includes: Tom Shaw, Researching Common Clothing; Charles LeCount, The Linen “Market” Wallet; Karen Mullian, Shift to Chemise; or a Tempest in a Teapot; Nancy Webster, “Gather Up the Fragments”: Some Examples of Virginia Slave Clothing Textiles; Flax Break—A Must Have; Lynne Z. Basset, Laura Ingalls Wilder, A Resource for Clothing Historians; Todd Stockwell, Burton Cotton Gin; Debra Reid, Comforters in Cotton Country.

**AGRICULTURE & FOOD PROCESSING**

- **Art of the Draw—Advertising Posters from the McCormick-International Harvester Collection.** On-line version of Wisconsin State Historical Museum exhibit. Evolution of agricultural machinery with colorful and sometimes fanciful advertising art from the museum’s collection of more than 200,000 photos and 3,000 posters. www.shs.wisc.edu/artofthedraw.

- Dmitry Babalis. **Conservation and Development of Industrial Sites in Lucca, the Full Integration of the Royal Tobacco Manufacture within the Planning Process.** IP v.3 (2000), pp. 37-40. Origin and growth of cigar and cigarette plant in Tuscany, Italy, during 19th and early 20th c. Plant will close in two years, and efforts are under way to find alternative use.

- Steve Barry. **Something Big on the Horizon: The Wooden Elevators of Saskatchewan Are Coming Down.** Railfan & Railroad, Jan. 2001, pp. 32-39. If you want to visit the wooden grain elevators of western Canada, you can’t leave soon enough. The elevators are coming down rapidly as operations are consolidated at high-throughput elevators, massive concrete structures holding ten times the grain of local elevators.


- Moira F. Harris. **Louise’s Legacy: Hamm Family Stories.** Pogo Press (4 Cardinal Lane, St. Paul, MN 55127; 615-483-4692), 1999. 160 pp., photos, bibliog. $15.95. Pogo’s fourth book to focus on the Hamms, Minnesota’s great brewing family, offers photos and a selection of newspaper accounts of the early days of the brewery. Based on the recollections of Louise Muller, the granddaughter of Theodore and Louise Hamm, who made many of the company’s business decisions.

- Steven J. Keillor. **Cooperative Commonwealth: Co-ops in Rural Minnesota, 1859-1939.** Minnesota Historical Society Pr., 2000. 500 pp. $35. Multidimensional history gives special attention to political movements, including the Grange and the Farmer-Labor Party, that spawned or influenced cooperatives. The role of ethnicity, religion, and technology are considered in shaping the character of the cooperative movement in one of the most cooperative-minded states in the Union, where there existed 600 cooperative creameries, 270 farmers’ elevators, and hundreds of rural telephone associations. Compares the economic model of
the cooperative, based on grassroots democracy, to that of the corporation, based on the power of accumulated wealth. Rev: MH 57 (Fall 2000), pp. 155-156.


- Alison Watts. The Technology that Launched a City: Scientific and Technological Innovations in Flour Milling during the 1870s in Minneapolis. MH 57 (Summer 2000), pp. 86-97. Written by the first student winner of a special history-day award that allows the student to publish in Minnesota History and participate in the publication process. Article summarizes the technological solutions developed by Minneapolis millers to mill the hard red spring wheat that grew so well in Minnesota’s climate but made poor flour when milled using old gist mill methods. These innovations made the city the milling capital of the world.

### LOGGING & LUMBERING

- Mary T. Bell. Cutting Across Time: Logging, Rafting, and Milling the Forests of Lake Superior. Nodin Pr. (525 N. 3rd St., Minneapolis MN 55401), 1999. 96 pp., illus., maps. $29.95. History of the John Schroeder Lumber Co., which logged along the North Shore of Lake Superior and the Apostle Islands from 1872 to 1939. The many kinds of workers and skills needed to run a logging operation, camp life, log rafting, and the milling process. Illustrated with period and contemporary photos, maps, and watercolors, some in color.

- Paul Fahlstrom. A Short History of Old Cloquet: White Pine Capital of the World. Carlton County Historical Society (406 Cloquet Ave., Cloquet, MN 55720; (218) 879-1938; chs@cpinternet.com), 1997. 170 pp., photos, index. $15.00. The city, rebuilt after the great forest fire of 1918, was a Weyerhaeuser enclave and is still an important wood products center, home of Diamond Brands and Potlatch [SIA 2000 Annual Conference].


### RAILROADS


- James B. Cabellero. Semaphore Blades by Night. RH (Autumn 2000), pp. 62-81. Different 19th-c. attempts to make semaphore signals visible in the dark. Illustrates and describes a variety of blades illuminated by reflected or transmitted light, or illuminated by lamps, lights, or tubes on the blades.


- Historic Railroads: A Living Legacy is a theme issue of CRM, v. 22,10 (1999). Includes: Susan Kraft and Gordon Chappell, Historic Railroads in the National Park Service and Beyond; Colin Divall, Railroads as World Heritage Sites; Kenneth and Lisa Kraft, 19th- and 20th-C. Potawatomi Culture and the Railroad; Adrienne Anderson and Rick Wilson, The Unheralded Resources of Golden Spike National Historic Site; Gordon Chappell, A Grand Canyon Railway: Project for a New Century, the 20th; Susan Kraft, Through the Greatest Gateway to the Greatest Park; Dudes on the Rails to Yellowstone; Dale Martin, Livingston: A Railroad Town and Its Depot; Robert C. Hoyle, To the Tetons by Train; Paul Shea, Union Pacific Dining Lodges and Cafeterias for the National Parks; Terry E. Maze, Petrifed Wood and Railroads; Lauttie Slawson, Copper Mining, Railroads, and the “Hellhole of Arizona”; Geoffrey Bleakley, The Copper River and Northwestern: Alaska’s Bonanza Railway; Ann Kain, Frontiers in Transportation: Denali and the Alaska Railroad; Frank Norris, Alaska Tourism, Skagway, and the White Pass and Yukon Route; Gordon Chappell, The Curious Case of the Buried Locomotives, or Railroad Archeology with a Vengeance; Diane M. Garcia and Nancy L. Smith, Allegheny Portage Railroad: New Support for Old Arches; R. Patrick

> Aaron Isaacs. Wisconsin Sampler. RMQ (Fall 2000), pp. 5-10. Review of railroad museums: Appleton Trolley Museum; East Troy Electric RR; Spooner; Mid-Continent Rwy. Museum; and other Wisconsin odds and ends.


> Graydon M. Meints. Race to Chicago. RH (Autumn 2000), pp. 6-29. The mad scramble to connect Chicago to the east by rail, ca. 1835-1850s.


> Railroad Heritage is the quarterly magazine of the Center for Railroad Photography and Art (Box 259330, Madison, WI 53725-9930; www.railphoto-art.org). No. 2, 2000 includes Barriger's Unique Visual Record (50,000 historic railroad photos in the Barriger Library, St. Louis); Starlight's Images Shine (review of collection of classic nighttime railroad photos); Bennett Builds Railroad's Image (H. H. Bennett, Milwaukee Rd. photographer in the 1880s); Miner's Railroad Art Collection (paintings in the W. H. Miner, Inc. collection); Roy Emerson Stryker and the Elusive (Farm Security Administration photographer); Libsohn Views Southern Changes (photos of Southery Rwy. in 1947); Bonds to Past, Hidden From View (collecting engraved bond and stock certificates as works of art).


> John C. Gribar and Jaime A. Bocanegra. Passage to 2000. Civil Engineering 69 (Dec. 1999), pp. 48-53. $1-billion dollar modernization and rehabilitation program intended to increase the Panama Canal’s operating capacity by 20 percent. Widening and straightening of the Gaillard Cut, replacing ten miles of locomotive track, and installing hydraulic cylinder arms for operating the lock gates.

> Emory Kemp. The Great Kanawha Navigation. Univ. of Pittsburgh Pr. and Inst. for the History of Tech. and IA (Avail: Box 6305, 1535 Mileground Rd., Morgantown, WV 26506), 2000. 300 pp., illus. $45. The Kanawha R. bisects the rugged terrain of southern WV. The river was a logical choice for a great east-west canal in the early 19th c., but to no avail. Efforts to build the James & Kanawha R. Canal, and later the Great American Central Water Line were aborted. In 1879, the U.S. Army Corps of Engineers began a 23-yr. construction effort that completely canalized the Kanawha and allowed year-round barge traffic.

> Colin Richardson, et al. On the New Waterfront. Civil Engineering 70 (Feb. 2000), pp. 60-63. First phase of a project to renew the 1903 Hoboken South Waterfront in NJ, including re-building Pier A and putting a park on it.


> Michigan Historic Bridges. Web site has a list and photos of Michigan’s historic highway bridges. www.mdot.state.mi.us/environmental/historicbridges.

> Tom Ryan, comp. The Art and History of the Bow Bridge. 2000. 96 pp., illus. $23.45 ppd. Avail. Box 70, Corinth, NY 12822. Imaginative effort to bring recognition to endangered 1888 lenticular truss bridge in Hadley, NY. Over 90 works of...
original art by 65 artists including children. Paintings, drawings, poems, photos, wood blocks, and sculpture inspired by the bridge. Includes HAER documentation, historic photos, postcards. Proceeds go to a special Bow Bridge Preservation Account, established by the Hadley-Luzerne Historical Society.

**Buildings & Structures**


**Power Generation**


**Electronics & Electrical Engineering**


- Russel Burns. *The Life and Times of A. D. Blumlein*. Inst. of Electrical Engineers (1-888-438-2517), 1999. 560 pp., illus. $95. Blumlein (1904-42) played an important role in fundamental innovations in radar, electronics, and sound recording, including stereo sound.


- Donland F. McLean. *Restoring Baird’s Image*. Inst. of Electrical Engineers (1-888-438-2517), 2000. 292 pp., illus. $55. In the late 1920s, John Logie Baird, considered to be the inventor of television, was experimenting with “photovision” in which he attempted to record television signals on gramophone discs. His attempts were largely unsuccessful and this technology forgotten until the 1980s, when the author began restoring the discs with modern computer-based techniques. Helps explain a poorly understood period of television history before official TV services started.

**Misc. Industries**

- N. A. Cavanagh. *The Thornton Archive and the Production of Sawpierced Silverware in Sheffield*. IAR 22,2 (Nov. 2000), pp. 103-114. Analysis of documents and artifacts to understand sawpiercing, the technique of decorating silver tableware by cutting away areas of metal with fine-bladed saws.


**ABBREVIATIONS:**

| CRM | = Cultural Resources Management, published by the National Park Service |
| IA News | = Industrial Archaeology News (UK) |
| IAR | = Industrial Archaeology Review (UK) |
| I&T | = American Heritage of Invention & Technology |
| IP | = Industrial Patrimony (FRA), Journal of the Instl Committee for the Conservation of the Industrial Heritage (TICCIH) |
| MH | = Minnesota History |
| MHR | = Material History Review (CAN) |
| NECN | = SIA New England Chapters Newsletter |
| R&LHSN | = Railway & Locomotive Historical Society Newsletter |
| RH | = Railroad History |
| RMQ | = Railroad Museum Quarterly |
| SCA | = Society for Commercial Archeology Journal |
| SCA = Society for Commercial Archeology Journal |
| T&C | = Technology & Culture: Quarterly of the Society for the History of Technology |
| VAN | = Vernacular Architecture Newsletter |

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GENERAL INTEREST

- Louis Bergeron and Maria Teresa Maiullari-Pontois. 
  Historic and contemporary photographs, mostly drawn from the HAER collection, 
  handsomely illustrate broad-ranging essays on America's industrial history. 
  English-language edition of the companion book to the 
  exhibit, *The Industrial Heritage of the USA,* which toured 
  France and Italy in 1997-98 (see SIAN Winter 1997). 
  Thought-provoking observations from the European 
  perspective on recent efforts to preserve America's industrial 
  heritage. Introduction by HAER chief Eric DeLony.

- Edward Elwell's Catalogue of Forged Tools. 
  Reprint ed. EAIA (Book Sales, Linda Stanton, 13231 Cypress-N. 
  Houston Rd., Cypress, TX 77429; (281) 469-6328; 
  LStan48682@aol.com), 2000. 93 pp., softcover. $26.25. 
  Originally published about 1870, includes 38 plates showing 
  over 1,000 tools for construction, agriculture, woodworking, 
  quarrying, mining, and the maritime industries. 
  Elwell was based in Wednesbury, Staffordshire, England. 
  The company carried on a considerable export trade to North America 
  and to British colonies.

- Peter English. 
  *British Made: The Industrial Development and Engineering for Kenya.* 
  (Mombasa to Lake Victoria); steam ferries; Nairobi Rwy. 
  Museum; Mombasa port docks; hydropower; Mombasa's mid- 
  1950s thermal plant.

- Joshua B. Freeman. 
  *Working-Class New York: Life and Labor Since World War II.* 
  New York's journey from a city of manufacturing and 
  union strength to one of service industries and union struggle.

- Brian Greenfield and Patrick Malone. 
  *“Things” that Work: The Artifacts of Industrialization.* 
  Organization of American Historians: Magazine of History for Teachers of History 
  Enthusiastically suggests simple ways to use 
  models, museum exhibits, landscapes and factory tours to 
  incorporate industrial history into curricula. A lengthy 
  bibliography provides additional resources.

- Laura Hapke. 
  *Labor's Text: The Worker in American Fiction.* 
  Rutgers Univ. Pr., 2001. 474 pp., illus. $30. 
  Portrayals of the worker in fiction over two centuries, from 
  stories written about the women who spun away their lives in 
  the mills at Lowell to the writings of novelists Louisa May 
  Alcott, Upton Sinclair, Richard Wright, and Russell Banks.

- John Holusha. 
  *Turning Brownfields into Fairways and Greens.* 
  How developers, aided by state policies, are finding new 
  uses for polluted NJ sites. The primary example is a current 
  plan to turn 900 acres of construction debris and industrial 
  waste in the Meadowlands into golf courses.

- Robert Lewis. 
  Decentralized industrial development of the city and its suburbs.

- Howard Mansfield. 
  *The Same Ax, Twice: Restoration and Renewal in a Throwaway Age.* 
  If you preserve an ax as a treasured memento, is it still an ax, 
  or has it become something else? The author claims that it is not the same ax. 
  If you instead use it and replace the handle three times and the head twice, 
  you do have the same ax, though not a molecule of the 
  original remains, because you have preserved its use. 
  Its use is an essential part of its being, so you have the same ax, 
  twice. This is the starting point for a discussion of how to 
  preserve the past in a way that invigorates the present.

- Martin V. Melosi. 
  *The Sanitary City: Urban Infrastructure in America from Colonial Times to Present.* 
  Evolution of water supply, sewerage, and solid-waste disposal.

- Menomonee Valley Needs Broader Vision. 
  Milwaukee Journal Sentinel (Oct. 9, 2000, p. 1B) and Projects Push for A Cleaner, Greener Menomonee Valley. 
  (Sept. 26, 2000, p. 1B) describe ongoing policy debate in Milwaukee about 
  redeveloping the city’s historic Menomonee Valley industrial corridor. 
  Two competing ideas are a conventional greenway, 
  which would wipe the valley clean of industrial sites, another 
  model based on European precedents that would create a car- 
  free zone of restored wetlands and reclaimed industrial 
  artifacts and buildings.

- Lance Metz, ed. 
  *Canal History and Technology Proceedings, Vol. XX.* 
  Canal History and Technology Press (30 Centre Sq., Easton, PA 18042; (610) 559-6613), 2001.
Michigan Technological University, Industrial Archaeology Program, Recent Student Projects Online — www.ss.mtu.edu/IA/IAWeb/projects.html. Gold mining in Death Valley; 18th-c. sugar plantation on Nevis; iron production at Viking village site in England, ca. 1000; Cornish boulders; Carp River forge.

The Occupational Safety & Health Administration (OSHA) has made the following manuals available online, which may be of interest to those with historic industrial sites or operating historic machinery: Construction Resource Manual, Field Inspection Manual, Recordkeeping Guidelines, OSHA Technical Manual. http://osha.gov/readingroom.html.

Anne Raver. Slag Heaps into Gardens. New York Times (Jan. 18, 2001), pp. F1, F8. The efforts of landscape architects to restore industrial landscapes in Pennsylvania, incorporating material elements that the mining and coking operations left behind.

Vince Staten. Did Monkeys Invent the Monkey Wrench? Hardware Stores and Hardware Stories. EAIA (Book Sales, Linda Stanton, 13231 Cypress-N. Houston Rd., Cypress, TX 77429; (281) 469-6328; LStan48682@aol.com), 1997. 234 pp., softcover. $12. Whimsical collection of observations about tools, people involved with them, recollections, and anecdotes from family-owned hardware store in Kingsport, TN.


Carroll Van West. Tennessee’s New Deal Landscape: A Guidebook. Univ. of Tennessee Pr., 2001. 296 pp., illus., maps. $18.50 pb. Examines over 250 sites built from 1933 to 1942, including the dams and reservoirs of the TVA, courthouses, post offices, community buildings, schools, museums, and parks.

MISC. INDUSTRIES


William Hosley. Colt: The Making of an American Legend. Univ. of Massachusetts Pr., 1996. 254 pp., illus., notes. $49.95. Recounts the story of Samuel Colt, who after several invention and business failures, developed the Colt revolver—“the gun that won the West”—into America’s first truly global export. The story continues with his wife, Elizabeth, who re-built the factory after a fire destroyed it and embarked upon a 40-year campaign of civic memorialization and glorification of her family.

Marking Time is a theme issue of MHR 52 (Fall 2000) devoted to time-keeping technologies. Includes: Alexis McCrossen, Time Balls: Marking Modern Times in Urban America, 1877-1922 (These globes, perched atop a tall building or tower, were made of metal ribs with canvas covers of various colors. They were rigged to an electric pulse, which caused them to drop, usually at noon.); Bryan Dewalt, Men, Women and Machines: Time Management and Machine Dictation in the Modern Office; Carlene Stephens, From Little Machines to Big Themes: Thinking About Clocks, Watches and Time at the National Museum of American History; Randall C. Brooks, A Canadian Time Ball.


Daniela Mazzotta. An Intervention for Rehabilitation: The Venetian Conterie. IP v. 4 (2000), pp. 51-54. Conterie, glass beadmaking, has been a Venetian industry since the 12th c. Preserving the works on Murano Island.


Thomas B. Rentschler. Cosmopolitan and Gwyn & Campbell Carbines in the Civil War. Mowbray Pub. (Box 460, Lincoln, RI 02865; www.manatarmsbooks.com), 2001. 84 pp., illus. $26.50 ppd. Two rare and unusual cavalry carbines, their development, sales to the government, use in the field. Often called the only contract arms made in the Midwest.

Walker Rumble. Ready, Go, Set! I&T (Spring 2001), pp. 40-43. Before typesetting was mechanized, the fastest hand compositors raced one another for large cash prizes.

Witold Rybczynski. One Good Turn: A Natural History of the Screwdriver and the Screw. Scribner, 2000. 173 pp., illus. $22. From the first earliest documented uses of the screw and screwdriver—assembling armor and attaching matchlocks to firearms—the author searches for the tools’ roots in the principle of the helix elucidated by ancient Greeks. He concludes that science did not develop in societies unfamiliar with the screw.

**RAILROADS**


- John Belle and Maxinne Leighton. *Grand Central: Gateway to a Million Lives.* Norton, 2000. 230 pp., illus. $39.95. Beginning with the struggle to save the station, provides a chronology of the previous two stations on the site, the construction of the current one, the emergence of the Metropolitan Transit Authority as the force behind the station’s rebirth, and the station’s culture.


- Andy Guy and Jim Rees. *Early Railways: Papers from the 1998 First International Early Railways Conference.* Newcomen Society (The Science Museum, London SW7 2DD U.K.) 350 pp., illus. £39.65 ppd. Incl: Greek, Roman and Medieval railways; horse drawn wagonways; development of steam traction; early railways of Europe and America; British regional aspects; railway engineering; early railway economics; historiography, culture, and collections.

- Robert A. LeMassena. The *Fist 4-8-4 and 2-6+6-4 (almost).* *R&LHSN* (Winter 2001), pp. 3-5. Introduction of new wheel arrangements by locomotive builders in early 20th c.


- Public Archaeology Laboratory. *Amtrak’s High Speed Rail Program, New Haven to Boston, History and Historic Resources.* Funded by Amtrak, 2001. 80 pp., illus. History of this section of the Northeast Corridor including survey of stations, railroad maintenance and service facilities, signals and switches, bridges, freight, and industries. Prepared as part of the mitigation for the high-speed rail program (Acela) that required new rails, signal upgrades, bridge replacements, and curve realignments. Intended for distribution to libraries and schools in CT, MA, and RI.


- Matt Steinglass. *The Machine in the Garden.* *Metropolis* (Oct. 2000), pp.126-131,167. Compares the project to create Germany’s Landscape Park Duisburg Nord, centerpiece of the SIAs Ruhr Valley study tour, to the creation of the Rivers of Steel National Heritage Area in the U.S. Cultural attitudes toward preservation of industrial landscapes are discussed. (Also avail. at www.metropolismag.com/new/oct_content/lat.htm.)


**WATER TRANSPORT**

- Mike Clarke. *The Steam Tug *Nadbor* and Industrial Archaeology in Poland.* *IA News* (Spring 2001), p. 4. Preservation of Poland’s only surviving steam tug in Wroclaw.


**AUTOMOBILES & HIGHWAYS**


POWER GENERATION


Bryan Nelson.  Back on the Farm.  Newsday (Sept. 12, 2000) pp. B6-B7, B10. Profile of the annual Western Minnesota Steam Threshers Reunion which swells the population of Rollag, MN, from 30 to tens of thousands. Steam traction engines, a 1903 De La Vergne stationary engine, a steam locomotive, antique tractors, and linotype machines are among the attractions here each Labor Day weekend.


BRIDGES

Bridges to the Past is a large four-color flyer/map of historic bridges in Arkansas. Avail: Arkansas Historic Preservation Program, 1500 Tower Building, 323 Center St., Little Rock, AR. 72201; info@dah.state.ar.us.


Historic Michigan Bridges Web Site.  SIAN (Winter 2001) incorrectly listed the URL for this site. The correct URL is www.mdot.state.mi.us/historic/bridges/


BUILDINGS & STRUCTURES

David W. Dunlap.  For 1930s Behemoth, A New Upscale Life.  New York Times (Feb. 20, 2000) Real Estate, pp. 1, 6. The Starrett-Lehigh Building is undergoing a transformation as its large spaces and industrial grittiness appeal to new technology and design companies. The 19-story, 1.8 million-sq.-ft. Manhattan landmark was originally built by the Starrett Investing Corp. and the Lehigh Valley RR with such unique features as freight elevators that hoisted trucks to recessed loading bays that aligned their tail gates with floor level.

Amy Slaton.  As Near as Practicable: Precision, Ambiguity, and the Social Features of Industrial Quality Control.  T&CC 42,1 (Jan. 2001), pp. 51-80. Standards for field testing of cement and concrete at early 20th c. construction sites and the implications of decisions about who should do the testing.

WATER CONTROL & RECLAMATION

Margaria Ruas dos Santos.  Preservation of an Historic Heritage, EPAL Water Museum as a Cultural, Environmental and Educational Communication Aid.  IP v. 4 (2000), pp. 33-38. EPAL (Empresa Portuguesa das Aguas Livres, S.A.) is the water utility for 2.5 million people in Portugal. The museum consists of four sites: the 30-mile-long Aguas Livres Aqueduct begun in 1723 and completed in 1834; the Amoreiras Reservoir, built in 1752; the Patriarchal Reservoir, built in 1860-64; and the Barbadinhos Steam Pumping Plant, built in 1880.

MINES & MINING


ery and kerosene plant. The family soon dominated the oilfields, commissioning the first steam-powered tanker, the Zoraster, to help transport their product. The large number of oil rigs on the Caspian shore became known as “the Forest of the Nobels.”

- Ian Jack. The Heritage of Primary Industry in Rural Australia. IP v. 4 (2000), pp. 75-82. The history and problems of preservation of 19th-c. gold and iron mining and processing sites and artifacts in the Outback.


**IRON & STEEL**


- Ernst Schwartzkopf. Plain and Ornamental Forging. Reprint ed. EAlA (Book Sales, Linda Stanton, 13231 Cypress-N. Houston Rd., Cypress, TX 77429; (281) 469-6328; LStam48682@aol.com), 2000. 296 pp., illus., softcover. $18.95. First published in 1916 as a training course to become a blacksmith. Schwartzkopf taught at the Stuyvesant Evening Trade School in New York.

- TICCIH Bulletin No. 11 (Winter 2000-01) is a thematic issue devoted to views from around the world of the conservation and re-use of large iron and steel plants: Sagunto, Spain; Nizhny-Tagil, Russia; Seixal, Portugal; Lorraine, France; Blaenavon Industrial Landscape, S. Wales; Sloss Furnaces, Birmingham, U.S.

**Agriculture & Food Processing**

- William Ashworth. Between the Trader and the Public: British Alcohol Standards and the Proof of Good Governance. T&C 42,1 (Jan. 2001), pp. 27-50. Traces the development of the hydrometer, used to measure the alcohol content of spirits, according to which 18th-c. British excise duties were levied.


**ABBREVIATIONS:**

| CRM | = Cultural Resources Management, published by the National Park Service |
| ALHFAM | = Assn. for Living History, Farm and Agricultural Museums Bulletin |
| CRM | = Cultural Resource Management, published by the National Park Service |
| EAIA | = Early American Industries Assn. |
| IA News | = Industrial Archaeology News (UK) |
| IAR | = Industrial Archaeology Review (UK) |
| IA&T | = American Heritage of Invention & Technology |
| IP | = Industrial Patrimony (FRA), Journal of the Int’l Committee for the Conservation of the Industrial Heritage (TICCIH) |
| MH | = Minnesota History |
| MHR | = Material History Review (CAN) |
| SCA | = Society for Commercial Archeology Journal |
| T&C | = Technology & Culture: Quarterly of the Society for the History of Technology |

**Publications of Interest** is compiled from books and articles brought to our attention by you, the reader. SIA members are encouraged to send citations of new and recent books and articles, especially those in their own areas of interest and those obscure titles that may not be known to other SIA members. Publications of Interest c/o the SIA Newsletter, 305 Rodman Road, Wilmington, DE 19809; pshianews@aol.com.

We endeavor to make citations as complete as possible, but they are from a variety of sources, and are sometimes incomplete. If a date, publisher, price, or other statistic is missing, it simply means that it was unavailable, and, unfortunately, we do not have the time to track down these missing bits. The SIA, unless otherwise noted, is not a source for any of the cited works. Readers are encouraged to use their library, bookstore, computer, or school for assistance with locating books or articles.
GENERAL INTEREST


- Wolfgang Ebert. Kathedralen der Arbeit: historische Industriearchitektur in Deutschland (Cathedrals of Work: Historical Industrial Architecture in Germany). Tubingen: Wasmuth, 1996. 176 pp., photos, maps. DM 128.00 (Avail.: buch.netstoreusa.com, US $89.40, or amazon.de.) By the mastermind of SIA’s Ruhr tour and the Route Industriekultur, this photo album documents a selection of Germany’s important industrial complexes from the Volklinger Hütte ironworks to the Zeche Zollern II/IV coal mine in Dortmund.


- Kenneth Hudson. Has Industrial Archaeology Lost Its Way? IAR 23,1 (2001). Published posthumously, Hudson’s thoughts on expanding the field of IA to be more inclusive of a greater variety of workplaces. Provocatively suggests renaming the field “work archaeology.”


- Carol Kammen and Norma Prendergast, ed. Encyclopedia of Local History. American Assoc. for State & Local History and AltMira Pr. (1-800-462-6420), 2000. 560 pp. $79.95. Essays on an eclectic assemblage of topics, concepts, resources, and organizations frequently encountered in local history research. Includes some subjects of interest to IA, e.g., HABS/HAER, Sanborn maps, mining, landscapes, etc.

- Keeping the Peace and Protecting Our Heritage is a theme issue of CRM: Cultural Resource Management, vol. 24, 3 (2001) devoted to archeology and historic preservation in the Dept. of Defense. Several articles related to industrial archeology including fortifications, military base infrastructure, aircraft hangars, and underwater shipwrecks. CRM is published by the National Park Service. Electronic version can be accessed at www.cr.nps.gov/crm.


- New England SIA Chapters Newsletter, v. 21,1 (2001) includes, Jonathan Kranz, An Inside Look at the Old Charles Street Jail (Boston); Linda U. Bornstein & Kenneth Schwarz, Wood Forges (wood box forges used in remote logging operations, rural farms, small villages and shops); Matthew Kierstead, Northeast Corridor Improvement Project; Matthew Kierstead, Two Landmark Rhode Island Bridges to be Demolished (Sakonnet River Bridge and Jamestown Bridge); Bob Stewart, The Catenary System of the New York, New Haven & Hartford. Avail. with local chapter membership. Northern NE Chapter, c/o. Herman Brown, 250 W. Shore Rd., Grand Isle, VT 05458, $10/yr.; Southern NE Chapter, c/o Robert Stewart, 1230 Copper Hill Rd., West Suffield, CT 06093, $15/yr.


**RAILROADS**


- Brian J. Cudahy. *The Malbone Street Wreck*. Fordham Univ. Pr., 1999. 268 pp., illus., index. $32.50; $20 paper. Analysis of the infamous 1918 accident on Brooklyn Rapid Transit. During a wildcard strike, a replacement motorman took a sharp curve on a tunnel approach at a high rate of speed and the derailment killed 97, injured 100, and bankrupted the BRT.


- Bodo von Dewitz and Jochen Heufelder. *Unter Schienen schweben (Under Suspended Rail)*. Steidl, 1999. (Avail.: Museum Ludwig / Agfa Photo-Historama, Bischofsgartenstrasse 1, D-50667 Köln, Germany.) 111 pp., illus. DM 30. The title refers to the Wuppertal Schwebebahn, a unique suspended monorail [tour site, 2001 SIA Ruhr Study Tour]. This documentary was printed to commemorate the Schwebebahn’s centenary and contains over 75 historic photos with a 20 p. introduction. In German.


- *History of Wrecks*. RH 184 (Spring 2001), pp. 20-77. Respected railroad historians analyze a subject that has brought out the worst and best of railroading scholarship.

- *Railroad Heritage* is the quarterly magazine of the Center for Railroad Photography and Art (Box 239330, Madison, WI 53725; www.railphoto-art.org). Articles examine the work of railroad photographers and artists. No. 3 (2001) includes Stitt’s B&O Legacy Continues; Ganawau Captures Train’s Spirit; Photo by Rittase; Nickel Plate Road by Bob Lorenz; Patten’s Distinctive Designs; Two PA’s Return for Restoration; Bubley Builds Photo Archive.

- Jeff Schramm. *Foreigners*. RH 184 (Spring 2001), pp. 8-19. Why German diesel-hydraulic locomotives were imported into the U.S. beginning in the 1950s.

- *Timber Transfer* is the magazine of the Friends of the East Broad Top Railroad (Huntington County, PA). It features stories and news of the EBT, including keeping its members up-to-date on efforts to preserve one of America’s premiere narrow-gauge steam railroads. Avail. with membership to the Friends group, $25/yr. Info: Peter A. Clarke, 10428 Carlyn Ridge Rd., Damascus, MD 20872; febt@aol.com.

**WATER TRANSPORT**


**AUTOMOBILES & HIGHWAYS**


**AVIATION**

- Stewart Nelson. *Airports Across the Ocean*. I&ST (Summer 2001), pp. 32-37. For a while in the 1920s and 1930s, a series of floating landing strips looked like the future of travel to and from Europe.


**BUILDINGS & STRUCTURES**

- Angus Phillips. *Tall Order: Cape Hatteras Lighthouse Makes Tracks*. National Geographic, May 2000, pp. 98-105. Story of the move includes a diagram of the system of beams, rams, and cribbing (and a lot of lubricating soap) that made it all possible.


- *Structurae: International Database and Gallery of Structures*. Trilingual website lists major structures, mostly bridges, of civil engineering interest around the world and provides technical data and a chronology for each as well as a
list of related Web sites. Although it intends to include both modern and historic structures, most are recently built. Designers and firms can be searched by name for biographical information and a list of works. http://www.structurae.de/

**BRIDGES**


➤ Alan Holgate. **The Art of Structural Engineering: The Work of Jörg Schlaich and his Team.** Stuttgart: Edition Axel Menges, 1997. 294 pp., illus. $98. Several bridges by this designer were seen, and walked upon, by attendees of the Ruhr study tour in Duisburg and Gelsenkirchen. This book surveys the Schlaich oeuvre, which ranges from cable-net and membrane roofs to inventive bridges and new solar-energy devices. It covers the history of many of the projects in which he and his partners have been involved and tells something of his philosophy of design.

**WATER CONTROL & RECLAMATION**

➤ Janice Petterchak. **Taming the Mississippi: My Turn at Watch, William H. Klingner, 1935-1999.** Legacy Pr., 2000. (Avail.: Upper Mississippi, 1, and Missouri River Foundation, 201 W. Fairground Ave., Hillsboro IL 62049; 217-532-5458; ink@cilnet.com.) 208 pp., illus., maps. $10. Combines the history of flood control with a biography of Klingner, an engineer whose career spanned 60 years. Early river history and federal policy.

**POWER GENERATION**


**IRON & STEEL**


**MINES & MINING**


**TEXTILES**

➤ George William Shea. **Spoiled Silk: The Red Mayor and the Great Paterson Textile Strike.** Fordham Univ. Pr., 2001. 240 pp., illus. $30; $20 pap. The story of William Brueckmann and his wife Katherine, immigrants from Germany who were committed to a socialist vision and worked to improve the lives of their fellow immigrants. Central to their tale is the 1913 strike in the textile mills of Paterson, N.J. Workers heard that a new type of loom was being brought in that would put many out of work and called in the Wobblies. The Paterson authorities moved quickly to
crush the strike, but Brueckmann, mayor of neighboring Haledon, offered the strikers safe haven in his town. Thus began a long and bitter struggle that brought thousands of mill workers to Haledon and the city of Paterson to its knees.

Agriculture & Food Processing


- Robert Franklin. Flour Power. Minneapolis Star Tribune, May 21, 2001. Schech’s Mill (Caledonia, MN) is the last of the state’s once numerous water-powered mills with original equipment. “Direct-drive” powerhouse system, dating to ca. 1880. Open for tours, but looking for state assistance to restore the raceways and dam.


Logging & Lumbering

- Nicole Hayler, ed. Sound Wormy: Memoir of Andrew Gennett, Lumberman. Univ. of Georgia Pr., 2002. 248 pp., photos, $34.95. Beginning with the purchase of a tract of timber along the Chattaqua River, the author founded the Gennett Lumber Co. with his brother and became one of south’s most successful lumbermen. His reminiscences include details of how trees were felled, trimmed by hand, dragged down mountain slopes by draft animals, floated downstream or carried by rail to the mill, and then sawn, graded, and stacked for drying. He also tells of dealings in the land market, where kinship and custom were on equal footing with the law.

Misc. Industries

- Silvio A. Bedini. With Compass and Chain: Early American Surveyors and Their Instruments. Professional Surveyors Pub. Co. (1713-J Rosemont Ave., Frederick, MD 21702; (301) 682-6101; www.profsurv.com), 2001. 746 pp., illus., index. $80 ppd. Well-researched biographical essays on early American instrument makers, cartographers, and surveyors yield a wealth of information about the history of land surveying from colonial period to mid-19th c.

- Chris Bradley. Potters’ Milling—An Early Ball Mill Rescued. IA Neus (Summer 2001), pp. 6-7. Used to grind hard materials—bone, flint, feldspar, limestone, magnesite—used by potters in Staffordshire. Early 20th c. mill is believed to be oldest for that use in England. Six-ft. diameter cylinder has a lining of silica blocks and is half filled with large flint pebbles.


Abbreviations:

ALHFAM = Assn. for Living History, Farm and Agricultural Museums Bulletin
CRM = Cultural Resource Management, published by the National Park Service
IA News = Industrial Archaeology News (UK)
I&IT = Industrial Archaeology Review (UK)
I&T = American Heritage of Invention & Technology
T&C = Technology & Culture: Quarterly of the Society for the History of Technology

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SOCIETY FOR
INDUSTRIAL ARCHEOLOGY
NEWSLETTER

Publications of Interest

Mary Habstritt, New York, NY; and Patrick Harshbarger, SIAN editor.

Winter 2002

General Interest


- Robert W. Passfield. Commemorating Historic Engineering Landmarks in Canada. ASCE International Engineering History and Heritage, Proceedings of Third National Congress, Houston, TX. ASCE (Reston, VA), 2001, pp. 175-84. Canadian approach and guidelines developed for evaluating and commemorating historic engineering landmarks, and what has been done to date.

- World Archaeology. (Avail: Routledge, Taylor & Francis; 1-800-821-8312; www.tandf.co.uk). $63/yr. Journal deals with archeology on a world-wide, multi-period basis, with occasional articles/theme issues of IA interest. Recent or forthcoming issues include: food technology in its social context, shipwrecks, the archeology of slaves and slavery.

Railroads

- Debra Brill. History of the J. G. Brill Co. Indiana Univ. Pr. (1-800-842-6796), 2001. 272 pp., photos. $44.95. Story of Philadelphia’s J. G. Brill, from its establishment in 1868 as a small horsecar and railroad car manufacturer, through its emergence as a world leader in trolley car and truck construction, to its demise in the mid. 20th c.

- Jane Fishman. Railroad Boomer Would Like to See Downtown Savannah’s Tracks Active Again. Savannah Morning News (Oct. 31, 2001). Dave Lathrop, curator of Savannah’s Historic Railroad Shops (tour site—1999 Annual Conference), hopes to put electric trolleys back on city streets.

- James Glanz. The Hudson Tube: From 70’s Relic, a Possible PATH Station. NY Times (Nov. 13, 2001). Old Hudson & Manhattan RR station, abandoned since early 1970s, on the eastern edge of the World Trade Center site, could be reopened to replace the subway station crushed by the Sept. 11 disaster.


- Aaron Isaacs. Rebirth at the Cumbres & Toltec. RMQ, v. 21 (Fall 2001), pp. 5-9. Recent efforts to keep the historic narrow-gauge steam railroad in Colorado and New Mexico operating.


- Elsie Voigt. Diesel Engineers Remember ALCOs, EMDs, and GEs. R&LHS Newsletter 21,4 (Autumn 2001), pp. 5-6. Engineers recall the handling qualities—their likes and dislikes—of a variety of locomotives.

Water Transport

- Yudhijit Bhattacharjee. Persian Canal Discovery Is Testament to Ancient Engineering Skills. NY Times (Nov. 13, 2001). Archeologists have found a canal built by Xerxes in 480 B.C. through a rocky peninsula in northern Greece. Approximately 1.25 miles long, it was built for the galleys used in the Persian conquest of Greece. It was later abandoned, filled with sediment, and lost to history. Although
ancient Greek texts referenced the canal, some historians had doubted the canal's existence, arguing that construction would have been an impossible task for workers of that day.


> Claire Peachey. Field Conservation on the Housatonic and Hunley Shipwreck Excavations. CRM, No. 6 (2001), pp. 8-10. Conservation techniques for working underwater, shipboard, and in cramped quarters while excavating Civil War shipwrecks in South Carolina coastal waters.


**AUTOMOBILES & HIGHWAYS**

> Gijs Mom and David Kirsch. Technologies in Tension: Horses, Electric Trucks, and the Motorization of the American City. T&C (July 2001), pp. 489-518. The initial success and eventual demise of the electric car offers a window into the evolutionary process by which trucks gradually displaced horses.

**BRIDGES**


> Lilia d’Acres and Donald Luxton. Lions Gate. Talonbooks, 1999. 175 pp., illus. $34.95. Vancouver, Canada's Lions Gate Bridge, completed in 1938. Innovative use of prefabricated strands for the suspension cables.

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With Thanks.


> Robert W. Jackson. Rails Across the Mississippi: A History of the St. Louis Bridge. Univ. of Illinois Pr. (1-800-545-4703), 2001. 265 pp., illus. $34.95. A fresh look at the 1874 Eads Bridge. Chronicles the grand dreams, shady politics, daring engineering experiments, greed, ambition, and westward expansion that fed into the successful construction of the world's first long-span steel arch bridge.

> William D. Middleton. The Bridge at Quebec. Indiana Univ. Pr. (1-800-842-6796), 2001. 216 pp., photos. $39.95. Illustrated account of the long effort to build a bridge across the St. Lawrence, with particular emphasis on the 1907 collapse.

> Robert W. Passfield. Construction of the Victoria Tubular Bridge. Canal History and Technology Proceedings, Vol. XX (National Canal Museum, Easton PA), 2001. pp. 5-52. illus. Traces the design and construction of a 25-span, 6,592-ft.-long, tubular railway bridge, erected across the St. Lawrence at Montreal in 1856-60. The world's then-greatest bridge construction project was transformed from a costly failure into a triumph of construction engineering through innovative adaptations of steam power to speed construction and reduce manpower demands. Among the innovations were steam-powered dredges, pile drivers, traveling gantry cranes, barge jib-cranes, and centrifugal pumps; the introduction of a novel steam-powered trussed boom derrick, North American building technology (rock-filled timber crib caissons, staging construction of timber trestle bents, and wood Howe trusses), as well as “just-in-time” material delivery system and unconventional pay incentives for workers.


**BUILDINGS & STRUCTURES**


Historic John J. Harvey Served at World Trade Center Disaster

In recent years, the John J. Harvey, a New York City fire tug launched in 1931 but now retired, has hosted several SIA Roebling Chapter events. The dedicated group of volunteers who have preserved the tug went beyond the call of duty on Sept. 11 when they spontaneously met at Pier 63 and took her south to help at the World Trade Center. They joined tugs and ferries evacuating a trapped crowd from the seawall near the Battery, taking some 150 people north to Pier 40. En route, the fire department radioed a request that the boat tie up adjacent to the disaster site to provide pumping capacity, as hydrants were not working. The John J. Harvey joined FDNY boats Fire Fighter and McKean to provide the only water available at the site for more than three days. Among the volunteers serving on the John J. Harvey were Chase Welles, Tim Ivory, Tomas Cavallaro, Andrew Furber, and Huntley Gill. Supporters of the John J. Harvey should be proud that this great old lady was preserved and available to work for New York City during the crisis.

Huntley Gill

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10 hour’s drive (and $130 cab ride) away, got the car, and drove home realizing they had fallen. The next day, I was lucky to find one taxi from the cab and wondered why I couldn’t see the towers—not sound as well.

Other study tour participants eventually made it home safe and sound, Barbara Freeman [SIA], who was also stranded and trying to get to Rochester. Barbara managed to catch a train to Philadelphia, where she could stay with friends, but did not fly to El Paso and back home until the following Wednesday. Thankfully, all of the other study tour participants eventually made it home safe and sound as well.

James C. Owens

The following references are recommended for more information on Cornwall.


T. Goode, M. Holder, B. Leveridge, West Cornwall: A Landscape for Leisure, British Geological Survey, 1996. In spite of its name, this booklet is a fine source for geology and natural history, with some information on mining.

Published by the National Park Service

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Cornwall (continued from page 5)
GENERAL INTEREST

» Early American Industries Assn. Booklist. EIA offers a wide selection of books, many discounted and of IA interest, as one of the benefits of membership. EIA fosters the appreciation and study of early American industries and antique tools. Info on membership and programs: www.eaiainfo.org.

New titles on the most-recent booklist: Garrett Wade Co., Tools, A Complete Illustrated Encyclopedia; Gwilym R. Roberts, New Lives in the Valley, State Quarries and Quarry Villages in North Wales, New York, and Vermont, 1850-1920; Deborah Deford, ed., Flesh and Stone, Stoney Creek and the Age of Granite (granite quarrying in Connecticut); J. Starkie Gardner, English Ironwork of the XVIIth & XVIIIth Centuries (first published in 1911, contains analysis of a brilliant phase of English craftsmanship); Nicholas Dean, Snow Squall, the Last American Clipper Ship (archaeology of an 1851 clipper, discovered in the Falklands); Edward L. Kallop, Jr., Johnson’s Kingdom: The Story of a 19th-Century Industrial Kingdom in the Town of Wayne, Maine (Holman Johnson operated a series of woolen mills and a shovel-handle factory, 1856-79).

» Wolfgang Ebert. ERIH, The European Route of Industrial Heritage. TICCIH Bulletin 14 (Autumn 2001), pp. 4-5. Update on network of European industrial sites working together to develop heritage tourism programs. Ebert was host to the 2001 SIA study tour of the Ruhr. The European industrial heritage program is modeled after the German example [SIA, Spring 2001].

» Kingston Heath. The Patina of Place: The Cultural Weathering of a New England Industrial Landscape. Univ. of Tenn. Pr. (www.utpress.org), 2002. 288 pp., illus. $55. Multidisciplinary analysis of workers’ housing as an index to social change and cultural identity in New Bedford, MA. Company-owned mill housing and the subsequent transition to a speculative building market resulted in the three-decker rental flat as New Bedford’s most common housing form for industrial workers.

» Richard L. Hills. Life and Inventions of Richard Roberts, 1789-1864. Landmark Collector’s Library (www.landmarkpublishing.co.uk), 2002. 272 pp., illus., £29.95. Although now little known, Roberts was one of Britain’s greatest inventors and the father of production engineering. In 1821, he made the world’s first machine for manufacturing industrial gears. Soon after, a power loom. His self-acting spinning mules remained a textile industry standard into the 20th century. He was a partner in Sharp, Roberts & Co., a manufacturer of locomotives, and his punching machine for iron plates was successfully used on the Conway and Britannia tubular bridges. This full-length biography looks at Roberts’s life and inventions in the area of machine tools, the gas meter, textiles, road vehicles, locomotives, horology, and shipbuilding.


» Catherine LaVoie. The HABS/HAER and the National Register, A Symbiotic Relationship. CRM 25,1 (2002), pp. 14-15. Discussion of the separate missions but complementary roles of the National Park Service’s HABS/HAER and National Register programs. In a CRM theme issue devoted to the past, present, and future of the National Register.


history burned 459 buildings to the ground and devastated a great industrial city a century ago. Firefighters, historians, and others mark the anniversary with a series of events.

**Preserving America’s Utopian Dreams** is a theme issue of CRM: Cultural Resource Management 24,9 (2001), published by the National Park Service. It includes articles on efforts to preserve several utopian communities that have, or had, industrial components: Rugby, TN; Kenneecott, AK; New Harmony, IN; Amana Colonies, IA; Old Salem, NC; Zoar Village, OH; Hancock Shaker Village, MA.


**RAILROADS**


**CONTRIBUTORS TO THIS ISSUE**

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With Thanks.


Carla Johnson. *Union Pacific and Omaha Union Station*. South Platte Pr. (Box 163, David City, NE 68632), 2001. 84 pp. $27.95 ppd. The UP’s passenger station and terminal operations from 1860s to 1970s. The Durham Western Heritage Museum is now located in the Union Station, built in 1931. Rev: NRB 66,2 (2001), p. 41.

Randy Kennedy. *Transit Plan Would Connect the Dots Under Lower Manhattan*. NY Times (Jan. 23, 2002). In the wake of the Sept. 11 disaster, the Port Authority of NY is making ambitious plans to rebuild the rail transit network. It hopes to untangle seven overlapping lines, the inheritance of decades of independent planning by competing subway and railroad companies operating under the city streets.

Mary Beth Klatt. *Back on Track: Group Provides Funds to Keep Rail Depots in Public Use*. Chicago Tribune (Dec. 16, 2001), Sec. N, pp. 1, 5. Great American Station Foundation provides funds for municipalities seeking to reopen railroad depots.

Chris J. Lewie. *Two Generations on the Allegheny Portage Railroad*. Burd St. Press (Avail: C. Lewie, 5377 Edie Dr., Hilliard, OH 43026; www.twogenerations.com), 2001. $15 ppd. Opened in 1834, the Allegheny Portage RR was a technological marvel that allowed sectional canal boats to be lifted over the mountain ridges between Hollidaysburg and Johnstown, PA. Two generations of the Humphreys family of Cambria Co. worked on the portage railroad.

➤ Tom A. Nelson, ed. **50 Years of Railroading in Southern California, 1936-1986** (Plus Updates through 1996). Pacific RR Society, 2001. 204 pp., illus. Originally intended to celebrate the 50th anniversary of the society, this book was expanded to include histories of railroads and rail transit in California’s southern counties. Includes 40-p. chronology, line-by-line histories, reviews of local railway museums. Chapter on passenger service by Charles Varnes [SIA].

➤ Joseph P. Schweiterman. **Railroading at the Bellefonte Central RR, 1897-1967.** IAR 23,2 (2001), pp. 11-14. History and operation of the Bellefonte Central RR, a Pennsylvania short line established in 1880s. Description of shops at Coleville, iron furnaces, limestone quarries and lime plants on its route. All but a short section of line is abandoned today. Photos and maps.

➤ Joseph P. Schweiterman. **Abandoned Corridors.** RH 185 (Autumn 2001), pp. 20-45. History of rail abandonment in the U.S. Considers how the shrinkage of the rail network from 250,000 route miles in 1916 to about 130,000 route miles today has affected small and medium-sized communities.


➤ Gordon J. Thompson, ed. **Niagara Gorge Belt Line: A Pictorial Album.** Niagara Frontier Chapter, NRHS (21 Francis St., Middleport, NY 14105), 2000. 67 pp., illus. $16.95 pbd. Electric tourist railway operated below Niagara Falls from 1893 to 1935.

➤ John C. Van Horne, ed. **Traveling the Pennsylvania Railroad: The Photographs of William H. Rau.** Univ. of Penn Pr. (1-800-445-9880), c. 2001. 272 pp., illus., maps. $49.95. In the 1890s, Rau, Philadelphia’s preeminent commercial photographer, was commissioned to take more than 450 large-format photographs along the routes of the Pennsylvania RR to promote leisure travel to the general public. Remarkably detailed prints display the railroad, as well as the natural and industrial landscapes.


**Water Transport**


**Automobiles & Highways**

➤ America’s First Concrete Street. SCA News (Winter 2001), p. 7. In 1891, Bellfontaine, OH, claims to have built the first concrete street in the U.S. In 1893, sections of the pavement were displayed at the Chicago World Fair, winning a prize and prompting other cities to pave with concrete. Today, Bellfontaine’s streets are marked by several commemorative plaques and a statue of George Bartholomew, the man who advocated the paving material more than 100 years ago.

➤ Landmark Collector’s Library (www.landmarkpublishing.co.uk) offers a series of books on historic roads (pre-automobile era) in Great Britain: David Hey, **Packmen, Carriers & Packhorse Roads, 2nd ed., 2001.** 192 pp., maps, illus. £19.95. Incredible detail on the movement of commodities in N. Derbyshire and S. Yorkshire—spices, malt, iron, lead, etc.; A. E. Dodd and E. M. Dodd, **Peakland Roads & Trackways, Reprint ed., 2002.** 192 pp., photos, maps, £19.95. Classic account of packhorse ways, saltways, drovers’ roads, turnpikes; Richland Moore-Colyer, **The Welsh Cattle Drovers, 2nd ed., 2001.** 192 pp., illus, maps, £19.95. Detailed look at trade in the 19th c., with particular detail on the “mechanics” of droving, financing, and general conducting of the trade; Richard Moore-Colyer, **Roads & Trackways of Wales, 2nd ed., 2001.** 192 pp., illus., £19.95. Roman roads, Medieval trackways, drove roads, and turnpikes.

➤ Norman Painting. **Alldays & Onions: A Brief History.** Landmark Collector’s Library (www.landmarkpublishing.co.uk), 2002. 224 pp., illus., £24.95. Birmingham (UK)-based company made a bewildering variety of products from bunsen burners to enormous fans, but was best known for Matchless motorbikes and its cars, tractors, and buses.

➤ Claudette Stager and Martha Carver. **Winged Wonder: The Airplane Gas Station Revisited.** SCA News (Winter 2001), pp. 4-5. Extant Knoxville (TN) gas station from the 1930s

was built to look like an airplane. Wingspan of 42’ provided shelter for the pumps. The fuselage was the office and stock room.

**POWER GENERATION**


➤ Richard L. Hills. *James Watt. Vol. 1: His Time in Scotland, 1736-1774*. Landmark Collector’s Library (www.landmarkpublishing.co.uk), 2002. 416 pp., illus., £ 29.95. Hills has worked from original records to shed new light on thus-far obscure areas of Watt’s life and personality, attempting to dispel inaccuracies perpetuated by earlier biographers of the man best known for his work on the steam engine. This volume includes information on Watt’s family background, training as a mathematical-instrument maker, involvement with Scottish salt and pottery industries, work as a civil engineer, and early investigations of steam power. Vol. 2 (due out 2003) will cover his time in England (1774-1819) including the partnership with Matthew Boulton and the development of the rotary steam engine.

➤ Maureen Milford. *Pennsylvania Power Plant to Get New Life as Offices*. *NY Times* (Dec. 16, 2001), Real Estate Sec., p. 6. Chester, PA, power plant, built in 1918, housed in a magnificent Neo-Classical building, has been vacant for 20 years.


**WATER CONTROL & RECLAMATION**


➤ Andrew C. Revkin. *21st-Century Plumbing for New York City’s Leaky Old Water Tunnel*. *NY Times* (Mar. 12, 2002), Science Section. Delaware Aqueduct, opened in 1945 to supply NYC from the Delaware R. watershed in the Catskill Mts., is leaking 25 to 34 million gallons per day. Problem: the leaks are 600 ft. underground and from uncharted breaks in the tunnel’s concrete and steel lining. Techniques to locate and fix the leaks include using an unmanned submarine to ply the 45 miles of tunnel, which has not been drained in nearly 50 years.

**BUILDINGS & STRUCTURES**


**MINES & MINING**


**TEXTILES**


**ABBREVIATIONS:**

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
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<tbody>
<tr>
<td>CRM</td>
<td>= Cultural Resource Management, published by the U.S. National Park Service</td>
</tr>
<tr>
<td>IA News</td>
<td>= Industrial Archaeology News, published by the Assn. for Industrial Archaeology (UK)</td>
</tr>
<tr>
<td>IAR</td>
<td>= Industrial Archaeology Review published by the Assn. for Industrial Archaeology (UK)</td>
</tr>
<tr>
<td>I&amp;T</td>
<td>= American Heritage of Invention &amp; Technology</td>
</tr>
<tr>
<td>NRB</td>
<td>= National Railway Bulletin, published by the National Railway Historical Society</td>
</tr>
<tr>
<td>RH</td>
<td>= Railroad History, <em>Journal of the Railway &amp; Locomotive Historical Society</em></td>
</tr>
<tr>
<td>SCA News</td>
<td>= Society for Commercial Archeology News</td>
</tr>
<tr>
<td>T&amp;C</td>
<td>= Technology &amp; Culture: Quarterly of the Society for the History of Technology</td>
</tr>
<tr>
<td>TICCIH Bulletin</td>
<td>= The International Committee for the Conservation of the Industrial Heritage Bulletin</td>
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*Publications of Interest* is compiled from books and articles brought to our attention by you, the reader. SIA members are encouraged to send citations of new and recent books and articles, especially those in their own areas of interest and those obscure titles that may not be known to other SIA members. *Publications of Interest c/o SIA Newsletter, 305 Rodman Road, Wilmington, DE 19809; phia4news@aol.com.*
GENERAL INTEREST

Joyce Brown, et. al., eds. Studies in the History of Civil Engineering. 12 vols. Ashgate (www.ashgate.com), 1997-2002. £850 for the set, £85 for indiv. vols. Each vol. of the reference library begins with a substantial introduction by an expert in the field and is followed by articles, originally published in a wide range of journals, conference proceedings, and like, many hard to consult, and selected to represent the current state of knowledge and scholarship. Studies cover civil engineering from antiquity to the early 20th c. The 12 vols. are: Engineering of Medieval Cathedrals; Masonry Bridges, Viaducts and Aqueducts; Land Drainage and Irrigation; Dams; Water-Supply and Public Health Engineering; Port and Harbour Engineering; Civil Engineering of Canals and Railways before 1850; Development of Timber as a Structural Material; Structural Iron, 1750-1850; Structural Iron and Steel, 1850-1900; Early Reinforced Concrete; Structural and Civil Engineering Design. [Note: many of these individual vols. have appeared in previous Publications of Interest. The 12 vol. set is now complete and avail.]


Mike Clarke. The Solovki Islands. IA News 121 (Summer 2002), pp. 2-3. IA of a group of islands in the Russia White Sea, best known as the site of the first Soviet Gulag. Includes works associated with a 15th-c. monastery, ca. 1908 hydroelectric station, dry dock built in 1799-1801, and turpentine kiln.


William R. Haycraft. Yellow Steel: The Story of the Earthmoving Equipment Industry. Univ. of Ill. Pr. (1-800-545-4703), 2002. 488 pp, photos, $23.95 paper. Examines the tremendous increase in the scope of mining and construction projects, from the Suez Canal through the interstate highway system, made possible by innovations in the earth-moving industry. Post-WW II economic and political events spurred the development of more powerful and agile machines. Caterpillar, Allis-Chalmers, International Harvester, J. I. Case, Deere, and Massey-Ferguson. The author worked for many years in international marketing for Caterpillar.


Alec Skempton, et. al., eds. Biographical Dictionary of Civil Engineers in Great Britain and Ireland, 1500-1830. Thomas Telford Pub. (www.thomastelford.com), 2002. 944 pp. £76. Careers and achievements of more than 800 individuals who carried out civil engineering work or otherwise contributed to the development of the profession.

Stuart B. Smith. The Development of Industrial Museums within Landscapes. IAR 24,1 (May 2002), pp. 5-10. Rolt Memorial Lecture 2001, delivered to the AIA, offers thoughts on IA in Great Britain and on the preservation of industrial museums and landscapes.


- Robert Young. ‘A Dialogue I’ll Tell You as True as mee Life ...’: Vernacular Song and Industrial Archaeology. IAR 24,1 (May 2002), pp. 11-22. The social context of working people’s lives as revealed in sources traditionally ignored by the empirical study of industrial sites and artifacts. Examines vernacular song as a source of information, and considers in detail three such songs from the northeast of England coalfield.

- Ulf Erdmann Zeigler. The Becher’s Industrial Lexicon. Art in America (June 2002). Full-length interview of the husband and wife team who have documented hundreds of industrial structures in Europe and the U.S. Reproduces Becher collages of German exposed framework houses, coal breakers, silos, watertowers, cooling towers, hoists, grain elevators, and industrial walls with conduits.

**BRIDGES**


- Kirk Johnson. Tilting at Windmills, Only This One’s a Bridge. NY Times (July 1, 2002). Cantilever, deck-truss railroad bridge, built in 1888, over the Hudson at Poughkeepsie is embroiled in a preservation controversy. A court has ordered a stop to all repairs and tours.


- Benjamin Wallace-Wells. Homecoming for 111-year-old Span. Philadelphia Inquirer (Apr. 11, 2002), Sec. B, p. 1. Pony-truss bridge in Bergen Co., NJ, is relocated to the site where it was made in Phoenixville, PA. Patrick Harshbarger and Lynn Rakos [SIA] were interviewed.

**IRON & STEEL**


- Richard Martin. Melt Down. Wired (Feb. 2002), pp. 88-93. Decline and rebirth of the Bethlehem Steel works as a museum of industry is a case study in globalization [will be a tour site, 2003 SIA Fall Tour].


**CHEMICALS INDUSTRY**


- Anne Cooper Funderburg. Paint Without Pain. I&T (Spring 2002), pp. 48-54. Brief history of paint industry with focus on Wetherhill’s white-lead factory in Philadelphia (early 19th c.), Sherwin-Williams ready-made paints (1870s-80s), and Glidden latex paints (late 1940s).


**AGRICULTURE & FOOD PROCESSING**


Society for Industrial Archeology Newsletter, Vol. 31, Nos. 3-4, 2002
CALL FOR NOMINATIONS—SIA OFFICERS, DIRECTORS, COMMITTEE MEMBERS

Your Society Needs Your Help

The SIA depends on the freely given time and experience of its members to administer the organization and organize its activities. Here’s an opportunity for you or a colleague to give back to the Society by offering to serve. You have more to give than you may think and your voluntary time and experience are wanted and will be appreciated. Please don’t hesitate to nominate yourself—it may be the only way we know you’re out there and available. Modesty here is not a virtue. The deadline is December 31, 2002. If you’re not sure, call or email me and let’s talk about it.

Coming up in 2003 are five openings: secretary, treasurer, two directors, and one member of the nominations committee. Submit your name or the name of a colleague, keeping in mind that each candidate must be an SIA member in good standing and must consent to being considered for nomination.

Bob Frame
Chair, Nominations Committee
612-341-8140, frame@mnpreservation.org

Positions open in 2003:

Secretary (3-year term) serves as a member of the Board of Directors, takes official minutes at board meetings and the annual business meeting, and maintains the official records.

Treasurer (3-year term) serves as a member of the Board of Directors and maintains the SIA’s accounts and financial statements.

Directors (3-year term), two of seven directors on the Board of Directors, which meets three to four times per year, including during the annual conference. Directors govern official business of the SIA and chair committees that oversee Society operations, such as publications, tours and conferences, and local chapters.

Nominations Committee (3-year term) serves as one of three elected members who oversee the annual nominations and elections. The newly elected member chairs the committee during the final year of the term.

All nominations are reviewed by the Nominations Committee, which will present a slate of candidates to the membership. Each nomination must include the name, address, telephone and e-mail address of the person nominated, and the office, along with evidence that the candidate consents to be nominated. Once the slate is selected, the Nominations Committee will request a brief biographical statement and a photograph from each nominee.

Please submit nominations by December 31, 2002, to the committee chair: Bob Frame, Preservation Alliance of Minnesota, International Market Square, Ste. 54, 275 Market St., Minneapolis, MN 55405; 612-341-8140; frame@mnpreservation.org. If you’re unsure about the process or the obligation, please call or email.

Editor’s Note: The Board of Directors requested that this year’s call for nominations appear in the newsletter to save the society the considerable cost of a separate mailing. The bylaws state that the Nominations Committee shall request suggested nominations by the members by means of a printed announcement at least thirty (30) days prior to selection by the Nominations Committee, Section 2.05 (a). This is that printed announcement.

SIA Officers and Directors, 2002-2003
Vance Packard, President (2002-04)
Chris Andreac, Vice President (2002-04)
Carol Poh Miller, Past President (2002-04)
Richard K. Anderson, Jr., Secretary (2000-03)
Nanci K. Batchelor, Treasurer (2000-03)
Susan Appel, Director (2002-05)
Perry Green, Director (2002-05)
Mary Habstritt, Director (2000-03)
Betsy Fahlman, Director (2001-04)
Robert Kapsch, Director (2001-04)
Bode Morin, Director (2002-05)
Robert Stewart, Director (2000-03)
Patrick E. Martin, Executive Secretary and Editor IA
Patrick Hanshberger, Editor SIAN

Nominations Committee
Bob Frame, Chair (2000-03)
Michael Raber (2001-04)
Justin Spivey (2002-05)
Carol Poh Miller, ex officio (2002-04)


➤ Bill Osinski. In Cairo, Syrup was King: After More than 100 Years, the Industry Is Gone. Atlanta Journal-Constitution (Mar. 22, 2002). S. A. Roddenberry established a cane-sugar business in Cairo, GA, about 1862. The high-school football team was even called the “Syrupmakers.” Dallas-based Dean Foods Co. is closing the last of the syrup-making operations.

➤ Michael Pollan. Power Steer. NY Times Magazine (Mar. 31, 2002). Described as the “biography of a cow.” Reporter buys
steer and follows the details of its life from the ranch, to feed-lot, to packing plant.


➤ Paul Skola. Cost Spelling End of Coke Icon. Rome (GA) News-Tribune (Dec. 19, 2001) AP Wire. The Jefferson City (MO) Coca-Cola Bottling Co. will close the line that fills the famous 6.5-oz. green bottles because of problems with customers not returning the bottles and the retirement of the employee who ran the bottling line for 31 years. It was one of three 6.5-oz. bottling lines still in operation in U.S. [Does not say where the other two are.]

**MISC. INDUSTRIES**


➤ Mary and James Gage. The Art of Splitting Stone: Early Rock Quarrying Methods in Pre-Industrial New England, 1630-1825. Powow River Books (163 Kimball Rd., Amesbury, MA 01913; jgage@nesl.edu), 2002. 63 pp., illus., $10. Drawing upon historical accounts and archeological reports, pieces together the early history of rock quarrying. Eleven different stone splitting methods are documented, including one unique to New England. Authors have discovered a rare archeological site where some of the tools used in latter method are still stuck in the rock.

➤ Archie Green. Tin Men. Univ. of Ill. Pr. (1-800-545-4703), 2002. 216 pp., illus., $24.95 cloth. For centuries, the history and lore of tinkers, tinners, tinsmiths, and sheet-metal workers have been represented through figurative sculptures known as tin men. Some served as sheet metal shops’ trade signs or proved an apprentice’s competence. Exploration of the relationship of tin men to craft education, union traditions, labor history, and social class. Inventory of tin men in museums and metal shops.

➤ John T. Labbe and Lynnwood Carranco. A Logger’s Lexicon. Timber Times Pr. (www.timbertimes.com), 2001. 240 pp., illus., $48.95. Tom Hull [SIA] writes: “Don’t know a robbers stick from a road monkey? Can’t tell the difference between plugging for pitch and a plumb-bob squirrel? If logging terms have you so confused that you mistake your gut hammer for a plumb bob, your time to consult A Logger’s Lexicon. I haven’t had so much fun with a book in years. It’s not for the prim and proper or politically correct. Previous dictionaries were restricted because of publishing taboos of the times. The authors thought it was time for a dictionary of historical accuracy, one that records what loggers, with their unique lingo, really called things. This book is absolutely uncensored.”

➤ Frank R. Levstik. Ohio Liberty Trucks. Timeline (May/June 2002), pp. 32-39. The first Class B Liberty War Trucks were built by the Gramm-Bernstein Truck Co. of Lima and came off the assembly line on Oct. 17, 1917. Timeline is the magazine of the Ohio Historical Society, 6 issues/yr., $30. Avail: 1982 Velma Ave., Columbus, OH 43211.


**BUILDINGS & STRUCTURES**

➤ Arnold Berke. Mary Colter, Architect of the Southwest. Princeton Architectural Press, 2002. 320 pp., illus., $24.95. Working almost exclusively for the Fred Harvey Co. and the Santa Fe RR, Colter’s career spanned the first half of the 20th c. She designed numerous structures at Grand Canyon and other locations on the Santa Fe, including Harvey Hotels and depots, as well as tourist attractions, combining natural features with designs inspired by prehistoric ruins and Pueblo architecture.

➤ Wilber Caldwell. The Courthouse and the Depot. Mercer Univ. Pr., 2001. 613 pp. $50. Examination of courthouse and railroad depot architecture in Georgia from 1833 to 1910. Relates railroad development to architecture and economic aspirations of rural communities. Communities at railroad junctions had highly stylized court buildings, while those not at junctions were plain. Includes regional maps showing rail lines, dates of construction, company names, etc.

➤ Glenn Collins. A Slow Return as a Hub for Aviation. NY Times (Apr. 27, 2002), p. A14. Newark Airport’s first terminal, opened in 1935, is being restored. The Art Deco building was the New York metropolitan area’s first passenger terminal to integrate an airmail center, administration, air-traffic control tower, meteorological services, a hotel room for pilots, luncheonette, and baggage facilities. It was considered the busiest air terminal in the world in the late 1930s.


➤ Robert Pavey. Southern Standby: Plant Made Gunpowder for Confederacy. Augusta Chronicle (Apr. 9, 2002) and Birds
Endanger Monument (Apr. 19, 2002). Efforts to preserve and protect the 176-ft. brick smokestack built in 1861 at the Selby Mill in Augusta, GA.


WATER CONTROL & RECLAMATION


> Lisa W. Foderaro. ‘Watery Graves’ Was No Figure of Speech. NY Times (May 14, 2002). Unusually low water levels at NYC’s Ashokan Reservoir in the Catskills reveals the stone-building foundations and remnants of villages that were taken over by eminent domain in 1913. Many residents still feel bitter for the loss of family homes and property. NYC Water Dept. plans exhibits at this and five other reservoirs west of the Hudson to commemorate sacrifice of communities displaced by the city’s water system.


> Saved from the Dam: The Delaware Water Gap National Recreation Area is a theme issue of CRM v. 25,3 (2002) that explores the impact of a dam that wasn’t, the Tocks Island Dam project, begun in the 1950s and blocked in the late 1970s. The area that the dam would have flooded is now a NRA with diverse historic properties, including farms, resorts, bridges, roads, and railroads, posing challenges to preservation and adaptive reuse.

> James Sterngold. The Big Old Dam Still Thrills, but from Fewer Angles. NY Times (Apr. 27, 2002). Security measures at Hoover Dam spell an end to ‘hard hat tours’ for viewing the interior of the dam and limit the places visitors can go to view it from the exterior. The number of visitors has fallen from 1.3 million to 900,000 per year.


POWER GENERATION


> Angelika Baumann. The Viennese Gasometer-City: A Container for Gas Becomes a Container for People. TIC-CIH Bulletin 16 (2002), pp. 1,7. Highly critical review of the adaptive reuse of the gasworks in Wien-Simmering, built in 1896-99. One of the gasholder houses has been turned into an event hall with seating for 3,000 people. Other buildings now house apartments, offices, parking, and a mall. Claims preservation was not served by removing all signs of machinery and original function.


MINES & MINING


> Andy Fahrenwald. Samuel Knight’s Invention of a Unique Dredge Machine. Knight Club Noon Whistle, 3 (Apr. 2002), pp. 2-7. Samuel Knight’s dredge machine, patented in 1885, for removing overburden from gold-bearing gravel beds. The Noon Whistle is sent to members of the Knight Foundry and also includes updates on efforts to preserve and interpret the foundry [tour site—Annual Conference 1996]. Membership...
begins at $18.72/yr. Knight Foundry, Box 1776, Sutter Creek, CA 95685.


• Hot Sauce Bottle Offers Peek into Mining Town’s Past. Savannah Morning News/AP Wire (June 30, 2002). Short, quizzical news item reports archeologists have discovered the shards of a 130-yr.-old bottle of hot sauce, perhaps one of the oldest ever found, beneath the site of the Boston Saloon of Virginia City.

• John R. Park. A Guidebook to Mining in America. Stonerose Pub. Co. (7741 SW 59th Ct., S. Miami, FL 33143; http://stonerosepublishers.home.att.net). 2 vols., 622 pp., photos, illus., glossary. $34.68. History of the mineral resource industries disguised as a travel guide. More than 1,700 entries: mining museums, museums with mining exhibits, tourist mines, viewable or tourable working mines, preserved ghost mining towns, mining monuments, stone quarries, blast furnaces, metal refineries, lime kilns, charcoal kilns, coke ovens, saltworks, salt peter caves, petroleum refineries, pipelines, ore loading docks, ore boats, canals, industrial railroads, mine offices and houses, mints, assay offices, etc., etc. Also available is Maryland Mining Heritage Guide including Delaware and the District of Columbia. 88 pp., photos, maps, $11.95. Offers expanded coverage with 130 additional entries and text. [These are very comprehensive, interesting and user-friendly resource guides. Great to have along when traveling!—The Editor].

TEXTILES


• Rosa Serra. Colonies Textils de Catalunya. Angle Editorial (Passeig de Pere III, 14-16 5e 1a, 08240 Manresa, Spain), 2002. In Catalan with English translation. Textile mills that grew up along the rivers flowing from the Pyrenean Mountains through Catalonia are claimed to be the most intense exploitation of waterpower of any rivers in the world. Densely illustrated book examines their architectural and technical heritage.

RAILROADS


• Herbert H. Harwood, Jr. Invisible Giants: The Empires of Cleveland’s Van Sweringen Brothers. Indiana Univ. Pr. (1-800-842-6796), 2002. $39.95. One of the most dazzling business phenomena of the 1920s, Cleveland’s two bachelor Van Sweringen brothers came out of nowhere to control the country’s largest railroad network. Simultaneously, they sponsored creation of the model upper-class suburb of Shaker Heights and the landmark Terminal Tower building.

• Eugene L. Huddleton. Uncle Sam’s Railroads: The USRA and the Nation’s Railroads. Indiana Univ. Pr. (1-800-842-6796), 2002. 196 pp., photos. $39.95. The US Railroad Administration was created during WW I to operate the railroads on their intensified wartime footing. As a result, the USRA changed the face of railroads forever and left America with twelve now-classic locomotive designs. Illustrated book presents a study of the 30-yr. impact of the USRA on steam locomotives.

Industrial Railway Record is the journal of the Industrial Railway Society (UK). £13/yr., quarterly. It covers all aspects of industrial railways and locomotives in Great Britain and abroad. The most recent issue (v. 169, June 2002) includes Chris Fisher, The Woolpit Brickworks Railway (Suffolk); Cliff Shepherd, Stephenson-Crossley Diesel Shunters; and Keith Chester, The Duro Dukovic Class 62 Locomotives (Yugoslovian tank locomotives). In addition to its journal, the society maintains an extensive book sales list with an emphasis on European industrial railways and mines. Info: R. V. Mulligan, Owls Barn, The Chestnuts, Aylesbeare, Exeter, Devon, EX5 2BY, U.K.

• William D. Middleton. When the Steam Railroads Electrified. 2nd Ed., Revised. Indiana Univ. Pr. (1-800-842-6796), 2001. Revised 2nd ed. of a highly sought after, comprehensive history of electrification that has been out of print for years.

• Bill Osinski. ‘Rolling State Park’ Gets on Track. Atlanta Journal-Constitution (June 24, 2002). New excursion train called the SAM (Savannah-Americus-Montgomery) travels through Georgia cotton country. Stops at the Georgia Rural Telephone Museum (Cordele), reported as having the world’s largest collection of historic telephone equipment.

ABBREVIATIONS:

CRM = Cultural Resource Management, published by the U.S. National Park Service
IA News = Industrial Archaeology News, published by the Assn. for Industrial Archaeology (UK)
IAR = Industrial Archaeology Review, published by the Assn. for Industrial Archaeology (UK)
I&IT = American Heritage of Invention & Technology
NRR = National Railway Bulletin, published by the National Railway Historical Society
SCA Journal = Society for Commercial Archeology Journal
T&C = Technology & Culture: Quarterly of the Society for the History of Technology

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**GENERAL INTEREST**

- **American Machinist Memories** is a series of books reprinting selected articles from early issues of *American Machinist* Magazine. The series is organized by theme. To date, it includes *Machine Shop* 1900-01 (tools and techniques of the professional machinist); *Foundry* 1900-01 (patternmaking and molding, including an article on molding a 9-ton flywheel); *Ordnance* 1900-01 (history, design details, and manufacturing techniques of various types of ordnance); and *Engines* 1900-02 (design, construction, and repair of engines). Illus., $11.95 each, paper. Also, *Echoes from Oil Country* (3 vols., illus., $7.95 each, paper) the wild stories of W. Osborne, a fictionalized machinist from Pennsylvania's oil district, and his mishaps repairing governors, hiring good men, fixing pumps, working with bad Babbitt metal, running a worn-out lathe, and much more. American Machinist Memories is among a wide selection of reprints and technical books available from Lindsay Publications, Box 538, Bradley, IL 60915; (815) 935-5353; www.lindsaybks.com. Publication of reprints and technical books available from Lindsay Publications, Box 538, Bradley, IL 60915; (815) 935-5353; www.lindsaybks.com.

- **Mill Village** (pp. 29-41); Martin T. Olliff, *Patterns of Western New York* (pp. 97-111).
- **From Shovel and Barrel to Automatic Unloading, 1855-1900** (pp. 43-55); J. Daniel Pezzoni, *Making Rifle Barrels*, reprints from *Machine Shop* 1900-01.
- **Seven Sons: Millionaires and Vagabonds**. *Trafford Pub. (www.traford.com/robots/99-0024.html)*, 1999. 392 pp., biblig. $35.25. Story of the remarkable Washburn brothers of Livermore, ME. One of these was Cadwallader C., milling magnate of Minneapolis. Another was William D., who made his fortune in lumber, flour milling, and railroads.

- **Looking for Work, Searching for Union** (Summer 2001), v. 17, 3, pp. 4-12. Photographer in Thomas, WV, and the photographs he took of the WV Div. of the PAD&W and the individuals who guided its destiny.

- **Seven Strikes: Miners, Musicians, Salesgirls and the Fighting Spirit of Labor’s Last Century**. Beacon Pr., 2001. 174 pp. $24. Covers the Ludlow Massacre of Colorado coal miners by the National Guard in 1913; the New York movie theater musicians’ strike of 1936 in protest of job lost to the new technology of talking pictures; and a sit-in of Woolworth counter girls in Detroit during the Depression that was successful in achieving better pay and benefits.

- **Sana Siwolop. Shops Set Where Industries Were Once at Home.** NY Times (Oct. 23, 2002, p. C9). Atlas Terminals, built some 80 years ago in Queens, was home to GE, Kraft, and Westinghouse, among others. Developers plan to turn half of it into a retail and office complex.

- **Theodore A. Webb.** *Seven Sons: Millionaires and Vagabonds.* *Trafford Pub. (www.traford.com/robots/99-0024.html)*, 1999. 392 pp., biblig. $35.25. Story of the remarkable Washburn brothers of Livermore, ME. One of these was Cadwallader C., milling magnate of Minneapolis. Another was William D., who made his fortune in lumber, flour milling, and railroads.

railfans—often found around the lines with cameras and notebooks—report greater scrutiny of their activities and, at times, harassment by police. Some argue that railfans could be a real value in spotting a truly suspicious activity and reporting it.

Railroad Heritage is the quarterly magazine of the Center for Railroad Photography and Art (Box 259330, Madison, WI 53725; www.railphoto-art.org). Articles examine the work of railroad photographers and artists. No. 5 (2002) includes Santa Fe Photos Launch Project (30 yrs. of Santa Fe photos by company photographer R. Collins); Interurban Photos Show Style (Chicago rapid transit publicity photos); Union Station: A Chicago Landmark; and Seeing the Metropolitan Corridor (interview with American railroad landscape historian John R. Stilgoe).


David O. Stowell. Streets, Railroads, and the Great Strike of 1877. Univ. of Chicago Pr., 1999. 182 pp., illus., maps. $31; $15 pap. The strike as a community uprising. Details the enormous cost in human terms of bringing railroads into urban centers.

Timber Transfer is the newsletter of the Friends of East Broad Top RR. The Spring 2001 issue included Lance Myers, New Life at the North End, The Mt. Union Connecting RR, and Vagel Keller, The Reluctant Railroad, The EBT’s Rocky Ridge Branch. Newsletter is a source of information on efforts to preserve the EBT, believed by railroad historians and enthusiasts to be the most complete narrow-gauge railroad in the U.S., as well as feature articles on the EBT and related subjects. Quarterly newsletter is avail. with membership in the Friends. $30/yr.

For the committee,
Carol Poh Miller, Chairwoman*
Justin Spivey

Reply to: SIA Nominations Committee, c/o Carol Poh Miller, 17903 Rosecliff Road, Cleveland, OH 44119-1347; 216-692-0747; cpmiller@stratos.net

* Note: Since announcement of the call for nominations in the last issue of SIAN, Nominations Committee Chairman Robert M. Frame III resigned. SIA President Vance Packard appointed Past President Carol Poh Miller, an ex officio member of the committee, to serve as chair.

Nominations Committee Announces 2003 Slate

The SIA Nominations Committee is pleased to present the following slate of candidates for the 2003 election:

Secretary
Richard K. Anderson, Jr.
(3-year term): Elect One

Treasurer
Nanci K. Batchelor
(3-year term): Elect One

Director
Mark Finlay
Duncan Hay
Lynn Rakos
XXXX
XXXX

Nominations Committee
Larry Mishkar
(3-year term): Elect One

Additional nominations may be made in writing over the signatures of no fewer than twelve members in good standing and delivered to the chairwoman of the SIA Nominations Committee at the address below no later than April 15, 2003. Candidates must have given their consent to be nominated and must also be dues-paying members in good standing. Ballots, together with a biographical sketch of each candidate, will be mailed to all members in early May. Only dues-paying members in good standing will receive a ballot. (Dues notices for 2003 were mailed in December.)

For the committee,
Carol Poh Miller, Chairwoman*
Michael Raber
Justin Spivey

Reply to: SIA Nominations Committee, c/o Carol Poh Miller, 17903 Rosecliff Road, Cleveland, OH 44119-1347; 216-692-0747; cpmiller@stratos.net

WATER TRANSPORT

Frederick E. Allen. The ‘Monitor’ Rises. I&T (Winter 2003), pp. 48-58. Bringing up parts of the Civil War ironclad ship from the ocean bottom off Cape Hatteras.


Richard Chase. Tugs Everlasting. I&T (Fall 2002), pp. 24-27. Class of tugboats known as railroad tugs, built to move car floats, have long outlived their original job.

Mary Louise Clifford and J. Candace Clifford. Women Who Kept the Lights: An Illustrated History of Female Lighthouse Keepers. 2nd ed. Cypress Communications, 2001. 242 pp., illus. $32.95. 141 women who received official keeper appointments in the lighthouse service (more than twice that number received appointments as assistant keepers) and profiles 30 in detail. Most of these women were wives, wid-
owrs, or daughters of former keepers, beginning with Hannah Thomas, who took over the Plymouth Light (MA) in 1776 when her husband went off to war.

➤ Charlie LeDuff. So It’s a Lighthouse: Now Leave Me Alone. NY Times (Apr. 18, 2002). Frank Schubert, 85, is the country’s last civilian lighthouse keeper. Living in a cottage at the Coney Island Lighthouse, built in 1890, he doesn’t like the recent publicity and isn’t taking phone calls or visitors.


➤ Kirkpatrick Sale. The Fire of His Genius: Robert Fulton and the American Dream. Free Press, 2001. 242 pp. $24. Biography of the inventor, one of several developers of steam navigation, but the one who gets the most frequent popular history credit, mainly because of sustained commercial success, according to the author. Fulton’s other endeavors at submarines and anti-ship torpedoes are also recounted, as well as his work as a painter. For another perspective on Fulton, how about John H. White, Jr., Robert Fulton’s Dream. 187T (Summer 2002), pp. 38-46. Summary: he wanted to become rich and well-connected. Along the way he invented the steamboat.


Britain will spend huge sums to reopen or build anew nearly 300 miles of canal. Boom in small boats and developers’ interest in waterfront properties have encouraged the renaissance. Among the projects are restoration of Bow Back Rivers in East London and the Manchester, Bolton & Bury Canal. The 37-mile Cotswolds Canals will include reopening the Sapperton Tunnel, at 2.25-miles the longest canal tunnel in the country. The Anderton Boat Lift, built in 1875 to link the River Weaver and the Mersey Canal, its original machinery restored, has begun raising boats again after being abandoned 20 years ago.

POWER GENERATION


BRIDGES

➤ Mella Rothwell Harmon and Bert Bedeau. Working to Save Reno’s ‘Wedding Ring Bridge.’ SCA News 10,2 (Summer 2002), p. 1. Virginia St. Bridge over Truckee River in downtown Reno, NV, a reinforced-concrete arch built in 1905, is under threat of demolition. Folklore has it that divorcées cast their wedding rings from the bridge after exiting the nearby courthouse.


BUILDINGS & STRUCTURES


➤ James S. Russell. Coop Himmelb(l)au Challenges Preservation Orthodoxy in the Gasometer B Project by Making Stolid... Architectural Record (Nov. 2001), pp. 109-115. Four-gasholder house complex in central Vienna adaptively re-used for apartments, offices, and shops within and above. Each house was assigned to a different architect. Focus of this article is one redesigned by Wolf Prix with a performance hall at grade, 13 stories cantilevered over the top of the hall, and a 22-story addition.

➤ Sara Wermiel. Army Engineers’ Contributions to the Development of Iron Construction in the Nineteenth Century. American Public Works Assn., 2002. Avail: www.apwa.net/bookstore/detail.asp?ProductID=359 or from the Public Works Historical Society, 2345 Grand Blvd., Ste. 500, Kansas City, MO 64108-2641; (816) 472-6100. $15. Since the late 19th c., the work of the U.S. Army Corps of Engineers has centered on rivers and harbors. But earlier in the 19th c., Army engineers were called on to help with a variety of civil (in contrast to military) engineering projects. They were among the first Americans to build with iron. The first part treats the early history of iron-skeleton lighthouses. Several of the earliest of these lighthouses, dating from the 1850s, are still standing off the south coast of Florida. The second part deals with iron-framed fireproof buildings built by the federal government in the 1850s under the overall direction of Army engi-

CONTRIBUTORS TO THIS ISSUE

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With Thanks.
neer, Capt. Alexander Bowman. Dozens of fireproof federal buildings went up in this decade and some are still standing, such as the post offices in Windsor, VT, and Georgetown, Washington, DC. This section of the essay treats the origins of rolled I-beams. Questions or comments? Contact the author, 70A South St., Jamaica Plain, MA 02130, fireproof2@att.net.

**MISC. INDUSTRIES**


**PAPER & PRINTING**


- J. P. Bertrand. *Timber Wolves* Thunder Bay Historical Museum Soc. (Thunder Bay Museum, 425 Donald St. E., Thunder Bay, Ontario, P7E 5V1; (807) 623-0801; fax 622-6880; http://www.tbaytel.net/tbhms/), $59.95; $29.95 pap. Great Lakes Paper Co. grew from a local Thunder Bay operation to an international forest products corporation. Based on photos taken over a 50-year period, every operation of the mill is documented.


**Agriculture & Food Processing**


**Iron & Steel**

- J. P. Bertrand. *Timber Wolves* Thunder Bay Historical Museum Soc. (Thunder Bay Museum, 425 Donald St. E., Thunder Bay, Ontario, P7E 5V1; (807) 623-0801; fax 622-6880; http://www.tbaytel.net/tbhms/), $59.95; $29.95 pap. Great Lakes Paper Co. grew from a local Thunder Bay operation to an international forest products corporation. Based on photos taken over a 50-year period, every operation of the mill is documented.

**Abbreviations:**

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<th>Abbreviation</th>
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<tr>
<td>I&amp;T</td>
<td>American Heritage of Invention &amp; Technology</td>
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<td>SCA News</td>
<td>Society for Commercial Archeology News</td>
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**Publications of Interest** is compiled from books and articles brought to our attention by you, the reader. SIA members are encouraged to send citations of new and recent books and articles, especially those in their own areas of interest and those obscure titles that may not be known to other SIA members. *Publications of Interest*, c/o SIA Newsletter, 305 Rodman Road, Wilmington, DE 19809; phsianews@aol.com.