

SECRETARY'S MESSAGE

For all of our members who made it to Amsterdam, I hope you've now recovered from your travels. A special welcome to all of our first-time attendees who are now new SHOT members – we hope to see you in Minneapolis next November and hope that SHOT will become a valuable, lasting part of your professional life. All of us had the opportunity to appreciate a most successful conference, the credit for which, of course, goes to Johan Schot, meeting coordinator Donna Mehos, and their beautifully efficient local arrangements team. As always, we had the chance to hear some fascinating papers, thanks to program creators Ruth Oldenziel, Dan Holbrook, and Eda Kranakis.

The meeting featured a number of special points to remember, starting with the setting, the impressively-domed Koepelchurch. We won't find any location in Minneapolis that spectacular unless we rent the state capitol building! David Hounshell's presidential address on "SHOT's Past and Present" gave us all food for thought, with his insights into SHOT membership trends and other society conditions. Especially as we move toward our fiftieth anniversary, it will be good to keep David's detailed analysis in mind. The Friday night multimedia presentation simultaneously offered both amusement and meaning, starting with a charming cartoon about Dutch water management and finishing with public discussion about technology and national identity.

Speaking of headline events, of course, SHOT's dance party certainly was something! Although I

didn't last until 1 a.m., I hear that plenty of attendees were still going strong then – and not only young graduate students! I was there long enough to see Arne Kaijser and Paul Edwards jamming with the band on stage and to hear Johan Schot and Ruth Oldenziel announce that they'd made the dance party into a new SHOT tradition. We'll see - I'm not quite ready to make any promises for Minneapolis. Each SHOT location has its distinctive opportunities, but our members always manage to have fun wherever we go. And for those who have their hearts absolutely set on a wild party, there's always our Las Vegas meeting in 2006!

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Society for the History of Technology

Society Office:
History Department
603 Ross Hall
Iowa State University
Ames, IA 50011
Phone: 515-294-8469
Fax: 515-294-6390
Email: shot@iastate.edu
Website: <http://www.shot.jhu.edu>

Officers

President: David Hounshell
Vice-President/President-Elect: Rosalind Williams
Secretary: Amy Bix
Treasurer: Richard Hirsh

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and Journal Delivery Queries**

Please contact Carla Hubbard, Journals Division,
Johns Hopkins University Press, 2715 N. Charles St.,
Baltimore, MD 21218, USA
Phone: 410-516-6964
Fax: 410-516-6968
Email: cdh@mail.press.jhu.edu

**SHOT Newsletter Editorial Policies, Advertising
Rates, and Submission Deadlines**

The SHOT *Newsletter* is published quarterly in April, July, October, and January and is sent to all individual members of the Society. Items for inclusion will be published **if received by the 1st of the previous month**. Please note that material for the newsletter may be submitted via electronic mail. Non-members and institutions may receive the *Newsletter* by separate subscription for \$15 per year. The *Newsletter* can also be read at the SHOT website.

Readers should verify closing dates and other information provided by institutions and sponsors; the editor and SHOT are not responsible for changes or typographical errors. Advertising for books, journals, and other matters related to the interests of the Society and its members is accepted if received by the 1st day of the previous month.

Advertising Rates: Full page (7-1/2" x 9-1/2"), \$200;
Half page (7-1/2"x5" or 3"x 9-1/2"), \$150;
Quarter page (3" x 5"), \$100

The SHOT logo was created by Brickworks of London

On more serious business, SHOT is moving ahead with preparations for its golden anniversary. As already noted, the 2007 meeting will be the first part in a multi-stage celebration, and SHOT's Executive Council has now approved plans to hold our 2007 conference in Washington, D.C. We are also pleased to announce that Robert Post and Steve Cutcliffe have agreed to serve as co-chairs of our anniversary planning committee. You'll be hearing a lot more about this in forthcoming months, and we'll be asking for your help and input.

As you flip forward in this newsletter, you'll notice many other pieces of news, including a report by incoming SHOT president Rosalind Williams on the very successful writing and publication workshop held this last summer. Congratulations and thank you to Roz, John Staudenmaier and other staff members who organized and ran this workshop, as well as congratulations and thanks to the participants. I am very pleased to announce that SHOT's Executive Council has approved plans to continue holding this workshop on an every-other-year basis; please watch the newsletter and website for announcements about the next one, in summer 2006.

In this newsletter, you'll also find an important report by Arne Kaijser on some ongoing plans to extend SHOT's international outreach, as well as an essay by one of our SHOT International Scholars, Paulo Antonio Zappia. Results of this year's elections are posted here too. Our congratulations to the winners and our deep thanks to all of our members willing to stand for office. Every one of our candidates has made a vital contribution to SHOT, and we deeply appreciate their commitment to supporting this organization. We also thank everyone who voted in the election, either by mail ballot or through the SHOT website – wouldn't it be wonderful if our national elections could run this smoothly!

If we were in an Amsterdam paper session, my chair would now be holding up a wooden sign shaped like a yellow tulip, to indicate that my time

had almost expired. The clever yellow tulip/red tulip system is an innovation that we may keep in the future, appropriately adapted to each meeting's local symbolism. Showing myself the red tulip, I'll end here...

Amy Sue Bix
Iowa State University

OFFICIAL SOCIETY BUSINESS

At the annual business meeting, the membership unanimously voted to accept the motion for a Constitutional amendment on the Advisory Council, as set out in the July newsletter. The membership also unanimously approved the resolution on use of the endowment account, again as detailed in the July newsletter.

SOCIETY NEWS

SHOT Election Results

Vice President/President Elect:
Steve Usselman

Treasurer:
Richard Hirsh

Executive Council:
Ken Alder
Wiebe Bijker
Amy Slaton

Nominating Committee:
Greg Clancey

Editorial Committee
Colleen Dunlavy

SHOT Prize Winners for 2004

Leonardo da Vinci Medal: David Landes

Edelstein Prize: Angela Lakwete, *Inventing the Cotton Gin: Machine and Myth in Antebellum America*.

Abbot Payson Usher Prize: Kenneth Lipartito, "Picturephone and the Information Age: the Social Meaning of Failure. *Technology and Culture* v. 44 (1), January 2003

Dibner Award: "Heroes of the Sky: Adventures in Early Flight, 1903-1939," The Henry Ford, Dearborn, Michigan; curator Bob Casey

Sally Hacker Prize: Rebecca Solnit, *River of Shadows: Eadward Muybridge and the Technological Wild West*.

IEEE Life Members' Prize in Electrical Engineering: Kristen Haring, "The 'Freer Men' of Ham Radio: How a Technical Hobby Provided Social and Spatial Distance."

Samuel Eleazar and Rose Tartakow Levinson Prize: Matthew Adams Axtel, "In Pursuit of a Barren Scepter: The Life and Death of the James River and Kanawha Canal in Antebellum Virginia's Forsaken West, 1784-1860."

Brooke Hindle Post-Doctoral Fellowship: Sara B. Pritchard (Montana State University) "Recreating the Rhone: Nature, Technology, and the State in France in 1945."

Kranzberg Dissertation Fellowship: Tanya Sheehan (Brown University), "'Doctor Photo': Portrait Photography as Medicine in Late Nineteenth-Century American Culture."

2003 Joan Cahalin Robinson Prize: Matthew Harpster (Texas A&M University), "New rules for old boats: Proportional rules in early-medieval ship design."

International Scholars:

Maria Paula Pires dos Santos Diogo (Portugal)

Leonard Laborie (France)

Alain Michel (France)

Tiago Figueiredo Saraiva (Spain)

Maria Luisa de Castro Coelho de Oliveira e Sousa (Portugal)

The Envirotech SIG met at Amsterdam to welcome Joy Parr as co-chair, Tim LeCain as newsletter editor, and Erik Conway as new member of the best article prize committee. We thanked Jim Williams, Erik, and Hugh Gorman for their service in these positions, respectively. Since the conference, our envirotech listserv (maintained by Matthew Booker) has supported a lively conversation proposing a book of essays that will characterize "envirotech" as a field of academic, historical inquiry. We look forward to our next semiannual meeting at the American Society for Environmental History conference in Houston, on March 17, 2005. For our newsletter and for more information about the Envirotech SIG, please visit the website maintained by Gabriella Petrick at:

<http://www.udel.edu/History/gpetrick/envirotech/>.

FELLOWSHIPS & GRANTS

The Pennsylvania Historical and Museum Commission invites applications for its 2005-2006 Scholars in Residence Program, including applications for collaborative residencies. The Scholars in Residence program provides support for up to eight weeks of full-time research and study in manuscript and artifact collections maintained by any Commission facility, including the Pennsylvania State Archives, The State Museum of Pennsylvania, and 25 historic sites and museums around the state. Collaborative residencies fund research that relates to the interpretive mission and advances the programmatic goals of a PHMC program or facility, including the agency's history sites and museums. A collaborative residency proposal must be filed jointly by the interested scholar and host program/facility.

Residency programs are open to all who are conducting research on Pennsylvania history, including academic scholars, public sector professionals, independent scholars, graduate students, educators, writers, filmmakers, and

others. Residencies are available for up to eight weeks between May 1, 2005, and April 30, 2006, at the rate of \$375 per week. Deadline for application is January 14, 2005. Complete information and application materials are available at the PHMC website: www.phmc.state.pa.us. You may also write: Division of History, Pennsylvania Historical and Museum Commission, Commonwealth Keystone Building—Plaza Level, 400 North St., Harrisburg, PA 17120-0053, or call 717-787-3034; or email: lshopes@state.pa.us.

Graduate Fellowship History of Environment and Technology University of Virginia

The University of Virginia seeks applicants for one or more graduate fellowships in the history of environment and technology. The fellowship covers a Ph.D. student's tuition and stipend for three academic years (subject to satisfactory progress) through a combination of grants and teaching assistantships. The fellowship is funded by the National Science Foundation and the University of Virginia. It is overseen by the university's Committee of the History of Environment and Technology, which urges potential candidates to contact one or more member of the committee before applying.

Primary members of the committee are Brian Balogh (political history), John K. Brown (history of technology), W. Bernard Carlson (history of technology), and Edmund Russell (environmental history and history of technology). Their addresses, as well as further information about the program, are at <http://www.sts.virginia.edu/news/chet-job>.

The committee strongly encourages applications from candidates who will enhance the diversity of the university. Candidates should submit a standard application for the Ph.D. program in the Department of History (<http://www.virginia.edu/history/jand>) specify an interest in this fellowship. Applications are due December 1, 2004.

The fellowship is contingent on final approval of funding.

THE GALLERY OF RESEARCH I GALERIE DER FORSCHUNG in Vienna is seeking applications for 3 positions of research fellows. The candidates should hold a recognized postgraduate qualification (PhD) in social sciences: history, sociology, psychology, anthropology, literature, philosophy or political studies. Consideration will be given to candidates with other qualifications who demonstrate an active research agenda in science communication or scientific management. The successful candidates should possess a proven

interest in studies of science and technology. Knowledge in museology and visual arts, as well as previous experience in events organization in an academic or museum setting will be well regarded. Working in a dynamic and innovative environment, the successful candidates should demonstrate the ability to conduct research and to translate this knowledge and understanding into various novel visual forms. Therefore, imagination, daring creativity and innovative stance on scientific issues and research will be essential. Perfect working knowledge in English is required; skills in other European languages will be valuable assets.

THE GALLERY OF RESEARCH I GALERIE DER FORSCHUNG is a new scientific and social policy institution recently established by the Austrian Academy of Sciences in Vienna. Its purpose is to make public on-going scientific research, current debates and controversies at European and international level. It will also foster original research on Austrian scientific life past and present. The ambition of THE GALLERY OF RESEARCH I GALERIE DER FORSCHUNG is to develop a novel intellectual design and forms of display for communicating scientific research dissimilar with those of science museums and science centres (for more information see <http://www.oeaw.ac.at/gallery>).

Appointments will be for one or two years in the first instance, with the possibility of renewal. Salary will be dependent on qualifications and relevant experience, as well as on the specific duties of the fellows.

Candidates interested in applying are invited to send a CV and discuss the positions in confidence with the designated Programme Director of THE GALLERY OF RESEARCH I GALERIE DER FORSCHUNG, Dr. Alben YANEVA, who will be happy to provide further information on the positions and the duties of the post holders.

Dr. Yaneva can be contacted by email:

Alben.Yaneva@oeaw.ac.at

The positions are open until filled.

Pembroke Center Postdoctoral Fellowships 2005-2006

The Language of Victimization

In 2005-06, the Pembroke Seminar will consider the multiple languages used to fashion the image and meaning of victimization in different historical and cultural contexts. We will presume that victimization means the violation of human dignity by the state or by extra-legal groups and explore why critics, policy makers, intellectuals, and historians legitimate the experiences of some victims more than others.

Fellowships are open to scholars from all disciplines. Recipients may not hold a tenured position in an American college or university. Preference will be given to projects in which there is significant scholarly and theoretical attention given to the theme of the seminar.

This is a residential fellowship. The term of appointment is September 1, 2005-May 31, 2006. The stipend is \$35,000, plus health insurance unless otherwise covered. The deadline for applications is **December 10, 2004**.

For application forms contact Elizabeth Barboza:

Phone: 401-863-2643

Email: Elizabeth_Barboza@brown.edu.

American Antiquarian Society 2005-2006 Research Fellowship Program

The American Antiquarian Society (AAS), in order to encourage imaginative and productive research in its unparalleled library collections of American history and culture through 1876, will award to qualified scholars a number of short- and long-term

visiting research fellowships during the year June 1, 2005-May 31, 2006. Several categories of awards are offered for short-and long-term scholarly research at AAS. Funding is available from the National Endowment for the Humanities for four to twelve months' residence at the Society, while other categories provide one to three months' support. At least three AAS-NEH fellowships will be awarded, together with some twenty short-term awards.

The deadline for receipt of completed applications, including letter of recommendation, is January 15, 2005. Further information about these fellowship programs, including full instructions and downloadable application packets, are available on the Society's web page at:

www.americanantiquarian.org.

Interested parties may also contact the Society by telephoning 508-755-5221, by emailing academicfellowships@mwa.org, or by writing to American Antiquarian Society, 185 Salisbury Street, Worcester, MA 01609-1634.

Dean's Fellowship in the History of Home Economics and Human Nutrition

The College of Human Ecology, Cornell University, is seeking applications for the year 2005 Dean's Fellowship in the History of Home Economics and Human Nutrition. Preference will be given to scholars in more advanced stages of a research project but younger scholars are encouraged to apply. One award of \$4,000 is available for a summer or sabbatical residency of six continuous weeks to utilize the resources available from the College and the Cornell Library System in pursuit of scholarly research into the history of home economics and its impact on American society. Deadline: March 1. See www.human.cornell.edu/history for details.

CALL FOR DIBNER AWARD 2005 NOMINATIONS

The Society for the History of Technology invites nominations for its Dibner Award, established in 1985 to recognize excellence in museums and museum exhibits that interpret the history of technology, industry, and engineering to the general public. Winning exhibits, in addition to being well designed and produced, should raise pertinent historical issues. Artifacts and images should be used in a manner that interests, teaches, and stimulates both the general public and historians.

The winners will be announced at the Society's Annual Meeting in Minneapolis, November 3-6, 2005. The Award consists of a plaque and up to \$1000.00 to cover expenses for a member of the design team to accept the award at the SHOT awards banquet. The Society especially encourages nominations from local and regional historical societies. "Virtual" exhibits are not eligible for the award.

Anyone, including the institution or individual responsible for its creation, may nominate an exhibit for the Dibner Award. Exhibits should be currently on view and have opened within the past two years. Nominations should include a nomination form with names of possible reviewers (not affiliated with the development of the exhibit) and materials that will assist the committee in evaluating the exhibition (exhibit script, related publications, videotape, photographs, educational materials and website address). All materials sent will be kept by SHOT for archival purposes.

The deadline for nominations for the 2005 award is February 1, 2005. For nomination forms and further information, please see the SHOT website at: <http://www.shot.jhu.edu/Awards/dibner.htm>

The SHOT *Newsletter* is your newsletter and a way to make contact with other members of the organization. We are happy to publish items of interest and news of members provided the information is received in our office by the 1st of the month prior to the publication month.

Also, please check the SHOT website for updates and important information related to conferences, paper calls, annual meetings and employment opportunities.

SHOT Internationalization

Arne Kaijser

SHOT has for a long time had an ambition to become more international (less US-biased) in its character and activities. For example, since 1992, the Annual meeting takes place outside North America every 4th year, Technology & Culture has a growing number of non-US authors (an average of 40% over the past 4 years) and a growing number of non-US members are active in SHOT's various committees. Until now, it is primarily scholars from Western Europe that have become more active within SHOT. However, the membership of the Society is still heavily US-dominated. No less than 78 % of the present members are US citizens.

At its spring meeting in 2004 the Executive Council appointed an Ad Hoc Committee on International Development Opportunities, consisting of Daryl Hafter, Arne Kaijser (chair), Steve Usselman and Tom Zeller. The purpose of this Committee is not primarily to make SHOT grow for its own sake, but to develop greater consciousness within the Society of the history of technology in the world context. The EC believes

that a more active participation in the Society's activities by scholars from other parts of the world will help ensure the intellectual vitality of our field. There are obviously a number of obstacles, not least of a financial kind, for scholars from other parts of the world to participate in the Annual Meeting and other activities organized by SHOT. In order to discuss how such obstacles could be tackled and if new kinds of activities could be initiated, the Ad Hoc Committee organized a lunch meeting during the Annual meeting in Amsterdam. The focus was on two regions, Eastern and Central Europe and Southern Africa.

The purpose of the meeting was to discuss the following issues:

- The present situation for the history of technology in the two regions: What environments and individuals are carrying out research and/or teaching? What kinds of topics are being researched?
- Is there cooperation between historians of technology within single countries or within the region? Are there any organizations for this? Is there cooperation with scholars from other parts of the world? Are there obstacles for cooperation, and if so what kind of obstacles?
- How could more scholars from these regions be engaged in SHOT's activities? What obstacles need to be overcome?
- Could SHOT support new kind of activities to encourage the development of history of technology in these two regions?

Altogether seventeen scholars participated in the meeting: There were four participants with good knowledge about Southern Africa: Keith Breckenridge from the University of KwaZulu Natal (Durban), Verne Harris from the University of

Witswatersrand, Clapperton Mavhunga from Zimbabwe, presently at the University of Michigan, USA, and Gabrielle Hecht also from the University

of Michigan, who spent the past year in South Africa. Furthermore there were six participants with good knowledge about Eastern and Central Europe: Dagmara Jajesniak-Quast from Poland, presently at the European University in Viadrina, Germany, Pal Germuska from the "Institute of 1956" in Budapest, Hungary, Slava Gerovitch from Russia who is at MIT, USA, Martin Micka from the National Technical Museum in Prague, Ivan Tchalakov from the Bulgarian Academy of Sciences, and Karen Freeze from the University of Washington, who is presently Coordinator for Central & Eastern Europe in the Tensions of Europe Network. In addition there were seven participants from the EC: the four members of the Ad Hoc Committee and Amy Bix, David Hounshell and Rosalind Williams.

The meeting was very informative and constructive. The participants from Southern Africa and from Eastern and Central Europe gave excellent accounts of activities going on in the history of technology and related fields in universities, academies and museums, and they also explained the various kinds of obstacles that scholars are facing when doing research, teaching or preparing exhibitions and when trying to cooperate with colleagues in other parts of the world. These presentations were followed by a fruitful discussion of possible ways for SHOT to aid in overcoming such obstacles and for increasing international exchanges.

At the end of the meeting, Rosalind Williams urged the participants from Southern Africa and from Eastern and Central Europe to prepare a proposal with suggestions for future activities that could be carried out or sponsored by SHOT. These suggestions will be discussed at the 2005 spring meeting of the Executive Council.

The Ad Hoc Committee will put together a report on internationalization opportunities for the spring meeting of the EC. We welcome all suggestions and ideas on these issues from all SHOT members. Please send such suggestions to Arne Kaijser (arne@kth.se) before January 15, 2005.

New Doctoral Program at Michigan Tech: Industrial Heritage and Archeology

In 1991, Michigan Tech launched a Masters program in Industrial Archeology, and in the years since, the program has provided a relatively unique opportunity for students to combine the history of technology and historical archeology. Indeed, only a handful of schools in the world – most notably the Ironbridge Institute in England—offer graduate degrees in this field. As one observer commented, “[A]lthough a number of U.S. institutions of higher learning offer programs of study in archeology, only Michigan Technological University offers a degree specifically in industrial archeology. MTU’s Master of Arts program stresses an interdisciplinary approach to the field that includes the study of archaeology, historic preservation, the history of technology, and anthropology.” (William Crandall, Alan Rowe, and John A. Parnell, “New Frontiers in Management Research: The Case for Industrial Archeology,” *The Coastal Business Journal* 2, no. 1 (Fall 2003): 57.) Starting in fall 2005, the Department is extending this program to the doctoral level with an interdisciplinary Ph.D. in Industrial Heritage and Archeology.

The MS and Ph.D. programs will share certain key features of the program. Above all, both seek the integration of the *history of technology* with *historical archeology* to produce a strong emphasis upon the *material culture of industry*. This approach is evident in the composition of the faculty, the structure of the curriculum, and the research undertaken. The intellectual basis of our attention to material culture can be found in the work of scholars such as Henry Glassie, Thomas Schlereth, and Kenneth Ames, but also is informed by researchers oriented to technology, including David Kingery, Patrick Malone, Robert Gordon, and Steven Lubar. A field experience is expected of all participants, but overall, the curriculum is designed to offer the maximum in flexibility. The program also hopes to maintain an international presence, both through faculty and student exchanges and through international research

opportunities. (See the Department web page, <http://www.social.mtu.edu> for more information.)

The doctoral program will give additional attention to *industrial heritage*, an emerging area of interest that is stronger in Europe at the moment, but gaining strength in the U.S. This new doctoral program seeks to educate professionals who can work across this divide between history and heritage by connecting history and archeology in ways that link sites, artifacts, and documents through extended research projects. We hope to educate such stewards for history and heritage by continuing to impress upon them the importance of multidisciplinary study. In the process, we believe we can help define heritage studies as an academic domain. Some approaches to this task are suggested by the emergence of concepts such as ecology and landscapes, which have been adapted by many social scientists because of their analytical utility. Such insights, argues IA scholar Fred Quivik in a recent article in *IA*, are especially promising for industrial archeology, as they force attention to the overall picture and away from single elements. "We can now not only illuminate how machines worked or were made but also how workers interacted with each other or their bosses, for example, based on the patterns of buildings people developed to carry out those interactions" (vol. 26, no. 2 (2000): 56). A focus on landscapes, Quivik argues, is a central lesson to be drawn from environmental historians. In the end, we believe our program offers a new research agenda for scholarship on material culture that spans the boundary between history of technology and industrial archeology, even while touching on such related fields as architectural and environmental history, historic preservation, and cultural anthropology and historical archeology.

The MS Program in Industrial Archeology has a strongly applied focus, designed to give students the tools in both historical archeology and the history of technology to succeed in future

work. Coursework includes specific practical and professional skills in addition to theoretical and intellectual content. Thesis projects are often developed in conjunction with outside sponsors, and incorporate real-world situations concerned with site identification, interpretation, preservation, and management. Our 40+ graduates since 1993 have moved successfully into professional positions in cultural resource management (CRM) and engineering consulting firm, as well as local, state, and federal historical agencies, museums, and libraries. A significant number, however, have sought further education. That interest in advanced degrees, as well as a sense of changing possibilities in the area of industrial heritage and industrial archeology, prompted the decision to launch the doctoral program in Industrial Heritage and Archeology. In a nutshell, the faculty at Michigan Tech sees an opportunity emerging for graduates with a Ph.D. who are broadly prepared to study and interpret the history of industry, technology, and work through its material culture. To meet such opportunities, the program envisions preparing graduates at both the Masters and doctoral level for both academic and non-academic careers.

Crucial resources for this program include:

A uniquely qualified faculty that includes historians and archeologists with substantial field experience; several possess international reputations in industrial archeology and the history of technology.

The Keweenaw Peninsula of upper Michigan was the center of an extensive copper mining industry from the 1840s through the 1960s. The physical remains of industry, engineering and transportation works, and workers housing are samples of the industrial heritage of the region. Within the immediate area, the Department has cooperated with two national parks and two national forests, as well as with the State of Michigan. All of this amounts to a natural laboratory for industrial archeology and heritage studies.

Michigan Tech, a mining & engineering school founded in 1885 boasts marvelous library and archival holdings for historical studies of technology, engineering, mining, and local industry. The Copper Country Historical Collection includes 7,500 books, 10,000 images, 300 rolls of microfilm; and corporate and personal records related to local history and industry, especially local copper mining.

Industrial Archeology Research Laboratory.

This Departmental facility includes space for cataloguing, curation, conservation, and preservation of artifacts, as well as pottery kilns. Lab equipment includes an array of photographic equipment and GPS hardware. The facility also provides computers and office space for IA graduate students, and includes a WiFi network to connect personal notebook computers to the University net. Included are a computer graphics facility with a mix of Macintosh and PC computers, with a color scanner, digitizing tablets, laser printers, and a plotter. The lab supports several different programs for computer assisted drafting (CAD) and ArcView for GIS analysis, a video image capture system, and create digital images from a either a low-power or polarizing microscope.

The Society for Industrial Archeology is headquartered in the Department, with Patrick Martin serving as editor and Terry Reynolds as book review editor for the Society's journal, *IA*.

Fellowships/assistantships:

All students admitted to the program are considered for this financial support. Applications must be received by March 1 to be considered for support for the ensuing academic year. Recipients of awards are notified by letter as soon as the awards are made. Most MS students receive teaching assistantships their first year and serve as research assistants in their second year. Teaching assistantships are awarded by the

department, and include a stipend plus tuition and basic computing fees. For MS students, an assistantship beginning in fall 2005 carries the estimated 9-month stipend will be \$9250. Doctoral students with assistantships beginning in fall 2005 will receive an estimated stipend of about \$10,800. Duties associated with the appointment are expected to total not more than twenty hours per week. Research assistantships, usually associated with a specific externally funded research grant or contract, are awarded by the professor supervising the research activity, in consultation with the IA graduate committee. The appointment is usually for the academic year, but may include the summer term, as well. These awards include a stipend and tuition, with stipend levels set at the same level as teaching assistantships. Department faculty has been very successful in securing such research support. Nearly 90 percent of those completing the MS program have received at least partial support in this way; nearly 70 percent of MS students were fully supported by sponsored research during their second year.

The IA program views assistantships as a means of attracting qualified and motivated students, and supporting them during their graduate studies. Currently all full-time graduate students are receiving some type of assistantship, a pattern that has held for the past several years. While we cannot guarantee future arrangements, we make a significant effort to help find financial support for successful graduate students.

We encourage inquiries and applications. To be considered for support for the fall of 2005, the applications deadline is March 1, 2005. For more information about the program, the curricula, research opportunities, application information and financial support, please visit the Department web site at <http://www.social.mtu.edu/> and follow the links to the Graduate Program page. Feel free to contact or call Bruce Seely, Department Chair; or Patrick Martin, Graduate Program Director; phone: 906/487-2113; Fax: 906/487-2468; email: bseely@mtu.edu or pemartin@mtu.edu.

International Scholar's Essay

Paulo Antonio Zappia (Argentina)

By the mid 1880s, Argentine GDP *per capita* had almost reached United States' figures. From then to 1930, magnitude of growth was so important that scholars interested in the Argentine case focused on the leading activities of this phenomenon: cattle trade and agriculture. Thus, outstanding success of the *vacas y trigo* [cows and wheat] exportation-based economy diverted economists and historians' attention away from issues related to technology. After the crisis of 1930, progressive growth of industry within national economy encouraged publication of works that discussed some technological issues: Adolfo Dorfman's *Historia de la Industria Argentina* [History of the Argentine Industry] (1942) and *Evolución industrial argentina* [Argentine industrial evolution] (1942); and Guillermo Furlong S. J.'s *Artesanos argentinos durante la dominación hispánica* [Argentine artisans during the Spanish rule] (1946).

In the next decade, a pair of valuable contributions for the knowledge of technology during the colonial period was made. On the one hand, Alberto Salas published his *Las armas de la conquista de América* [Weapons of the conquest of America] (1950), in which he went a step beyond the controversy about the real value of metallic weapons and fireguns during the Spanish conquest of the New World (including the Argentine territory), and showed the wide absorption that both sides made of the adversary's armament. On the other hand, José M. Mariluz Urquijo examined the situation of industrial technology between the end of the XVIIIth century and the beginning of the XIXth century in "Noticias sobre las industrias del Virreinato del Río de la Plata en época del Marqués de Avilés (1799-1801)" [Observations on the industries of the Viceroyalty of the River Plate in Marquis of Avilés times (1799-1801)] (1957).

In those years, historical research on technology was bound up with industrial development, but some works introduced a new approach to study the performance of national main economic activities. For example, Horacio Giberti connected success of the staple exportation model with technological advancements such as those produced in refrigeration engineering in his *Historia económica de la ganadería argentina* [Economic history of Argentine cattle-breeding] (1954). In that year, Ricardo Ortiz's *Historia Económica de la Argentina* [Economic History of Argentina] offered a descriptive picture of Argentine economic development, showing the technological gap between North Atlantic leading economies and the domestic one in each historical period. Noel Sbarra discussed in his *Historia del alambrado en Argentina* [History of the wire fence in Argentina] (1955) the early phases of the introduction of that artifact, that had an enormous influence on the reaffirmation of property rights, the rationalization of land resources and, eventually, the disappearance of the national most emblematic figure, the *gaucho*. Sbarra also studied the conditions and consequences of incorporating devices to provide water for cattle raising and agriculture in his *Historia de las aguadas y el molino* [History of the watering places and the windmill] (1961). Other works focused on technological issues related to primary activities as Alfredo Montoya's *Historia de los saladeros argentinos* [History of the Argentine salting houses] (1956) and *La ganadería y la industria de salazón de carnes en el período 1810-1862* [Cattle-breeding and meat-salting industry in the period 1810-1862] (1971). In both cases, Montoya described the technological progress of meat-salting houses, the main industrial activity in the country before refrigerator ships and cold-storage plants.

Notwithstanding those efforts, research on procedures, machines or their influence was still carried on considering technology just an element within economic history. Moreover, those works shared a clear descriptive profile. The work that *ex profeso* showed the interaction between culture and technology as a relevant object of study and

founded the discipline among us was José M. Mariluz Urquijo's article "*El Capital y la Técnica en la industria porteña 1810-1835*" [Capital and technics in the Buenos Airean industry 1810-1835] (1965). This was the first time in which the technological evolution of a particular area in Argentina was specifically linked to patterns of investment, social behaviour, governmental regulation and other cultural elements. Furthermore, this work, as well as the later "*La Industria molinera porteña a mediados del siglo XIX*" [Buenos Airean milling industry in the middle of the nineteenth century] (1966), dealt with the introduction of the steam engine in the country, its incentives and problems. In consequence, constraints for technological change could be identified from a complex that included superabundance of land and cattle reserves, scarcity of endogenous capital, skilled labor and encouraging regulation. Those articles and, in the late sixties, the volume *Estado e Industria, 1810-1862* [State and Industry, 1810-1862] (1969) laid the basis to promote a scientific discussion on technology in Argentina since its emancipation. Nevertheless, this promising work found no followers in the next decades.

Recently, papers like Carlos Storni's "*El derecho rural y los precursores de la tecnología agraria argentina*" [Rural law and pioneers of Argentine agrarian technology] (2001) and Paulo Zappia's "*La regulación de los privilegios industriales en Buenos Aires (1840-1845)*" [Regulation of industrial privileges in Buenos Aires (1840-1845)] (2001) and "*Fundamentos de la ley de privilegios de invención de 1841*" [Foundations of the invention privileges act of 1841] (2003) explored the profitability of an approach that gathers pertinent elements of analysis from history of law to understand legal conditions for technological enhancement and economic progress. Moreover, some of Mariluz Urquijo's founding articles have been arranged and expanded by his author in a single volume under the title *La industria sombrerera porteña, 1780-1835* [The Buenos Airean hat-maker industry, 1780-1835] (2002).

History of technology is still considered in Argentina just a specific field within economic history, but it is expected that some individuals' endeavour could lead us to develop a community of scholars in the next years. As Argentina has a strong tradition in history of law, research on interaction between legal framework and technological change can particularly help to promote more studies on technology and our past.

Paulo Antonio Zappia is a graduate student at Universidad del Salvador (Buenos Aires) and, as auxiliary professor, teaches *Contemporary History of Latin America* (at Universidad del Salvador) and *Contemporary Economic History* (at Pontificia Universidad Católica Argentina).

***IT'S TIME
TO START
MAKING PLANS TO
ATTEND
THE ANNUAL MEETING!***

**MINNEAPOLIS
NOVEMBER 3-6, 2005**

**LAS VEGAS
OCTOBER 12-16, 2006**

***CHECK THE SHOT WEBSITE
FOR DETAILS***

EMPLOYMENT

UNIVERSITY OF CALIFORNIA AT DAVIS

The University of California at Davis seeks to appoint a Director of the Science and Technology Studies Program, with a joint appointment in Anthropology, Economics, History, Philosophy, Political Science, Sociology or Psychology. Tenured associate or full professor, beginning Fall 2005. Duties include directing the interdisciplinary program in Science and Technology Studies, including program development and guiding the transition from an existing program in History and Philosophy of Science to an STS program with undergraduate major. Other duties include research, teaching, and service in STS Program and department. Teaching is based on a standard faculty load of four one-quarter courses per year, which will be reduced for administrative service as STS Director. The appointee must have Ph.D. and have a record of strong scholarly and teaching accomplishments in some field of social, historical or philosophical studies of the natural or social sciences, medicine, technology, or engineering.

The STS Program at the University of California at Davis has involved participation by members of the Philosophy, History, Sociology, Anthropology, and other departments in the social sciences and humanities, as well as faculty and students in the natural sciences.

Minority and women candidates are especially encouraged to apply.
EO/AEE.

In order to receive full consideration, send a letter expressing interest and current CV by December 1, 2004 to Professor Joan Cadden, Search committee Chair, Science and Technology Studies Program, University of California, One Shields Avenue, Davis, CA 95616-8673, USA. TEL: 530/752-2224, FAX: 530/752-3156, e-mail: jcadden@ucdavis.edu. The position will remain open until filled. Address informal, confidential inquiries to the Search Committee Chair. Address administrative questions to Lesley Byrns (Office Manager): 530/752-1291; FAX: 530/752-3156; E-mail: labyrns@ucdavis.edu.

DISSERTATION/THESIS HELP

Let freelance editing pro for univ. presses ease the pain of diss/thesis writing. Work by phone or email. 941-795-2779 or email pollyk1@msn.com.
We might even have fun!

Hixon-Riggs Visiting Professor in Science, Technology, and Society at Harvey Mudd College

The Hixon Forum of Harvey Mudd College is pleased to announce a search for the 2005-2006 Hixon-Riggs Visiting Professor. We seek a scholar at any rank who has a demonstrated interest in the relationship of science and technology to issues of gender and/or ethnicity. We also invite inquiries from scholars with other emphases in STS who might be interested in visiting in the future.

The Hixon-Riggs Visiting Professor will teach in her/his special area of expertise, play a mentorship role in the college's Hixon Forum for Responsive Technology, give occasional public lectures or presentations, and may organize a conference or program on a topic of current interest. The appointment may be either for a semester or for a full academic year, and its terms are negotiable. The Professorship resides in the Department of Humanities and Social Sciences. The Hixon Forum Web Site is at www.hixon.hmc.edu.

Harvey Mudd College, a highly selective member of the Claremont Colleges, is one of the nation's premier undergraduate institutions specializing in science, mathematics, and engineering; and the Hixon Forum is closely associated with the STS Program of the Claremont Colleges. Harvey Mudd College is actively concerned with fostering diversity in its faculty, staff, and student body, and welcomes applications from women and under represented minorities.

Please address inquiries or nominations to Professor Richard Olson, The Hixon Forum, Harvey Mudd College, 301 East 12th Street, Claremont CA 91711 or to olson@hmc.edu

REMINDER**TO ALL SHOT MEMBERS—**

Please take a minute to double-check that your contact information in the shot online members' database is accurate and up-to-date. You can find the database on the SHOT website at:
<http://shot.jhu.edu/cgi-bin/shotmem.cgi>

THANK YOU VERY MUCH!!

HISTORICAL ELECTRONICS MUSEUM

The Historical Electronics Museum seeks an experienced and energetic candidate for the position of Director. The applicant must have proven ability in management and administration of a small museum. Responsibilities include coordinating staff/volunteers and day-to-day operations. Specifically the individual will manage fund raising, marketing and publicity, exhibit research and design, educational programming, special events, and membership. Successful candidates will have strong management, communication, organization, relationship building, and grant writing skills and experience. Bachelor's degree required; M.A. or three years' work experience preferred. A background in the history of science/technology is desirable.

Please send a cover letter, resume, and three references to: Sam Jha, Analex Corporation, 10480 Little Patuxent Parkway, Suite 400, Columbia, MD 21044.
Phone: 410-740-3026, fax: 410-740-5160
Email: Sam.Jha@analex.com
Historical Electronics Museum
1745 West Nursery Road, Linthicum, MD 21090
www.hem-usa.org.

The Department of the History and Sociology of Science at the University of Pennsylvania invites applications for a tenure-track assistant professorship in the history of science, to begin 1 July 2005. The PhD or its equivalent is required. Area of specialization is open, but we are particularly interested in scholars whose work is in the history of the physical sciences, or the environmental sciences, or non-Western science. Methodological breadth and a demonstrated commitment to teaching are expected. The successful candidate will play a crucial role in the continuing development of our graduate and undergraduate programs.

Please send a current curriculum vitae and a cover letter to Ms. Pat Johnson, History and Sociology of Science, University of Pennsylvania, 349 S. 36th St., Philadelphia, PA 19104. Three letters of recommendation are also required; these can come separately or can be enclosed with the other application materials. We will begin reading applications on October 15, 2004 and will continue until the position is filled. The University of Pennsylvania is an equal opportunity/affirmative action employer. Women and members of minority groups are encouraged to apply.

CONFERENCES**Business History Conference Prizes, 2004**

The following awards were announced at the June 17-19, 2004 annual meeting of the Business History Conference (BHC) in Le Creusot, France. The BHC is the largest professional organization of business historians in the world.

Lifetime Achievement Award

Mira Wilkins, Florida International University

Harold Williamson Prize for achievement by a mid-career scholar

Steven Usselman, Georgia Institute of Technology

Hagley Prize for the best book in business history

Jennifer Klein, Yale University, *For All These Rights: Business, Labor, and the Shaping of America's Public-Private Welfare State* (Princeton University Press, 2003).

Herman E. Krooss Prize for the best dissertation in business history

Tiffany Gill, University of Texas at Austin, "Civic Beauty: Beauty Culturists and the Politics of African American Female Entrepreneurship, 1900-1965," (Rutgers University, 2003).

Newcomen Prize for the Best Paper in the 2003 volume of *Enterprise & Society*

John Smail, "The Culture of Credit in Eighteenth-Century Commerce: The English Textile Industry," *Enterprise & Society* Vol. 4, No. 2 (June 2003), 299-325.

K. Austin Kerr Prize for the best first paper presented to a BHC meeting

Hyungsub Choi, Johns Hopkins University, "Between Research and Production: Making Transistors at RCA, 1948-1960."

Ellen Hartigan-O'Connor, San Jose State University, "The Ties that Buy: Shopping Networks of the Atlantic World."

For more information contact:

Dr. Roger Horowitz
Secretary-Treasurer
Business History Conference
P.O. Box 3630

Wilmington, DE 19807
Phone: 302-658-2400
Email: rh@udel.edu

OTHER NEWS

AVISTA, the Association Villard de Honnecourt for the Interdisciplinary Study of Science, Technology, and Art, seeks shorter contributions on the history of science, technology, or medicine for its annual publication, the AVISTA Forum Journal (AFJ). Our focus is medieval technology and science and technology, including the history of architecture, art history, archaeology, numismatics, medicine and other material culture from a technical or scientific point of view. AFJ publishes shorter essays of 1000-2500 words in length, following the Chicago Manual of Style. If you feel you are working in the wider legacy of Lynn White, Jr., Jean Gimpel, or Bertrand Gille, then we would like to hear about what you are working on.

Essays from new scholars, graduate students are also encouraged, as are shorter source documents and commentaries. Authors retain copyright and are most welcome to use AFJ to establish priority of a discovery and then expand their work for republication elsewhere.

Visit www.avista.org/PUBS/afj.html for more information, or send contributions or inquires to the AFJ editor, Anne van Arsdall, Ph.D. (Univ. of New Mexico), 209 Solano SE, Albuquerque, NM 87108 or email her at afj@avista.org. We are happy to discuss possible submissions.

RECENT PUBLICATIONS

The University of Massachusetts Press is pleased to announce the publication of **Eric Jay Dolin's "Political Waters: The Long, Dirty, Contentious, Incredibly Expensive but Eventually Triumphant History of Boston Harbor—A Unique Environmental Success Story."** The book is available in a \$34.95 hardbound edition.

Announcing "Addressing the World: National Identity and Internet Country Code Domains"
By Erica Schlesinger Wass (Rowman & Littlefield, 2003).

Few people think of an Internet domain name like .us or .in as anything other than an address--when, in fact, it often serves as a roadmap to national identities and priorities. *Addressing the World* looks behind eleven of the 240 global domain names, from the United States and Australia to Moldova and East Timor, highlighting both the technology and the larger social constructs that make each distinct. Stories and first-person accounts by activists, journalists, Internet administrators, lawyers, and academics examine the sociological, historical, political, and technological development of Internet country code top-level domains (ccTLDs). *Addressing the World* reveals that technology is not just science and domain names are not just practical--they are an entryway into cultural education and understanding.

SUMMER WRITING WORKSHOP

Rosalind Williams

SHOT Summer Writing and Publication Workshop

The first—and we hope not the last--SHOT summer writing and publication workshop was held on Cape Cod, Massachusetts, from June 12-18, 2004. Eleven SHOT members, working with three different instructors, gathered for five intensive days of collective editing of their own writing (in the world of writing instruction, this is what “workshopping” means), discussions of writing style and process, and, in the evenings, conversations with guests from non-academic publishing. The workshop was supported jointly by SHOT and by the National Science Foundation.

Judging from comments at the time and subsequent feedback from the participants, the

workshop was a great success. One ingredient of that success was the physical environment. The Cape was in its full midsummer glory (“What is so rare as a day in June?”), and the workshop location, at the Jonsson Center of the National Academy of Sciences, a large turn-of-the-last-century house overlooking Buzzard’s Bay, near the village of Woods Hole, was spectacular. The staff of the Jonsson Center provided a seemingly endless stream of excellent food and beverages, beginning with a clambake on the first night.

But there were also more serious and intellectual reasons for the success of this event. It addressed a critical and largely unfulfilled need in the education of junior scholars: focused attention to writing for publication in a variety of formats, and early attention to needs and opportunities for scholar-writers to communicate with the larger public. Furthermore, the workshop encouraged a survey of high-level issues in the field and promoted extra-institutional ties and broad perspectives among historians of technology.

Participants

The first call for applications was distributed over the SHOT website and in the SHOT Newsletter in November 2003, with a deadline of January 1, 2004, later extended to February 1, 2004. Applications were reviewed and admissions decision made by an ad hoc subcommittee charged by SHOT president David Hounshell with responsibility for organizing the workshop: Janet Abbate, Arne Kaijser, John Staudenmaier, and myself. Twelve SHOT members were invited to participate, of whom eleven were eventually able to do so:

Gwen Bingle, Ph.D. Candidate
Munich Centre for the History of Science and
Technology
Technische Universitat Munchen

Kevin Borg, Assistant Professor
Department of History
James Madison University

Vera S. Candiani, Ph.D. Candidate
UC Berkeley – History

Maja Fjaestad, M.Sc. and Ph.D. Candidate
Dept. of History of Science and Technology
Royal Institute of Technology, Stockholm

Maril Hazlett, Ph.D., Independent Scholar
University of Kansas

Per Hogselius, Ph.D. Candidate
Division of Innovation
Lund Institute of Technology

Anders Houlitz, Ph.D.
Dept. for the History of Science and Technology
Royal Institute of Technology, Stockholm

Helen Watkins, Ph.D. Candidate
Department of Geography
University of British Columbia

Matt Wisnioski, Ph.D. Candidate
Program in History of Science
Princeton University

Timothy S. Wolters, Ph.D.
Ramsey Post-Doctoral Fellow
Smithsonian National Air & Space Museum

Shana Worthen, Ph.D. Candidate
Institute for the History and Philosophy of
Science and Technology
University of Toronto

The pool ended up being remarkably balanced. Of the twelve people admitted, half were male and half female; half graduate students and half junior scholars; half affiliated with US institutions and half with non-US institutions.

Staffing

Tom Jehn, Associate Director of Harvard University's Expository Writing Program, was recruited to oversee the teaching agenda. Kris Kipp, administrative staff member with the

Program in Science, Technology, and Society at MIT, was recruited as the event manager. Finally, John Staudenmaier agreed to teach for the first three days of the workshop (before he had to return to administrative duties at his home institution). Larry Cohen (former editor in chief of The MIT Press) and I share co-teaching responsibilities for the last two days of the workshop.

In addition, science and technology journalists from the Boston area were invited to join the workshop for informal discussions of needs and opportunities for historians of technology in writing for less specialized audiences:

- Bob Buderer (former editor and now staff member of *Technology Review*)
- Ellen Ruppel Shell (science journalist and co-director of Boston University's Science Journalism Program)
- Boyce Rensberger (science journalist and Director of MIT's Knight Science Journalism Fellows Program)
- Tom Regan (who heads on-line publication for *The Christian Science Monitor*)

The success of the workshop is primarily due to the ability of the participants, teachers, and guests to work together so well.

Agenda

Most of the workshop sessions ran from breakfast time (served at the Jonsson Center) through a late lunch. Afternoons were used independently by participants to prepare for the next day's workshop and when possible for additional writing. Most of the workshops focused on student writing, while two sessions were focused on an analysis of a sample *Technology and Culture* submission, organized by John Staudenmaier. Around 5:30 PM the group gathered again to discuss non-academic publishing, followed by dinner either as a group or independently.

Participants were asked to provide open-ended feedback (no forms, just a general list of topics they

might want to mention). Here are some typical comments:

- “I would like to reiterate how fortunate I felt to be part of such an exciting and effective venture! Thank you again for your generous material, organizational, and intellectual support.”
- “It was a joy and a privilege to participate in the inaugural SHOT Writing and Publication Workshop. It was extremely well organized, the food and accommodations were terrific, and everyone involved demonstrated the combination of intellectual curiosity and human compassion that has become a hallmark of SHOT.”
- “I found the workshop invaluable. I would urge other associations of historians to create similar workshops for advanced students and new PhDs in their fields.
- It’s a FANTASTIC initiative: great people, extremely helpful and encouraging feedback, some wonderful personal and professional connections and, despite the hard work, really fun too. It was a really inspiring week and I’m very glad to have the chance to be a part of it.”
- “I now feel prepared in the holistic sense of being a SCHOLAR—one who can write for both academic and more popular audiences.”
- “The whole event was somehow so inspiring that on the journey back home I was playing in my thoughts with a hundred ideas for articles and books to be written!”

(And, on a somewhat less serious note: “I will always remember my fellows scholar dressed in bibs [for the clambake], or discussing politics on a

foggy night at the pirate bar [the Captain Kidd, a Woods Hole institution].

Where We Go From Here

The basic model of the workshop seems robust and effective. In early discussions in the ad hoc subcommittee, we were uncertain whether to define this workshop as one for junior scholars preparing to write for academic publication, or for scholars wanting to broaden their writing for a more general audience. This turns out to be a non-issue. If this group of participants is at all representative (and we have every reason to think that it is), most scholars want to do both. Improving their writing for a scholarly audience simultaneously and inevitably improves their ability to communicate with a general audience. Developing their awareness of the range of audiences at a relatively early stage of their careers seems an excellent investment both for SHOT.

We were not expecting, but were gratified by, the number of applications from younger scholars for whom English is not their first language. Many of them want to develop their skills further so they can publish widely and easily in English. If this trend continues, workshop organizers might want to invite journalist-guests who can answer questions about English publication for non-US scholars. Holding the workshop in Europe is also a possibility, again depending on how applications evolve in the future.

The total cost of the workshop was about \$32,000, of which SHOT contributed somewhat less than \$20,000, with the balance being supported by a grant from the National Science Foundation. While some costs of the workshop might be trimmed by holding it in a less expensive location than Cape Cod in the summer, other costs, especially for instructors and guests, were minimized because people were willing and able to come **pro bono**. (A chance to visit Cape Cod in June is a huge draw.)

Back row, left to right:

Kevin Borg, Assistant Professor, James Madison University, Department of History; Thomas Jehn, Assistant Director of the Harvard Writing Project, Expository Writing Program, Harvard University (Master teacher for the SHOT Writing and Publication Workshop).

Second to the back row, left to right:

Vera Candiani, Ph.D. Candidate, UC Berkeley, History; Matt Wisnioski, Ph.D. Candidate, Princeton University, Program in History of Science; Kevin Borg, Assistant Professor, James Madison University, Department of History; Per Hogselius, Ph.D. Candidate, Lund Institute of Technology, Lund University, Stockholm, Sweden; Helen Watkins, Ph.D. Candidate, University of British Columbia, Department of Geography.

Second row from the front:

Gwen Bingle, Ph.D. Candidate, Technische Universitt Mnchen, Munich Centre for the History of Science and Technology, Munich, Germany; Kris Kipp, Project Manager, Program in Science, Technology, and Society, MIT; Maril Hazlett, Ph.D., Independent Scholar, University of Kansas

Front row, left to right:

Anders Houltz, Ph.D., Researcher and Teacher, Royal Institute of Technology, Stockholm, Sweden; Shana Worthen, Ph.D. Candidate, University of Toronto, Institute for the History and Philosophy of Science and Technology, Toronto; Rosalind Williams (many titles!); Maja Fjaestad, M.Sc., Ph.D. Candidate, Royal Institute of Technology, Department of History of Science and Technology, Stockholm, Sweden



Back row, left to right:

Vera Candiani, Ph.D. Candidate, UC Berkeley, History; Matt Wisnioski, Ph.D. Candidate, Princeton University, Program in History of Science; Kevin Borg, Assistant Professor, James Madison University, Department of History; Per Hogselius, Ph.D. Candidate, Lund Institute of Technology, Lund University, Stockholm, Sweden; Helen Watkins, Ph.D. Candidate, University of British Columbia, Department of Geography; Maril Hazlett, Ph.D., Independent Scholar, University of Kansas

Front row, left to right:

Anders Houlitz, Ph.D., Researcher and Teacher, Royal Institute of Technology, Stockholm, Sweden; Shana Worthen, Ph.D. Candidate, University of Toronto, Institute for the History and Philosophy of Science and Technology, Toronto; Gwen Bingle, Ph.D. Candidate, Technische Universitate Muchen, Munich Centre for the History of Science and Technology, Munich, Germany; Timothy Wolters, Ph.D. Ramsey Post-Doctoral Fellow, Smithsonian National Air & Space Museum; Maja Fjaestad, M.Sc., Ph.D. Candidate, Royal Institute of Technology, Department of History of Science and Technology, Stockholm, Sweden



In creating this workshop, SHOT has invented a low-cost, effective, attractive way to fulfill a significant need in the profession through meaningful intervention in the careers of promising young scholars. The ad hoc subcommittee has submitted the following recommendations to the SHOT Executive Council:

- SHOT should make every effort to offer the summer writing and publication workshop on an annual basis
- In order to fine-tune the format and organization of the workshop, without changing too many variables at once, the workshop should be offered for another year in the same location
- After 2005, other locations should be considered, notably in southeast Michigan, if this would be welcomed by the consortium of institutions supporting T&C

The subcommittee and the Executive Council would welcome comments on these proposals, and also suggestions for securing regular funding for the workshop.

I would like to conclude by offering personal thanks to members of the ad hoc committee; SHOT leadership and EC members; Tom Jehn; the staff at the Jonsson Center, and Sandee at the Sleepy Hollow Motel, which provided lodging for participants; fellow teachers John Staudenmaier and Larry Cohen; colleagues Bob Buder, Ellen Shell, Boyce Rensberger, and Tom Regan; Deb Fairchild and especially Kris Kipp for staff support; and the eleven participants who showed what intellectual collegiality is all about.

PRESIDENT'S MESSAGE

David Hounshell

In this, my last newsletter column as your president, I have two points to discuss, which I hope all members of SHOT will both take note of and take action on.

The annual meeting in Amsterdam provided an excellent setting for the announcement of a new prize approved by the Executive Council at its meeting last May—the Eugene S. Ferguson Prize for Outstanding Reference Work. This prize recognizes non-monographic tools that will support future scholarship in the history of technology in the tradition of scholarly excellence established by Eugene S. Ferguson (1916-2004), SHOT's pioneering bibliographer, founding member, eleventh president, and Leonardo da Vinci Medalist. In addition to producing monographic works in the history of technology, as a museum curator Eugene Ferguson wrote exhibit catalogues, produced editions of works that he believed had value to historians of technology, such as *The Engineering Reminiscences (1915-1840) of George Escot Sellers*, and provided critical technical annotations to reprinted works in the history of technology. Such work was crucial not only to Gene Ferguson's development as a historian of technology but also to the growth of SHOT and the history of technology as a field of study. Recognition of the contribution to our field of these kinds of work is long overdue, so I am especially pleased that Gene's family, former students, colleagues, and friends donated the money necessary to get the Ferguson Prize off the ground as a fitting memorial to the man and his work. I would simply ask each SHOT member to do three things: First, visit the SHOT website and check out the details of the Ferguson Prize. Second, nominate works that you consider to be worthy of consideration for the Ferguson Prize. Third, if you have benefited from Gene Ferguson's *Bibliography of the History of Technology* or any other reference work he produced; if you ever received encouragement from him for your own work; or if

you have simply benefited from some other scholar's or museum curator's reference work in the history of technology (be that bibliography, critical edition, exhibit catalogue, or web site), please join the more than two dozen individuals who donated money to establish this prize and contribute to the Ferguson Prize Fund. SHOT's Executive Council seeks to make this prize fully sustainable through its endowment. We have a little way to go in this regard, so your contribution will make a big difference.

Second point: At the risk of my sounding like Chicken Little, mark my words that someday in the not-to-distant future, SHOT will face a financial crisis in trying to sustain a sufficiently funded Editorial Office for *Technology and Culture*. We have just dodged a bullet in that the Henry Ford, the University of Detroit Mercy, and the University of Michigan at Dearborn have teamed together to fund John Staudenmaier, Joe Schultz, and the Editorial Office for another term. (Many thanks to John for steering this Memorandum of Understanding to a successful outcome, and many, many thanks to this Southeastern Michigan Consortium that values the history of technology enough to put a lot of money into our Editorial Office.) These kudos notwithstanding, I am sufficiently aware of the funding environment in universities and non-profit organizations these days to say that it is unlikely that SHOT will be able to secure the level of funding for the *T&C* Editorial Office in the future that it currently enjoys and that has sustained the journal since its birth. My bottom line is that we—all members of SHOT—cannot take our eyes off the need to build an endowment for the editorship of *T&C*. The Executive Committee continues to make the Editorial Endowment its number one priority. Thus, I ask you, when you renew your membership or right now, please remember how important this journal and this society has been to you. Donate. Be generous. Check the box on the renewal form to donate, or write a check. SHOT now has a member-approved investment policy that will keep every cent donated to the Editorial

Endowment dedicated solely to this purpose, and these monies are managed separately from other SHOT funds.

It has been a great honor and my distinct pleasure to serve as an officer of the Society for the History of Technology and to work closely with my successors and with all the members of the Executive Council, all committee chairs and members, and members at large. I sincerely thank you.

Send your checks to the Ferguson Prize Fund and the Editorial Endowment to Richard Hirsh, Treasurer, Society for the History of Technology, 3009 Stradford Lane, Blacksburg, VA 24060-8176.

CALLS FOR PAPERS

15th Conference of the Canadian Science and Technology Historical Association at the Canada Science and Technology Museum, Ottawa, 29 September – 2 October 2005

For the third time in its history, the Canadian Science and Technology Historical Association (CSTHA) will break with tradition and hold its "Kingston Conference" in Ottawa in 2005. The conference will take place at the Canada Science and Technology Museum. To take advantage of the opportunity offered by the host Museum, a day of meetings and museum-based activities will be added to the standard program. As always, the program committee will take into consideration general subjects relating to the history of science and technology in Canada.

Since it was founded in 1980, the CSTHA has not often had the opportunity to discuss the role of museums in preserving and sharing Canada's scientific and technological heritage. We look forward to discussing this subject with our Canadian colleagues and benefiting from the input of our American and European counterparts.

We would like to discuss the following subjects this year:

1. Canada's scientific and technological heritage

Preserving material history

- Defining Canadian science and technology
- Preserving contemporary science and technology
- Preserving industrial technology
- Museums of science and technology: collections and history
- Preserving scientific and technological history at other museums and national sites
- Researchers' access to collections

Interpreting scientific and technological history

- Exhibits and programming: challenges and constraints
- Static exhibit or demonstration
- Limits of material artifacts for interpretation
- Research and publications

2. World Year of Physics – 2005

www.wyp2005.org.

Next year will be the hundredth anniversary of the publication of three major articles by Albert Einstein. To commemorate this event, we invite participants to submit proposals concerning the history of physics.

3. Other subjects relating to the history of science and technology

We also encourage you to organize sessions with other colleagues.

Proposals must include a title, summary (75 to 100 words) and brief curriculum vitae. Abstracts and papers may be in either French or English.

Please submit proposals to the following address by May 2, 2005:

Suzanne Beauvais
Canada Science and Technology Museum
2380 Lancaster Road

P.O. Box 9724, Station T

Ottawa ON K1G 5A3

Phone: 613- 991-1429 Fax: 613-990-3636

Email: CSTHA-AHSTC 2005@technomuses.ca.

Program committee members for the 2005 conference are:

Suzanne Beauvais (Canada Science and Technology Museum),

Richard Jarrell (York University),

Eda Kranakis (University of Ottawa),

Richard White (Toronto).

2005 MEPHISTOS CONFERENCE

Mephistos is an international graduate student conference in the History, Philosophy, and Sociology of Science, Technology and Medicine. The purpose of the conference is to stimulate open discussion among graduate students. The graduate community at Brown University, in association with the Committee on Science & Technology Studies, is proud to host the twenty-third annual edition of the event, which will be held on **March 5-6, 2005**.

The 2005 Mephistos Organizing Committee welcomes proposals for individual papers from graduate students interested in the topics named above and/or the interdisciplinary field of Science & Technology Studies (STS). Please submit all of the following by email to Tanya Sheehan, Chair of the Organizing Committee at mephistos@brown.edu:

- Cover letter including your name, institutional affiliation (department and college/university), title of proposed paper, complete mailing address, and telephone number(s)
- One-page abstract of the proposed paper (200-300 words—MS Word attachment preferred)
- Curriculum vitae (no more than 3 pages—MS Word attachment preferred)

Only complete submissions received by **December 1, 2004** will be considered. Letters of acceptance will be emailed to applicants no later than January 1, 2005. Please keep in mind that Mephistos conference papers are expected to be formal presentations of 20 minutes in length. The 2005 Organizing Committee plans to continue the conference's long tradition of providing modest travel grants to each of the conference speakers.

For further information, please consult the conference website:

<http://www.brown.edu/Students/Mephistos/> or contact: mephistos@brown.edu.

"Imaging NanoSpace - Bildwelten der Nanoforschung"
Center for Interdisciplinary Research,
Universität Bielefeld, Germany
May 11 - 14, 2005

Images and the power of image making are defining the field of nanoscience and nanotechnology. This is reflected in the founding myths of the field (which is said to have begun with STM and AFM microscope) and its popular representations that feature dramatic molecular landscapes, visionary devices, or the manipulation of molecules. Much of nanoscale research practice revolves around the creation and interpretation of images.

The workshop will focus on the specific characteristics of images as visual representations. It considers the whole range of images - from microscopy and simulation to popular culture. Scientists from the fields of STS, art theory and history, cultural studies, communication studies, and history and philosophy of science are invited to contribute. The full call for papers takes the form of an internet-exhibition at the following website: www.ifs.tu-darmstadt.de/phil/NanoSpace

This virtual gallery features 14 families of images. These are supposed to serve as a starting point

and common referent for the talks and workshop discussions. While contributors are therefore asked to relate their proposals to one or more of these 14 families, they are not restricted to the images in the web gallery but invited to expand the pool.

Please send a 200 to 500-word abstract in the form of a word-document by December 1, 2004 to: jochen.hennig@staff.hu-berlin.de (Jochen Hennig, Helmholtz Zentrum für Kulturtechnik, Humboldt University, Unter den Linden 6, 10099 Berlin, Germany). Please indicate the families of images from the web gallery that your proposal is relating to. The conference language is English; a publication is planned.

The workshop organizers are Prof. Horst Bredekamp (History of Art, HU Berlin), Jochen Hennig (History of Science, HU Berlin), and Prof. Alfred Nordmann (Philosophy, TU Darmstadt). The programming committee also includes Andreas Lösch and Joachim Schummer (Sociology, History and Philosophy of Chemistry, TU Darmstadt), Chris Robinson and Davis Baird (Art, Philosophy, University of South Carolina). For further information please contact: jochen.hennig@staff.hu-berlin.de or nordmann@phil.tu-darmstadt.de.

The 4th Conference International Water History Association in Paris, France, 1-4 Dec 2005

Water and Civilization

The conference, which is part of the IWHA/UNESCO project to publish an eight-volume series on "Water and Civilization" will address diverse topics related to water and history. The broader objective of the conference is to bring together scholars and practitioners from different disciplines and different countries to increase understanding of the role of water in history and development. The conference will help develop the theoretical and methodological quality of water history as a research field.

The event is organized around the following main themes and aspects:

1. The Control of Water. This session could include papers on all aspects of the relationship between water landscapes and forms of water control, social organization and forms of water control, and technological development and water control. The aim is to set up separate sessions on the following subtopics:

- * Control of water and the first irrigation civilizations
- * Control of water and the “industrial revolution”
- * Control of water and urbanization processes
- * Comparative perspectives on the control of water

2. Water and Religion. This session seeks papers on all aspects of how particular water landscapes have shaped religious beliefs and practices, how different religions have described and perceived water, and how believers have expressed their beliefs in rituals connected to purity and water. The aim is to organise separate sessions under the following headings:

- * Water and Asian religions
- * Water and Middle Eastern religions
- * Water and indigenous religions
- * Water and religion in a comparative perspective

3. Water and Climate. This session will consider past climatic changes, how such changes have affected the present water situation, and the resulting constraints and opportunities for social development. We aim at organising different sub-sessions around the following topics:

- * Historical developments of glaciers (Ice Age included) and social and economic consequences
- * Historical changes in rainfall patterns and their social and economic implications
- * Changes in river discharges and their causes
- * Comparative studies on climatic changes and their effects on waterscapes

4. Water and Conflict. This session will deal with the history of conflicts and tensions, as well as cooperation over water resources, the use of water

systems as weapons during conflicts, and the targeting of water systems during such conflicts. It will explore the connections between water resources and water systems on the one hand, and international and national security and past conflict and cooperation on the other hand.

- * Pre-industrial water conflicts and water management practices
- * Contemporary water conflicts—actual and potential—and water-management practices

5. Water and Health. Water-borne diseases have played a very important role human history. This session will consider how the conquest of water advanced the public health in particular, and social and economic development in general.

- * Early epidemiological studies linking human health and water resources
- * Sanitation and other public works and attempts to alleviate water-borne disease
- * Dams and “big” development and their role in spreading vector-borne disease in the 20th century
- * Historical use of GIS and other tools to map water-related public health problems
- * Institutional responses to water-related public health problems

6. River Basins - A Comparative Perspective. All the papers should have a comparative aim, analysing how different societies in different river basins have developed in relation to their water resources and responded to such issues as transboundary management, upstream-downstream competition, and aridity and scarcity.

Time schedules for abstracts and papers:

The Conference will include plenary oral presentations and poster displays. Participants are invited to submit an abstract (maximum 600 words) no later than March 1, 2005.

Only abstracts sent via this link will be considered <http://iwha.polaire.net/cgi-bin/2005/submit.cgi> If you have any difficulties contact the secretariat via post@iwha.net.

Notification of acceptance will be given by April 15, 2005, with an invitation to submit a full paper of up to 20 A4-sized pages by October 1, 2005, for inclusion in the volume of papers to be distributed on CD-ROM at the conference.

Venue: UNESCO Paris, France

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TECHNOLOGY AND CULTURE
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The Society for the History of Technology is happy to announce that the back run of its quarterly journal *Technology and Culture* is now available through JSTOR®, the online digital archive. Users will be able to search, browse, download, and print the full-text back issues of *Technology and Culture* from its first year published in 1959 through 1998.

Technology and Culture is now offered through JSTOR's Arts & Sciences Complement, a new collection that became available to participating libraries and institutions in Winter 2004. Members of SHOT who are at institutions that participate in this collection can search and browse *Technology and Culture* directly at www.jstor.org. The Arts & Sciences Complement is intended to offer participants a method to seamlessly add journals related to the disciplines in the core Arts & Sciences I, II, III, and IV collections. Journals in the Complement may be focused in any of the more than 30 arts, humanities, and social sciences disciplines covered by JSTOR. A minimum of 150 journals will be added over five years, beginning in early 2004 and concluding by the end of 2008. *Technology and Culture* is proud to be a part of this collection, which will offer online access to more than four million pages of important historic literature.

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Department of History
Iowa State University
618 Ross Hall
Ames, IA 50011-1202

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