

# SOCIETY FOR INDUSTRIAL ARCHEOLOGY

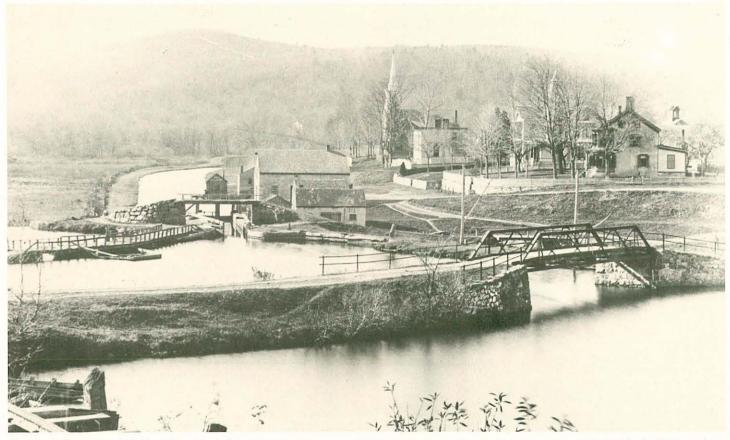
# NEWSLETTER

Volume 17

Winter 1988

Number 4

## Massive canal restoration project slated for Waterloo Village, N.J.



Waterloo Village (formerly Andover Forge), N.J., date unknown. The pony truss bridge in the foreground was collapsed by an overweight truck in the 1950s, and is the bridge that Tom Rick wants to replace with a similar truss. *Photo courtesy Tom Rick*.

Tom Rick [SIA] is looking for a metal pony truss for Waterloo Village near Stanhope, N.J. When he finds the right bridge, it will become part of an incredibly ambitious effort to restore to working condition about a quarter-mile length of a lower canal, a lock, a river crossing, an inclined plane, and about three-quarters of a mile of an upper canal. All the machinery and facilities of the canal will be replicated, including the turbine to power the winding drum, the drum and all gearing, all buildings, a cradle car for the canal boats, two boats, and a mule barn.

In the original operation a canal boat arriving at Waterloo Village and heading east would be maneuvered from the lock to the stilling basin where it would be floated aboard a half-submerged, heavy oak cradle car with wheels on iron rails. The car would be winched by wire cable to the top of the plane and be lowered into the upper canal to continue on its journey.

Waterloo, the only canal village left in N.J., is the site of Plane Number 4 West on the Morris Canal (1830-1926), a system that stretch-

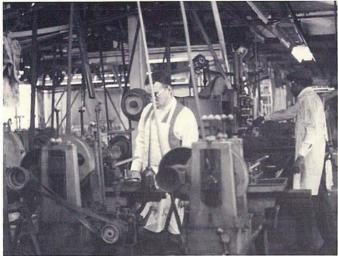
ed between Jersey City and Phillipsburg on the Delaware River. The canal and plane with rails and sleepers are intact.

Rick is project coordinator for the Waterloo Foundation for the Arts and, as president of Manitou Machine Works, Inc., of Cold Spring, N.Y., will do the engineering study necessary to restore the plane and lock, a project estimated to take two years. Although he hoped that construction would begin this summer, funding delays have set the work back.

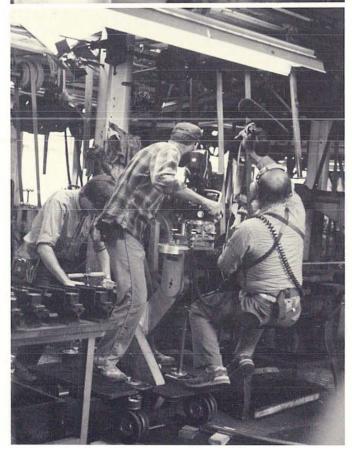
According to Rick, the Morris Canal photographs and drawings in the N.J. state archives are quite complete. Given the available resources, project planners believe that fabrication of the necessary turbine, rails, wire ropes, and other machinery should not be an insurmountable problem. Likewise, the building of a canal boat and railway carriage also could be done with little difficulty since photos and plans of both exist.

If you know of an appropriate bridge for the Waterloo project (see photo of original), contact Tom Rick, Manitou Machine Works Inc., 37 Main St., Cold Spring NY 10516 (914-265-3153).

## IA in the Movies







Buildings of the Springfield (Mass.) Armory survive that date from the early 19th-C, but most of its machinery—with the notable exception of the 1820s Blanchard lathe—is long gone. This posed a problem for the makers of a National Park Service movie about the history of small-arms manufacture at the Armory.

First they simulated Springfield's pre-industrial gunsmithing at Williamsburg, Va., and filmed the action of the replica Blanchard lathe at the National Museum of American History in Wash., D.C. Then, in pursuit of authentic-looking factory settings, in mid-May the NPS sent a film crew from Harpers Ferry, W.Va., to three New England sites to shoot footage for the movie.

The movie-makers depicted 1850s machine techniques on-site at the American Precision Museum in Windsor, Vt., which is housed in the 19th-C Robbins & Lawrence gun factory building. At Pawtucket, R.I., they filmed the replica breast wheel in the Wilkinson Mill at the Slater Mill Historic Site. They then proceeded to New Haven, Conn., to portray early 19th-C machining in the custom gun shop of the U.S. Repeating Arms Co. (formerly Winchester's). Although most of the work in making custom-fitted sporting guns is done by hand, the shop is outfitted with occasionally used machine tools of various ages. In one area of the shop, late 19th-C machines, including a sequence of Lincoln millers arranged as if for mass production, are still powered by leather belts from line-shafting. Except for its fluorescent lighting, this area provided an authentic setting for the Springfield Armory movie.

Arriving at the factory with cameras and lamps, period costumes, and a make-up expert, the film crew dressed five custom gun shop craftsmen in grease-smeared white collarless shirts and aprons, vests, and workman's caps. They restyled their hair, powdered their faces, and pasted on turn-of-the-century mustaches. As the dolly rolled and rerolled along its track, carrying camera, mikes, and crew, the impromptu actors obeyed the director's commands for "Action!" by repeatedly operating and oiling the machines, and shifting the belts from fast to loose pulleys at the end of each "take."

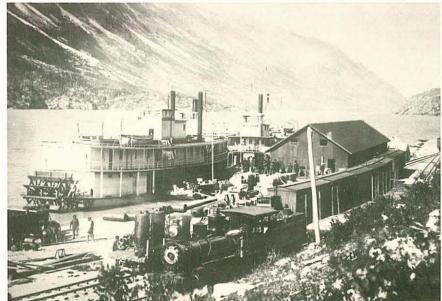
Among the amused kibitzers off-camera were SIA members Michael Raber, Pat Malone, Robert Gordon, and me. At the time we all were preparing a manufacturing history of Springfield Armory (also featured in the special Springfield Armory theme issue of *IA*, vol. 14, no. 1, 1988). The Park Service film will premier at the Springfield Armory Museum when it reopens in 1989 following a major reinstallation of exhibits. *C.C.C.* 

Left top: The forest of belting and antiquated machinery in the custom gun shop of the U.S. Repeating Arms Co., New Haven, Conn., was the right setting for location shooting. Left center: This custom stockmaker donned c1900 worker's garb and a fake moustache to mill a pair of gun barrels. Left bottom: The camera and sound team were wheeled around the machinery on rails. Below: Pat Malone (L) and Bob Gordon (R) [both SIA] observe the man-machine nexus during filming. Carolyn C. Cooper photos.



SIA Newsletter, Vol. 17, No. 4, Winter 1988

## White Pass & Yukon is back on the track





Left: The steamboat landing and White Pass & Yukon depot at Bennett, B.C., about 1900. Photo courtesy Provincial Archives of B.C.

Above: Ceremonial unveiling in Aug. 1988 of the Historic Sites & Monuments Board plaque at the WP&Y station in Whitehorse, Yukon. David Neufeld photo.

"The irresistible power of progress opens the way for the traveler and adventurer, clearing the massive boulders, leveling the mountains and bridging the chasms, that it may girdle the globe with its bands of iron, and plant its standard with its watchword 'Excelsior' upon hitherto inaccessible summits. The solitude of nature is forever undone."

Travelling over the White Pass & Yukon Ry. just after its completion in 1900, C.M. Taylor expressed the confident expansionism of the turn-of-the-century white Euro-American. Like the Klondike Stampede that swirled around it, the narrow-gauge (36 in.) railway, stretching 177 kilometers from Skagway, Alaska, through the rugged coastal mountains to Whitehorse in the Yukon Territory, was part of the aggressive search for wealth on the world's frontiers.

The promising future of resource development in the Yukon River basin attracted investment before the gold rush of 1897-99. The rush, however, encouraged fast work by the White Pass & Yukon Rwy. Co. Ltd. of London, England. In May 1899 the first construction materials had landed at Skagway. Work began immediately under the single-minded direction of a Canadian railway contractor, Mike Heney. Within two years a work force of some 35,000 transient laborers clawed a suitable roadbed out of some of the most difficult terrain traversed by a railway in North America. On July 29, 1900, the last spike tying the line from Pacific tidewater to the navigable headwaters of the Yukon River was hammered in at Caribou Crossing (now Carcross), Yukon Territory.

While the gold rush was over by the time the WP&Y began operation, the company prospered for over a decade. By hauling in heavy equipment to support the mechanization of Klondike placer mining and hauling out copper ore from the Whitehorse area, the WP&Y—with its Yukon River shipping subsidiary, the British Yukon Navigation Co.—consistently earned a healthy profit.

Lean years in the 1920s and '30s, followed by slowly increasing tourism and the initiation of silver-lead ore exports from the Stewart River mines at Mayo, barely kept the company solvent. The construction of the Alaska Highway during World War II relied heavily on the railway for supplies and services. Despite heavy wartime usage by the U.S. Army, the railway was in poor physical condition with limited prospects for profitable operation in the immediate post-war period.

In 1951 a new Canadian company, the White Pass & Yukon Corp., took over the moribund railway and steamboat lines. A program of modernization produced a highly efficient transportation system that introduced 'containerization' to the transport world. The company's continued reliance upon mineral exports led to financial problems in the late 1970s when low world prices for base metals closed most Yukon mines. Without freight, and with many tourists now using the new

Klondike Highway to Skagway, the company shut down rail operations in 1982.

Since the fall of 1987 several different companies attempted to reestablish a limited tourist operation to forestall a possible sale of assets that would see the dispersal of the railway's equipment. These efforts failed, largely due to the complexity of existing union arrangements and the high cost of upgrading the now-deteriorated roadbed. Happily, in March 1988 the WP&Y Corp. announced it would run a seasonal tourist train from Skagway toward the Summit of White Pass beginning in May 1988. The company hopes to extend the trip to Bennett, B.C., or Carcross, Y.T., in future seasons. It appears likely that visitors will once again be able to enjoy one of the most dramatic train rides on the continent.

The completion of the WP&Y had a major impact on the Yukon's transportation network. Previously served only in the summer by stern-wheelers running upstream from Alaska, the interior of the Yukon now had a year-round connection with the outside. The company's integrated transport service effectively eliminated competition and made the YT. a WP&Y preserve for over 50 years. The railway into the Yukon underscores the dependency of northern development in Canada upon external capital and outside control.

To commemorate the railway's role in the Klondike gold rush and its important impact on Yukon history through the 20th C, the Historic Sites and Monuments Board of Canada has declared the railway to be of national historic significance. In Aug. a plaque unveiling ceremony was held at the railway station in Whitehorse, Y.T.

D.N.



#### CONTRIBUTORS TO THIS ISSUE

Betsy Fahlman, Arizona State Univ.; Carolyn C. Cooper, Hamden, Conn.; Aarne H. Frobom, Lansing, Mich.; Edward F. Heite, Heite Consulting, Camden, Del.; Adriaan Linters, Project Industrieel Erfgoed, Belgium; David Neufeld, Canadian Parks Service, Winnipeg; and Tom Rick, Cold Spring, N.Y. With thanks.

# What's a-brewing in Iceland? Could it be . . . IA?

IA is a potentially rich field of study in Iceland, even though the industrial revolution never touched the country. Situated in the middle of the North Atlantic, this thoroughly modern nation of a quarter-million people preserves industrial relics from both sides of the ocean. Two railroad locomotives have been imported into the country and both still exist, one in a museum. Icelanders are careful to preserve the relics of past industrial progress; at folk museums, homemade lathes and exact homemade replicas of Stanley planes are exhibited next to rich textiles and fine furniture. A new maritime museum preserves fishing implements, and the nation's first airline plane hangs from the ceiling of the new air terminal at Keflavik.

The Egill Skallagrimsson brewery on Njalsgata, Reykjavík, has been little changed since the present machinery was installed in 1929. Most of the product conforms to local laws requiring beer to contain less than 2.25% alcohol by volume. To meet this restriction, Icelanders have created several full-flavored but low-alcohol beers that are sold in the soft-drink market.

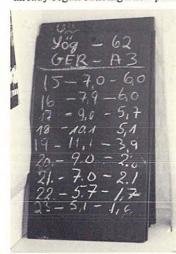
On March 1, 1989, this will change. Strong beer will become legal in Iceland for the first time since 1913. Sanitas brewery in Akureyri has already begun building a new plant to meet the expanded demand, but

Skallagrimsson's management remains mum on immediate expansion plans. The little old brewery is scheduled for abandonment within five years anyway, as the company's new suburban plant is completed.

A recent merger of Iceland's two major wool producers may lead to scrapping of one of the older plants. The former Alafoss plant near Reykjavik is a small wool processing operation from early in the present century, reminiscent of many that existed in the U.S. and England during the 19th-C.

In spite of the rich Viking heritage in its care, the Icelandic national museum has given space to the present century. A recent exhibit featured kitchen equipment from earliest times to the 20th C, and farm machinery is being collected. All the nation's museum and archeological collections are being catalogued in a single computer database.

[Edward F. Heite has published an overview of Iceland's breweries in "The Beers of Iceland," All About Beer (July 1988). He proposes that anyone interested in an IA tour of Iceland, particularly in connection with the upcoming Mar. 1 legalization of strong beer, contact him at POB 53, Camden DE 19934-0053 (302-697-1789). Ed.]



#### THE EGILLS BREWERY IN ICELAND.

Left top: Blackboards, hung on the vats, are still used to record fermentation.

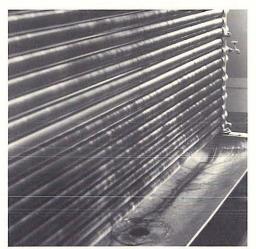
Left center: Attic line-shafting carries power to the brewing equipment and conveyors.

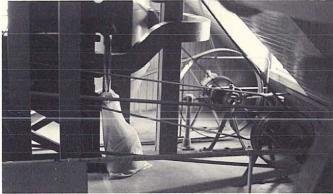
Left bottom: Fermentation is still done in open-top wooden casks (L), now supplemented by stainless-steel vats (R).

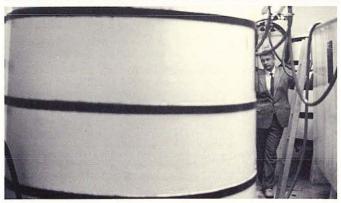
Right top: Beer flows over the cold-water-filled copper tubes of this 1929 external cooler. Most modern brewers use internal cooling devices.

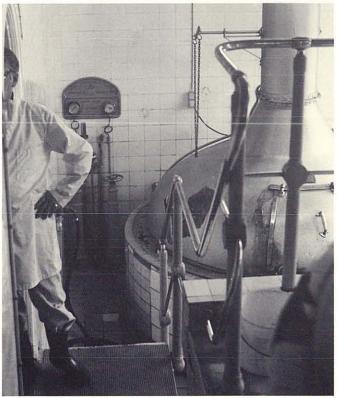
Right bottom: The 1929 mash-cooking equipment remains in first-class condition.

Edward F. Heite photos.









### A SUPPLEMENT TO VOL. 17 NO. 4

**WINTER 1988** 

Compiled by John M. Wickre, Minnesota Historical Society

#### TRANSPORT

Jerry Angier and Herb Cleaves, **Bangor & Aroostook: The Maine RR.** Flying Yankee Enterprises (Box 595, Littleton MA 01640), 1986. 273p, illus., maps, no index. \$29 pap. Enthusiasts' book; general history; incl. potato traffic. Rev.: *Railroad Hist.* No. 158, Spring 1988, pl67-8.

The Archivist/l'Archiviste 15, Sept.-Oct. 1988, is a special issue on the Canadian North, incl. Arctic aviation, p4-5; steam passenger trade on the Great Lakes and St. Lawrence R., 1809-1965, p16-18; and a summary of the Richard Sterling Finnie collection of still and motion picture photography, 1920s-1970s, p6-7 (incl. Mackenzie District mining, Alaska Highway, CANOL pipeline / refinery project, Bechtel Corp. construction projects). Avail.: National Archives of Canada, 395 Wellington St., Ottawa KlA ON3.

The Automobile in American Life. Exhibit, Henry Ford Museum (Dearborn), 1987-1990. Extensive, basically enthusiastic, rev. in *Public Historian* 10, Summer 1988, p89-92; considers exhibit to be "complex, vivacious, subtle and multi-layered"; only major fault being a too-sunny view ignoring problems of environment, Japanese competition, etc.

Don Ball, Jr., **The Pennsylvania RR, 1940s-1950s.** Elm Tree Books (Box 396, Chester VT 05143), 1986. 204p, illus. (some color). \$40. Good as a photo album; no index, no maps. Rev.: *Railroad Hist.* No. 158, Spring 1988, p175-176.

Robert A. Bang, **Westchester County's Million-Dollar-a-Mile Railroad.** BSRA Publications (PO Box 77, Hingham MA 02043), undated. 62p. \$10 pap. Illus., little text. N.Y., Westchester & Boston RR. Rev.: *Natl. Ry. Bull.* 53, No. 4, 1988, p40.

Raymond G. Baxter and Arthur G. Adams, Railroad Ferries of the Hudson and Stories of a Deckhand. Lind Publications (Woodcliff Lake NJ 07675), 1987. 264p, illus., bibliog., fleet lists, indexes. \$30. N.X. City, ca.1850s-1967; with personal recollections, 1940s-1950s. Good for operating minutiae, according to rev. in Railroad Hist. No. 158, Spring 1988, p170-2, but otherwise incomplete, inaccurate, and "unprofessional in marine scholarship." Reviewed more favorably in Natl. Ry. Bull. 53, No. 4, 1988, p38.

Charles W. Bohi and Leslie S. Kozma, "Country Depots in Saskatchewan." In Canadian Rail No. 408, Sept.-Oct. 1988, p165-70.

Michael R. Bonavia, **The Nationalisation of British Transport: The Early History of the British Transport Commission, 1948-1953.** St. Martin's (NY), 1987. 204p. \$35. Rev.: *Amer. Historical Rev.* 93, Dec. 1988, p1336-7.

John Brinckmann, **Pemberton & Hightstown: A Chronicle of Railroading Through the Farm Belt of N.J.** Pub. by the author (17 Runyon Ave., Edison NJ 08817), 1987. 234p, illus. \$34 + \$1.10 post. Pennsy-related line, 1868-1977; printed via hot type on hand press. Rev.: *Railroad Hist.* No. 158, Spring 1988, p179-80.

Keith L. Bryant, Jr., ed., Railroads in the Age of Regulation, 1900-1980. Vol. 1 of Encyclopedia of American Business History and Bibliography. Facts on File (NY), 1988. 512p. \$75.

Hugh V. Clarke, A Life for Every Sleeper: A Pictorial Record of the Burma-Thailand Ry. Allen & Unwin (Sydney, Australia; and 9 Winchester Pl., Winchester MA 08890), 1986. 136p, illus. \$20. Construction by forced labor of Japanese military RR, 1942-1943, with appalling casualties of Allied POWs, Asian civilians, and Japanese and Korean engineers and guards. Rev.: Railroad Hist. No. 158, Spring 1988, p173-4.

Robert S. Davis, Jr., "Records of the Western & Atlantic RR and Related Historical Resources in Georgia." In Railroad Hist. No. 158, Spring 1988, pl51-5. Incl. W&A records at Ga. Dept. of Archives & Hist. (Atlanta), Central of Ga. RR materials at Georgia Hist. Soc. (Savannah).

Gary W. Dolzall and Stephen F. Dolzall, **Monon: The Hoosier Line.** Interurban Pr. (Box 6444, Glendale CA 91025), 1987. 206p, illus., equipment rosters. \$40. Southern Ind. RR (incl. some coal & limestone traffic); primarily a railfan/locomotive book, post-1945; incl. ch. on Lafayette shops.

William D. Edson, rosters in Railroad Hist. No. 158, Spring 1988: "Locomotives of the Gulf, Mobile & Northern" (pl25-43), incl. rail line construction history with maps (pl28-32), and "Diesel Locomotives of the Gulf, Mobile & Ohio" (pl44-47).

Robert L. Emerson, "The Bell's Gap RR and Its Successors: 70 Years of Mountain Railroading, 1871-1941." In Railroad Hist. No. 158, Spring 1988, pl08-19. Pa. (Allegheny Mountains) coal hauler; incl. locomotive roster.

El Escribano (St. Augustine Hist. Soc., FL) 24, 1987, includes Susan R. Parker, "Canoes: Workaday Watercraft in 18th-C. E. Florida" (p52-62) and Edward A. Ridolph, "Street Railways of St. Augustine" (p85-101).

R. C. Farewell, **Rio Grande: Ruler of the Rockies.** Trans-Anglo Books (Box 6444, Glendale CA 91205), 1987. 176p, illus. \$36. B&W photos (1974-1986) of Col./Utah mountain operations of Denver & Rio Grande Western RR; text describes topography and gives short sketch of company history. Rev.: Railroad Hist. No. 158, Spring 1988, p163.

Paul Finkelman, "Slaves as Fellow Servants: Ideology, Law, and Industrialization." In Amer. J. of Legal Hist. (Temple Univ. School of Law, 1719 Broad St., Phila. PA 19122) 31, Oct. 1987, p269-305. Responsibility for industrial accidents; esp. in the southern U.S. in slaves employed in railroad work, on steamboats, and in coal and gold mines.

Stan Fischler, **Next Stop Grand Central.** Boston Mills Pr. (98 Main St., Erin, Ontario NOB 1TO), 1986. 175p, illus. \$25. NYC commuter RRs. Rev.: Railroad Hist. No. 158, Spring 1988, p175.

Richard M. Gladulich, **By Rail to the Boardwalk.** Trans-Anglo Books (Box 6444, Glendale CA 91205), 1986. 331p, illus., rosters, maps, bibliog. \$48. Southern N.J. RRs to coastal resorts, 1850s-present; Pennsy/Reading related. Rev.: *Railroad Hist.* No. 158, Spring 1988, p178-9.

T. R. Gourvish, **British Railways**, **1948-1973: A Business History.** Cambridge Univ. Pr. (NY), 1986. 808p. \$90. Rev.: *Amer. Historical Rev.* 93, Dec. 1988, pl337-8.

Allen Graham, "The Grand Connection." In Canadian Rail No. 408, Sept.—Oct. 1988, p155-64. New Brunswick & Prince Edward Island Ry., Sackville to Cape Tormentine, 1874-1914.

H. Roger Grant, "Railroad History as Seen by Railroaders." In Railroad Hist. No. 158, Spring 1988, p9-12. 6 RR executives' attitudes toward historians and history; report on a panel discussion at the Sept. 1987 meeting of the Lexington Group in Transportation History.

Uwe Granzow, Quadrant, Kompass und Chronometer: Technische Implikationen des euro-asiatischen Seehandels von 1500 bis 1800. Franz Steiner (Wiesbaden), Beiträge zur Kolonial- und Überseegeschichte, no. 36, 1986. 38lp, notes, bibliog. DM58. Textbook, in German, on European sea routes to Asia, emphasizing instruments and methods of navigation. Rev.: Amer. Historical Rev. 93, Oct. 1988, p1021.

Greenberg, Bruce C., Greenberg's Guide to Lionel Trains. Vol. 2: 1901-1942. Greenberg Publishing Co. (7566 Main St., Sykesville MD 21784). 1st ed.; rev. ed. of 1983 book by Robert Pauli. 152p, illus. (many color), index. Incl. locomotives, cars, catalogs, accessories (signals, bridges, stations, other structures).

Ross B. Grenard, **Colorado & Southern.** Andover Junction Publications (PO Box 1160, Andover NJ), 1987. 64p, \$22 pap. Picture book; personalized reminiscence of late steam and early diesel operations. Rev.: *Natl. Ry. Bull.* 53, No. 4, 1988, p39.

Patricia Herlihy, **Odessa: A History, 1794-1914.** Harvard Ukrainian Research Institute (Cambridge MA), 1987. (Avail.: Harvard Univ. Pr., Cambridge MA.) 425p. \$20. Russian Black Sea port; grain trade; lack of good RR connections.

Geoffrey Hodges, **The Carrier Corps: Military Labor in the East African Campaign, 1914-1918.** Greenwood (NY), 1986. 267p. \$40. Human powered transport via native Kenyans, with great loss of life, in area where tsetse flies prohibited use of animal power. Rev.: *Amer. Historical Rev.* 93, Oct. 1988, p1098.

Don L. Hofsommer, "Rivals for California: The Great Northern and the Southern Pacific, 1905-1931." In Montana, The Magazine of Western History 38, Spring 1988, p58-67. GN's "inside gateway" to San Francisco via Ore. and northern Cal.

Jeff Holt, **The Grand Trunk in New England**. Railfare Enterprises Ltd. (Box 33, West Hill, Ontario MIE 4R4), 1986. 176p, illus., notes, bibliog., index. \$30. RR from Montreal to seaport at Portland, Me.; Canadian grain and New England lumber traffic, esp. pre-1930; well-rev. in *Railroad Hist*. No. 158, Spring 1988, p166-7.

Robert C. Jones and David L. Register, **Two Feet to Tidewater: The Wiscasset, Waterville & Farmington Ry.** Pruett Publ. Co. (Boulder CO 80301), 1987. 287p, illus. \$35. Rev. in *Railroad Hist*. No. 158, Spring 1988, pl68-9, calls it ''probably the best single work in the extensive literature on the Maine two-foot-gauge railroads.'' Incl. operating problems of extreme narrow gauge in severe climate, 1895-1933. Line mainly dependent on dairying, with some lumber traffic.

Ken Karlewicz and Scott Hartley, Susquehanna: From Shoreline to Stackpacks. Railpace Co. (Box 927, Piscatawney NJ 08855), 1987. 104p, illus. \$24. Story of revival of New York, Susquehanna & Western "from a nearly moribund switching line to the linchpin of a transcontinental stackpack route." Outstanding photos (most color); of esp. IA interest is the Roebling suspension bridge seen in a view of the Delaware River valley at Lackawaxen, Pa. Rev: Railroad Hist. No. 158, Spring 1988, p181.

Frank Kuznik, "Colossal Comeback." In Historic Preservation 40, Sept./Oct. 1988, p64-9. Daniel Burnham's 1907 Beaux-Arts Union Station in Wash., D.C., undergoing \$160 million restoration. Color photos—and don't miss color ad inside front cover for commemorative Union Station silk scarf (journal is \$15/yr. and scarf \$70) from National Trust for Historic Preservation, 1785 Mass. Ave. NW, Wash. DC 20036).

Warren F. Lee, Down Along the Old Bel-Del: The History of the Belvidere-Delaware RR Co., a Pennsylvania RR Co. Bel-Del Enterprises (Albuquerque NM), 1987. (Avail.: Tri-State Ry. Hist. Soc., Box 2243, Clifton NJ 07015.) 366p, illus. \$35. N.J.-Pa.-N.Y. RR, carrier of ag. products, pig iron, anthracite coal, zinc ore and cement, 1850-present. Rev.: Natl. Ry. Bull. 53, No. 4, 1988, p40-41.

Alan R. Lind, Limiteds Along the Lakefront: The III. Central in Chicago. Transport Hist. Pr. (Box 201, Park Forest IL 60466), 1986. 144p, illus., maps, bibliog., index to photos but not text. \$25. Mostly 20th C. Rev.: Railroad Hist. No. 158, Spring 1988, pl64.

Live Steam 22 (Oct. 1988) includes articles on rail transport in in China and Japan, esp. steam locomotives, p8-14; English-mfd. "Fire King" self-propelled steam fire engines, p15-17; and, in "The Engine House" column authored by Conrad Milster [SIA], a sewage-pumping radial triple expansion Corliss built in 1898 and still in service in Boston (descr. to be continued in the Nov. issue). Avail.: Box 629, Traverse City, MI 49685.

Vernon A. Lockwood, "The Florida East Goast Ry. Hospital: A Study of Early Corporate Medicine, 1906-1963." In J. of the Florida Medical Assn. 74, July 1987, p499-503.

V. V. Masterson, **The Katy RR and the Last Frontier.** Univ. of Mo. Pr. (Columbia), 1988 reprint of 19?? orig. 326p. \$15. Missouri Kansas Texas [MKT] RR.

Michael G. Matejka and Greg Koos, **Bloomington's C&A Shops: Our Lives Remembered**. McLean County Hist. Soc. (201 E. Grove St., Bloomington IL 61701), 1987. 194p, illus. \$11 pap. Oral histories; Chicago & Alton RR mechanical dept., 1900-1972. Rev.: *Railroad Hist*. No. 158, Spring 1988, p164-5.

Merrill J. Mattes, The Great Platte River Road: The Covered Wagon Mainline via Fort Kearney to Fort Laramie. Univ. of Neb. Pr. (Lincoln), 198? 640p, illus., maps, tables, bibliog., index. \$35/15 pap.

Arnold S. Menke, "Gerald M. Best's 'Autobiography of a Railfan'." In Railroad Hist. No. 158, Spring 1988, pl4-71. Biog., autobiog., and bibliog. of Best (1895-1985), RR photographer / writer / modeler / collector.

Minnegazette (Minnesota Transportation Museum, PO Box 1796, Pioneer Station, St. Paul MN 55101-0796), Fall 1988, includes an article on the Taylors Falls & Lake Superior RR (rock cuts, trestles, and side hill construction along the St. Croix River, 1878-1948), p14-21; museum equipment roster, p24-5.

The Next Station Will Be..., Vol. IX, Salamanca, N.Y. to Marion, Ohio, edited by Wilson E. Jones. Railroadians of Amer. (18 Okner Parkway, Livingston NJ 07039), 1987. 60p, illus. \$18. Erie RR depots from 1909-1910 official photos. Rev.: Railroad Hist. No. 158, Spring 1988, p180-81.

John Niven, The American President Lines and Its Forebears, 1848-1984: From Paddlewheelers to Containerships. Univ. of Delaware Pr. (Newark), 1987. 327p. \$40. Pacific Coast and trans-Pacific. Rev.: Amer. Historical Rev. 93, Oct. 1988, pl109; J. of Amer. History 75, June 1988, p262.

Railroad History No. 158, Spring 1988, contains articles on WWI RR-mounted 14-in. naval cannons (p94-102) and on famous persons injured in train wrecks (p103-7), as well as articles and reviews cited separately. (Publ.: 2/yr.; avail. with \$15 membership from the Ry. & Locomotive Historical Society, PO Box 1418, Westford MA 01886). New addresses: H. Roger Grant, editor, RR History, Dept. of History, Univ. of Akron, Akron OH 44325; James N.J. Henwood, book review editor, RR History, Dept. of History, E. Stroudsburg PA 18301. For info on early issues see Thomas T. Taber III, The Railroad History Index, 1921-1984, 176p, \$10 pap. to members / \$12.50 to non-members, avail. from R&LHS.)

The Railroad Strike at Harrison, 1923. Boone County Historical Soc. (PO Box 1094, Harrison, Ark.), 198? photocopy reprint. 144p. \$7.50 ppd.

Henry Reichman, Railwaymen and Revolution: Russia, 1905. Univ. of Cal. Pr. (Berkeley CA 94720), 1987. 351p, illus. \$38. Incl. decline of Russian RRs prior to Revolution of 1905: "incredible carelessness, inefficiency, corruption, and even stupidity." A revision of a 1977 dissertation. Rev.: Railroad Hist. No. 158, Spring 1988, pl73.

Edward A. Ridolph, "When Miami Beach had a Railway." In Natl. Ry. Bull. 53, p24-33. Miami Beach Ry. Co. trolleys, 1919-1940. (Avail.: Natl. Ry. Historical Soc., PO Box 58153, Phila. PA 19102.)

Salem and the East Indies Trade. Subject of Cobblestone; the History Magazine for Young People 9, Sept. 1988. 48p. Seaport of Salem, Mass., ca.1785-1815; ship voyages to China and India; Peabody Museum. (Avail.: 20 Grove St., Peterborough NH 03458).

Theodore W. Scull, **Hoboken's Lackawanna Terminal.** Quadrant Pr. (19 W. 44th St., New York NY 10036), 1987. 96p, illus., bibliog. \$13 pap. Delaware, Lackawanna & Western 1907 terminal on N.J. waterfront opposite Manhattan; history of RR and ferries as well as guide to present structure.

William H. Sewell, Jr., "Uneven Development, the Autonomy of Politics, and the Dockworkers of 19th-G. Marseille." In Amer. Historical Rev. 93, June 1988, p604-37. France; incl. effect of steamships on the archaic work methods of the dockworkers society, a carryover from the guild system of the old regime.

Paul H. Stringham, "Pioneer Switching and Terminal Ry.: The Peoria & Pekin Union." In Railroad Hist. No. 158, Spring 1988, pll9-24. Ill., 1880s-present; incl. roster.

Sunland Tribune [journal of the Tampa Historical Society, FL] 13, Nov. 1987, includes articles on streetcars (p28-31) and the Tampa Bay Port Authority (p38-44).

Donald Von Court, **Transportation Buttons. Vol. 1 — Railroads.** Publ. by the author (41 Hillcrest Rd., Madison NJ 07940), 198? Rev.: *Natl. Ry. Bull.* 53, No. 4, 1988, p39.

John H. White, Jr., "The Magic Box: Genesis of the Container." In Railroad Hist. No. 158, Spring 1988, p72-93. Freight containers ("a warehouse in motion"), from Coalbrookdale, England, 1792, to 1930s (modern RR/truck/ship/aircraft operations began with revival of containerization in mid-1950s after legal battles to overcome ICC resistance to intermodal cooperation).

Neil Wooler, **Dinner in the Diner.** David & Charles (N. Pomfret VT 05053), 1987. 224p, illus. \$30. Gt. Britain, on- and off-train. Rev.: *Natl. Ry. Bull.* 53, No. 4, 1988, p40.

#### MISC. INDUSTRIES

Edward H. Beardsley, A History of Neglect: Health Care for Blacks and Mill Workers in the 20th-C. South. Univ. of Tenn. Pr. (Knoxville), 1987. 384p, illus, bibliog., index. \$35. Esp. cotton textile mills, to 1970s; white as well as black workers. Rev.: Florida Historical Q. 67, July 1988, p103-5; J. of Amer. History 75, June 1988, p289-90.

John A. Belton, "Gooey Firearms Made in Canada, 1919-1929." In Arms Collecting 26, May 1988, p51-64. H. W. Cooey Machine & Arms Co., Toronto (1903-1929; firearms produced 1919-1929) and Cobourg (1929-1979; after 1961 as a division of Winchester-Western Canada Ltd.); mostly a checklist of sporting rifles and shotguns, 1919-1979. Cooey (1881-1962) hated assembly line work and rotated workers on his own production lines.

August C. Bolino, "British and American Horology: A Comment on Hoke." In J. of Economic History 48, Sept. 1988, p665-7. The American System of Manufactures as applied to watches and clocks; reply to Hoke article, same journal, June 1987, p.321-327.

Stanley C. Bond, Jr., "The Development of the Naval Stores Industry in St. Johns County, Florida." In Florida Anthropologist 40, Sept. 1987, p187-202.

Eric Dorn Brose, Christian Labor and the Politics of Frustration in Imperial Germany. Catholic Univ. of America Pr. (Wash. DC), 1986. 420p. \$30. Revised dissertation devoting special attention to miners in western Germany. Rev. in Labor History 29, Winter 1988, pll6-18, states that it is "the best history of Christian trade unions in Germany from their origins to 1918."

Vincent P. Carosso with Rose C. Carosso, **The Morgans: International Bankers, 1854-1913.** Harvard Univ. Pr. (Cambridge MA), 1987. 906p, illus. \$65. Incl. RR financing, but few mfg. firms. Rev.: *J. of Amer. History* 75, June 1988, p262-3; *Amer. Historical Rev.* 93, Dec. 1988, p1406-7.

Melissa Clark-Jones, A Staple-State: Canadian Industrial Resources in Cold War. Univ. of Toronto Pr. (Buffalo NY), 1987. 269p. \$35/15 pap. Incl. oil, forest, and nickel industries, c.1947-1965. Rev.: Amer. Historical Rev. 93, Oct. 1988, pl144.

David A. Clary, **Timber and the Forest Service.** Univ. Pr. of Kan. (Lawrence KS), 1989 252p, illus., index. Timber management; public pronouncements vs. actuality. Rev.: *Montana, The Magazine of Western History* 38, Winter 1988, p77.

Bruce L. Clayton and John A. Salmond, eds., **The South is Another Land: Essays on the 20th-C. South.** Greenwood Pr. (Westport CT), 1987. 230p, bibliog., index. \$35. Section on "The World of Work" includes women tobacco and textile workers in N.C., CIO organizer (1937-1953) Lucy Randolph Mason, and sectional influences on the U.S. Labor Dept. during WWI. Rev.: *Florida Historical Q.* 67, July 1988, pl08-9.

Patrica A. Cooper, Once a Gigar Maker: Men, Women and Work Culture in Amer. Gigar Factories. Univ. of Ill. Pr. (Urbana), 1987. 350p. \$30. Rev.: Oral Hist. Rev. 16, Spring 1988, p168-70; J. of Amer. History 75, June 1988, p285-6.

Patricia A. Cooper, ""What This Gountry Needs Is a Good Five-Cent Cigar." In Technology and Culture 29, Oct. 1988, p779-807. Mechanization of the cigar industry, esp. 1920s-1930s; incl. women workers, Cigar Makers Intl. Union of Amer.

Robert F. Dalzell, Jr., Enterprising Elite: The Boston Associates and the World They Made. Harvard Univ. Pr. (Cambridge MA), 1987. 316 p. \$28. Incl textile mfg. Rev.: J. of Economic Hist. 48, Sept. 1988, p?77-8.

Leonore Davidoff and Belinda Westover, **Our Work, Our Lives, Our Words**. Barnes & Noble (Totowa NJ), 1986. 189p. \$29/13 pap. English women born c.1880-1920; incl. garment-making and textile production; unions. Rev.: *Oral Hist. Rev.* 15, Fall 1987, p181-3.

Henry C. Dethloff and C. Joseph Pusateri, eds., American Business History: Case Studies. Harlan Davidson (Arlington Heights IL), 1987. 449p, illus., tables, \$18 pap. Incl. Slater "textile empire" [Pautucket, R.I.]. Rev.: Public Historian 10, Summer 1988, pl10-12.

Karl Ditt, Industrialisierung, Arbeiterschaft und Arbeiterbewegung in Bielefeld, 1850-1914. Gesellschaft für westfälische Wirtschaftsgeschichte [Society for Westphalian Economic History] (Dortmund), 1982. 337p. DM95 pap. Labor history dissertation, presumably in German; linen production and related tool-making in German textile town. Rev.: Labor History 29, Winter 1988, pl.15-16.

David C. Duke, **John Reed**. Twayne (Boston MA), 1987. 179p. \$20. Literary hist. of a radical writer; of IA interest only in relation to Reed's supervision of a dramatic reenactment of the Paterson silk strike of 1913. Rev.: *J. of Amer. History* 75, June 1988, p297-8.

Jean Dunlop, The British Fisheries Society, 1786-1893. John Donald (Edinburgh), 1978. (Avail.: Humanities, Atlantic Highlands NJ.) 246p. £12. Attempt (with small success) to overcome poverty in west coast Scottish Highlands by developing infrastructure (fishing settlements, piers, warehouses, curing facilities) for local herring fishing industry; Thomas Telford served as engineer. Rev.: Amer. Historical Rev. 93, Oct. 1988, p1058-9.

Field to Factory: Afro-American Migration, 1915-1940. Exhibit, National Museum of Amer. Hist., Smithsonian Institution (Wash. DC), 1988 (semi-permanent). Rev.: Oral Hist. Rev. 16, Spring 1988, p194-8. Traveling version avail. through SITES (Smithsonian Institution Traveling Exhibition Service).

Robert L. Frost, "Labor and Technological Innovation in French Electrical Power." In Technology and Culture 29, Oct. 1988, p865-87. State-owned and operated power utility, disempowerment of workers through "upskilling" rather than deskilling of work; mostly 1946-1960s.

Sherna Berger Gluck, **Rosie the Riveter Revisited: Women, the War, and Social Change**. Twayne Publishers (Boston), 1987. Los Angeles, Cal., 1930s-1940s, incl. black and Mexican-American women. Rev.: Oral Hist. Rev. 15, Fall 1987, p186-7, J. of Amer. History 75, June 1988, p303-4.

Ben Gold, **Memoirs**. William Howard Publishers (NY), n.d. 201p. \$22. Gold was active in fur workers union, c.1910-1950s?; oversaw merger of International Fur and Leather Workers Union, 1939; as Communist, was involved in Cold War/CIO controversies.

Robert B. Gordon [SIA], **Who Turned the Mechanical Ideal into Mechanical Reality:** In *Technology and Culture* 29, Oct. 1988, p?44-78. Need for hand filing of mass-produced small arms lock mechanisms by skilled "mechanical artificers" to achieve interchangeability, 19th C, incl. Springfield Armory.

James A. Hodges, New Deal Labor Policy and the Southern Cotton Textile Industry, 1933-1941. Univ. of Tenn. Pr. (Knoxville), 1986. 252p. \$25. Rev.: Oral Hist. Rev. 15, Fall 1987, p191-3.

Martha C. Howell, Women, Production, and Patriarchy in Late Medieval Gities. Univ. of Chicago Pr. (Chicago IL), 1986. 300p. \$25. N. European, esp. Leiden (wool cloth mfr.) and Cologne (metal, silk, gold embroidery, cloth). Rev.: Amer. Historical Rev. 93, June 1988, p677-8; J. of European Economic Hist. 17, Spring 1988, p200-202.

H. Thomas Johnson and Robert S. Kaplan, **Relevance Lost: The Rise and Fall of Management Accounting.** Harvard Business School Pr. (Boston MA), 1987. 269p, index. \$?. Incl. 19th-C. textile, RR, and steel industries; Du Pont Powder Co., 1903-1914; General Motors automobile mfg., 1920s.

Stuart Bruce Kaufman, 2 books publ. by Univ. of Ill. Pr. (Urbana), 1987 (both \$28/11 pap.) and rev. in *J. of Amer. History* 75, June 1988, p282-4: A Vision of Unity: The History of the Bakery and Confectionary Workers Intl. Union (192p.) and Challenge and Change: The History of the Tobacco Workers Intl. Union (173p.).

James Leloudis, "Oral History and Piedmont Mill Villages, 1880-1940." In Intl. J. of Oral Hist. 7, Nov. 1986, p163-80.

Stephen Meyer, "Technology and the Workplace: Skilled and Production Workers at Allis-Chalmers, 1900-1941." In Technology and Culture 29, Oct. 1988, p839-64. Wis. mfr. of machinery, incl. turbines, tractors, electrical generators, etc.; machinists and other metal workers.

Ryoshin Minami, **Power Revolution in the Industrialization of Japan, 1885-1940.** Kinokuniya Co. (Tokyo), 1987. 415p. (Y)4900. Incl. mechanization; water and steam power; early conversion to electricity; textiles. *J. of Economic Hist.* 48, Sept. 1988, p 761-2.

Gary R. Mormino and George E. Pozzetta, **The Immigrant World of Ybor City: Italians and Their Latin Neighbors in Tampa, 1885-1985.** Univ. of Ill. Pr. (Urbana), 1987. 323p. \$25. Cigar mfg.; unions. Rev.: *J. of Amer. History* 75, June 1988, p280-81; *Oral Hist. Rev.* 16, Spring 1988, p156-8, *Florida Historical Q.* 67, July 1988, p81-83.

Liliane Mottu-Weber, Economie et refuge à Genève au siecle de la réforme: La draperie et la soierie (1540-1630). Memoires et Documents publiés par la Sociéte d'Histoire et d'Archéologie de Geneve, series 8, vol. 52. Droz (Geneva, Switzerland), 1987. 539p. Silk and wool textile industries in Geneva. Rev.: J. of Economic History 48, Sept. 1988, p734-5.

Daniel Nelson, American Rubber Workers & Organized Labor, 1900-1941. Princeton Univ. Pr. (Princeton NJ), 1987? \$33.

Joyce Shaw Peterson, American Automobile Workers, 1900-1933. State Univ. of N.Y. Pr. (Albany), 1987. 283p, tables, index. \$40/15 pap. Rev.: Public Historian 10, Summer 1988, pl22-4.

W. J. Reader, A History of the Institution of Electrical Engineers, 1871-1971. Institution of Electrical Engineers (PO Box 26, Hitchin, Herts SG5 1SA UK), 1987. 338p. £15. Gt. Britain, incl. electric power and electronics engineers; emergence of the telegraph engineer, 1837-1870.

Vicki L. Ruiz, Cannery Women/Cannery Lives: Mexican Women, Unionization, and the Cal. Food Processing Industry, 1930-1950. Univ. of N.M. Pr. (Albuquerque), 1987. 212p. \$20. Rev.: Labor History 29, Winter 1988, p100-101.

Frederick F. Siegel, **The Roots of Southern Distinctiveness: Tobacco & Society in Danville, Va.** Univ. of N.C. Pr. (Chapel Hill), 1987. 220p. \$22. Pittsylvania County, incl. roads, rivers, canals, and a railroad. Rev.: *J. of Amer. History* 75, June 1988, p247-8.

Barbara L. Solow and Stanley L. Engerman, British Capitalism and Caribbean Slavery; the Legacy of Eric Williams. Cambridge Univ. Pr. (NY), 1988? \$30. Incl. relation to industrial revolution in Britain; sugar industry.

Mary Martha Thomas, Riveting and Rationing in Dixie: Alabama Women and the Second World War. Univ. of Al. Pr. (Tuscaloosa), 1987. 156p. \$17. Incl. defense industries; discrimination against black women in defense work. Rev.: J. of Amer. History 75, June 1988, p304.

Patricia Zavella, Women's Work and Chicano Families: Cannery Workers of the Santa Clara Valley. Cornell Univ. Pr. (Ithaca NY), 198? \$35/11 pap. N. Cal. fruit & vegetable canneries.

#### MATERIALS

Hugh A. Akers, "Silver Place Names." In J. of the West 27, Apr. 1988, p82-6. Silver and related terms, usu. related to mining, refining or mfg. activities.

Paul Anderson, "'There Is Something Wrong Down Here': The Smith Mine Disaster, Bearcreek, Montana, 1943." In Montana, The Magazine of Western History 38, Spring 1988, p2-13. Red Lodge coal mine.

Bob Besom, "Little Rock Businessmen Invest in Coal: Harmon L. Remmel and the Arkansas Anthracite Coal Co., 1905-1923." In Ark. Historical Q. 47, Autumn 1988, p273-87. Failed mining speculation, incl. RR short lines, Scranton. Ark.

[British Goal:] two reviews in J. of European Economic Hist. 17, Spring 1988, pl95-7:

R. Church, The History of the British Coal Industry, Vol. 3, 1830-1913: Victorian Pre-Eminence. Clarendon Pr. (Oxford), 1986. 851p.

B. R. Mitchell, Ecnonomic Development of the British Goal Industry 1800-1914. Cambridge Univ. Pr. (Cambridge), 1984. 396p.

Joseph R. Conlin, **Bacon, Beans and Galantines**. Univ. of Nev. Pr. (Reno), 1986. 254p, illus. \$28. The ''first comprehensive book devoted to foodways on the Western mining frontier;'' incl. a surprising amount of luxury dining. Rev.: Labor History 29, Winter 1988, p97-8.

E. Fernandez de Pinedo, "From the Bloomery to the Blast-Furnace: Technical Change in Spanish Iron-Making (1650-1822)." In J. of European Economic Hist. 17, Spring 1988, p7-31.

Alan Derickson, "Industrial Refugees: The Migration of Silicotics from the Mines of North America and South Africa in the Early 20th-G." In Labor History 29, Winter 1988, p66-89. A "problem that went away" not because it didn't exist but through miners returning home or leaving the mines to seek other refuge. Discusses mostly gold and silver mining, western U.S.; and gold mining, Transvaal, incl. black, Cornish and Chinese miners; c.1900-1930.

Stefano Fenoaltea, "The Extractive Industries in Italy, 1861-1913: General Methods and Specific Estimates." In J. of European Economic Hist. 17, Spring 1988, pl17-26. Incl. quarrying and mining.

A. A. Fursenko, **Neftianye voiny (konets XIX - nachalo XX v.)** [The **Oil Wars of the Late 19th and Early 20th C.]** Nauka, Leningradskoe Otdelenie (Leningrad, USSR), 1985. 207p. 80k. Russian language. Intl. struggle for petroleum markets and crude oil deposits before 1917. Rev.: *Amer. Historical Rev.* 93, Oct. 1988, pl.013-14.

Richard L. Garner, "Long-term Silver Mining Trends in Spanish America: A Comparative Analysis of Peru and Mexico." In Amer. Historical Rev. 93, Oct. 1988, p898-935. Incl. production of mercury; c.1550-1810.

John Gruber, "Metallic Paint Spreads Color Across Countryside." In Pioneer America Society Transactions 11 (1988), p18-23. Incl. story of Venetian Metallic Paint Co., mfr. of red paint from local iron ore in North Freedom, Wis., c.1889-1891. Gruber also delivered a paper (12p, typescript) at the Northern Great Plains History Conference in Sept. 1988 on the related Baraboo District iron ore mines financed by Duluth and Chicago interests, c.1899-1914. (John Gruber, 1430 Drake St., Madison WI 53711.)

[Iron & steel?] 2 books rev. together in Oral Hist. Rev. 15, Fall 1987, pl51-153:

—Ewa Morawska, **For Bread With Butter: Life-Worlds of E. Central Europeans in Johnstown, Pa., 1890-1940**. Cambridge Univ. Pr. (Cambridge, England), 1985. 429p. \$40.

—M. Mark Stolarik, **Growing Up on the South Side: Three Generations of Slovaks in Bethlehem, 1880-1976**. Bucknell Univ. Pr. (Lewisburg PA), 1985. 147p. \$20.

Olive R. Jones, Catherine Sullivan et al, The Parks Canada Glossary for the Description of Containers, Tableware, Closures, and Flat Glass. Parks Canada (Ottawa, Ontario), Studies in Archaeology, Architecture and History, 1985. 189p, illus., \$13 pap. / \$15 outside of Canada. Incl. glass mfr. Rev.: Historical Archaeology 22, No. 1, 1988, pl18-20.

Florence C. Lister and Robert H. Lister, **16th-C. Maiolica Pottery in the Valley of Mexico.** Univ. of Ariz. Pr. (Tucson), 1982. 118p, illus. \$12. Incl. local mfg. Rev.: *Historical Archaeology* 22, No. 1, 1988, pl20-2.

James W. Lula, "Wrought Iron." In The Anvil's Ring 16, Summer 1988, pl8-21. Fine narrative explanation of the mfr. (to 1968) and properties of this sacred IA substance; hand puddling process at Lockhart Iron and Steel Co., McKees Rocks, Pa., and Aston process of A. M. Byers Co., Ambridge, Pa. (Avail.: PO Box 1181, Nashville IN 47448). — D.S.

Laurie K. Mercier, "The Stack Dominated Our Lives": Metals
Manufacturing in Four Montana Communities." In Montana, The
Magazine of Western History 38, Spring 1988, p40-58. Anaconda, Black
Eagle, Columbia Falls, E. Helena, c.1880s-present; related to Mont.
Historical Soc. exhibit drawing on 1986 oral history project.

Danuta Molenda, "Technological Innovation in Central Europe between the XIVth and the XVIIth Centuries." In J. of European Economic Hist. 17, Spring 1988, p63-84. Little Poland, Silesia, Bohemia, Hungarian Slovakia and Saxony, center for the mining of rock salt and non-ferrous metals (gold, silver, copper, lead and tin).

Gary Ross Mormino, Immigrants on the Hill: Italian-Americans in St. Louis, 1882-1982. Univ. of Ill. Pr. (Urbana), 1986. 289p, illus., bibliog., index. \$22. Many employed in clay mines, brickyards, and tile factories. Rev.: J. of the West 27, Apr. 1988, p95-6.

Michael Nuwer, "From Batch to Flow: Production Technology and Work-Force Skills in the Steel Industry, 1880-1920." In Technology and Culture 29, Oct. 1988, p808-38.

Roger M. Olien and Diana Davids, Life in the Oil Fields. Tex. Monthly Pr. (Austin), 1986. \$? Texas, 1901-1950.

Thomas H. Pauly, "Amer. Art and Labor: the Gase of [Thomas] Anshutz's "The Ironworkers" Noontime:" In American Q. 40, Sept. 1988, p333-58. Insightful analysis of a noteworthy 1880 Amer. painting, unearthing aspects of unionization and the Wheeling, W.V., nail mills. — D.S.

Paula Petrik, No Step Backward: Women and Family on the Rocky Mountain Mining Frontier, Helena, Montana, 1865-1900. Mont. Historical Soc. Pr. (Helena), 198? 206p, illus., bibliog., index. \$20.

D. Reid, **The Miners of Decazeville; a Genealogy of Deindustrialization.** Harvard Univ. Pr. (Cambridge MA), 1985. 333p. Labor history of French coal mine, 18th-20th C. Rev.: *J. of European Economic Hist.* 17, Spring 1988, p203-5.

Robert W. Righter, **The Making of a Town: Wright, Wyo.** Roberts Rinehart (NY?), 1985. Atlantic Richfield Co. coal mining community.

Dorothy Schwieder et al, **Buxton: Work and Racial Equality in a Coal Mining Community.** Iowa St. Univ. Pr. (Ames), 1987. 264p. \$25. "Extraordiarily harmonious relationships" of whites with black workers in Buxton, Ia., c.1900-1924; Consolidated Coal Co. Rev.: *J. of Amer. History* 75, June 1988, p286-7.

Alan J. Singer, "Class-Concious Coal Miners: Nanty-glo Versus the Open Shop in the Post World War I Era." In Labor History 29, Winter 1988, p56-65. Nanty-glo ("streams of coal" in Welsh), Cambria County, Pa., c.1918-1926; incl. "operator-inspired Ku Klux Klan activity that attempted to drive a wedge between the borough's Protestant and Catholic miners."

Geoffrey Tweedale, Sheffield Steel and America: A Century of Commercial and Technological Interdependence, 1830-1930. Cambridge Univ. Pr. (NY), 1987. 31lp. \$50. Evolution of crucible and alloy steelmaking in Gt. Britain and U.S.; mfr. of special steels and steel products, incl. cutlery, files, saws and other edged tools; technology transfer; adoption of mechanization and electric furnaces. Rev.: Amer. Historical Rev. 93, Oct. 1988, p1015-16; J. of Amer. History 75, June 1988, p261-2.

# Jasper Francis Cropsey's 'The Old Red Mill'



The Old Red Mill, 1876, by Jasper Francis Cropsey. Oil on canvas; 481/2" x841/4". Courtesy The Chrysler Museum, Norfolk, Va.

You may remember Jasper Francis Cropsey (1823-1900) from his famous industrial scene, *Starrucca Viaduct* (1865, Toledo Museum of Art), which presented a view of the celebrated New York and Erie Railroad structure, built 1847-48. Located in eastern Pennsylvania, near Lanesboro, the site was popular with visitors in search of scenic beauty. Its combination of skilled civil engineering and functional beauty in a context of peace and prosperity was widely admired.

Crospey specialized in that most popular of late 19th-C American genres, landscape, inheriting the thematic and topographical tradition established by Thomas Cole, Fredric Edwin Church, and other painters who defined what came to be termed (not always accurately) the Hudson River School. Born on Staten Island, N.Y., Cropsey made his painterly debut in New York during the mid-1840s, and extended foreign travels took him first to the Continent (1847-49) and later to England (1856-63). By the 1850s, he had begun to specialize in scenes of autumn, recording the spectacular foliage displays unique to America.

If Starrucca Viaduct remains his most significant industrial painting, The Old Red Mill is one of Cropsey's most recognized works. It became widely known in the artist's lifetime through popular prints and in 1879 he produced a smaller version (Mead Art Gallery, Amherst College). His painting of an old water mill had been exhibited the year it was painted, at the 1876 Centennial Exposition in Phila. The Exposition was a celebration of industrial progress, but few works of a specifically identifiable industrial theme were shown, with the notable exception of John Ferguson Weir's powerful The Gun Factory (1864-66, Putnam County Historical Society, Cold Spring, N.Y.).

Cropsey took as his subject an actual structure, one which formerly stood along the Wawayanda Creek, which ran into Greenwood Lake. Located mostly in Orange County, N.Y., near Warwick, about twenty

miles west of the Hudson River, the lake was nine miles long and spanned the N.Y.-N.J. border. The lake had been the subject of his earliest successful work, exhibited at the National Academy of Design in 1843, and he continued to explore subjects drawn from the area throughout his career. It was a region with many iron furnaces and foundries, and industrial themes appear periodically in his work.

The mill had first been constructed in 1800, erected by John Wheeler to replace an earlier structure. Cropsey's early training in architecture may have attracted him to the subject where a building, even a vernacular one, played a prominent role, though he obscures the mill with trees at the height of their fall color. At the time Cropsey painted it, the mill was owned by Ezra Sanford, who also operated a saw mill and a tannery in the area, and who retired from his operations in 1881, five years after the painting was completed. The structure remained standing until 1902, when floods washed away the foundation, flume, and part of the dam. It would have been a subject the artist knew well, for in 1869 he constructed "Alladin," a Gothic Revival house in Warwick.

Cropsey's work portrays a characteristic feature of the rural American landscape, one regarded even then with nostalgia. Simultaneously a gentle industrial intrusion and a romantic emblem of an old fashioned technology, mills were a popular subject for 19th-C American painters, including Cole, who was the first to interest himself in the aesthetic possibilities of railroad themes. Seventeenth century Dutch painting exerted a strong influence on American art of this period, and images of picturesquely crumbling mills had been popular in Holland. *The Old Red Mill*, with its Italianized peasants visiting on a rickety bridge, contented cows standing in the water downstream, artistically framing trees, and other standard compositional devices, shows Cropsey well aware of European artistic conventions, reinforced by his extensive European sojourns.

B.F.

## **NOTES & QUERIES**

"PRESERVING & INTERPRETING THE INDUSTRIAL LAND-SCAPE: A Workshop for Preservation Professionals," sponsored by the Natl. Council on Public History in cooperation with the SIA, will be conducted June 23-30 at Loyola Univ.'s Lakeshore Campus, Chicago. The workshop is designed to help the preservation professional deal with the challenges of factories, processing plants, mines, transportation systems, and the communities related to them. Through lectures, discussions, and site visits, the sessions will address questions involving site documentation, determination of significance, historiography of industrialization, appropriate reuse of industrial structures, interpretation, and the use of historical techniques to locate and assess the hazardous waste risks at an industrial-history site. Site visits will include the Ill. & Mich. Canal Natl. Heritage Corridor, Pullman, the Museum of Science & Industry, and other Chicago IA sites. The faculty includes Emory Kemp (SIA pres.), Beth Grosvenor Boland (Natl. Trust), Craig Colten (Ill. State Museum), Susan Hirsch (Loyola Univ. & Pullman Project, Newberry Library), Gerald Adelmann (Open Lands Project), Roberta Deering (Upper III. Valley Assn.), and Terri Sinnott (Museum of Science & Industry). Registration is \$250; room & board is \$280. Info.: Theodore J. Karamanski, Hist. Dept., Loyola Univ., Chicago IL 60626 (312-508-2221).

HAER SUMMER JOBS FOR HISTORIANS. The Historic American Buildings Survey/Historic American Engineering Record (HABS/HAER), Natl. Park Service, is hiring graduate students and other professionals in the fields of architectural history, American history, history of technology, maritime history, and material culture for temporary positions during the summer of 1989 at various sites throughout the U.S. Applications are due Mar. 13. Info.: Summer Program Administrator, HABS/HAER Div. (429), NPS, Box 37127, Wash. DC 20013-7127 (202-343-9625).

HAER FIELD-OFFICE JOBS. The Historic American Engineering Record is opening two field offices, in Johnstown and Pittsburgh, Pa., and plans to staff these with GS-7 to GS-11 (\$19,494 to \$28,852) historians. They will undertake a series of HAER survey & documentation projects related to iron, steel, railroad, and other historic industrial resources in Western Pa. Applicants should be interested in working on heavy industry topics and have a background in the history of technology. Vacancy announcements avail. from Gray Fitzsimons [SIA], HAER Program Manager, HAER, NPS, POB 37127, Wash. DC 20013-7127 (202-343-9608).

CALLS FOR PAPERS. The 1989 Program Committee of the Society for the History of Technology calls for paper and session proposals for the Annual Meeting to be held Oct. 12-15 in Sacramento, Calif. The committee seeks proposals in all areas of the history of technology and especially contributions that accent gender, the Third World, the West as a region, and cross-disciplinary perspectives on technology, as well as those that address pre-20th-C topics and comparative studies. The committee also invites proposals for presentations in alternative formats, such as carefully prepared posters, displays of photographs or other visual materials, and brief audio-visual or computer demonstrations. Such proposals should clearly describe formats (including length and dimensions) and equipment. The deadline for receipt of proposals is April 1. Proposers of papers must provide a 150-word abstract and a one-page curriculum vitae. Proposers of sessions must provide the theme of the session, an abstract of each paper, and a c.v. for each participant including chair and commentator. Please send four copies of each proposal to Thomas J. Misa, Dept. of Humanities, Illinois Institute of Technology, Chicago IL 60616 (312-567-3465 or electronic mail at HUMMISA@IITVAX.Bitnet).

"The Material Culture of Gender/The Gender of Material Culture," a conference examining links between sexuality and material culture, will be held Nov. 10-11 at the Winterthur Museum, Del. Paper proposal deadline is Mar. 1 and speakers will receive an honorarium plus expenses. Papers will be published. Papers may address any North American subject from the 17th-C to the 20th. Potential topics include,

but are not limited to: gender and value, roles and identities, the construction of gender, concepts of maleness and femaleness, power and domination, beauty, taboos and fetishes, homosexuality and the arts, domesticity, symbolism, gender in things, and the ways material culture informs men's studies and women's studies. Cross-cultural perspectives are welcome, as are contributions from any discipline; papers describing works in progress and tentative conclusions are invited. Info.: Kenneth Ames or Katharine Martinez, Winterthur Museum, Winterthur DE 19735 (302-656-8591).

Proposals for papers, sessions, special events, and featured speakers are solicited for the 11th Annual North American Labor History Conf., Wayne State Univ., Detroit, Oct. 19-21. It is hoped that the program will include sessions dealing with Canadian and European labor history, as well as American. Proposals relating to other geographical areas are also welcome. The proposal deadline is June 1. Info.: Philip P. Mason, Walter P. Reuther Library, 5401 Cass, Detroit MI 48202 (313-577-4024).

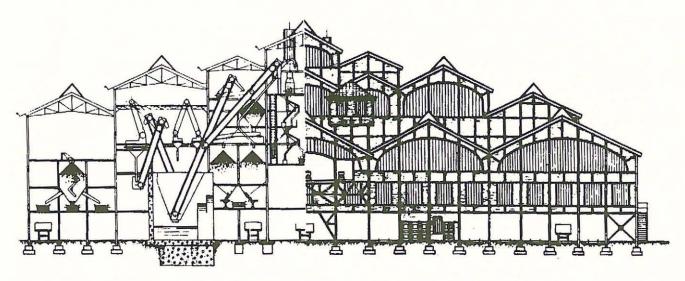
The **Pioneer America Society** seeks paper proposals for the annual meeting, Nov. 9-11, St. Charles, Mo. Papers are welcome on all aspects of material culture as reflected in the Society's previous publications and meetings (consult *Pioneer America* or *Material Culture* and *P.A.S.T.* Papers on French architecture, log cabin architecture, and Missouri River Valley settlement are especially relevant. Abstracts (100 words max.) are due by Sept. 1 to Keith A. Sculle, Ill. Historic Pres. Agency, Old State Capitol, Springfield IL 62701 (217-785-6916). A tour on Nov. 11 will focus on the vernacular landscape of Calhoun and Jersey counties, Ill.

Proposals for papers, sessions, and media presentations that address the theme of leisure time and time away from the work place in industrial society are solicited for "After Hours: Life Outside of the Work Place," the 11th Annual Lowell Conference on Industrial History, to be held Oct. 28-28 at Lowell, Mass. Proposed topics might include company sponsorship of leisure time and social activities; fraternal organizations, social clubs, and mutual assistance organizations; consumerism and leisure time; the mechanization of leisure-time activities; and media and sports-related issues. Especially encouraged are presentations or group discussions involving media, oral history, museum interpretation, local history, and artifact analysis. Workshops and sessions highlighting educational issues, especially the teaching of the history of leisure time in elementary and secondary social studies, will receive special consideration and assistance from the Tsongas Center. The conference actively solicits recommendations for films and videos which might be suitable for evening presentations. Selections from each annual conference are considered for publication in a series of anthologies which are published by the conference through the Museum of American Textile History and the American Assn. for State and Local History. Proposal deadline is April 30. Info.: Edward Jay Pershey [SIA], Tsongas Industrial History Center, Boott Mill #8, Foot of John St., Lowell MA 01852 (508-459-2237).

THE 1989 HABS/HAER ANNUAL REPORT, detailing 1988 activities and achievements of the Historic American Buildings Survey/Historic American Engineering Record, is available from Jean Yearby, Pubs. Specialist, HABS/HAER Div. (429), NPS, POB 37127, Wash. DC 20013-7127 (202-343-9628).

MILLSTONE QUARRY QUERY. The Kentucky Heritage Council has been documenting four millstone quarries in Powell County, dating between the 1790s and late 19th C, that exploited a conglomeratic sandstone containing rounded quartz pebbles. The physical evidence of quarrying activities at these sites includes millstones in various stages of completion, boulders with drill holes, shaping debris, oval pits, linear pits, and benches. The project goals are a National Register nomination and a publication describing the manufacturing sequence and presents archival data. Millstone quarrying is not well documented and the Council would appreciate hearing from SIA members about articles on such quarries anywhere in the world. Of special interest are detailed accounts that describe millstone manufacturing and studies relating to quarries in the eastern U.S. Please contact Charles D. Hockensmith, Staff Archaeologist, Kentucky Heritage Council, 12th Floor, Capital Plaza Tower, Frankfort KY 40601 (502-564-7005).

## Belgian mine structures threatened — a potential IA disaster



Winterslag coal breaker (1918-20), the largest steel-frame building in Flanders, is scheduled for demolition.

Our colleagues at the Flemish Assn. for IA (aka VVIA) are fighting to save important coal mines in Limburg province, Belgium. The provincial government has decided that only the head frame of the Winterslag mine (without buildings) and administrative buildings of Waterschei mine (without head frame) will be preserved. The Eisden mine will be completely destroyed. VVIA needs your help. Please write a letter supporting the preservation of Limburg's mining heritage. In your letter, give examples of the possibilities for adaptive reuse of in-

dustrial buildings. Be sure to urge the study of such an adaptive reuse project *before* demolition begins. Write to: Mr. Van Velthoven, President, The Flemish Council, Paleis der Natie, Natieplein 2, B-1000 Brussels, Belgium.

Adriaan Linters [SIA], chairman of VVIA, points out that the 1990 TICCIH meeting is scheduled for Belgium and he fears, at this rate, that no trace will remain of Limburg's mining heritage.

## **NOTES & QUERIES**

**COMPILER/EDITOR SOUGHT** for preparation of an approx. 50,000-word manuscript, "Historic Mechanical Engineering Landmarks." The work will consist of individual essays on the 130 Landmarks designated by the American Society of Mechanical Engineers. The editor will be responsible for editing 30 existing essays and writing the remaining 100, plus locating illustrations and preparing the manuscript for publication. Request the detailed Request for Proposals from Carron Garvin-Donohue, Office of Public Information, ASME, 345 E. 47th St., NY NY 10017.

HERITAGE EDUCATION QTLY. celebrated its first anniversary as a publication of the Preservation Library & Resource Center with the Spring 1988 issue. Created as a forum for ideas and information on heritage education programs, HEQ is a resource for teachers, planners, preservationists, educators, museums, and civic groups involved with community heritage projects. \$12/yr. from HEQ, 498 S. Main St., Madison GA 30650.

HAND-PRINTED STONE LITHOGRAPHS of the Calumet River, Chicago, and the Welland Canal, Ontario, are available in a limited edition from The Rogers Gallery, 128 Washington St., Old Town, Marblehead MA 01945 (617-631-5956). Each features an industrial waterfront scene, including a bascule bridge over the canal. They are part of a 16-litho set, which is available on 5" x 7" cards for \$2.

PRESERVATION? MAYBE, BUT NOT IA. Headline in the Mich. Dept. of Trans.'s newsletter: "S.S. Chief Wawatam, historic carferry, to be converted into barge — all artifacts preserved" [Emphasis added. Ed]. The Mich. Trans. Commn. has agreed to sell the 77-year-old RR car ferry for salvage to Purvis Marine, Ltd., of Sault Ste. Marie, Ont., for \$110,000. Purvis plans to convert it into a barge for Great Lakes service. MOT declares that "all the artifacts — including such items as the

ship's wheel, bells and engine-order telegraph — will be kept by the state." The MTC chairman said, "This was a good, solid proposal that combined the future use of the Chief with preserving all the artifacts we can." As it turns out, a few artifacts were overlooked: the Scotch boilers and the front-mounted, triple-expansion engine were not included in the deal!

A.H.F.

HABS/HAER BIBLIOGRAPHY PLANNED. The Historic American Buildings Survey and Historic American Engineering Record are seeking information for a comprehensive bibliography of publications by and about the two surveys, from the establishment of HABS in 1933 until the end of 1988. According to Robert J. Kapsch [SIA], HABS/HAER chief, the bibliography is intended as a finding aid for architectural historians, architects, historians, and other researchers (including IA scholars, we hope). James C. Massey [former SIA board member], a former HABS chief, will direct its compilation. Individuals and other organizations that have cooperated in funding and running HABS/HAER field projects, librarians, and past HABS/HAER officials are asked to share their knowledge of older or local publications for listing in the illustrated bibliography. State and local publications from the 1930s are of particular interest.

In addition to every edition of the national, regional, state, and local catalogs, the bibliography will include measured-drawing folios, leaflets and circulars, documentary publications relating to the history, organization and operation of HABS, exhibit catalogs, internal documents such as instructions and specifications for field workers and record compilers, and books and booklets based on HABS/HAER records. It also will include an index and a short-title selection of books and articles not generated by HABS/HAER that use significant numbers of HABS or HAER photographs and drawings.

Co-compilers with Massey are Nancy B. Schwartz and Shirley Maxwell. They may be contacted through Massey Maxwell Associates, POB 263, Strasburg VA 22657 (703-465-4566).

## CALENDAR

Mar. 31-Apr. 2: 35th Annual Meeting, Business History Conf., Boston. Theme is "Manufacturing & Marketing," focusing on "new" (for their time) products. Info.: Thomas K. McCraw, Baker Library 217, Harvard Business School, Soldiers Field, Boston MA 02163.

**Apr. 7-8:** 2nd Annual Conf. on Humanities, Science & Technology, Ferris State Univ. Info.: Craig Newburger & George Nagel, Coordinating Program Committee, Dept. of Humanities, Ferris St. Univ., Big Rapids MI 49307 (616-592-2771 or 2758).

May 10-14: Annual Meeting, Vernacular Architecture Forum, St. Louis. Info.: Thomas C. Hubka, VAF Papers Chair, Dept. of Architecture, Univ. of Wis.-Mlwk., POB 413, Milwaukee WI 53201.

JUNE 1-4: SIA 18TH ANNUAL CONFERENCE, QUEBEC, CANADA. Info.: Conference committee, Commission des biens culturels, 12 rue Sainte-Anne, Québec PQ, Canada G1R 3X2.

June 5-7: 5th Canadian Masonry Symposium, Vancouver, B.C. Topics include architectural & engineering design, and masonry restoration. Info.: D.L. Anderson, Dept. of Civil Engng., Univ. of B.C., Vancouver BC Canada V6T 1W5.

June 7-10: "Water & the City," an int'l urban water management conf., Chicago. Info. & paper proposal details: Conf. mgr., Public Works Historical Society, 1313 E. 60th St., Chicago IL 60637 (312-667-2200).

June 23-30: "Preserving & Interpreting the Industrial Landscape: A Workshop for Professionals," sponsored by the Natl. Council on Public History & the SIA, Chicago. Info.: Theodore Karamanski, Hist. Dept., Loyola U., Chicago IL 60626 (312-508-2221).\*

June 26-Aug. 11: 1st Annual Summer Field School in Architectural History, Old Sturbridge Village, held in conjunction with 11th Annual OSV Summer Field School in Historical Archeology. Application deadline is May 1. Info.: Myron O. Stachiw or Nora Pat Small, Research Dept., OSV, 1 Old Sturbridge Village Rd., Sturbridge MA 01566 (508-347-3362).\*

Aug. 13-19: 7th Annual Symposium of Molinology, Akademie Sankelmark, Germany. All-inclusive cost is 650 Deutsch Marks. Info.: Frenz Stüdtje, Mühle, 2392 Munkbrarup, West Germany.

Sept. 4-9: Annual Conf., Assn. for Preservation Technology (APT), Chicago. Info.: APT 1989 Program Chair, c/o Small Homes Council, 1 E. St. Mary's Rd., Champaign IL 61820.

Sept. 15-17: Annual Meeting, Assn. of Railway Museums, Edmonton, Alberta. Info.: ARM, POB 3311, City of Industry CA 91744-0311.

**Sept. 16-23:** Intl. Conf. on History, Technology & Industrial Archeology of Glass, Lisbon, Portugal. Presented with the support of TICCIH.

Info.: Associacao Portuguesa de Arqueologia Industrial (APAI), Apartado 5374, 1708 LISBOA CODEX, PORTUGAL (telephone Portugal 01/555367).

Sept. 21-22: Special conf., "Building the West: Vernacular Architecture West of the Rockies," Reno, Nev. Co-hosted by Nev. SHPO & Nev. State Council on the Arts. Paper themes may involve Mormon, mining, ranching, ethnic, commercial, Native American, railroad, or company town architecture. Selected papers may be published in *Nev. Hist. Soc. Qtly.* Info.: Ronald M. James, Deputy SHPO, 201 S. Fall St., Carson City NV 89710 (702-885-5138).

OCT. 12-15: SIA FALL TOUR, BUTTE-ANACONDA, MONTANA. Info.: Fredric L. Quivik, Klepetko Chapter SIA, POB 4113, Butte MT 59702 (406-782-2386).

Oct. 12-15: Annual Meeting, Society for the History of Technology, Sacramento, Calif. Paper proposal deadline is April 1. Info.: Thomas J. Misa, SHOT Program Chair, Dept. of Humanities, Ill. Inst. of Tech., Chicago IL 60616 (312-567-3465).\*

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\*Find details on this event elsewhere in this issue.

The SIA Newsletter is published quarterly by the Society for Industrial Archeology. It is sent to SIA members, who also receive the Society's journal, IA, published annually, SIA promotes the identification, interpretation, preservation, and re-use of historic industrial and engineering sites, structures, and equipment. Annual membership: individual \$25; couple, \$30; institutions \$30; contributing, \$50; sustaining, \$100; student, \$20. Send check payable to SIA to Treasurer, Room 5020, National Museum of American History, Smithsonian Institution, Washington, D.C. 20560; all business correspondence should be sent to that office. Editorial correspondence should be sent to ROBERT M. FRAME III, Editor SIA Newsletter, P.O. Box 65158, St. Paul, Minn. 55165-0158.

Submission deadlines: Feb. 1 (Spring), May 1 (Summer), Aug. 1 (Fall). and Nov. 1 (Winter).

The SIA Newsletter is included in the Avery Index to Architectural Periodicals, Avery Architectural & Fine Arts Library, Columbia University.

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