Over 150 SIAers gathered in Savannah, June 3-6, at a memorable 28th Annual Conference in Georgia's coastal low country. Participants enjoyed a pleasant mix of Southern hospitality and charm, in a gracious city known for its historic architecture and gardens, but where behind the scenes there is ample historic and modern industrial activity to explore. As usual, it was a busy four days of touring, paper sessions, and good times with old and new SIA friends and colleagues.

On Thursday, traditional walking tours were offered of downtown Savannah's exquisite antebellum architecture and historic gardens. SIAers who signed up for the "Beyond the Historic District" early-bird half-day tour saw the Riverside Plant of the Savannah Electric Power Co. (1912), a steam-powered electric generating facility that is still put on line in times of peak demand. It features a row of nine generators, each one larger than the one in front of it, visually illustrating changes in generator technology and the growth of the plant over time to meet increased electrical usage. The remainder of the afternoon included stops at Fort Jackson, the oldest standing fort in Georgia, in use since the 1740s; the Tybee Island Lighthouse, restored to its 1867 appearance; Tybee Island Museum in the former Fort Screven; and the town of Thunderbolt, a center of the local shrimping industry, where the mayor boarded the bus to tell us about the local history.

An optional all-day early bird tour to the Baxley and Glennville area southeast of Savannah looked at industries associated with the region's natural resources, including pine resins, Valdavia onions, and kaolin. The featured stop was Akzo Nobel, opened in 1947 as the Filtered Rosin Products Co. In the older parts of the plant, the firm filters and distills gum rosin from pine trees (of which there are plenty in Georgia!). The sappy gum rosin arrives at the plant full of bark, pine straw, and other impurities, so it is placed through a three-stage filtration process before distillation. The company claims to be the last steam-powered pine rosin distillation plant in the United States. The local gum rosins are sold for use in specialty products like solder and anti-fouling paints used by shipbuilders.

On Friday, conference organizers offered participants a choice of six different tour itineraries taking in the diversity of (continued on page 2)
The Houlihan Bridge (1954), a swing span, was opened by special arrangement with Georgia DOT for the SIA's riverboat tour.

The food industry is also quite active in coastal Georgia. The drive down the lane toward Savannah Foods & Industries resembles an oak-lined avenue leading to a plantation, but looks deceive and soon SIAers could smell the pungent sweetness that could only mean a sugar refinery. The SIA has toured several sugar refineries in recent years, but none with as colorful a history. Benjamin Oxnard and Richard Prague moved over 300 Cajuns and African Americans knowledgeable in sugar refining from a Louisiana parish to Georgia in 1913. The community, which was a self-contained company town for many years, became famous for the production of refined sugar under the brand name “Dixie Crystals,” popular throughout the South. The refining process has not greatly changed over the years. Another food processor visited by the SIA was Rich-SeaPak in Brunswick. Established over 50 years ago, the firm’s first successful product was “Quick Frozen Shrimp,” using an innovative flash freezing technique. Since then the product line has expanded to include onion rings, hushpuppies, battered shrimp, fish sticks, french toast, and cheese sticks. Hobart Corp. manufactures and designs restaurant and food service equipment. They have been in business for over 100 years making refrigeration, baking, cooking, washing, and waste disposal equipment. Scores of machinists work aluminum, steel, and cast iron to produce machines rugged enough for institutional use.

SIAers who ventured across the southern Georgia landscape could not help but notice the thousands of acres of tree plantations. Many of these trees eventually end up at processing plants in and around Savannah. A huge variety of products are derived whole or in part from trees. Atlantic Wood Industries is the successor company of the Savannah Creosoting Co., established in 1919. The company mainly produces utility poles and marine pilings, but it also occasionally treats railroad ties. Creosote, a distillate of pine tar, is still used as a preservative, but for environmental reasons the company now mainly uses pentachlorophenol. The treatment process remains essentially the same as it was when the company was established: a bundle of poles is pushed into a cylinder by a rail car and then placed under pressure. This causes the preservative to replace the moisture in the wood's cell.
Minutes of the 1999 Annual Business Meeting
June 5, 1999

President Sandy Norman called the meeting to order in the main dining salon of the Hyatt Regency Hotel, Savannah. She remarked that the past year had been a sad one because such a large number of long-time SIA members had passed away including John Cotter, Victor Darnell, Cathryne Johnson, Kathy Kapsch, Dan Mayer, and Michael Stratton. The membership observed a moment of silence.

Secretary's Report: The minutes of the last business meeting were published in the Fall 1998 issue of the SIAN. Secretary Richard Anderson called for additions and corrections to the minutes. There being none, the Secretary's report was accepted by motion and unanimous vote.

Treasurer's Report: Treasurer Nancy Batchelor reported that the SIA began the calendar year 1998 with a total fund balance of $103,958. Cash receipts for the year totaled $105,352. Various membership categories accounted for $64,317 of the total. The balance was made up of interest income, publication sales, contributions, and a few miscellaneous items, including $29,538 from the Whither IA symposium. The total expenditures for the year were $76,868. The production costs of our publications were $36,650. The Whither IA symposium incurred $18,386. The balance of expenses consisted of postage, insurance, prizes, awards, and a few miscellaneous items. The year 1998 ended with $28,484 excess income over expenses, and a $133,752 fund balance, $10,792 of which are restricted funds. The Treasurer's report was accepted by motion and unanimous vote.

Annual Conference '99: President Norman recognized Mark Finlay for his outstanding job as coordinator of this year's conference. The membership rose in applause to thank Mark and recognize the many other individuals and organizations that made the conference possible including Kelly Finlay; Charlotte Scaers and Scott Smith of the Coastal Heritage Society and their staff and volunteers; the Armstrong Atlantic State Univ. staff and students; Katherine Ferravia, and Paul Simo.

Local Chapters: President Norman cheerily reminded the assembly that those who are chapter presidents and officers should also be members of the national SIA. She also encouraged members to contact the Board of Directors if they would like to form a local chapter in their area. Representatives of all of the society's chapters were asked to stand.

Publications and SIA HQ: President Norman recognized Patrick Harshbarger, editor of the SIAN, and Pat Martin, editor of the SIAN Newsletter, Vol. 28, No 3, 1999 (continued on page 4)
A Superior Conference for 2000
Duluth—June 1 to 4

GRAIN ELEVATORS IN SUPERIOR, WISCONSIN

SIA's 29th Annual Conference, co-sponsored by the St. Louis County Historical Society, is scheduled for June 1 to 4 in Duluth, MN. Also known as "The Finnish Riviera," "The San Francisco of the North," and "Head of the Lake," the port of Duluth, as the westernmost point in the Great Lakes chain, is a center for bulk transfer of coal, grain and iron ore. The conference will also include visits to two of Minnesota's three iron ranges.

Our opening reception is planned for The Depot and The Lake Superior Railroad Museum. The Depot is the 1892 French Chateauesque union station, closed in 1969 and renovated to house local arts and historic organizations. The railroad museum houses, among other attractions, the oldest known rotary snowplow and the William Crooks, Minnesota's first locomotive.

There are two tours proposed for Duluth itself, one oriented to production and the other to bulk handling. The production tour will take in such sights as Cirrus Design, manufacturer of the SR20, a single-engine, reciprocating, 200 hp, airplane equipped with parachute; Diamond Brands, manufacturer of such indispensable items as toothpicks and corn dog sticks; the city steam generating plant; a paper mill; and Luigino's food processing plant.

The bulk transfer tour may include the William S. Irvin, a former ore boat that is now a tourist attraction; ore docks; coal dock (coal was the port's biggest export in 1998); the S.S. Meteor in Superior, WI, the only remaining whaleback freighter in the world; Morgan Park, a US Steel company town; Duluth, Missabe & Iron Range Railway yards in Proctor; and many terminal grain elevators.

At least one tour will travel to the Soudan and Ely area. Sites here include the Soudan Mine. Iron ore was first shipped from this mine in 1884. It was closed and given to Minnesota for a state park in 1962. Visitors now have the opportunity of traveling 2,400 ft. (continued on page 14)

Call for Papers
SIA Annual Conference 2000 • Duluth, MN • June 1-4

The SIA invites proposals for papers to be read at the Annual Conference in Duluth, Minnesota on Saturday, June 3. Presentations on all topics related to industrial archaeology are welcome. This year, the program committee especially encourages presentations on bulk-commodities shipping and transcontinental transportation, and industrial archaeology exploring the social history of the mining industry. Once again, landscape studies will be of particular interest.

Presentation Formats: Proposals may include individual papers (20 min.), organized panel discussions (90 min., typically three papers, formal commentator optional), reports on works in progress (10 min.), or symposia of related papers.

Proposal Formats: Each paper proposal must include: 1) title; 2) an abstract of not more than 250 wds.; 3) a one page resume for the presenter(s), including postal address, telephone/fax, and e-mail; 4) a list of audio-visual requirements. A panel or symposium organizer should submit all of the paper proposals as a group, accompanied by a title and a brief description of the theme or purpose. All proposers must submit four (4) copies of their proposals.

Deadline: Jan. 15, 2000. Send paper copies of proposals to: Fredric L. Quivik, SIA Program Committee, 2830 Pearl Harbor Road, Alameda, CA 94501. Inquiries are welcome at the above address or by phone (510) 769-7855; e-mail: fquivik@lmi.net.

Student Travel Scholarships: The SIA has limited funds to help full-time students and professionals with less than three years of full-time experience attend the annual conference in Duluth. Those interested should submit a concise letter outlining their demonstrated interest in and commitment to the field of industrial archaeology or a related field, and one letter of reference. Deadline for submissions is April 3, 2000. Info.: Mary E. McCahon, SIA Scholarship Comm., c/o A. G. Lichtenstein & Assoc., One Oxford Valley, Suite 818, Langhorne, PA 19047; (215) 752-2206; fax 752-1539. Notice of awards will be made by May 1.
The Society for Industrial Archeology General Tools Award recognizes individuals who have given sustained, distinguished service to the cause of industrial archeology. Nominations for the award may be made by any member in good standing. Criteria for selection are as follows: The recipient must have given noteworthy service, over an extended period of time, to the cause of industrial archeology. The type of service is unspecified, but must be for other than academic publication. It is desirable, though not required, that the recipient be a member of the SIA. And, finally, the award may be made only to living individuals.

The following citation was read by General Tools Award Committee Chairman Jane Carolan at the SIA's Annual Business Meeting, Savannah, GA. The award consists of this citation, a commissioned sculpture (the famous plumb bob), and an honorarium of $1,000.

The General Tools Award was established in 1992 through the generosity of SIA member Gerald Weinstein, chairman of the board of General Tools Manufacturing Company, and of its giving arm, the Abraham and Lillian Rosenberg Foundation. When I called Gerry to tell him of our selection this year, he said, "That's terrific, that's just the kind of person we had in mind when we devised the award." The entire committee is extremely pleased to announce that this year's winner of the General Tools Award is Vance Packard.

Vance has had a long and distinguished career as a jack-of-all-trades and a master of many. His contribution as a founding member of the Society for Industrial Archeology is well known. With a background in prehistoric archeology, Vance joined the Pennsylvania Historical and Museum Commission (PHMC) in 1969. He worked in classic prehistoric sites in the early seventies and then branched into historic archeology, inspired by the U. S. Bicentennial. He did pioneering archeological work at Valley Forge for two summers and at Washington's Crossing historic site. He then led an investigation of Benjamin Franklin's print shop in Philadelphia.

Vance's mechanical instincts seem to be always in the forefront. His early experiments with power screens really shook-up the archeology world, and then he gravitated to backhoes, bulldozers, and other big-boy excavating tools.

With this background, Vance jumped into the newly formed historic preservation program at PHMC. He quickly established himself as a presence to be reckoned with. Yes, federal and state agencies feared his quick judgment ("Looks like a 4/0 to me.") but they also respected his deep knowledge and his creative deal-making.

In 1979, Vance became the director of the Drake Well historic site. There, he brought the site alive, making an elderly electric map function again, rebuilding the Drake Well replica with a working steam engine, and setting up a maze of working oil equipment. You could hear the site before you saw it. And this does not even describe his dabbling in the management of the Titusville & Oil City short-line railroad.

Vance was made western regional director of PHMC's sites in 1983 and served in this position until 1994, when he became director of the Anthracite Regional Museum Complex. There he used his many skills to rehabilitate exhibits and whole villages, and even was the licensed sewer officer for the Eckley Miners' Village.

Vance was a mentor to many, both in PHMC and outside. He yelled, he complained, and he explained and encouraged. He retired from PHMC in 1997 but never stopped moving. He was recognized as PHMC's Lumber Museum volunteer of the year in 1998. His contributions continue.

Vance is truly a Renaissance man, combining archeology, history, interpretation, and, most importantly, a hands-on feeling for how things really work and an interest in knowing more. And, stealing a good line from Vance's retirement party from the Anthracite Museum: "Vance will retire to his home at Bear Lake, where he resides with his wife, Bonnie Smith. He will fly fish, play in his machine shop, and presumably continue to defend the coast of New England from the invasion of the wily bluefish."

Congratulations, Vance.

David Landon and Timothy Tumberg Receive 1999 Norton Prize

Each year the SIA recognizes outstanding scholarship within the field of industrial archeology with its Norton Prize, inaugurated by the Norton Company, a century-old materials engineering firm in Worcester, MA. The award honors the author of the best article to appear in the Society's journal, IA, within the past three years. Articles under consideration have a clearly stated thesis, a well constructed narrative, and an understandable conclusion. The analysis of material culture plays an important role in articles considered for the prize, as does the use of high-quality illustrations. The prize consists of a cash award and a wooden foundry pattern with a plaque engraved with the recipient's name. At the Annual Business Meeting, this year's award was presented by Norton Prize Committee Chair Carolyn Cooper to David Landon and Timothy Tumberg for their article in Vol. 22, No. 2 (1996), entitled "Archeological Perspectives on the Diffusion of Technology, An Example from the Ohio Trap Rock Mine Site."

This paper analyzes material evidence uncovered at the site of a stamp mill at a mid-19th-century copper mine in the Upper Peninsula of Michigan and identifies it as an instance of transfer of advanced mining practice from Cornwall. The authors clearly describe the remains and explain the operation of two circular convex "buddles" for separation of water of copper from crushed rock, and distinguish them, using documentary and pictorial evidence, from the common buddles used for hundreds of years in Cornwall. These were high-tech buddles, running at a relatively primitive outpost of American mining at that time. The larger conclusions, in which material and documentary evidence corroborated each other, was not only that this technology transfer was carried out by Cornish workers, but also that it represented an over-extension by the mining company that proved unjustified by the actual amount of copper extractable from that mine, and helped drive the company out of business. The authors have deftly interwoven pictorial and documentary evidence with the material evidence to build up their narrative and amplly illustrate it with maps, diagrams, and contemporary woodcuts.

SIA Newsletter, Vol. 28, No 3, 1999
"KETCHUP VS. WOOL":
THE NATION’S LAST WOOL PULLERY WILL BE DEMOLISHED

David S. Rotenstein reports on the Pittsburgh Wool Co.

In early 1999, the City of Pittsburgh, on behalf of the H.J. Heinz Corp. began proceedings to condemn a small tract of land overlooking the Allegheny River, barely two miles above the Golden Triangle, site of the Pittsburgh Wool Co., the last survivor of a once-thriving livestock, meat packing and leather-producing district. Heinz gave the city an ultimatum: give us the land to expand with a new 75,000 sq.-ft. warehouse or we will take our plant elsewhere. Since May 1999, efforts to preserve Pittsburgh Wool have been unsuccessful. The Pittsburgh City Historic Review Commission determined that the building lacked merit as a historic structure, and the local flagship historic preservation organization, the Pittsburgh History and Landmarks Foundation, elected to promote a mitigation plan that involves the documentation of the structure, relocation of some artifacts and business records, and, finally, demolition.

Before sheepskins can be tanned, the hair—wool—must be removed. The process by which the wool is removed from a sheepskin is known as "pulling." The craft of wool pulling emerged in post-medieval Europe, notably in Great Britain, as guild limitations on middlemen were eased during the 16th century. Wool pullers first were labeled “fellmongers”—craftsmen aligned closely with textile-industry middlemen but distinct from sheepskin tanners—because they derived their wool from fells, an Old English term for skins, rather than fleeces. By the middle of the 17th century, fellmongers dealing only with fellswool—as opposed to fleece wool (shorn wool)—were found throughout Britain. Like tanners, fellmongers purchased skins from butchers and they, in turn, sold the de-wooled sheepskins to whitawyers (light-leather makers who historically used alum rather than tanning liquors) and tanners. The intermediary processing position between the butcher and the tanner was profitable because the wool pulled from sheepskins might be worth in excess of four or five times the value of the skin. Wool removed from the pelts of slaughtered sheep and lambs was graded by breed, age at slaughter, and staple length or spinning counts. Pulled wool may be used in a wide array of textile products, including blankets, carpets, woven paper, mill felts, flannels, and dress goods. The whitawyers used the skins in turn for hatbands, prosthetic limbs, and gloves.

The commodity flow from butcher through fellmonger and the bifurcation of the wool flow towards the textile industry and the skins toward the tanning industry has changed little since the 17th century. Not fully part of the meat, textile, nor leather industries, Pittsburgh Wool and similar wool pullers are historical anomalies. As the domestic lamb crop dwindled and the American leather industry moved overseas, wool pullers began to disappear from the industrial landscape. By 1997, there were only two wool pullers left in the United States; now, Pittsburgh Wool is the last survivor.

The building in which Pittsburgh Wool is located was built in 1883 as a tannery and converted to a wool pullery in 1918. It was built by Irish-immigrant tanner James Callery (1833-89). Callery built in brick, hoping to prevent a fire similar to the ones that had destroyed his two previous tannery buildings. He named the new building the Old Duquesne Tannery. Callery’s sons continued tanning in the building until 1918, when they sold out to Patrick McGraw, a sheepskin tanner turned wool puller. McGraw operated the wool pullery until 1956 when it was sold to Pittsburgh Wool, which has occupied the building since 1958.

The founder of Pittsburgh Wool was William P. Lange, a dealer who bought hides, tallow, and hair from slaughterhouses and sold them to tanners and other byproducts processors. In 1903, he moved his business into a former tannery just a few hundred yards south of Callery’s Old Duquesne Tannery and shortly thereafter began pulling wool from lamb pelts. In 1912, Lange and partners Charles B. Kumer and John Schaeffer incorporated the Pittsburgh Wool Co. The Kumer family eventually took control of Pittsburgh Wool, and Charles Kumer paved the way for his son Roy to enter the business during the 1930s. A third generation—Roy Kumer’s son Jeff—entered the business during the 1950s. As Jeff Kumer was learning the family trade and the business was gearing up to move to its present location in 1958, Roy Kumer traveled to New York City, where he salvaged the company’s present wool pulling equipment from the defunct Swift Co. pullery, which was being displaced to make way for construction of the United Nations.

Pelts are delivered to Pittsburgh Wool at its River Ave. loading dock. The plant’s first floor consists of cleaning vats for the raw pelts, a station for applying the depilatory paste, and six large...
Contributors to the SIA during 1999

The major source of income for operating the SIA each year is membership dues. We occasionally receive grants and support from governmental sources and foundations to accomplish specific tasks, but the consistent generosity of our members in providing income above and beyond basic dues is a critical factor in allowing us to maintain a high quality of operation. Individuals who join at the Sustaining and Contributing membership levels regularly provide a margin of income above the basic operating costs, and those who also give an additional gift at renewal time make it possible for the SIA to do such things as support some students to attend our annual conferences and give papers. We take this opportunity to identify those members who made extra contributions during 1999, and to thank them.

J.J. Haines & Co., Inc.
Robert R. Alf
Barbara P. Alf
Frederick Allen
Robert W. Allington
Mark E. Andrews
Leo T. Barber Jr.
Nanci K. Batchelor
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Richard Zidowek

TICCIH 2000

The International Committee for the Conservation of the Industrial Heritage (TICCIH) will hold its millennium congress in Great Britain. It promises to be a major international archalogy event and an important opportunity to consider the state of industrial heritage at the opening of the new century. TICCIH is the world organization for industrial archalogy, promoting conservation, research, recording, and education in all aspects of industrial history. The conference's plenary sessions will be held on the theme of 'The Industrial Revolution of the 18th Century and Mass Production and Consumerism, 1850-2000'. There will also be workshops on the following topics: methods of recording industrial buildings; training industrial archalogists; recording and conserving large-scale industrial sites; publication strategies on industrial heritage; demonstrating historic machinery; brownfield sites; trends in conservation legislation; designating and managing World Heritage Sites; promotion of industrial heritage through the Internet; air transport; urban transport systems; gender, race, and class issues in interpretation of industrial heritage; the future of the industrial museum; a century of shopping; the food industry; and telecommunications. Info: Rosy Hayward, The Science Museum, London SW7 2DD, UK; e-mail: cc@conferencecontact.co.uk.

TICCIH conference information and other news can now also be accessed on the Internet. A web page has been launched and can be found at www.museu.mNACTEC.com/TICCIH. The page has been designed principally as an introduction to TICCIH, to improve communication between members and with the organization, make it easier to join, and to carry news about TICCIH activities. As such, it has an introductory page with links to pages with addresses of the Board and National Representatives, a membership form which can be completed and either printed or e-mailed directly, a news page with information about TICCIH conferences and meetings, and a summary of the current bulletin.

"KETCHUP VS. WOOL":
(Continued from page 8)

re-activating pickling drums. The second floor contains beams, where the wool is pulled, a wool dryer, and a bale press. Denuded skins are dried on the third and fourth floors. In August, Heinz and Pittsburgh Wool struck a deal that calls for closing the wool pullery by December and demolition of the building by the spring of 2000. In this author's opinion, a better solution would have been one that allowed Pittsburgh Wool to co-exist with Heinz. This would have been best for Pittsburgh's past, as well as its economic present and future. With the loss of the wool pullery, Pittsburgh will have lost another piece of its historic industrial heart and soul. Even with its new warehouse, there are no guarantees that Heinz will be able to maintain its manufacturing presence perpetually, and if someday they leave, Pittsburgh will be left with an "unremarkable" 1990s warehouse (to borrow Pittsburgh Historic Review Commission Chairman John DeSantis's description of Pittsburgh Wool). The agreement worked out between Pittsburgh Wool and Heinz executives tentatively calls for Historic American Engineering Record (HAER) documentation of the pullery, including video documentation. At the turn of the new millennium, wool pulling will have disappeared from the American economic landscape.

D. S. R.
Born near Oslo, Jonas Lie (1880-1940) came to the United States in 1893, the year after his father’s death. Academically trained at the National Academy of Design, the Cooper Union and the Art Students League, he made his major exhibition debut at the St. Louis Exposition in 1904. Throughout the next three and a half decades he established his painterly reputation. His most characteristic themes are landscape and marine scenes, inspired by sites around New York City, and the New England and Canadian coastlines.

Lie, little known today, maintained a lifelong interest in industrial subjects, and traveled widely in search of inspiration. One painting, The Quarry (unlocated) was one of four works he exhibited at the historic Armory Show of 1913. He found his most exciting subject in the Panama Canal, where he spent several months on site in 1913 as it neared completion. The twenty-seven canvases he produced, exhibited together at the Albright Art Gallery of the Buffalo Fine Arts Academy in 1914, convey the optimism of progress implicit in this great “Wonder of Work.” Like many of his contemporaries, he was fascinated by the realization of the great enterprise that linked the Atlantic and Pacific oceans. The creation of a 51-mile bridge of water across a continent in the form of a navigable passage was an unprecedented feat of civil engineering, galvanizing both visitors and distant observers with a positive vision of the future supported by advances in modern technology.

Several art events mark the historic transition of canal governance from the United States to Panama, which will take place on December 31, 1999. The Williams College Museum of Art in Williamstown, Massachusetts, has organized an exhibition titled “The Panama Canal and the Art of Construction” (through January 23). Approximately twenty paintings, prints, and photographs by North American artists and engineers dating from 1910-13 document its construction. Included are six paintings by Lie which celebrate the tremendous operational scale and coordination necessary to realize the project. Typical is Toil, one of twelve in the collection of the West Point Museum at the United States Military Academy (USMA). These were given in 1929 in memory of General George Washington Goethals, who had been appointed in 1907 by President Theodore Roosevelt as the canal’s Chief Engineer. Many of the works in the series bear evocatively literary titles, such as The Conquerors (Culebra Cut) (Metropolitan Museum of Art, New York) and Heavenly Host (USMA), showing massive buckets lowered by cranes to remove the earth scoop by scoop. Views of construction scenes are dramatic, as is the equipment necessary to accomplish such a logistical marvel. Appropriately, one from his series, Gates at Pedro Miguel (USMA), was shown at the Panama-Pacific Exposition in San Francisco in 1915.

Also included in the Williams College show are prints by Joseph Pennell (1860-1926), which detail the heroic contrast
The Kinne Collection of water turbines are on exhibit at the Jefferson County Historical Society, Watertown, NY.

In June, the Kinne Collection of Water Turbines at the Jefferson County Historical Society in Watertown, NY, was designated a Mechanical Engineering Heritage Collection at a ceremony by the American Society of Mechanical Engineers (ASME). This was the result of years of promotional activity by many people, including Jane Mork Gibson [SIA]. The collection of 34 turbines, assembled by engineer Clarence E. Kinne (1869-1950) between 1907 and 1937, is believed to be the largest in the world. Most of the turbines powered machine works, factories, and saw, grist, and paper mills in the northern counties of New York during the 19th and early 20th century. Examples range from crude, one-of-a-kind wheels, designed and built by users based largely on instinct and observation and incorporating parts of wood, to sophisticated, high-efficiency, all-metal machines by large builders dedicated solely to turbine work. The remarkable collection represents American turbine development from the early 19th century through inward-flow reaction turbines similar to those used in today's largest hydroelectric plants.

The ASME designation officially recognizes the Kinne Collection's importance to our understanding of America's industrial heritage, in which the use of waterpower played such a central role. Clarence Kinne was a mechanical engineer with an almost obsessive interest in waterpower and a dogged determination to preserve this aspect of northern New York's milling heritage. He collected the turbines at a time when many industrial activities were switching to electric power, and the turbines were being cast aside or scrapped. Not only was Kinne's interest most unusual, but his timing was fortuitous. The turbines, stashed in the basement of the Victorian mansion that houses the Jefferson County Historical Society (JCHS), escaped the period when everybody melted down those "ugly black iron things" for war or industry. The turbines are made of much more valuable by Kinne's copious notes about their provenance, and by the accompanying collection of trade catalogues and correspondence housed at Old Sturbridge Village and Clarkson University. There is nowhere else where students of waterpower can go to see such a wide and varied collection including center-discharge wheels, Jonval axial-flow turbines, radial-inward and mixed-flow turbines, register-gate and wicket-gate turbines, centrifugal wheels, and many other types.

The initial effort to gain ASME designation for the collection came from Euan F. C. Somerscales, a professor at Rensselaer Polytechnic Institute and former chairman of the ASME History and Heritage Committee. He became interested after hearing Jane Mork Gibson's paper at the SIA annual conference in Buffalo in 1992. Margaret Schaeffer Dowd, a former executive director of the JCHS, valued the collection, as did her successor Fred Rollins, who took a strong interest in the turbines, but no one else in Watertown seemed to realize what a prize they had. There were discussions of breaking up the collection and putting some turbines out on a river walk. Gibson gave lectures to two Rotary groups and the historical society counseling them that they had "a sleeping giant in the basement." Tom Urling Walker, a mechanical engineer and a member of the ASME Syracuse Chapter, and a former mayor of Watertown, became an ally. With his prodding, the chapter proposed the Kinne Collection for ASME landmark designation, but it was not approved until the museum had undergone asbestos abatement and the exhibit labels were updated from the original 1920s labels installed by Kinne. It took several years to raise the funds, but now, the significance of the Kinne Collection has finally been recognized.

Info: Jane Mork Gibson, 2615 De Kalb Pike, #413, Norristown, PA 19401-1831; or, JCHS, 228 Washington St., Watertown, NY. For info. on the ASME History and Heritage Programs: Public Information, ASME International, 3 Park Ave., New York, NY 10016; (212) 591-7740.

J. P. H. & J. M. G.
Michael Stratton (1953-99), our British colleague who died of cancer in April at the age of 45, will be remembered for his exceptional contributions over the last 19 years to the recognition of industrial archaeology as part of the academic field, and to the development of new perspectives in the study and recording of industrial and commercial buildings. Over the years, Michael graciously hosted many SIA members traveling in Great Britain.

As with many industrial archaeologists, eclecticism is the most appropriate term to reflect Stratton's academic background and professional activities: after undergraduate studies in Geography at Durham University and in Town Planning at Sheffield University, he received an M.A. in Victorian studies at Leicester University. While pursuing his doctorate at the University of Aston, he began his career in 1980 as lecturer at the Ironbridge Institute, where he became Director in 1989. He occupied this position until 1994 when he joined the Institute of Advanced Architectural Studies at York University.

Stratton was held in high esteem by his peers for his creative approach in IA teaching and research methodology. For instance, he demonstrated that the discipline of industrial archaeology should also be concerned with the study, preservation and interpretation of artifacts, images, sites, and structures illustrating the industrial activities of the 20th century, rather than being limited to the remains of the industrial revolution, as was traditional in the British context. In that respect his work had a profound influence on industrial heritage conservation policies that developed in England and other European countries. Under his guidance, the Ironbridge Institute acquired an international fame: students from Australia, Canada, the U.S., Germany, Japan, and Slovenia came to study there, and visiting scholars came to do research or participate in field trips.

Canadian students at the Ironbridge Institute were highly motivated by Stratton's enthusiastic and stimulating teaching. He would stir up the discussion regarding new concepts and controversial issues, such as the picturesque aspect of a derelict industrial landscape. In his lectures and meetings, Michael was keen on presenting details to foreign students and would not hesitate to explain at length the British geographical or historical context of the archeological sites or structures under study; as well, he was thoughtful in accepting modifications to research theories. He generously animated the field trips with humor, and with a selection of friendly pubs that might not have yet won a star or two in the Michelin guide.

In an article released in 1984, Stratton noted that the study of industrial architecture had received little consideration either from industrial archaeology or from architectural history. Consequently, he abundantly explored this subject in his books where he brought forward a methodology that associated the technological and aesthetic achievements of factories and commercial buildings. The Terra Cotta Revival: Building Innovation and the Image of the Industrial City in Britain and North America (1993) illustrates the relations between the making of terra cotta and its use in the architecture of banks, cinemas, museums, hotels, railway stations, schools, and skyscrapers. The book shows examples of the contribution of American terra cotta manufacturers to the work of architects like Adler and Sullivan, Burnham, Preston, and Zucker. A Gazeteer or British Car Factories From 1896 (1993) documents the influence of Henry Ford's Highland Park plant in Detroit on multi-story layouts and concrete construction. His other publications include: Ironbridge and the Electric Revolution (1994), and The English Heritage Book of Industrial England (1997) with Barrie Trinder, as well as a number of articles on British textile mills, aircraft production, lead mines, and on the conservation of architectural ceramics. He also was associate editor and contributor to The Blackwell Encyclopaedia of Industrial Archaeology (1997).

Gifted with a vivacious spirit, Michael was able to blend harmoniously his stunning sense of humor with his dedication to IA matters: this is the impression he gave me when we first met at the TICCIH Conference held in Lowell and Boston, in 1984. Our subsequent meetings confirmed that impression. During my study trip to the Ironbridge Institute in 1988, besides providing me references on the development of the power system in England, he also kindly introduced me to the art of the limner. The preparation of his book on terra cotta was another occasion for us to exchange information on ceramic tiles from Puebla and Oaxaca, in Mexico, where I had done field work for my M.A. in Museum Studies in the early 1980s. Besides delivering a brilliant presentation at the TICCIH Conference in Canada in 1994, Michael was eager to know more about Montreal's transit system. I was told later that he fancied early morning subway or bus rides when visiting a city for the first time. After the conference, Michael sent me a signed copy of his book on Ironbridge and the Electric Revolution: "With many thanks for a wonderful introduction to the joy of Quebec." I am quite moved to return the compliment to Michael: Thank you for introducing us, your friends, colleagues, and students to the lively, eclectic and joyful environment of industrial archaeology.

Besides a legacy of professional accomplishments in researching, writing, teaching, and promoting the fields of industrial archaeology and history of architecture, Michael leaves behind his wife, Annabel Pears, whom he married in 1989, and their two sons.

Louise Trottier
With the impending loss of Cleveland's four Hulett unloaders (one will be disassembled and mothballed), the pair of active Hulett unloaders at the Chicago Coke Plant of LTV Steel Co. will become the Great Lakes only remaining examples in situ. Frank Beberdick [SIA] reports that members of HAER’s Chicago bridge project team visited LTV Steel’s unloaders in June. Physically smaller than Cleveland's unloaders, Chicago’s also are much newer, installed by the Defense Plant Corp. at the beginning of World War II. Republic Steel was the owner of the plant before LTV Steel. Today, these units are used for coal unloading since LTV no longer produces steel here and everything but the coke operation has been demolished. The coke is shipped by rail to a steel mill in northwest Indiana. Approximately 15, 1,500-ton capacity coal barges are unloaded per week by the two Huletts. One has been converted to remote operation for safety considerations. The operator no longer rides in the cab above the clamshell bucket. LTV personnel were optimistic about the continued operation and future of their Hulett.

The McNeil Street Pumping Station (NR, HAER) in Shreveport, LA, was named a National Historic Civil Engineering Landmark by the American Society of Civil Engineers at a ceremony in August. The 1887 water plant’s 1921 Worthington-Snow steam pump was the last steam-powered equipment to deliver water to a major U. S. city when it closed in 1980. The local preservation society recently revived efforts to preserve and restore the pumping station. It joined forces with the ASCE’s Shreveport branch to prepare the landmark nomination. Other sites receiving National Historic Civil Engineering Landmark status in 1999 were the Cape Hatteras Lighthouse (NC) and the Blue Ridge Parkway (NC-VA).

The Bridge of Lions (NR, 1925-27, St. Augustine, FL) has been slated for rehabilitation rather than demolition by the Florida DOT after a vigorous campaign to save the bridge by preservationists. The SIA passed a resolution in support of the bridge in June (see SIAN 28,2). The Bridge of Lions is a 23-span, 1,538 ft.-long arched steel deck girder bridge with a double-deck bascule span. The two-story bascule operators’ houses are in the Mediterranean-Revival style. The Florida DOT announced its decision after a period of public comment in which opinion rallied toward saving the bridge. The Save Our Bridge Committee, which made a presentation at the SIA’s Savannah conference, was a key local supporter of the bridge. The decision to rehabilitate rather than replace is just the first step. There are still many important decisions to be made about the details of the proposed work. Members of the committee and other supporters of the bridge have been granted “consulting party” status for showing long-term demonstrated interest in the project, and they will be involved from here on as part of a memorandum of agreement with the DOT. A potential obstacle remains: the U. S. Coast Guard has threatened to block the project because of its desire for a new bridge with a wider navigational clearance.

Arlyne Reichert [SIA] reports excellent progress with the 1919-21 10th Street Bridge (NR) in Great Falls, MT, a 1,130-ft. long, reinforced-concrete, open-spandrel-arch bridge (see SIAN 25,2 & 27,2). In 1996, Montana DOT had let a contract to demolish the Great Plains state’s oldest open-spandrel-arch bridge but a grassroots preservation campaign helped save it at the last minute. The DOT reallocated $400,000 earmarked for demolition to rehabilitation on the condition that the city take ownership and that a local preservation group, Preservation Cascade, take on the job of raising the additional $300,000 required to rehabilitate the bridge by 2002. In May, Preservation Cascade sponsored a historic bridges conference, attended by many of SIA’s pontists, that helped raise regional awareness about historic bridge preservation. This summer work began removing the bridge’s old deteriorated railings, which will be replicated. As a fundraising activity, the preservation group is selling the bridge’s old urn-shaped balusters for $50 each. Many of them are now appearing as birdbath stands and garden statuary in Great Falls’s backyards. The bridge has been named by the National Trust as an Official Project of Save America’s Treasures. This will qualify the bridge for funds from foundations and grants agencies. Over $70,000 has already been raised locally. A videotape of the 2-day Montana historic bridges conference is available for $80, with $25 of the price going to the save the bridge fund. To order a videotape contact: MR Video (406) 761-6346.

The 1889 Oberlin (OH) Gasholder House (NR) is getting a new lease on life as city officials and committed residents explore ways to find an adaptive reuse for the structure. According to the Chronicle-Telegram, ideas for the gasholder house include a museum or a comfort station for a bike path. The structure was built by Albert H. Johnson to enclose a gasholder storing coal gas produced by his Oberlin Gas Lighting Co., which supplied gas to homes, industries, and streetlights throughout the city. The roughly 21-ft. high, circular brick structure with a conical roof is one of about 15 such gasholder houses remaining in the U. S. It was used for its original purpose until 1918. Since then, the gasholder was removed and the structure was converted to storage with the addition of a second floor and garage door. The current owner will donate the gasholder house to the city after funding has been secured for renovation.

The 1893 Baltic Mill in Sprague, CT, was engulfed in a fast-moving fire on Aug. 11 that left the eastern Connecticut landmark gutted. The four-story textile mill on the Shetucket River was noted for its beautiful, gray-granite ashlar construction and tower with arched belfry opening, corbeling, and parapet. It was considered by many in the community a beautiful, character-defining monument to the town’s industrial past, but efforts to adaptively reuse the mill, closed since 1967, had been difficult and uncertain. Because of the mill’s doubtful future, it was recorded by Bruce Clouette [SIA] for the Connecticut Historical Commission in 1998. The Norwich Bulletin (Aug. 12) noted that the Baltic Mill fire is the latest in a tragic series that have destroyed eastern Connecticut mills since the 1970s. Also on the casualty list are the Palmer Bros. Mill (Fitchville), Ashland Mill (Jewett City), Revere Textile Mill (Sterling), Occum Mill, and Putnam Mill.

Richmond Furnace (MA), the site of several weekend documentation projects conducted by the SIA New England Chapters in the 1990s, was listed in the National Register of Historic Places in August. The historic district encompasses over 290 acres and includes more than 180 individual resources associated with the Richmond Iron Works. The works produced merchant pig iron (continued on page 16)
Kathryn June Kapsch died at age 54 on March 25 at her home in North Potomac, MD, after a long illness with Amyotrophic Lateral Sclerosis (ALS, also known as Lou Gehrig's disease). An enthusiastic SIA member, Kathy was well known to members of SIA through her attendance, with her husband Robert Kapsch, at SIA annual meetings since 1980. Professionally, Kathy was a human resources director for several hotels in Washington, D.C. Through her SIA membership, she became interested in a wide range of IA topics. She will be missed.

IA in Art
(continued from page 10)

between the massive scale of construction and the diminutive people on site, many of which were published in his Pictures of the Panama Canal (1913). Drawings and photography by members of the Army Corps of Engineers provide a factual counterbalance to the artistic interpretations of canal construction. Stereographic photographs convey a view of Panama via the 3-D technology of 1912. The exhibition has been organized by a husband and wife team Professor George R. Goethals (the general's great-grandson), who teaches psychology at Williams, and Marion M. Goethals, the associate director of the museum.

At the West Point Museum, a second exhibition focused on the canal is titled "Major General George W. Goethals and an Artistic Excursion through the Panama Canal" (Dec. 1, 1999 thru Feb. 2000). Lie's other six canvases are included, as well as a series of watercolors dating from 1912 by William Pretyman, an amateur artist who was a friend of General Goethals, whose connection to the academy is also highlighted in the show.

Mining was the transformative industry of the American west, and the tremendous excavations typical of open-pit operations must have struck Lie as comparable to what he had witnessed in Panama nearly a quarter century earlier. His Bingham Mine was executed three years before his death. By the time he painted this unusual theme, he had become an advocate of conservative art values, serving as president of the National Academy of Design (1935-39). The enormous Utah copper mine is the largest open pit in the world. Located near Salt Lake City and operated by the Kennecott Corporation, the site featured the many structures typical of such installations, including trestles for the ore trains. As with the canal paintings, workers are scarcely visible, only the results of their hard labor. The energetic plumes of smoke indicate active production and recall the determinedly coordinated effort necessary to alter the landscape on an immense scale.

AUTHOR: Betsy Fahlman is a professor of art history at Arizona State. Readers are encouraged to suggest essay ideas for the column, or submit their own to her at: College of Fine Arts, Arizona State Univ., Box 871505, Tempe, AZ 85287-1505; e-mail:fahlman@asu.edu.

A Superior Conference
(continued from page 6)

Headframe at Pioneer Mine, Ely. We will be allowed to climb to the top! underground using 1880s hoisting machinery. The Pioneer Mine in Ely will offer the opportunity to climb to the top of the headframe. Ely is a gateway for the Boundary Waters Canoe Area and outfitting is a major industry. We're hoping to get a tour of Steger Moosehide Mukluks, owned by the ex-wife of polar explorer, Will Steger.

The Hoyt Lakes/Two Harbors tour will include the ore docks in Two Harbors. Other likely stops include Split Rock Lighthouse; the LTV taconite processing plant in Hoyt Lakes, operating the oldest pelletizing machinery in the area; and the original site of 3M, which began mining abrasives in the Two Harbors area; and, the Duluth, Missabe & Iron Range Railway tugboat, the Edna G.

The Hibbing tour will travel to the Hill Annex open pit mine; the Hibbing Taconite plant; the Greyhound Museum, commemorating the beginnings of the national bus company here in 1914; and Ironworld, which houses an interpretive center and operates a 1920s electric trolley car along the rim of the Glen open pit mine.

For pre- and post-conference tours we are planning to offer a harbor boat cruise and a train excursion.

For more information, contact SIA headquarters or check the Website at http://www.ss.mtu.edu/IA/sia.html.
The New Jersey Historical Diving Association (NJHDA) has recovered a heat exchanger from a shipwreck that they believe to be a fuel barge. The vessel may be the Cecilia M. Dunlap, built in 1876 and sunk in 1931. What is certain is that the vessel had no means of propulsion via propellers or side-wheels. She was either a sailer, de-masted sailer, or a barge-to-be-hauled design. She had a steam plant including a large boiler at her stern, but none of the parts remain interconnected. The group is attempting to discover the original configuration and purpose of the steam plant and the use of the heat exchanger. They are looking for NJHDA members with knowledge of marine steam power to assist them. Contact: Dan Lieb, NJHDA, 3 Main St., Avon-By-The-Sea, NJ 07717; e-mail: aquadib@aol.com.

The Soudan Mine Underground State Park (Soudan, MN) is in search of a hoist motor of historical quality to serve as a nearly identical backup to one currently in use. The 2,400-ft. deep, inactive mine is open in the summer for tours. Their current motor is a ca. 1930 Westinghouse, Type CW wound motor, 600 hp, 2200 v, 60 cycles, 3 phase, 155 amps per terminal, 350 RPM, 551 amps per ring, 40 degree temp. rise, rotor circuit 477 v. It is in excellent working condition (having recently been rewound), but in the event of failure the park would like to maintain a similar operable backup. Contact: Dan Hestetune, PE, Minnesota Dept. of Natural Resources, Soudan Mine Underground SP, Box 335, Soudan, MN 55782; (218) 753-2245; e-mail: dan.hestetune@dnr.state.mn.us.

National Preservation Institute offers a wide range of seminars in historic preservation and cultural resources management for both the professional and community leader. The institute is a nonprofit organization that provides training for the management, development, and preservation of historic, cultural, and environmental resources, including help with understanding federal programs and regulations. The seminars are offered at various locations across the U.S. Info: NPI, Box 1702, Alexandria, VA 22313; (703) 765-0100. Website: www.npi.org.

Minnesota Historical Society's Research Grants each year make available funds to support original research and writing leading to interpretive works on the history of Minnesota. Especially encouraged are projects that cover subjects not well represented in the published record, including (of interest to SIAners) workers and work. Applications are reviewed three times per year. Info: Deborah L. Miller, MHS, 345 Kellogg Blvd. West, St. Paul, MN 55102; (651) 296-6126; e-mail: debbie.miller@mnhs.org.

IA in Philately. The U. S. Postal Service's commemorative stamps for 1999 include several issues of interest to SIAners wishing appropriately to adorn their mail. The heritage of America's railroads is celebrated by the All Aboard series of stamps picturing five renowned streamlined locomotives of the 1930s and 1940s. The sesquicentennial of the 1849 California gold rush is commemorated with a stamp of prospectors at work in the Sierra Nevada Mts. The American Glass series of stamps features glassware from the Corning Museum of Glass. The stamps highlight four different glassmaking processes—free-blown, mold-blown, pressed, and art. Finally, a new stamped postcard features the Block Island (RI) lighthouse.

Japanese IA Database On-line. The Toyota Foundation has funded for the last 10 years an effort by the Japan Industrial Archaeology Society and Industrial Heritage Study Group to create a multi-media database with descriptions, images, and maps of Japan's industrial heritage. The database comprises over 7,000 entries, 20,000 image files, and geographical data links so that the location of an industrial site can be pinpointed on a map. Leedom Jeffers [SIA] writes that the website can be checked out at http://toyotafound.or.jp/ by clicking on the engine on the left side of the screen. Although almost all of the text is in Japanese, an article by Hoshimi Uchida, "Short History of Japanese Technology," is in English. Most of the documented sites are in the Chibu region but there are efforts to fill out the database with the cooperation of researchers in other regions of Japan. The Toyota Foundation Occasional Report No. 27 (July 1999) carries a lead article that describes the genesis of the project to document Japan's industrial heritage on computer.

Correction. SIAN (28,2), photo top of p. 7, incorrectly identified the location of the Chrysler engineering and design center. It was located in Highland Park, Michigan, not in Dearborn.

Roebbling (Greater NY-NJ) toured Bethlehem Steel's Bethlehem plant in August. The plant remained in production until 1995. Historically significant sections have been slated for preservation as a national museum of American industry. The chapter's annual corn roast was at Gerry Weinstein's place at Croton-on-Hudson in September. The 19th Annual Symposium on Industrial Archaeology in the New York-New Jersey Area was held at Drew University in October. The symposium featured presentations on the artistry of manhole covers, the Lehigh Valley RR in Perth Amboy, the terra-cotta industry in New Jersey, Conrail bridges in eastern Pennsylvania, steam at Bergen Vo-Tech, the Phelps-Dodge site in Queens, and historic timepieces in New York City. Oliver Evans (Philadelphia) held its annual meeting at the Eastern State Penitentiary NHL in September. Oliver Evans flour mills were the theme of the chapter's tour to Lancaster County's Mascot Roller Mills (1760) and Rohrer's Mill (1834) in October.

Montgomery C. Meigs (Original) (Washington, DC) co-sponsored a tour of the Washington Navy Yard with the Latrobe Chapter of the Society of Architectural Historians in October. The shipyard, which is celebrating its bicentennial, was the nation's first official naval shipyard.

(continued on page 16)
March 16-19: American Society for Environmental History Annual Meeting, Tacoma, WA. Into the Next Millennium: The Past and Promise of Environmental History. Info: Matt Stewart, Dept. of History, Western Washington Univ., Bellingham, WA 98225-9056; (360) 650-3455; e-mail: smar4@cc.wwu.edu.

April 6-9: Preserving the Historic Road in America, Morristown, NJ. Sponsored by the National Trust for Historic Preservation. Info: Dan Marriott (202) 588-6279; e-mail: dan_marriott@ntha.org.

June 1-4: SIA Annual Conference, Duluth, MN. Co-sponsored by the St. Louis County Historical Society. Info: SIA-HQ, Michigan Tech Univ., 1400 Townsend Dr., Houghton, MI 49931; Website: www.ss.mtu.edu/sia/sia.html.


Aug. 30-Sept. 7: TICCIH 2000: The Millennium Congress, London, England. Three days of working sessions in London, followed by choice of four days of regional touring of industrial sites in either Cornwall, Wales or Scotland. Info: Rosy Hayward, The Science Museum, London SW7 2DD, UK; e-mail: cc@conferencecontact.co.uk.


Between 1828 and 1923, and it constructed a network of iron ore mines, limestone quarries, and charcoal kilns to feed the blast furnace. The company also built the community of Richmond Furnace, which includes worker housing, an ironmaster's house, company office, and school. The NR nomination was prepared by Matt Kierstead, president of the SIA Southern New England Chapter. The 14-acre parcel that includes the blast furnace is for sale, raising concerns for the site's future. The property includes a picturesque two-story cottage (1931) built of stone scavenged from the old iron works. In addition to the blast furnace stack, the property includes remains of the mill pond, dam, wheel pit, raceways, charcoal kilns, ancillary furnace structures, and the salamander dump. This property needs an owner who can offer continued stewardship and research access. Info: Sheila K. Thunfors, Stone House Properties, (413) 232-4253.

Southern held a program at Sloss Furnaces NHL in August. Jack Bergstresser gave a presentation on the archeological excavation of the original blacksmith shop. Southern chapter members have been busy volunteering significant amounts of time to organize the SIA's Fall Tour in Birmingham (Nov. 4-7). [Editor's Note: Thank you!]