



# NEWSLETTER

OF THE SOCIETY FOR THE HISTORY OF TECHNOLOGY

No. 115, n.s., July 2007

## SECRETARY'S MESSAGE

SHOT turns fifty, and it's time to celebrate! After months of planning and preparations, we're heading for Washington, D.C. October 18-21. It's always special when SHOT has the opportunity to meet in Washington, D.C., given our historic connections to that city. Our local arrangement committee, energetically coordinated by Art Molella and Maggie Dennis, has planned some fabulous tours, including a moonlight tour of DC's postal system and a visit to the gorgeous Washington National Cathedral. Merritt Roe Smith has generously agreed to lead a tour of Harpers Ferry, Zachary Schrag will lead a behind-the-scenes tour of the DC Metro subway, and NASM curators will host a visit to the impressive Udvar-Hazy air and space center.

Actually, SHOT events will begin even earlier than usual, on Wednesday, October 17, with a daylong special symposium that the Mercurians have organized at the National Postal Museum on the history of communication technologies. That will be followed by an evening plenary at the National Academy of Engineering – see elsewhere in this newsletter for more details. Thursday, October 18 will be devoted to an all-day workshop at George Mason University that will focus intensive scholarly attention on significant questions in our discipline at this anniversary juncture, including technology and gender, race, environment, globalization and power, technical revolutions, plus “thinking big” questions about technology, creativity, and culture. Thursday evening, the Carnegie Institution will host a very special anniversary plenary that will serve as a wonderful opening for our “looking back, looking ahead” reflections, as well as SHOT's interactions with the larger worlds of the historical profession, engineering, and the public.

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Our regular program gets started as usual on Friday, with an impressive set of sessions put together by Paul Ceruzzi (chair), Jennifer Light, and Martina Hessler. Check out the preliminary version inside this newsletter, and then we encourage you to revisit SHOT's online annual meeting website over the next few months for updates and paper abstracts.

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#### 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 1<sup>st</sup> 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 1<sup>st</sup> 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*

But it's the unique fiftieth-anniversary events that those of us in DC will still really remember when SHOT's hundredth anniversary rolls around. On Friday, the Lemelson Center will sponsor a great reception around the theme of "invention", and later a DJ plays dance music specially selected for SHOT. For even more great SHOT music, be sure to check out our Saturday night hospitality suite, where Jim Williams and Hans-Joachim Braun have organized our very own SHOT Jazz Band to offer terrific entertainment. We'll also have special anniversary souvenirs for you to show off at home, featuring our fiftieth logo.

On top of all the special anniversary events and papers, of course, we have our usual conference features – the annual awards banquet, the book exhibit, the standard business meeting, and our breakfast and lunchtime gatherings of Special Interest Groups and graduate students. Both here in this newsletter and on our website, you'll find all the vital registration information, hotel details and more.

More important SHOT business to note – both in this newsletter and online again, you'll find the ballot for our annual SHOT elections, along with biographies supplied by all our candidates. Many thanks to all those who agreed to run, and many thanks to our SHOT Nominating Committee and especially chair Greg Clancey.

Of course, one of the most exciting things about our fiftieth anniversary is that it won't end when our D.C. meeting closes up shop. Our Lisbon organizers are already deep into planning for the 2008 meeting, which will both continue our discussions and celebrations from Washington and also introduce exciting new elements. You'll have a chance to talk with some of the Lisbon representatives in Washington and hear about the fabulous tours and meeting setup that they've arranged. Before we head for Portugal, though, it's time to make our D.C. meeting special – we look forward to seeing you there!

**Amy Sue Bix**  
 Iowa State University

## WELCOME TO WASHINGTON

The D.C. arrangements committee members look forward to welcoming you to Washington in October. The annual meeting will be held in the Capital Hilton, located downtown at 16th and K Streets. There are several nice restaurants and decent quick-food places along K, and yes, of course, Starbucks.

Most of the events will be held at the hotel, but if you wander farther afield, you'll find that buses and the subway are just outside your door. In addition to the regular Metro system, we have the Circulator, a colorful, comfortable bus that takes three different routes around the downtown and tourist areas, including the Smithsonian. You can hop on for \$1. Taxis can be pricey, even for short rides, especially with a summer surcharge to account for high gas prices, but with more than one passenger, it's not too bad.

The weather is usually wonderful in mid-October, sunny and nicely cool, but occasionally it's still warm and sticky. The "layered look" is probably the safest, especially since some buildings still may be air conditioned.

If you haven't been to D.C. in several years, you'll find a new entertainment area downtown. The Penn Quarter around 7th and 8th Streets NW is where the NBA Wizards and NHL Capitals play at Verizon Center, and it's surrounded by restaurants, shops, nightclubs, bowling alleys (!), and the newly refurbished Smithsonian American Art and National Portrait Gallery museums. Also, see what's left of Chinatown after all the construction, and enjoy some dim sum.

The Kennedy Center offers theater, opera, concerts, and dance. Georgetown is still a bustling, crowded mix of restaurants, shops, and nighttime entertainment, including some good jazz spots. On tours of the Capitol and White House, as in museums and government buildings, you'll find possibly lengthy security lines and checks. (The White House tour requires advance notice through your congressional representative.)

If you wander up Connecticut Avenue to the National Zoo, you'll find a new Asia Trail exhibit that includes

the zoo's prized inhabitants, two giant pandas plus their two-year-old. The "baby's" stay in Washington has been extended (he was due to move permanently to China later this year), and we'll know for sure by October whether Mei Xiang is going to have a second cub next spring.

Museums are everywhere in the Washington area. The Smithsonian Institution museums on the Mall are open every day, except for the SHOT meeting host organization, the National Museum of American History (how's that for timing?). NMAH is closed for repairs and refurbishment until summer of 2008, but a major NMAH exhibit of 150 *Treasures of American History* is being shown at the Air and Space Museum. The National Museum of the American Indian is the newest Smithsonian museum; its stunning spaces are worth a look-see. Several blocks from the Mall, the Smithsonian's American Art and National Portrait Gallery museums reopened recently after a dazzling facelift. You can join the SHOT tour of the new Udvar-Hazy Center of the National Air and Space Museum, or head out toward Dulles Airport on your own; it's about a 45-minute drive.

Newer museums in D.C. include the Newseum, due to open on October 15, the Koshland Science Museum, and the International Spy Museum, which quickly became a big favorite for a lot of people.

Older favorites in the city include the National Building Museum, the Phillips Collection (19th- and 20th-century American and European paintings), the Textile Museum, and the Kreeger Museum (19th- and 20th-century American and European painting and sculpture). And the Library of Congress always has several exhibitions.

A 40-minute ride to Mount Vernon provides a new and expanded experience of George Washington's home and plantation. Reviews of the alterations are mixed; some feel the visit is now too prettified and more like an amusement park. Take a car or subway ride to Old Town Alexandria, Virginia, and wander into historic homes and buildings, small shops, seafood restaurants, and the terrific Torpedo Factory Art Center, with working studios, galleries, and an archaeological center housed in a World War II ... torpedo factory.

Charm City—Baltimore—is a 45-minute drive away, and offers a waterfront Inner Harbor of shops, restaurants, and the USS *Constellation*. Or visit the Maryland Historical Society, American Visionary Art Museum, and Baltimore Museum of Art.

The Friday *Washington Post* contains a "Weekend" section that lists everything going on in the D.C. area. You're sure to find something that interests you.

We hope you have a great meeting and a great time in Washington.

### SPECIAL ANNIVERSARY EVENTS

Now, here's a story. One day in June 1957, Melvin Kranzberg trudged up a hill in Ithaca, New York, to the home of Henry Guerlac, professor of the history of science at Cornell and president of the History of Science Society. With Kranzberg were Carl Condit, the already-eminent historian of the building arts, and John Rae, soon to be known as the premier historian of the automobile industry. Wasn't it obvious, they asked Guerlac, that his organization and its journal *Isis* needed to pay more attention to the history of technology? Obvious or not, they met with a cruel rebuff: The history of science was a branch of *intellectual* history, said Guerlac, and as such was concerned with "thinkers," not with the "tinkers" who seemed to preoccupy historians of technology. Naturally, Kranzberg, Condit, and Rae were chagrined, but on the way down the hill they found themselves energized by the realization that they were "just going to have to found a new society and new journal of our own."

In the spring of 1958 the Society for the History of Technology was chartered in Cleveland, Ohio, on the basis of a precept that later became one of Kranzberg's storied Five Laws: "All history is relevant, but the history of technology is most relevant." SHOT's guiding principle was that technology could be properly understood only in terms of "its relations with society and culture...politics, economics, labor, business, the environment, public policy, science, and arts." In June, charter members participated in a joint meeting in Berkeley with the American Society for Engineering Education, and in December SHOT held

its first annual meeting at the Smithsonian Institution in Washington, D.C.

All these events of 1958 are readily confirmed by correspondence in the SHOT archives at the National Museum of American History. So is the 1957 occurrence in Ithaca, though not any cruel rebuff. The evidence suggests quite the opposite. A few days afterwards, Kranzberg sent Guerlac a note thanking him for a "pleasant interlude" with gin and tonic and referring to plans for a new society and a new journal that had been in the works at Case Institute in Cleveland (where Mel taught) for quite some time.

The conclusion is inescapable. Kranzberg had elected to turn the Ithaca confab into what we now recognize as a classic creation myth: a story of loss and redemption that he trusted would energize SHOT during its adolescence. And to a considerable degree it did just that. But does anyone still pay allegiance to a literal interpretation of SHOT's genesis? Notwithstanding animadversions in the current issue of *History and Technology*, this has seemed highly unlikely ever since Bruce Seely probed the archival record and published his nuanced account of SHOT's founding in the October 1995 issue of *Technology and Culture*.

That said, is Mel's genesis tale still useful? Of course it is, as are so many myths. For one thing it provides a fine rationale for commemorating SHOT's golden anniversary over the span of two annual meetings: in Washington, D.C. in 2007 (which, it so happens, is also the ninetieth anniversary of Mel's birth) and Lisbon in 2008. Lisbon is fitting in the context of SHOT's international character. Washington is fitting because that is where the society held its very first annual meeting, six more during the 1960s and 1970s, and the its silver anniversary meeting in 1983. And, now, again in Washington, it kicks off a two-year commemoration of its fiftieth.

#### **Wednesday Evening Public Lecture and Reception** Old National Academies Building

The anniversary celebration begins on Wednesday, October 17, with a lecture, panel discussion, and reception held under the aegis of the National Academy of Engineering in Washington and the

sponsorship of the National Museum of Industrial History in Bethlehem, Pennsylvania. The time is 7:30 p.m., the location is the Old National Academies Building on Constitution Avenue at Twenty-first Street NW (about eight blocks from the Foggy Bottom Metro Station.) The aim is to attract not only early arrivals for the SHOT meeting, but the storied "general audience" as well, in the tradition of evening-before-the meeting public lectures inaugurated by SHOT in Pasadena in 1997. The 2007 event at the NAE is called "Recasting Engineering" and features an address by Henry Petroski of Duke University titled "Success Through Failure" followed by remarks from SHOT past-president Rosalind Williams and Charles Vest, MIT's President Emeritus and current president of the National Academy of Engineering. After an open discussion, a reception will be hosted by Stephen Donches, the President and Executive Director of the National Museum of Industrial History.

#### **Thursday Workshop**

George Mason University  
(see Bruce Seely's message)

#### **Thursday Evening Plenary**

Carnegie Institution

SHOT's twenty-fifth anniversary meeting at the National Museum of American History commenced with a plenary session called "What SHOT Hath Wrought and What SHOT Hath Not," with talks by John Staudenmaier, then representative of SHOT's new generation, and two of SHOT's founding generation, Mel Kranzberg and John Rae. (These were subsequently published in the October 1984 issue of *Technology and Culture*.) The 2007 plenary is intended to be a reprise of that plenary based on the fiftieth-anniversary theme *Looking Back/Looking Beyond*. As in 1983, the aim is to attain a generational perspective, with Staudenmaier again involved but this time in the role of moderator of the three other presentations. The first is by Thomas P. Hughes of the University of Pennsylvania, the one member of SHOT's founding cadre who has remained a society stalwart throughout his career. The other two are by Rebecca Herzig of Bates College and Wiebe Bijker of the University of Maastricht, each of whom became active in the society considerably later and will have divergent perspectives on the field both as they look

back and look beyond. This plenary will take place in the auditorium of the Carnegie Institution of Washington at Sixteenth and P Streets NW, a short walk from the Capitol Hilton, the conference hotel. Excepting the tours to Harpers Ferry, the National Cathedral, the Brentwood Postal Center, NASM's Udvar-Hazy Center, and Washington Metro Underground, this is the last event that will not take place in the hotel itself after the regular sessions begin on Friday morning.

#### **Da Vinci Medalist Roundtable**

Capital Hilton

Following the regular sessions on Friday, at 6:00 p.m., SHOT will convene a roundtable discussion among recipients of the Leonardo Da Vinci Medal. Since the first of these was awarded to R.J. Forbes in 1961, there have been forty-four medalists, seventeen of whom are still with us, and we expect to see nearly all of them at this once-in-a-lifetime event. The aim is to provoke a dialogue about the anniversary theme *Looking Back/Looking Beyond*, and we are delighted and honored that the editor of *American Heritage of Invention and Technology*, Fred Allen, will be the moderator. This roundtable, as well as a series of individual interviews and all of the Wednesday and Thursday events, will be videotaped for presentation on SHOTnews, one of the new fiftieth-anniversary electronic initiatives that have been brought to fruition by Joe Schultz (another being eTC, a forum for comments and essays from *Technology and Culture*). Already posted on eTC are a number of interviews with SHOT stalwarts that were published over the years in *Invention and Technology*, and the aim is to greatly amplify what is currently available there with new material garnered at the anniversary meetings.

#### **Entertainments**

Capital Hilton

Receptions are planned in conjunction with the public lecture at the National Academy of Engineering on Wednesday evening and the SHOT plenary at the Carnegie Institution of Washington on Thursday evening, but on each of the next two evening entertainments will be featured. The SHOT reception, sponsored by the Smithsonian's Lemelson Center for the Study of Invention and Innovation, will begin at

7:45 p.m. with the sort of lavish spread for which Lemelson Center events are famed. Later, at the hospitality suite, recorded music is to be cued up by Will Eastman, noted Washington D.C. disk jockey, who will have developed his program in concert with SHOT's resident musicologist Hans Joachim Braun. The program will intersperse jazz and classical music having technological themes with technomusic, the aim being to please a variety of musical tastes.

On Saturday evening following the banquet and awards presentation, SHOT will be treated from 9:00 until 1:00 to live music from Jim Williams's E-mail Special Sextet, famed for its toe-tappin' performances at ICOHTEC meetings. With Jim tickling the ivories, the ensemble features Hans Braun (trumpet), Tony Strange (vibes), and other distinguished soloists, along with the vocal stylings of Sue Horning. We are also hoping for a set featuring the stylings of an eminent SHOT member who has mastered virtually the entire Bob Dylan songbook.

Last but not least, we are pleased to note that SHOT has commissioned a stunning fiftieth-anniversary poster, designed by Damon Yarnell, to be presented as a souvenir to each registrant. A limited number of Damon's posters, printed in a deluxe format and signed by the designer, will be available for sale.

***Bob Post***

### **NSF WORKSHOP**

In June 1958, the Society for the History of Technology (SHOT) came into existence when a group of eight like-minded scholars who assembled at the annual meeting of the American Society for Engineering Education in Berkeley approved a constitution drafted by Melvin Kranzberg of the Case Institute of Technology. This action culminated eighteen months of discussions and planning Kranzberg had facilitated and guided. From these beginnings emerged the leading academic organization for scholars studying the history of technology. Kranzberg continued to shepherd SHOT as its first secretary and editor of the Society's journal, *Technology & Culture* (1959-1981).[1] SHOT

now includes some 1700 individual members and 820 institutional subscribers.

The day before the annual meeting begins (October 19), the Society will sponsor a workshop designed to mark the milestone of this fiftieth anniversary will be a workshop in Washington, DC. The workshop is designed to "take stock" of the state of the field and to identify and encourage scholarship in new directions, and in general consider SHOT's developing contours. SHOT members frequently have reflected on the state of their field, and have not waited for major anniversaries -- perhaps because of ongoing changes in both the subjects of study and the methods and approaches to such studies. Significantly, almost all of SHOT's efforts have focused on "critical problems." In the early 1970s, questions about where the history of technology was going animated several papers on the historiography and scholarship of the field presented at the 1972 annual meeting.[1] The Society used its bicentennial meeting in Washington, DC in 1975 to offer, in the words of secretary Carroll Pursell, "A snapshot of the state of the art in this field." Several papers explored explicitly the nature of the history of technology as a field of study or defined central topics and approaches.[2] In 1978, the Society undertook a more formal discussion of the state of the history of technology, bringing together 40 leading scholars and SHOT's officers in Roanoke, VA, for SHOT's first formal "Critical Problems" conference, although no publication resulted.[3] This workshop continues this tradition. It seeks to explore both the continuities and the changes and new directions that have come to mark our work in recent years, as well as to identify threads of work that will be significant for the future.

The workshop is structured to encourage significant discussion and conversation. The papers are to be placed on the SHOT website about a month before the event, to allow all members to read them in advance. Presenters at the workshop itself will not read their papers, but rather will offer short summaries and then open the floor to discussion. Eventually, the results will appear in a special issue of T&C, but for now, we aim to provoke extended conversations about where we are where we are going as a scholarly community. We have kept the fees small in order to encourage participation from as many SHOT members as possible.

The event will be held at George Mason University in Arlington, VA, a short METRO ride away from downtown Washington. We're hoping to see you there!

**Bruce Seely**

[1] Robert P. Multhauf, "Some Observations on the State of the History of Technology," *Technology and Culture* 15 (January 1974): 1-12; Eugene S. Ferguson, "Toward a Discipline of the History of Technology," *ibid.*, pp. 13-30; Edwin T. Layton, Jr., "Technology as Knowledge," *ibid.*, pp. 31-42; also Reinhold Rürup, "Historians and Modern Technology: Reflections on the Development and Current Problems of the History of Technology," *ibid.*, (April 1974): 167-73.

[2] See, for example, Eugene S. Ferguson, "The American-ness of American Technology," *Technology and Culture* 20 (January 1979): 3-24; also Thomas P. Hughes "Emerging Themes in the History of Technology," *ibid.*, (October 1979): 697-711.

[3] Carroll W. Pursell, Jr., "The Roanoke Conference: Critical Problems in the History of Technology: Roanoke, Virginia, August 14-18, 1978, I. Summary," *Technology and Culture* 21 (1980): 617-20; Nathan Sivin, "The Roanoke Conference: Critical Problems in the History of Technology: Roanoke, Virginia, August 14-18, 1978, II. Concluding Remarks on the Conference," *ibid.*, pp.621-32. From this event, SHOT leaders learned the importance of openness in such events.

### SHOT 50<sup>th</sup> Anniversary Workshop Program

George Mason University  
Thursday, October 18, 2007

#### I. Thinking Big in Time and Space

Chair, David Nye, *University of Southern Denmark*  
Pamela Long, *Independent scholar*  
David Edgerton, *Imperial College*  
Francesca Bray, *University of Edinburgh*

#### IIA. The Public(s) and Technology

Chair: Harold Skramstad, *The Henry Ford*, retired

Robert Buder, *Security Studies Program, MIT*

Colin Divall, *University of York/ National Railway Museum*

Tom Misa, *Babbage Institute, University of Minnesota*

#### IIB. Technology & Power in the Contemporary World

Chair, Rosalind Williams, *MIT*

Gabrielle Hecht, *University of Michigan*

Mats Fridlund, *Technical University of Denmark*

Michael Adas, *Rutgers University*

#### IIIA. Panel Discussion: Arms Race, Space Race: Paradigms of National Technological Competition

Chair, John Morrow, *University of Georgia*

Alex Roland, *Duke University*

Asif Siddiqi, *Fordham University*

#### IIIB. Technology & the Environment

Chair, Ed Russell, *University of Virginia*

Richard White, *Stanford University*

Sarah Elkind, *San Diego State University*

#### IVA. Race & Gender

Chair, Rayvon Fouche, *University of Illinois, Urbana-Champaign*

Angela Lakwete, *Auburn University*

Nina Lerman, *Whitman College*

Carolyn de la Peña, *University of California Davis*

#### IVB. Technology's Animating Passions

Chair, Hans-Joachim Braun, *Helmut-Schmidt-Universität, Hamburg*

Chris Csikszentmihalyi, *Computing Culture Group, MIT*

Ann Johnson, *University of South Carolina*

Trevor Pinch, *Cornell University*

#### V. Technology and Culture

Chair, Robert Post, *National Museum of American History*

Carroll Pursell, *Macquarie University*

Ruth Cowan, *University of Pennsylvania*

## **MERCURIANS**

As part of the events making up SHOT's celebration of its fiftieth anniversary, the Smithsonian Institution's National Postal Museum is hosting a one-day symposium on the history of communication technologies on Wednesday, October 17. The event's organizers are the Mercurians, a Special Interest Group of SHOT, and the National Postal Museum. Attendance at the symposium will be open to the public.

The symposium will take place at the National Postal Museum, which is next to Union Station, a terminus for rail (Amtrak and Marc) and Metro lines, making it convenient for those attending the SHOT meeting and those coming from out of town. The event, which will begin at 10:00 am and run until 5:00 pm, features 22 speakers discussing a range of topics that reflect the loose meaning of the term "communication technologies" that the Mercurians have embraced since their inception. The program and paper abstracts will be posted on the National Postal Museum's website ([www.postalmuseum.si.edu](http://www.postalmuseum.si.edu)).

Topics include the interaction between telegraphy and astronomy; radio telephony and military aviation; the telephone as a broadcast medium; British imperial postal networks; the problem of radio "noise"; the development of FM radio; photography and communication; and early ham radio. More recent topics include satellite communications; the Internet; information technology, the computer as a communications device, and computer-aided design.

Still other papers examine media coverage of Apollo and the interplay of socialist politics and the press. One paper uses the competition between Nikola Tesla and Guglielmo Marconi to reexamine the notion of the lone inventor, while another looks at early telephone history to argue for a shift in emphasis from patents to user creativity. Finally, two other papers look at the life cycle of technologies, with one reconsidering the notion of technological novelty and the other asking, "Where do communication technologies go to die?"

Questions? Comments? Please email either Allison Marsh at [marsha@si.edu](mailto:marsha@si.edu) or Andrew Butrica [Mercurians@earthlink.net](mailto:Mercurians@earthlink.net)

### **SHOT BUSINESS MEETING**

The SHOT Business Meeting will be held on Saturday, October 20 from 5:45-6:15 p.m. All members are invited to attend.

### **Friday Night Reception**

Invention favors the prepared mind—and the empty stomach! Join the Lemelson Center for a Friday night reception that promises to spark personal eureka moments as you invent your own hors d'oeuvres, sample an array of innovative dishes, and generally let your creativity flow.

### **Friday Night Hospitality Suite**

Terpsichore will beckon you as historian and Lemelson Center colleague Will Eastman, a resident DJ at several popular Washington, D.C. venues, spins through the spectrum of electronic dance music, from 1980s techno to today.

### **SHOT Website Annual Meeting Page**

Our main SHOT website:

<http://www.historyoftechnology.org> has a link connecting to the SHOT annual meeting webpage: <http://www.historyoftechnology.org/annualmeeting.html>

This page contains links to the program (with paper and session abstracts where available), the conference schedule, registration information, plus details on SIG (Special Interest Group) meetings, receptions, the SHOT business meeting, SHOT tours, etc. Details on hotel reservations and local information are also available here. We will be updating the annual meeting page frequently with additional information so please check back at regular intervals.

## REGISTRATION

You will find a form to register for the annual meeting further on in this newsletter. Please complete the form and mail or fax it to the SHOT Secretary's office with your payment by check or with your credit card information. There is no online registration. **Please write very legibly.** It may be impossible to process your payment and registration if we cannot read your credit card number, phone number, or email address.

### **Please mail your form to:**

SHOT Office/Cynthia Bennet—Registration  
History Department  
618 Ross Hall  
Iowa State University  
Ames, IA 50011

### **Or fax your form to:** 515-294-3177

The deadline for early registration is **September 10, 2007**. Presenters must submit their registrations by September 10 to guarantee their spot on the program.

The SHOT office will confirm your registration.

## **SHOT 2007 ANNUAL MEETING** **SCHEDULE OVERVIEW**

### **Wednesday October 17:**

SHOT Public Plenary and Reception: 7:30 p.m.  
"Recasting Engineering," 2100 C St. NW (open to all) Old National Academies Building

### **Thursday October 18:**

SHOT anniversary workshop: 8:15 a.m.–4:15 p.m.,  
George Mason University (open to all; registration required)

Udvar-Hazy Center SHOT tour of the Udvar-Hazy Center: 9 a.m.–3 p.m. (admission by ticket only – limited to the first 55 people to sign up)

National Museum of American History Renovation  
SHOT tours of the National Museum of American History renovation project: 2:30 p.m.–4:30 p.m. and 3:30 p.m.–5:30 p.m. (admission by ticket only – limited to the first 10 people to sign up per tour)

SHOT Anniversary Plenary Session and Reception: 7:30 p.m. "Looking Back, Looking Beyond," auditorium of the Carnegie Institution of Washington, 1530 P St. NW (open to all)

### **Friday October 19:**

Breakfast meetings: 7:30–8:30 a.m.

Envirotech breakfast

International scholar breakfast (by invitation only)

*Technology and Culture* Editor's breakfast (by invitation only)

SHOT early morning paper sessions: 8:30 a.m.–10:00 a.m.

SHOT late morning paper sessions: 10:15 a.m.–11:45 a.m.

Metro Underground SHOT tour of the underground transit system.

9:30 a.m. – noon (admission by ticket only–limited to the first 30 people to sign up)

Lunch meetings: noon–1:15 p.m.

Prometheans lunch

WITH (Women in Technological History) lunch

Albatrosses lunch

TEMSIG (Technology Museums) lunch - meet in lobby

Da Vinci lunch (by invitation only)

SHOT early afternoon paper sessions: 1:30 p.m.–3:30 p.m.

SHOT late afternoon paper sessions: 3:45 p.m.–5:45 p.m.

Renovation at the National Museum of American History SHOT tours of the National Museum of American History renovation project: 2:30 p.m.–4:30 p.m. and 3:30 p.m.–5:30 p.m. (admission by ticket only – limited to the first 10 people to sign up per tour)

Da Vinci Anniversary Roundtable: 6:00 p.m.-7:30 p.m. "Looking Back, Looking Beyond," (admission by ticket only, limited to the first 80 people to sign up)

SHOT reception: 7:45 p.m. (open to all)

Mail by Moonlight SHOT tour of U.S. Postal Service facilities: 9:30 p.m.-12:30 a.m. (admission by ticket only – limited to the first 40 people to sign up)

SHOT Hospitality Suite 10:00 p.m.-1:00 a.m.

### **Saturday, October 20:**

Breakfast meetings: 7:30-8:30 a.m.

Mercurians/Jovians breakfast

Tensions of Europe breakfast – meet in lobby

Graduate student breakfast (open only to current graduate students, free, by registration only)

Harper's Ferry SHOT tour of Harper's Ferry 8:30 a.m. – 5:30 p.m. (admission by ticket only – limited to the first 55 people to sign up)

SHOT early morning paper sessions: 8:30 a.m.- 10:00 a.m.

SHOT late morning paper sessions: 10:15 a.m.- 11:45 a.m.

Washington National Cathedral SHOT tour of the National Cathedral 9:00 a.m. - noon (admission by ticket only – limited to the first 55 people to sign up)

Lunch meetings: noon - 1:15 p.m.

Computers, Information and Society lunch

Military Technology lunch – meet in lobby

SHOT early afternoon paper sessions: 1:30 p.m.-3:30 p.m.

SHOT late afternoon paper sessions: 3:45 p.m.- 5:45 p.m.

SHOT Business Meeting: 5:45 p.m.-6:15 p.m. (open to all members)

SHOT Awards Banquet: 6:30 p.m. (admission by ticket only)

SHOT Hospitality Suite: 9:00 p.m. – 1:00 a.m., featuring jazz entertainment by Jim Williams's E-mail Special Sextet

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### **Sunday, October 21:**

SHOT Executive Council meeting: 8:00 a.m. – 4:00 p.m. (open to all members)

SHOT early morning paper sessions: 9:00 a.m.- 10:30 a.m.

SHOT late morning paper sessions: 10:45 a.m.- 12:15 p.m.

## EVENTS HOSTED BY SHOT

### **Current Graduate Students Breakfast:**

On Saturday, October 20 at 7:30 a.m., the SHOT officers will host their annual breakfast for currently-enrolled graduate students. This breakfast will be in the conference hotel and will feature a deluxe continental breakfast. This event will offer graduate students a chance to meet each other and talk with SHOT officers, to learn about SHOT programs (including prizes and fellowships), and to find out more about SHOT's journal *Technology and Culture*. This breakfast is free for currently-enrolled graduate students (please do not sign up if you do not fit this category). You must register for this event in order to attend; please indicate your attendance on the conference registration form.

### **SHOT Awards Banquet:**

On Saturday, October 20 at 6:30 p.m., SHOT invites you to attend the annual Awards Banquet, to be held at the conference hotel, the Capital Hilton. This is a wonderful opportunity to enjoy a relaxing evening with old and new friends, to show our appreciation to the SHOT community, and to honor the recipients of SHOT's annual prizes and fellowships. The banquet will feature a fabulous buffet, including a variety of

salads and vegetables, a range of meat, seafood, and vegetarian entrees, plus an impressive dessert display. Please sign up for the banquet on the conference registration form; tickets are \$60 a person, and you must register for the banquet in order to attend.

## TOURS

**Times indicated include travel time between hotel and destination.**

### **Thursday, October 18, 9:00 a.m.-3:00p.m.**

Udvar-Hazy Center – Since December, 2003, the National Air and Space Museum on the National Mall has been joined by its companion facility, the Steven F. Udvar-Hazy Center, on the grounds of Washington Dulles International Airport in Chantilly, Virginia. This building is large enough to house some of the most spectacular of the museum's artifacts, including an SR-71 "Blackbird," the B-29 "Enola Gay," the Space Shuttle "Enterprise," and a host of other air and space craft. The tour will be led by NASM curators and docents, who will answer questions about the artifacts on display, and relate the exhibitions to the larger themes of the history of science and technology. Registration fee includes charter bus. Participants will purchase lunch at the museum.

**Photographs allowed—no tripods—permission required for reproduction rights**

**Capacity: 55**

**Registration fee: \$15.00**

### **Thursday, October 18 and Friday, October 19, 2:30-4:30 p.m. & 3:30-5:30 p.m.**

Renovation at the National Museum of American History – The National Museum of American History is closed to the public on September 5, 2006 for major architectural renovations and is scheduled to reopen by summer 2008. What changes are in the works? Sign up for one of these exclusive hard hat tours of the construction zone and see for yourself. Tour participants must bring an ID, wear closed-toed shoes, and be able to climb stairs. Hard hats will be provided. Registration fee includes charter van (or pre-purchased Metro fare card).

**Photography allowed**

**Capacity: 10 people per tour**

**Registration fee: \$13.00**

### **Friday, October 19, 9:30 a.m.-noon**

Metro Underground - Tour DC underground with Zachary Schrag, author of *The Great Society Subway: A History of the Washington Metro*. Dr. Schrag and Metro guides will show off America's second-busiest rail transit system, including behind-the-scenes visits to the Operations Control Center and the Brentwood Yards. Non-US citizens must provide passport numbers one month in advance. Please wear comfortable walking shoes. Registration fee includes pre-purchased Metro fare card. Participants will return to the conference hotel in time for the scheduled lunch break.

**Photography allowed, except at operations control center—no tripods**

**Capacity: 30**

**Registration fee: \$3.00**

### **Friday, October 19, 9:30 p.m.-12:30 a.m.**

Mail by Moonlight – Ever wonder what really happens to your letter after you drop it in a mailbox? Find out on this moonlight tour of the Curseen-Morris Mail Processing Center. Previously known as the Brentwood Postal Facility and renamed in honor of two postal workers who died in the 2001 Anthrax attacks, the Center sorts third class mail for delivery in the Washington, DC, area. Come see the sorting technology that has been implemented to guard against biohazards. The Center also houses off-site storage for objects of the National Postal Museum (NPM), included in the tour. This tour takes participants through an operational facility. Please wear closed-toed shoes. Registration fee includes charter bus. *Sponsored by NPM and TEMSIG*

**Photography allowed—talking to employees prohibited**

**Capacity: 40**

**Registration fee: \$15.00**

### **Saturday, October 20, 8:30 a.m.-5:30 p.m.**

Harpers Ferry – Join Merritt Roe Smith, author of *Harpers Ferry Armory and the New Technology: The Challenge of Change*, for a tour of Harpers Ferry National Historical Park in West Virginia. Dr. Smith will be joined on the tour by National Park Service historians and archaeologists. Since the book was published thirty years ago, the Park Service has commenced archeology on the US Musket Factory, and has discovered a wealth of artifacts and the

original buildings themselves. You won't want to miss this once in a lifetime opportunity to learn more about one of the incubators of the famous "American system" of interchangeable manufacturing. Please wear comfortable walking shoes. Registration fee includes charter bus, group reservation fee, and lunch at the historic Hilltop House. Participants will return to the hotel in time for the SHOT business meeting.

**Photography allowed**

**Capacity: 55**

**Registration fee: \$42.00**

**Saturday, October 20, 9:00 a.m.-noon**

Washington National Cathedral – Officially completed in September 1990, the Washington National Cathedral took 83 years to build. Celebrating its centennial this year, the Cathedral continues to be a place for services of national significance. More than a site for worship and reflection, the Cathedral is a location of technological developments from the 12<sup>th</sup> century to the present day. Join docent Andy Bittner for this illuminating tour, and learn about the construction, the architecture, and the history of one of DC's most beloved landmarks. Binoculars recommended. Registration fee includes charter bus and group tour fee. Participants will return to the conference hotel in time for the scheduled lunch break.

**Photography allowed**

**Capacity: 55**

**Registration fee: \$16**

### PACHS

SHOT members are invited to learn about the fellowships, conferences, and other programs offered by a new center for the history of technology, science, and medicine. The Philadelphia Area Center for the History of Science institutions—with rich research assets and collections relating to the history of science, technology, and medicine—joined together to promote scholarship and enhance public understanding. Please join us at the annual meeting for an information session and reception; see the conference program for time and location.

### **SIG MEETINGS**

The **Albatrosses** will meet Friday (Oct. 19) for a luncheon meeting at the hotel. The box lunch includes the following options: tortilla wrap or baguette/ chicken or vegetable. The cost is **\$30**. Please indicate your participation on the registration form. More details about the meeting will be in the meeting program and posted in the Albatross newsletter during the summer at

<http://www.furglu.com/albatross/>.

For more information contact Debbie Douglas at

[ddouglas@mit.edu](mailto:ddouglas@mit.edu)

or to subscribe to the newsletter email Rob Ferguson at [rob@furglu.com](mailto:rob@furglu.com).

The SIG on **Computers, Information, and Society** will hold a lunch meeting at the conference hotel on Saturday, October 20. The pizza luncheon cost is **\$36**. Please indicate your participation on the registration form.

The **Prometheans (Engineering)** will hold a luncheon meeting on Friday, October 19 at the conference hotel. The box lunch cost is **\$15** for current grad students, and **\$30** for everyone else. Please indicate your participation on the registration form.

**Envirotech** will hold a breakfast meeting on Friday, October 19. The cost for the Capital Continental breakfast is **\$6** for current grad students, and **\$16** for everyone else. Please indicate your participation on the registration form.

The **Grad Student** breakfast will be Saturday, October 20 in the conference hotel. There is no cost. Please note that the breakfast is open **ONLY** to **current** grad students as well as the SHOT officers. Please indicate your participation on the registration form.

The **Mercurians and Jovians** joint annual breakfast meeting will be Saturday, October 20 in the conference hotel. The cost of the Fitness First breakfast is **\$20**. Please indicate your participation on the registration form.

The **Military History** SIG will meet Saturday for lunch and a meeting. Those interested should meet in

the hotel lobby 15 minutes after the end of the morning session, and the group will then move to a nearby location. If you have questions regarding the meeting, or the SIG, please contact Bart Hacker at [Hackerb@nmah.si.edu](mailto:Hackerb@nmah.si.edu).

**TEMSIG** will hold a Friday luncheon meeting. Those interested in attending should meet in the hotel lobby 15 minutes after the end of the morning sessions. A location will be announced at that time. If you have questions about the meeting or the SIG, please contact Maggie Dennis at [dennism@nmah.si.edu](mailto:dennism@nmah.si.edu).

The organizers of **Tensions of Europe** will have a Saturday breakfast meeting. Those interested should meet in the hotel lobby at 7:15 a.m. The group will move to a nearby location.

**WITH (Women in Technological History)** will hold a luncheon meeting on Friday, October 19 at the conference hotel. The cost of the box lunch is **\$19** for graduate students and **\$30** for all others. Choices include tortilla or rye wheat/grilled chicken or grilled vegetables. Please indicate your participation on the registration form.

## HOTEL

The conference hotel is the Capital Hilton hotel, located at 1001 16<sup>th</sup> Street, Washington, D.C., 20036 (202) 393-1000. You will find this the most convenient place to stay during the meeting; all paper sessions and the book exhibit will be held there, along with the banquet, Friday reception, and other SHOT special events. The Capital Hilton is located right at the center of Washington, convenient for visiting attractions such as the Smithsonian Institution and other major museums. Three stations of the Metro subway system lie within a few blocks' walk of the hotel, making it easy to travel around the area. Non-smoking guest rooms available; hotel features health club and spa facilities, in-house restaurant, and more.

Our special SHOT conference rates are:  
Wednesday, Oct. 17 – Sunday, Oct. 21, 2007: rates start at \$195 plus tax

These prices are in effect until September 26, 2007 or

until our hotel block is sold out – please be sure to make your reservations before this deadline.

You can register for a Capital Hilton hotel room online by going through an easy link from our SHOT website. Alternatively, you can call the Hilton at (202) 393-1000 and ask for the “Society for the History of Technology room block” to get the special rate. Again, please remember that the deadline for making room reservations to get SHOT’s special hotel rates is September 26, 2007.

Please check the SHOT website for updates on hotel information and suggestions about alternatives if the rooms at the Capital Hilton sell out.

Website for the Capital Hilton:  
[http://www1.hilton.com/en\\_US/hi/hotel/DCASHHH-Capital-Hilton-District-of-Columbia/index.do](http://www1.hilton.com/en_US/hi/hotel/DCASHHH-Capital-Hilton-District-of-Columbia/index.do)

The Capital Hilton is located only a few blocks from 3 different **Metro Stations**.

From Farragut North Metro Station (Red Line):  
Exit the station and go East two blocks on K Street to 16th Street. The Capital Hilton will be on the northeast corner of 16th and K Streets.

From Farragut West Metro Station (Blue & Orange Lines):

Exit the station and go east two blocks on I Street to 16th Street. Go north one block on 16th Street. The Capital Hilton will be on the northeast corner of 16th and K Streets.

From McPherson Square Metro Station (Blue & Orange Lines):

Exit the station and go west three blocks on I Street to 16th Street. Go north one block on 16th Street. The Capital Hilton will be on the northeast corner of 16th and K Streets.

### **By car:**

Take I-495 to the VA-193 exit (exit 43-44) toward the George Washington Memorial Parkway/Georgetown Pike. Merge onto exit 43 towards George Washington Memorial Parkway south. Take the US-29 exit towards the Key Bridge/Washington. Follow US-29 North until K Street. Take a right on K Street. Turn right on 25th Street NW. Go left on K Street NW. Enter the roundabout and take the 3rd exit onto Pennsylvania Avenue, NW. Take a slight left onto H Street. Turn

left onto 16th Street NW. The Capital Hilton is at the corner of 16th Street and K Street.

### **Ground transportation from local airports to the Capitol Hilton (1001 16<sup>th</sup> St. NW)**

Ronald Reagan Washington National Airport  
<http://www.metwashairports.com/reagan>

By taxi: When you arrive at the taxi stand (outside baggage claim), the attendant will ask you where you are going and will call for a DC taxi. The hotel is 5 miles from the airport, and the fare should be approximately \$11.00 (DC taxis charge by zones rather than a metered rate).

By Metro: From terminals B or C, use either of two enclosed pedestrian bridges on the concourse level which connect directly to the station. From terminal A, exit the terminal to the street side curb outside baggage claim, and board any "Airport Shuttle" bus. At the stops for Parking Garages B and C (bus shelter #3 and bus shelter #5) you may access an enclosed bridge which connects to the Metrorail station. For the most direct route to the hotel, take the Blue line to Farragut West station. The regular fare is \$1.70 each way.

Dulles International Airport (VA)  
<http://www.metwashairports.com/dulles>

By taxi: Go to the "Taxi Passengers" area on the lower level of the main terminal. Washington Flyer services Dulles exclusively and provides transportation at metered rates. The hotel is 27 miles from the airport, and the fare should be approximately \$54 each way.

By Metro: Washington Flyer Coach Service (bus) provides non-stop service to Metro's West Falls Church Station for \$9 one-way or \$16 round-trip. Purchase a ticket at the Washington Flyer Coach ticket counter located at Arrivals Door #4 in the Main Terminal, where you will also board the bus. The buses depart approximately every 30 minutes. Take the Orange line to Farragut West station. The regular fare is \$2.50 each way.

By Super Shuttle: The Super Shuttles provides door-to-door shared ride van service. Stops are

clearly identified on the Ground Transportation Level roadway outside the Main Terminal, and the fare should be approximately \$26.00 each way.

Baltimore Washington International Airport (MD)  
<http://www.bwiairport.com/>

By taxi: The BWI taxi stand is located just outside of the baggage claim area. The hotel is 33 miles from the airport, and the fare should be approximately \$63.00 each way.

By Metro: Metro offers BWI Express Metro bus service between BWI and the Greenbelt Metro station on the Green Line. Buses run every 40 minutes. There are two bus stops: one is located on the lower level of the International Pier; the other stop is located on the lower level of Concourse A/B. Follow the signs that say "Public Transit." The B30 will pick you up outside at the bus shelter. From there, take the Green line to Farragut North station on the Red line (transferring at the Gallery Place/Chinatown station). The regular fare is \$3.15 each way.

By train: Free shuttles from the airport terminal service the BWI Rail Station, where you can take either Amtrak (\$12.00, 7 days a week) or MARC train (\$6.00, M-F only commuter train) to Union Station. From Union Station you can get to the hotel via taxi or Metro (see details below).

Union Station  
<http://www.unionstationdc.com>

By taxi: The hotel is 2 miles from Union Station, and the fare should be approximately \$7.50 + \$1.50 for each additional passenger. (DC taxis charge by zones rather than a metered rate).

By Metro: For the most direct route to the hotel, take the Red line to Farragut North station. The regular fare is \$1.35 each way.

**For additional ground transportation options, please go to the airport website.**

<b>PRELIMINARY PROGRAM</b>
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**Session 1 (Friday, October 19, 2007, 8:30-10:00 am)**

**1. "Engineering" SHOT: The Past and Present Relationship between the Historians of Technology and Engineers**

*Chair:* Gary Downey, Virginia Tech  
*Organizers:* Sarah K. A. Pfatteicher, University of Wisconsin-Madison  
 Bruce Seely, Michigan Tech  
*Comment:* Gary Downey, Virginia Tech

Sarah K. A. Pfatteicher, University of Wisconsin-Madison

Jack Lohmann, Georgia Tech: "Engineering Storytellers: 50 years of the Journal of Engineering Education"

Bruce Seely, Michigan Tech: "Engineers, Historians of Technology and the Early Years of SHOT"

Kathryn Neeley, University of Virginia: "Kranzberg's Legacy: Historians' Continuing Role in ASEE"

**2. A Feeling for the Machine: Technology and Affect in Europe, 1750-1830**

*Chair:* TBD  
*Organizer:* Adelheid Voskuhl, Harvard University  
*Comment:* Langdon Winner

Adelheid Voskuhl, Harvard University: "Mechanical musicians and the human-machine boundary in the sentimental culture of eighteenth-century Europe"

Emily Dolan, University of Pennsylvania: "Forging the Infinite Melody: Hoffmann and the Technology of the Perfect Sound"

John Tresch, University of Pennsylvania: "Love and Industry: The Saint-Simonian Religion of Technology"

**3. Alternative and Failed Technologies**

*Chair:* Kevin Duffield, North Carolina State University  
*Organizer:* Kevin Duffield, North Carolina State University  
*Comment:* Anne Greene, University of Pennsylvania

Kevin Duffield, North Carolina State University: "The Effect of the Clean Air Act Amendments of 1977 on the Development and Research of Alternative Automobile Engine Technologies"

Jason Theriot, University of Houston: "The Development and Demise of the Agrifuels Ethanol Plant in New Iberia, Louisiana: Private Initiative and Political Betrayal"

Matthew Eisler: "Fuel Cells"

**4. Common Ground? Perspectives on Integration of STS and Environmental History Thus Far**

*Chair:* David Nye, Syddansk University  
*Organizer:* Sara Pritchard, Montana State University  
*Comment:* Edmund Russell, University of Virginia

Sara Pritchard, Montana State University: "Envirotech Methods: Looking Back, Looking Beyond?"

Hugh Gorman, Michigan Tech: "STS and the Co-Evolution of Technology and Nature"

Pat Munday, Montana Tech: "STS and Environmental History as a Foundation for Environmental Activism"

Sylvia Washington, UIC School of Public Health: "Reflections on the Integrative Historical Scholarship of Environment, Technology, and Health Disparities in America"

Thomas Zeller, University of Maryland: "Landscapes of Envirotech"

## 5. Systems: Engineering, Analysis, and Modeling

*Chair:* TBD

*Comment:* Paul Ceruzzi, National Air and Space Museum

John Laprise, Northwestern University: "Kissinger's Information Automation Project: Early White House Computer Adoption 1969-72"

Julian Reitman, Independent Scholar: "Forty Years of Winter Simulation Conferences: Discrete Event Simulation Evolution"

Stuart Shapiro, MITRE Corporation: "Seismic Shift or Shifting Sands? Systems Engineering and the Evolution of Engineering Epistemology"

Stephanie Young, University of California-Berkeley: "Quantitative Common Sense: the Planning-Programming-Budgeting System and the Office for Systems Analysis in the Department of Defense, 1961-1968"

## 6. Technical Professionals in Modernization

*Chair:* Michael Adas, Rutgers University

*Organizer:* Bess Williamson, University of Delaware

*Comment:* John Krige, Georgia Tech

Bess Williamson, University of Delaware: "Small-Scale Technologies for the Developing World: Volunteers for International Technical Assistance, 1959-1971"

Eve Buckley, University of Pennsylvania: "The TVA and Regional Planning in Brazil"

Darlene Rivas, Pepperdine University: "If Not for the Politicians: The Vision of Panamanian and U.S. Agriculturalists in the Early Cold War"

### Session 2 (Friday, October 19, 2007, 10:15-11:45 am)

## 7. (Post)Cold War Imaginaries: Satellites, Cell Phones, and Nanotechnology

*Chair:* TBD

*Organizer:* Jason Gallo, University of Wisconsin  
*Comment:* Mats Fridlund, Technical University of Denmark

Jason Gallo, University of Wisconsin: "The National Science Foundation and the Creation of a Standing Army for Science"

Michael Graziano, Northwestern University: "The cybernetic imaginary of cellular telephony"

Lisa Parks, University of California-Santa Barbara: "Walking Phone Booths: Public Wireless Telephony in Mongolia"

## 8. Breeding the Empire: Agriculture Experiment Stations in Colonial Context

*Chair:* TBD

*Organizer:* Tiago Saraiva, University of Lisbon

*Comment:* Jonathan Harwood, University of Manchester

Tiago Saraiva, University of Lisbon: "Laboratory Cotton Fields: the Center for Cotton Research and the Colonization of Mozambique (1943-1974)"

Prakash Kumar, Colorado State University: "Envisioning a Rothamsted in the East: Colonial State and Agricultural Research in South Asia, c. 1875-1905"

Donna C. Mehos, Eindhoven University of Technology: "Technopolitics of the Quest for Cane: Breeding Sugar Cane Varieties in Hawaii (1944-1960)"

## 9. Energy of the Past; Fuels for the Future: A Historical Outline of Biofuels in Scandinavia and the U.S.

*Chair:* TBD

*Organizer:* Timo Myllyntaus, University of Turku

*Comment:* John Kenly Smith, Lehigh University

Timo Myllyntaus, University of Turku: "Switching to a Biofuel in the Pinch Wood Gas in Finish Automobile Traffic during World War II"

Bill Kovarik, Radford University: "Special Motives: Automotive Inventors and Alternative Fuels in the 1920s"

Bosse Sundin: "From Waste to Opportunity: Ethanol in Sweden during the First Half of the 20th Century"

## 10. Infrastructures and Networks

*Chair:* Arne Kaijser, Royal Institute of Technology  
*Comment:* Frank Schipper

Christopher Jones, University of Pennsylvania: "Pipeline Power: The Tide-water Pipeline and American Energy Infrastructure"

Patrick Kammerer, University of Zurich: "The Digitalization of the Mobile Phone - Standardization and Learning Processes Towards a Global Mobile Phone Network"

Nancy Pope, National Postal Museum: "Railway Mail Service: A Communication Network on Rails"

Gina Walejko, Northwestern University: "The Sinking of the Titanic & The Radio Act of 1912"

## 11. History Informing Practice: The History of Technology in Engineering

*Chair:* John K. Brown, University of Virginia  
*Organizer:* John K. Brown, University of Virginia  
*Comment:* David Billington, Princeton University  
Larrie Ferreiro, Defense Acquisition University  
Henry Petroski, Duke University  
Walter Vincenti, Stanford University

## 12. Technological Enthusiasm and the User: Aesthetics, Passion and Innovation

*Chair:* Merritt Roe Smith, MIT  
*Organizer:* Kieran Downes, MIT  
*Comment:* Joseph Corn, Stanford University

Kieran Downes, MIT: "This preamp sounds like nothing!": The Vacuum Tube in the World of High-End Audio

David Lucsko, The Henry Ford: "The Look, the Sound, the Feel: Getting the Hot Rod Right"

Rachel Maines, Cornell University: "Hedonizing Technologies, or why Tatting and Cake Decorating are Like Ham Radio and Paintball"

## Session 3 (Friday, October 19, 2007, 1:30 – 3:30 pm)

### 13. 50 years of Computing Historiography

*Chair:* Christopher Sterling, George Washington University  
*Organizer:* Thomas Haigh, University of Wisconsin-Milwaukee  
*Comment:* Thomas Haigh, University of Wisconsin-Milwaukee

Janet Delve, University of Portsmouth: "Historiography in the History of Computing: New Challenges from Other Disciplines?"

Evan Koblenz, Electronic Component News: "Bridging the gap between historians and hobbyists in the history of technology"

Michael Mahoney, Princeton University: "The Many Histories of Computing"

Allan Olley, University of Toronto: "Charles Babbage: Famous Object of Neglect"

### 14. Blurring the Boundaries between the Natural and Unnatural (I): Commodifying Nature

*Chair:* Thomas Zeller, University of Maryland  
*Organizer:* Finn Arne Jorgensen, Norwegian University of Science and Technology  
*Comment:* TBD

Finn Arne Jorgensen, Norwegian University of Science and Technology: "Feel the Volcanicity!": The imagined landscapes of bottled water"

Barbara Hahn, Texas Tech: "The Technological Consequences of Emancipation: Credit and the Calendar of Bright Tobacco Agriculture, 1865-1937"

Sabine Hoehler, University of Hamburg: "Biosphere Reserves: Environment in the Age of its Technoscientific Reproduction"

Kristoffer Whitney, University of Pennsylvania: "Cleaning with Coconuts: Plant-based chemistry, 'green' consumer products, and environmentalism as technological innovation"

### 15. Do it Yourself (DIY)

*Chair:* TBD

*Comment:* Kristen Haring

Duncan Fisher, Telford College: "Edwardian Cyberspace: wired and wireless in the age of Marconi"

Tiina Mannisto, University of Turku: "Bicycle in the Forest, the: Self-made bicycles in the Finnish countryside 1880-1910"

Gard Paulsen, Norwegian School of Management: "Innovating code and coded innovation: A history of user participation and software development in Norway, 1970-2005"

Hong-Hong Tinn, Cornell University: "The Making of the Do-It-Yourself Computers, Commercial Districts of Electronics Products, and the Popularization of Personal Computers: Exploring the History of Computers in Taiwan from 1970 to 2000"

### 16. Looking Back by Looking Forward: Futurist Imaginings of Technology

*Chair:* Hyungsub Choi, Chemical Heritage Foundation

*Organizers:* Ann Johnson, University of South Carolina

Hyungsub Choi, Chemical Heritage Foundation

*Comment:* TBD

Ann Johnson, University of South Carolina: "From Here to 2020: Policy Makers' Visions of the Future"

Patrick McCray, University of California-Santa Barbara: "Reconverging Technologies: Space, Nano, and the Fountains of Paradise"

Cyrus Mody, Rice University: "Crazy or Brilliant or?: Molecular Electronics and the Interpretive Flexibility of Personality"

Joseph November, University of South Carolina: "Towards Bioengineering: Computerization and Futurism at the NIH"

### 17. Public Politics of Computing, the: Tacit, Explicit, and Unresolved Commitments

*Chair:* Nathan Ensmenger, University of Pennsylvania

*Organizer:* Rebecca Slayton, Stanford University

*Comment:* Ronald Kline, Cornell University

Rebecca Slayton, Stanford University: "Politics of Progress, the: Computerniks as Activists and Professionals in the Era of Vietnam"

Janet Abbate, Virginia Tech, Alexandria campus: "Proto-feminism and Programming: Gender Politics in Computing Before the Civil Rights Era"

Paul Edwards, University of Michigan: "Ideology and Irony in Technopolitics: Computers and Apartheid Revisited"

Eden Medina, Indiana University: "Fighting the Status Quo: Marx's Capital and the Cybernetics of Beer"

### 18. The Emergence of Educational Technology in North America

*Chair:* TBD

*Organizer:* J. Jose Cortez, Syracuse University

*Comment:* TBD

J. Jose Cortez, Syracuse University: "The Revolt Against Formalism and Verbalism in Education in Professional Teaching Practice"

Bailin Fang, Marshall University: "The Lessons of Yesterday Applied Through Instructional Design to

Today's Professional Teaching Practice in the Classroom and at a Distance in Higher Education - Instructional Designers as Performance Consultants"

Rocci Luppicini, University of Ottawa: [paper title TBD]

Damon Yarnell: Food Adulteration

**Session 4a (Friday, October 19, 2007, 3:45 – 5:45 pm)**

**19. Blurring the Boundaries between the Natural and Unnatural (II): Designing Ecosystems**

*Chair:* Edmund Russell, University of Virginia

*Organizer:* TBD

*Comment:* TBD

Pam Mack, Clemson University: "The USDA Forest Service Restoring Historic Ecosystems: The Savannah River Site"

Elizabeth Malone, University of Maryland: "Creating New Nature: Engineered Wetlands"

Rebecca Pinkus, University of Toronto: "Engineering Greenspace for Public Health: Frederick Law Olmstead, Urban Parks, and the American Sanitary Reform Movement"

Fred Quivik: "Engineering Nature: The Souris River and the Production of Migratory Waterfowl"

**20. Technologies of Modeling: Models of Technology**

*Chair:* Amy Dahan-Delmedico, Museum National d'Histoire Naturelle

*Organizers:* Chris Bissel, Open University

Amy Dahan-Delmedico, Museum National d'Histoire Naturelle

*Comment:* Chris Bissel, Open University

Elodia Vielle Blanchard, Centre, Alexandre Koyre: "Global futures: images and mathematical models"

Charles Care, University of Warwick: "Analog and digital computers in context of use: the computer as a modeling machine"

Chris Dillon, Open University: "Models: what do engineers see in them?"

Antoine Picon, Harvard University: "Cybernetics, System Theory, Cities and Architecture 1950-1970"

**21. The Texts and Contexts of Computer Science and Technology**

*Chair:* TBD

*Comment:* Tom Misa, Charles Babbage Institute

Stuart Mawler, Virginia Tech, NO VA: "Executable Texts: Programs as Communications Devices and Their Use in Shaping High-tech Culture"

Eva Nesselroth-Woyzbun, Ryerson University: "An immaterial past: Tracing the discourse of digital history"

Aristotle Tympas, University of Athens: "Did the computing revolution start in parallel to the industrial revolution? Presentations of computing in influential steam and electricity treatises"

Chen-Pang Yeang, University of Toronto: "Representing Information with Noise: Constructing the Spread-Spectrum Communications Systems, 1940s-50s"

**Session 4b (Friday, October 19, 2007, 3:45 – 5:00 pm)**

**22. The Green Revolution Reconsidered**

*Chair:* TBD

*Organizer:* Jonathan Harwood, University of Manchester

*Comment:* Francesca Bray, University of Edinburgh

Jonathan Harwood, University of Manchester: "Rockefeller Foundation and 'peasant-friendly' approaches to plant-breeding in the 1940s"

Harro Maat, Wageningen University: "Facing the Ecology of Green Revolution Rice: the controversy around the System of Rice Intensification and its consequences for future rice improvement strategies"

Paul Peterson, Clemson University: "Improving Potato Production in Mexico: John S. Niederhauser and Rockefeller Foundation-sponsored research during the 1950s"

### 23. New Perspectives on Industrial R&D

*Chair:* Thomas Theis, IBM

*Organizer:* Orville Butler, American Institute of Physics

*Comment:* Margaret Graham, McGill University

Orville Butler, American Institute of Physics: "Research What? What Research? Changes in Industrial R&D"

Stephen Adams, Salisbury University: "R&D or just D? Modern Industrial Research and the Innovator's Dilemma"

R. Joseph Anderson, American Institute of Physics: "Documenting Industrial R&D"

### 24. Top-Down Innovation: the Government's Role

*Chair:* Miriam Levin

*Comment:* Robert Kargon, Johns Hopkins University

Sebastien Brunet, and Pierre Delvenne, Univ. de Liege: "Providing Intelligence on Technological Innovations in the Framework of Parliamentary Technology Assessment Offices: Looking Back on a 35-Year Evolution"

Anders Houlitz, Royal Institute of Technology: "Selling the Moon Camera"

Vincent Lagendijk, Eindhoven University of Technology: "Myths of Kaprun: Material visions of Europe through rotating lenses of technology"

Aashish Velkar, London School of Economics: "Gauging Accurately: Negotiation, Competition, and

the Standardization of the British Wire Gauge (1883)"

### Session 5 ( Saturday, October 20, 2007, 8:30 – 10:00 am)

### 25. Data: Representation and Collection

*Chair:* TBD

*Organizers:* Chihyung Jeon, MIT

Keith Nier

Jamie Pietruska, MIT

*Comment:* Bev Sauer, Johns Hopkins University

Chihyung Jeon, MIT: "Bringing the Atmosphere Back: Pilots and Self-Recording Instruments in the U.S. Upper-Air Observation, 1920-1940"

Keith Nier: "Technological Foundations of Truth and Control in Modern Science and Industry"

Jamie Pietruska, MIT: "Literary Technologies and the Policing of Uncertainty in the U.S. Weather Bureau, 1981-1909"

### 26. Engineering Education (A): Global Perspectives on Engineering Education

*Chair:* Steve Usselman, Georgia Tech

*Organizer:* Atsushi Akera, RPI

*Comment:* John K. Brown, University of Virginia

Gary Downey, Virginia Tech: "Distance from manual Labor: Engineering Formation and the Metrics of Progress"

Maria Diogo and Ana Matos, Univ. Nova de Lisboa: "From France to Germany: The Training of Portuguese Engineers from 1850 to 1950"

Park Doing, Cornell University: "Implicating Performance of Technological Agency and Epistemology in Engineering Ethics and Sustainable Design"

**27. History of Technology and the History of Africa (A): Making Africa, Making Technology: the complexity of social and technological systems in the history of Africa**

*Chair:* Gabrielle Hecht, University of Michigan

*Organizer:* Keith Breckenridge (with Gabrielle Hecht), Univ. KwaZulu-Natal

*Comment:* Nina Lerman, Whitman College

Tim Burke, Swarthmore College: "Emergence, Complexity, Technology: Towards an Anticipation of the Unexpected"

Thomas Dunbar Moodie, Hobart & William Smith Colleges: "Getting The Gold Out Of The Ground: Social constraints and financial limitations on technical capacity in South African Deep-Level Mining"

Bill Storey, Millsaps College: "Guns, Conflict and Citizenship: A Comparison of Nineteenth-Century New Zealand and Southern Africa"

**28. Marketing Medicine**

*Chair:* TBD

*Comment:* Margaret Weitekamp, National Air and Space Museum

Edward Landa, U. S. Geological Survey: "Growing, Glowing, Gone: The Rise and Fall of the American Radium Industry"

Kara Swanson, Harvard University: "Human Milk as Technology and Technologies of Human Milk: Milk Banks in the 20th Century United States"

Doogab Yi, Princeton University: "From Laboratory to Factory and Vice Versa: Gift and Commodity in Biomedical Materials Exchange and Production at the New England Enzyme Center, 1962-1980"

**29. SHOT and the Science-Technology Relationship: Responding to Paul Forman's Critique**

*Chair:* Eric Schatzberg, University of Wisconsin

*Organizer:* Eric Schatzberg, University of Wisconsin

*Comments:* David Edgerton, Imperial College

Ronald Kline, Cornell University

Stuart W. Leslie, Johns Hopkins University

Carroll Pursell, Macquarie University

M. Norton Wise, University of California-Los Angeles

Pail Forman, National Museum of American History

**30. The Machine and the Body**

*Chair:* TBD

*Comment:* Martina Blum

John DiMoia, Princeton University: "'There Must be Something Wrong with Me': Thoracic Diplomacy at Seoul National University Hospital, 1957-1967"

Isabelle Dussauge, Royal Institute of Technology: "Anatomy Remediated: Aligning New and Older Technomedical Gazes"

So Yeon Leem, Seoul National University: "Light-Touched Bodies, It's Natural!: Medical Skin Care Technologies in Korea"

Deborah Levine, Harvard University: "Big Men in a Little Box: Wilbur O. Atwater's research on the use of food calories in the United States and the use of prescriptive diet, 1870-1900"

**Session 6 (Saturday, October 20, 2007, 10:15-11:45 am)**

**31. A New Look at Weaponry**

*Chair:* Allan Needell, National Air and Space Museum

*Comment:* Alex Roland

John Alic: "The Origins and Nature of the 'Military Industrial Complex'"

Sean McCallum, Drexel University: "Corporate Guns for Hire: The Emergence of the Private Military Firm in the United States 1990-2006"

Zachary Schrag, George Mason University: "'To Punish Them Without Loss of Life': Gilded-Age Efforts at non-Lethal Riot Control, 1877-1910"

### **32. Artifacts, Museums, Materials, 2: Culture by Design**

*Chair:* TBD

*Comment:* Martina Hessler

Bernard Finn, National Museum of American History: "Contribution to the Historiography of Artifacts"

Jan Hadlaw, York University: "From Teakettles to Telephones: Technology, Design, and the Construction of Canadian National Identity in the 1960s"

Yvette Lane, Rutgers University: "Living in a Material World: Artificial Silk and the Fashioning of Modernity in Interwar Germany"

### **33. History of Technology and the History of Africa (B): Technologies of the self and the other in colonial Africa: The technopolitics of subjectivity in a colonial racial order**

*Chair:* Hakon W. Anderson, Norwegian University of Science and Technology

*Organizer:* Keith Breckenridge (with Gabrielle Hecht), Univ. KwaZulu-Natal

*Comment:* TBD

Jefferson Guy, Univ. KwaZulu-Natal: "Subjects, Objects, and the struggle for the image in the imperial era in South Africa"

Vukile Khumalo: "'Warm oneself at the society of men, and women:' Reconfiguring the idea of *Ibandla* in 19th century Natal and Zululand"

Lynn Thomas, University of Washington: "Skin Lighteners as Transnational Technology and Commodity"

### **34. Inventors, Patents, and the Judgements of History**

*Chair:* Carolyn Cooper, Yale University

*Organizer:* C. R. Beauchamp, New York University School of Law

*Comment:* Kristine Bruland, University of Geneva

C. R. Beauchamp, New York University School of Law: "Follow the Lawyers"

Christine MacLeod, University of Bristol: "Frozen in Time: British heroes of invention"

Kathryn Steen, Drexel University: "Politics and technical expertise in the government: the U.S. Patent Act of 1952"

### **35. New and Underutilized Sources of Significance in the History of Technology: Views from the Archives**

*Chair:* Darwin Stapleton, Rockefeller Archive

*Organizer:* Darwin Stapleton, Rockefeller Archive

*Comment:* Darwin Stapleton, Rockefeller Archive

Lynn Catanese, Hagley Museum and Library

Ginny Kilander, University of Wyoming

Martin Levitt, American Philosophical Society

Thomas Rosko, MIT Libraries

Jeffrey Yost, Charles Babbage Institute

### **36. Setting Standards for Communication Technologies**

*Chair:* TBD

*Organizer:* Andrew Russell, Johns Hopkins University

*Comment:* Kenneth Lipartito, Florida International University

Andrew Russell, Johns Hopkins University: "Standardization Across the Boundaries of the Bell System, 1920-1938"

Jonathan Coopersmith, Texas A&M: "Creating Fax Standards: Technology Red in Tooth and Claw?"

Craig N. Murphy, Wellesley College; and Jo Ann Yates, MIT: "The Telegraph and the Emergence of International Standardizing Institutions"

Christopher Sterling, The George Washington University: "Technical Standards and the FCC: Changing Patterns"

**Session 7 (Saturday, October 20, 2007, 1:30 – 3:30 pm)**

**37. Artifacts, Museums, Materials, 1: Museums**

*Chair:* Carolyn Goldstein

*Comment:* Debbie Douglas, MIT Museum

Stefan Bargheer, University of Chicago: "The Play of the Eye: The Tools and Techniques of Natural History Collecting and the Emergence of Nature Conservation in Great Britain, 1870-1930"

Robert Friedel, University of Maryland: "Artifacts, Museums and the History of Technology: A Historiographical Inquiry"

Ashley Shew, Virginia Tech: "The Epistemic Status of Natural Artifacts"

David Unger, Harvard University: "Politics of the Spokeshave: Living History Museums and Craft Re-Creation"

**38. Cold War (A): Technology Transfer**

*Chair:* Jenifer Light, Northwestern University

*Comment:* TBD

Thomas Lassman, U.S. Army CMH: "Rethinking the History of Military R&D during the Cold War: Technology Transfer and the Role of Research and Development in the U.S. Army's Manufacturing Arsenal, 1945-75"

Cristina Nelson, University of North Carolina: "The Atomic Bomb and the Corset: Foundation Garment Textiles and Technology in the Postwar United States"

Mikael Nilsson, Royal Institute of Technology: "Tools of Hegemony: Understanding U.S. Preponderance and Advanced Military Technology Transfer at the Height of the Cold War"

Jenny Smith, Yale University: "The Ambivalent Milkshed: African Values and Industrial Pretensions in Postcolonial Ghana"

**39. "The Mindful Hand": rethinking the historical relation between theory and practice**

*Chair:* Lissa Roberts, University of Twente

*Organizer:* Lissa Roberts, University of Twente

*Comment:* TBD

Lissa Roberts, University of Twente: "Generating knowledge and know-how: Dutch-Japanese trade during the second half of the eighteenth century"

Alette Fleischer, University of Twente: "Trick and Truths: Constructing a garden and examining nature in a 17th Century Dutch grotto"

Ian Inkster, Nottingham Trent University: "Comparative and Global Reflections on Mindful Hands in Sites of Endeavour"

Chandra Mukerji, University of California-San Diego: "Mindful Hands of Peasant Women, the Design on the staircase lock at Fonseranes for the Canal du Midi"

**40. Narratives of Technology**

*Chair:* TBD

*Comment:* Joseph Tatarewicz, UMBC

Bernard Geoghegan, Northwestern: "Grandfathering Technology: Information Theory and the role of Historiography in Scientific Innovation"

Willie Hiatt, University of California-Davis: "High Technology in the Jungle: Aviation and the New Civilizing Mission in the Peruvian Amazon Region, 1925-1940"

David L. Morton: "Magic and the History of Technology"

Anna Storm, Royal Institute of Technology: "How industry became heritage: articulation and positioning 1995-2005"

#### **41. Revisiting Debates on Dictatorship and Technology**

*Chair:* Thomas Zeller, University of Michigan  
*Organizer:* Dolores Augustine, St. Johns University  
*Comment:* Michael Neufeld, National Air and Space Museum

Dolores Augustine, St. Johns University: "Red Prometheus: Dictatorship and Industrial Technology in East Germany"

Michael Thad Allen, Georgia Tech: "Auschwitz and the Triple Helix of Industry, Scientific Community, and the State in Nazi Germany"

Scott Palmer, Western Illinois University: "Reassessing the History of Soviet Technology"

Rudiger Stutz: "Speer's Men': Technical Elites in the Nazi State"

#### **42. Visual Culture**

*Chair:* TBD  
*Comment:* David Halberstich, National Museum of American History

Michelle Damian, East Carolina University: "Visual Clues: Representations of Wooden Boats in Japanese Woodblock Prints"

Ellen K. Levy, Brooklyn College: "Public secrets; how might art professionals view the history of technology"

Sudhir Mahadevan, New York University: "The Uses of Obsolescence: Film and Photography in India"  
 Julie Wosk, SUNY Maritime: "Imagining Technological Disasters"

#### **Session 8 (Saturday, October 20, 2007, 3:45 – 5:45 pm)**

#### **43. 50 years of Computer Use - Continuity and Change**

*Chair:* Michael Mahoney, Princeton University  
*Organizer:* Thomas Haigh, University of Wisconsin-Milwaukee  
*Comment:* William Aspray, Indiana University

Greg Downey, University of Wisconsin: "Library vs. the Computer, the: Five Decades of Premature Obituaries?"

David Hemmendinger, Union College: "Fifty Years of Programming Languages"

William McMillan, Eastern Michigan University: "Fifty-Plus years of Amnesia in Computing: The Disappearance and Resurrection of Virtual Machines as a Case Study"

Roy G. Saltman: "Fifty Years of Computerized Elections: Technologies and Institutions"

#### **44. Cold War (B): the Intersection of Politics & Technology**

*Chair:* TBD  
*Comment:* Bart Hacker, National Museum of American History

John Baesler, Journal of American History: "A Technology of Loyalty: The Use of the Polygraph in National Security Agencies, 1948-1988"

Nils Bruzelius, Royal Swedish Navy: "Near Friendly or Neutral Shores: Deployment of Fleet Ballistic Missile Submarines and US Policy towards Scandinavia, 1957-1960"

James David, National Air and Space Museum: "Reciprocal Radio Rights, the U.S. Intelligence Community, and Communications Technology"

Jonathan Hagood, University of California-Davis: "A History of Nuclear Technology: Looking Beyond the Cold War Paradigm"

#### **45. Engineering Education (C): Why SHOT Exists: "Humanistic-Social" Education and Engineering Curricula**

*Chair:* Ross Bassett, North Carolina State University

*Organizer:* Atsushi Akera, RPI

*Comment:* Amy Slayton, Drexel University

Rob Martello, Olin College of Engineering:  
"Educating the "Whole" Engineer: Present-Day  
Interdisciplinary Integration of Humanities and Social  
Science Content in Engineering Curricula"

Matt Wisnioski, Washington University: "Liberal  
Education has Failed!: Crisis and Functionality in the  
Sixties"

Carl Mitcham, Colorado School of Mines: "A  
Historico-ethical Perspective on Engineering  
Education"

Atsushi Akera, RPI: "The Origins of Humanistic-  
Social Education and a Liberal Vision of the  
'Technological University' at MIT, 1947-1962"

#### **46. Infectious Enthusiasm: Carroll Pursell and the History of Technology**

*Chair:* Paul Israel, Rutgers University

*Organizer:* Arwen Mohun, University of Delaware

*Comment:* TBD

Arwen Mohun, University of Delaware: "Inscribed on  
the Body: Reading Industrial Disabilities in the Age  
of Kafka and the Wizard of Oz"

Aaron Alcorn, Case Western Reserve: "Putting the  
Boy Inventor in his Place: Workshops as Metaphors  
for Adolescence"

Molly Berger, Case Western Reserve: "Young  
Engineers in Cleveland: Explorations of Popular  
Culture"

Bernard Jim, Case Western Reserve: "Villains  
and Heroes: The Racial and Gender Construction  
of Building Wreckers"

#### **47. Mobility and Modernity: Topics in Transportation**

*Chair:* I. Anastasiadou

*Comment:* Hans-Ludiger Dienel

Suzanne Beauvais, Canada Science &  
Technology Museum: "Miss Daisy Driving: an  
exploratory study of gender in carriages"

Amy Gangloff, Mississippi State: "Medicalizing the  
Automobile: Hugh De Haven, "Crashworthiness",  
and the Traffic Safety Act of 1966"

Bill Luckin, University of Bolton: "Medicine, The  
Law, and Road Traffic Fatalities in Britain, 1945-70"

Barbara Schmucki, University of York: "Mobility,  
Identity, Modernity: On the Place of Urban Transport  
in the History of Technology"

#### **48. Reflections on SHOT**

*Chair:* TBD

*Comment:* TBD

Hans-Joachim Braun, Universitat der Bundeswehr  
Hamburg: "Giant and Dwarf? The SHOT-ICOHTEC  
Relationship"

Graeme Gooday, University of Leeds: "Patently  
Inapplicable: looking back to the strange debate over  
technology as 'applied science'"

Dan Holbrook, Marshall University: "Tell me Why I  
Don't Like Sundays: Patterns in SHOT Meeting  
Sessions, 1982-2006"

Elaine King, Carnegie Mellon University:  
"Technology, Ethics, and Social Accountability Then  
and Now"

**Session 9 (Sunday, October 21, 9:00 – 10:30 am)****49. Borders and Barriers: Transnational Issues of Technological Development***Chair:* TBD*Comment:* Martin Collins, National Air and Space Museum

Hyungsub Choi, Chemical Heritage Foundation:  
"Rising Sun of Electronics," the: Japanese Transistor Manufacturing in Transnational Perspective"

Dorthe Gert Simonsen, University of Copenhagen:  
"Aviation and the rescaling of national territoriality: The European conceptualization of airspace 1910s-1940s"

Jennifer Spohrer, Columbia University: "The Limits of National Historiography: The Transnational Development of National Public Broadcasting in Interwar Europe"

**50. Legal Systems Shaping Technological Systems, 1850-1950***Chair:* David Sicilia, University of Maryland*Organizer:* Betsy Mendelsohn, University of Maryland*Comment:* Jessica Wang, University of British Columbia

Betsy Mendelsohn, University of Maryland: "Legal Construction of Air as a Preliminary to State Technological Systems: Public Health and Agriculture, 1865-1930"

Y. Srinivasa Rao, Indian Institute of Technology:  
"Legal Mechanisms and Technological Determinism: Role of Law in the Expansion of Electricity Network in Madras Presidency, 1900-1947"

Rick Woten, Iowa State University: "Navigating Improvement in a Settler Society: Constructing the Des Moines River Improvement Project, 1846-1902"

**51. History of Technology and the History of Africa (C) Networks, Flows, Infrastructures: Africa in the world***Chair:* Paul Edwards, University of Michigan*Organizer:* Keith Breckenridge (with Gabrielle Hecht), Univ. KwaZulu-Natal*Comment:* Arne Kaijser, Royal Institute of Technology

Keith Breckenridge, Univ. KwaZulu-Natal: "Made in America: Progressive Mining Engineers and the origins of corporate capitalism in South Africa"

Heloise Finch, University of Michigan: "It's like a child you see being born: landscapes of national progress in Reunion Island"

Libbie Freed, SUNY Potsdam: "The Empire's New Roads: Colonial Africa and the History of Technology"

**52. New Perspectives on Charles Lindbergh***Chair:* Dom Pisano, National Air and Space Museum*Organizer:* Carl Bobrow, National Air and Space Museum*Comment:* Dom Pisano, National Air and Space Museum

Carl Bobrow, National Air and Space Museum:  
"Lindbergh Mania as Expressed in Material Culture"

Dorothy Cochrane, National Air and Space Museum:  
"Anne Morrow Lindbergh, Pilot and Literary Light in Aviation"

Roger Connor, National Air and Space Museum:  
"Weems and Watches: Charles Lindbergh and the Elite of Air Navigation"

Robert van der Linden, National Air and Space Museum:  
"Charles Lindbergh, T.A.T., and the Creation of the U.S. Passenger Airline Industry"

### 53. Picturing Tools: Visual Culture, Technology & Public Messages

*Chair:* Guillaume de Syon, Albright College  
*Organizer:* Guillaume de Syon, Albright College  
*Comment:* Jennifer Alexander, University of Minnesota

Suzanne Fischer, University of Minnesota: "Seeing and Selling the Syringe: Visualizing Scientific Medicine in the Early 20th Century U.S"

Ann Schoenfeld, Pratt Institute: "New 'Tools of Mass Construction': Thoughts on Do-it-yourself Culture Today"

David Wittner, Utica College: "Imagining the Japanese Nation: Representations of Cultural Pride in Silk Brand Labels"

### 54. The Permeable Iron Curtain: Cases of Innovation and Technology Transfer from East to West in Communist Poland, East Germany, Czechoslovakia, and Hungary

*Chair:* TBD  
*Organizer:* Karen Freeze, University of Washington  
*Comment:* Elizabeth Van Meer

Karen Freeze, University of Washington: "Technological Innovation and the Permeable Iron Curtain: How the open-end spinning machine from Communist Czechoslovakia revolutionized the textile world"

Pal Germuska, Institute for the History of the 1956 Hungarian Revolution Breakout: "The Third World Licenses and R&D in the Hungarian military industry in the 1970s and 1980s"

Dagmara Jajeziak-Quast, Center for Research in Contemporary History: "East-West Technology Transfer in Iron and Steel Industry during the Cold War"

### Session 10 (Sunday, October 21, 2007, 10:45 am – 12:15 pm)

#### 55. "Aviation History in the Wider View" Revisited...An Assessment of the Field

*Chair:* Tom Crouch, National Air and Space Museum  
*Organizers:*  
 Jeremy Kinney, National Air and Space Museum  
 Alan D. Meyer, National Air and Space Museum / University of Delaware  
*Comment:* David T. Courtwright, University of North Florida  
 James R. Hansen, Auburn University

Jeremy Kinney, National Air and Space Museum: "'Aviation History and the Wider View': An Update"

John S. Olszowka, Mercyhurst College: "A Look at Aviation's Pioneering Spirit from the Shop Floor: The Ideology of the Aircraftsman, 1914-1934"

Jennifer Van Vleck, Yale University: "'The Logic of the Air': Aviation and the Globalism of the American Century"

#### 56. Consumers Shaping Technology

*Chair:* Karen Zachmann  
*Comment:* Thomas Brandt

Ardic Nurullah, University of California-Los Angeles: "Social Shaping of Technology: The Cell Phone and the Public/Private Distinction"

Adri A. Albert de la Bruheze, University of Twente: "Manufacturing Technology: Manufacturing Consumers: the contested making of Dutch Consumer Society in the Twentieth Century"

Thomas Kaiserfeld and Per Lundin, Royal Institute of Technology: "Separate Summer Homes: Scandinavian Leisure Consumption and Its Ideologies during the Short 20th Century"

### 57. Engineering Education (B): History of Engineering Education in the United States

*Chair:* Gary Downey, Virginia Tech

*Organizer:* Atsushi Akeru, RPI

*Comment:* Rosalind Williams, MIT

Ross Bassett, North Carolina State University:  
"Engineering India: Engineering America: Indian Engineering Students at MIT, 1900-2000"

Carol Johnson, New Jersey Institute of Technology:  
"Evolving Standards of Engineering Education and the Meaning of Degrees, 1870-1900"

Scott Knowles, Drexel University: "A Unity of Risks: Educating the Hazards Engineer in Postwar America"

### 58. Networks of Knowing--Technology Transfer & Open Source Innovation

*Chair:* William Aspray, Indiana University

*Organizer:* Thomas Haigh, University of Wisconsin-Milwaukee

*Comment:* TBD [was Lars Heide, who cancelled]

Thomas Haigh, University of Wisconsin-Milwaukee:  
"Open Source Software at 50: Its Corporate and Mathematical Origins"

David Anderson, University of Portsmouth:  
"Challenging the Engineering Perspective: A New Look at the Development of the World's First Stored Program Computer"

Chigusa Kita, Kansai University: "From Technological Mimesis to Creativity: Early Online Rail Reservations in Japan"

Peter Meyer, U.S. Bureau of Labor Statistics:  
"Beyond Computer Exceptionalism: Open Source Aeronautics Before 1903"

### 59. Sensing Southern Culture: Sensory History, Technology and the American South, 1800-1960

*Chair:* Christine Keiner, Rochester Institute of Technology

*Organizer:* Gerard Fitzgerald, Chemical Heritage Foundation

*Comment:* Christine Keiner, Rochester Institute of Technology

Gerard Fitzgerald, Chemical Heritage Foundation:  
"Void of either feeling or ambition': Worker Fatigue and Technological Change in Southern Textile Mills, 1915-1940"

Gabriella Petrick, New York University: "Savoring Southern Bounty: The TVA, Social Uplift, and the Development of Palatable Frozen Foods, 1930-1960"

Philip Richardson, University of South Carolina:  
"Dixie by Gaslight: Modernity and Lighting Technology in the Old South"

### 60. SHOT and the Visual Documents (Studies): Hot Perspectives and Bad Shots

*Chair:* Philip Scranton, Rutgers University

*Comment:* Vanessa Schwartz, University of Southern California

Vincent Guigueno, Ecole des ponts/Ecole française de Rome: "Burlesque film makers (Chaplin, Tati) as historians of technology?"

Vinzenz Hediger, Ruhr University: "Record, Rhetoric, Rationalization: Notes on Film and Industrial Organization"

Terry Smith, University of Pittsburgh:  
"Manufacturing Industry within Spectacle Societies: The Implications for Visual Representation"

### 61. Poster Session

Abigale Schade, Columbia University: "The Ancient *Qanat* Irrigation Systems of the Western Desert of Egypt"

**Society for the History of Technology Annual Meeting  
October 17-21, 2007      Washington, DC USA**

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<b>Affiliation/ Organization/ Institution</b>	

<b>Registration—by 9-10-07</b>	<b>Cost</b>	<b>Total</b>
Early registration—SHOT member	\$95	
Early registration—SHOT student member	\$45	
Early registration—non-SHOT member	\$120	
Early registration—non-SHOT member student	\$55	
Early registration—SHOT member retired/unemployed	\$80	
<b>After 9-10-07</b>		
SHOT member registration	\$115	
SHOT student member registration	\$60	
Non-SHOT member registration	\$140	
Non-SHOT member student registration	\$70	
SHOT member retired/unemployed	\$100	

<b>Audio/Visual Request (per completed AV form)</b>		
Speakers requesting SHOT-supplied PowerPoint projector—graduate students	\$25	
Speakers requesting SHOT-supplied PowerPoint projectors—all others (not graduate students)	\$35	

<b>Tours</b>	<b>Cost</b>	<b>Total/Indicate Participation</b>
Udvar-Hazy Center (limited to 55 people)	\$15	
Renovation at the National Museum of American History (limited to 10 people per tour)—indicate first and second choice of times	\$13	
<b>First Choice</b> Thursday, Oct. 18 2:30-4:30 ___ Thursday, Oct. 18 3:30-5:30 ___ Friday, Oct. 19 2:30-4:30 ___ Friday, Oct. 19 3:30-5:30 ___		
<b>Second Choice</b> Thursday, Oct. 18 2:30-4:30 ___ Thursday, Oct. 18 3:30-5:30 ___ Friday, Oct. 19 2:30-4:30 ___ Friday, Oct. 19 3:30-5:30 ___		
Metro Underground (limited to 30 people)	\$3	
Curseen-Morris Mail Processing Center (limited to 40 people)	\$15	
Harper's Ferry (limited to 55 people)	\$42	
Washington National Cathedral (limited to 55 people)	\$16	

<b>SHOT Events</b>	<b>Cost</b>	<b>Total/Indicate Participation</b>
Wed. evening plenary at NAE – please indicate participation	\$0	
Thursday anniversary workshop at George Mason University (lunch included)	\$15	
Thursday evening plenary at Carnegie Inst. – please indicate participation	\$0	
Friday evening Da Vinci roundtable – (limited to the first 80 people) – please indicate participation	\$0	
Friday evening reception –please indicate participation Accompanying person _____	\$0	
Saturday evening Awards Banquet _____ Accompanying person _____	\$60 \$60	

**Anyone with special transportation needs to the Wed. plenary, GMU, or Carnegie bldg. should contact Cynthia Bennet in the SHOT office by September 10, 2007.**

<b>SIG Meetings</b>	<b>Cost</b>	<b>Total/Indicate Participation</b>
Albatrosses Tortilla wrap _____ or baguette _____ with chicken _____ or vegetable _____	Friday lunch \$30	
Computers, Information & Society	Saturday lunch \$36	
Envirotech	Friday breakfast regular \$16 grad stu. \$6	
Mercurians/Jovians	Saturday breakfast \$20	
Military Technology	Friday lunch Pay there	
Prometheans Turkey breast on Kaiser roll _____ or grilled vegetables on baguette _____	Friday lunch regular \$30 grad stu. \$15	
TEMSIG	Friday lunch Pay there	
Tensions of Europe	Saturday breakfast Pay there	
WITH regular Tortilla wrap _____ or rye wheat _____ with grilled chicken _____ or grilled vegetables _____	Friday lunch regular \$30 grad stu. \$19	

<b>Other Meetings</b>	<b>Cost</b>	<b>Total/Indicate Participation</b>
Graduate Students (Open to current graduate students only)	Saturday breakfast No cost	

**Total amount for registration, tours, meetings, & receptions \$** \_\_\_\_\_

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### **REFUND POLICY**

**Until September 10, 2007:**

A full refund will be given of the registration fee plus tours, meals, and any other costs.

**September 10-October 1, 2007:**

50% of registration fee. Banquet cost and SIG meals fully refundable. Tour refunds **may** be offered, at the discretion of the SHOT office.

**After October 1, 2007:**

No refunds.

**REGISTRATION FORMS SHOULD BE MAILED TO THE SHOT OFFICE AT THE ADDRESS ON THE FIRST PAGE, OR THEY MAY BE FAXED TO THE SHOT OFFICE AT THE NUMBER SHOWN ON THE FIRST PAGE. BE SURE TO INCLUDE ALL PAGES FRONT AND BACK.**

**WE CANNOT ACCEPT REGISTRATION FORMS SENT BY EMAIL FOR SECURITY REASONS—ANY REGISTRATION SENT BY EMAIL WILL HAVE TO BE RESUBMITTED BY REGULAR MAIL OR FAX.**

## PRESIDENT'S MESSAGE

### *Maintaining Creative Boundaries*

Okay, call me a hedgehog. For the past three decades, I have spent the better part of my professional life contemplating one question: how do organizations encourage, and suppress, innovation? Put another way, how do we keep from suffocating under the weight of the institutions we create?

The question is on my mind this summer in part because some of my closest colleagues and I are pulling together our thoughts on the subject for an edited volume. But it is also a constant presence during my activities as SHOT president, as I lend a hand with the operations of our society and contemplate its second half-century.

One thing my study of organizations has convinced me is that the most important developments occur at the boundaries. Resilient institutions pay special attention to the places where they interact with the larger world. They look also for opportunities to reorganize their internal boundaries, where various constituencies mix and bring together their distinctive interests in novel arrangements. Such interactions are the ultimate source of creative vitality, not just for the organizations themselves, but for the larger endeavors they serve.

In recent years, SHOT has exhibited impressive creative energy in refashioning its own boundaries. One can see this readily in our journal, which has opened its pages to new varieties of scholarly expression that seek actively to engage a broader audience. This material has now migrated to a second outlet, the website eTC, where it gains added depth with additional features aimed at a still wider community. This site represents one component in the Society's broad-based efforts to enhance its web presence.

While obviously important, the web is not the only boundary receiving our attention. When the Executive Council gathered this spring here in Atlanta, it heard exciting reports concerning two initiatives the society launched in recent years with the intent of engaging groups beyond our current membership. One is the revamped International

Scholars program, which promises to build a cohort of ambassadors who will help SHOT promote the history of technology in areas of the world not currently represented in significant numbers among our membership. New procedures approved by the Council should insure that these scholars rapidly become active participants in the life of the Society.

The other initiative is our series of occasional "boutique" conferences designed to engage communities of scholars in other disciplines. The latest, spearheaded by SHOT's Amy Slaton in collaboration with colleagues at Drexel, Temple, and Rutgers, produced a stimulating series of papers on the topic race and technology. We will be seeing the fruits of this gathering for years to come in our publications and at our own meetings, much as we will have the opportunity in DC to hear a stimulating series of papers derived from an earlier boutique conference on technology in South Africa.

You can read much more about the DC meeting elsewhere in this newsletter. Here let me simply point out how the program of events is peppered with evidence of our concerted efforts to open our boundaries. The slate includes events at the Carnegie Institute, the National Building Museum, and the National Academy of Engineering. The Thursday workshop, sponsored by NSF and organized by Bruce Seely, features a stunning roster of participants, some familiar to many of us as regular SHOT attendees, others less so, but all committed to rethinking the intellectual boundaries of our discipline and considering its possibilities for engaging a wider community.

One new voice that I particularly look forward to hearing is that of Richard White, the distinguished historian of the peoples and environment of the American West. Those of you familiar with his many books know that Professor White has a great deal of importance to teach us about boundaries, past and present. During his recently completed stint as president of the Organization of American Historians, as well as in his own scholarship, Professor White has gone out of his way to bring the history of technology back into the broader field of American history. The benefits of these newly porous boundaries were readily apparent at the OAH meeting this spring, held on the occasion of that association's hundredth anniversary. The workshop in DC will smooth the

way for further collaboration in this area and open pathways to many others.

Our program for DC bears many marks from one other major source of institutional vitality within SHOT: our Special Interest Groups. In addition to the usual array of breakfasts and lunches, you will see numerous sessions generated by SIGs. At least two groups have organized special tours and conferences to take place in conjunction with the regular meeting.

Thanks to the diligence of former president Terry Reynolds, the Executive Council had a chance to consider the important role played by these distinctive cohorts within SHOT. The Council is looking to bolster the SIGs with enhanced web presence and other means of assistance. At the 2009 meeting in Pittsburgh, we will open the Sunday morning time slots to proposals from SIGs and other groups within SHOT. We see this as an organizational experiment; a bit of boundary re-drawing that takes us a step toward something akin to a federalist system, in which groups have some autonomy to operate within the overarching framework of the Society.

In the final analysis, of course, the history of technology transcends SHOT or any other single organization. The field will thrive to the extent its individual practitioners press their own creative boundaries. Hopefully, our efforts as an organization help further that cause.

*Steve Usselman*  
Georgia Tech

## ANNOUNCEMENTS

### SHOT and *T&C* on the Web: You Can Help

As anyone reading this knows, *Technology and Culture* is published both in print and online. Since 1998, when *T&C* moved to the Johns Hopkins University Press and joined Project Muse, use of the electronic edition has been steadily increasing—and so has its importance to SHOT's revenues. Meanwhile, as you also know, SHOT has recently

begun a concerted and long-term effort to make better use of the Web for the society's other activities as well, and to use the Web more effectively to reach out to new constituencies.

SHOT members can help with those efforts in a couple of simple ways. First, if you have a personal web page, or maintain a web page for an organization or department, consider linking to SHOT, <http://www.historyoftechnology.org>, and to *T&C*'s new venture online, eTC, at <http://www.historyoftechnology.org/eTC/eTCmain.html>. One of the keys to our success in extending SHOT's reach online is increasing the number of opportunities for people to learn who we are and what we do. More links means more traffic to the SHOT website.

Second, if you use articles from *T&C* in your teaching, please consider having students read that material online through Project Muse (for issues from July 1998 to the present) or JSTOR (from 1959 to April 1998) rather than including it in a coursepack or putting it on electronic reserve. Simply put, SHOT's income from the electronic edition of *T&C* is determined by how many people read it; increasing the number of students using *T&C* online would be a direct and important benefit to the society and the journal.

### Lemelson Fellows

The Smithsonian's Lemelson Center is pleased to announce three new fellows selected for 2007. Eric Hintz (Ph.D. Candidate, University of Pennsylvania) examines the changing fortunes of independent American inventors during the rise of corporate R&D in the first half of the twentieth century. Jeffrey Matsuura (Counsel, Alliance Law Group) explores the development of trans-Atlantic cables at the Anglo-American Telegraph Company as a case study on the role of innovation in large, complex, international ventures. Fred Nadis (Associate Editor, ABC-Clio) studies the engineering and design innovators behind America's early rollercoasters and theme rides. The next deadline for fellowship proposals is January 15, 2008. The Lemelson Center accepts proposals for its Travel to Collections Award

program throughout the year. For more information about research opportunities at the Lemelson Center, please visit

[www.invention.smithsonian.org/research\\_opps](http://www.invention.smithsonian.org/research_opps)

### Seeking author, IAEA, middle and lower high school readers

A commercial youth non-fiction publisher is seeking an author for a 25,000 word book on the International Atomic Energy Agency as part of a series of short books on world organizations for grades 7-10 (and up). We are seeking a writer who has expertise in international relations/organizations and/or the agency and its work and an ability and desire to write for this young audience. The manuscript deadline is likely to be early 2008.

Interested candidates should send a letter explaining their interest and expertise, a c.v., and a writing sample relevant to the project to Peggy Kahn ([pegkahn@umflint.edu](mailto:pegkahn@umflint.edu)) as soon as possible. As the series consulting editor, I am also happy to answer questions about the series and the book.

Peggy Kahn  
Professor  
Department of Political Science  
310 French Hall  
University of Michigan-Flint  
303 E. Kearsley St.  
Flint, Michigan 48103  
810 762 3471/0 (office phone)

### Hagley Center Business History Conference Prizes – 2007

At the Business History Conference annual meeting in Cleveland, May 31-June 2, 2007, officers announced the following recipients of BHC prizes and grants.

#### Business History Conference Lifetime Achievement Award

The award is bestowed every two or three years to a nominee who has contributed the most to the work of the Business History Conference and to scholarship in business history.

2007 recipient: Louis Galambos, Johns Hopkins University

#### Hagley Prize

The prize is awarded jointly by the Hagley Museum and Library and the Business History Conference to the best book in business history (broadly defined) written in English and published during the two years prior to the award.

2007 recipient: Christopher D. McKenna, University of Oxford

#### *The World's Newest Profession: Management Consulting in the Twentieth Century*

#### Herman E. Krooss Prize

The prize recognizes the Best Dissertation in Business History written in English and completed in the three calendar years immediately prior to the annual meeting.

2007 recipient: Bethany Moreton, University of Georgia

“The Soul of the Service Economy: Wal-Mart and the Making of Christian Free Enterprise, 1929-1994” (Yale University, 2006)

#### Newcomen Article Prize

This prize recognizes the author of an article published in *Enterprise & Society* judged to be the best of those that have appeared in volume previous to the year of the BHC annual meeting. It is supported by the Newcomen Society.

2007 recipient: Dario Gaggio, University of Michigan

“Pyramids of Trust: Social Embeddedness and Political Culture in Two Italian Gold Jewelry Districts, *Enterprise & Society* 7:1 (March 2006).

#### K. Austin Kerr Prize

The prize recognizes the best first paper delivered at the annual meeting of the Business History Conference by a new scholar (doctoral student or those within three years of receiving their Ph.D.).

2007 recipient: Eric S. Hintz, University of Pennsylvania

“Independent Inventors in an Era of Burgeoning R&D”

**American Textile History Museum  
To Close During Renovation of  
Core Exhibition**

Starting July 2, 2007, the sights and sounds of spinning and weaving will give way to a bevy of behind-the-scenes activity when the American Textile History Museum (ATHM) closes temporarily to the public to begin work on renovating its Textiles in America (TIA) core exhibition.

During the time the Museum's exhibition galleries will be closed to the public for renovations, its Administrative offices, Collections department and

the Osborne Library will remain open by appointment, and selected school and scout programs will be available. Visit the website [www.athm.org](http://www.athm.org) for up-to-date information, including school and scout offerings and fees.

The American Textile History Museum tells America's story through the art, history and science of textiles. It is home to the most significant textile history collection in North America, with an extraordinary library and one of the world's largest and most important publicly held collections of tools, spinning wheels, hand looms and early production machines. The Museum's textile collections include more than 5 million pieces of textile prints, fabric samples, rolled textiles coverlets and costumes.

A \$3.9 million Campaign for the American Textile History Museum is now in progress, with donations for the \$1.5 million renovation to the Textiles in America core exhibition, and the \$1.4 million general operating fund still needed to complete the Campaign. For information on how to donate or pledge, please contact Marisa Tescione in the development office at 978-441-0400, ext. 246, or visit [www.athm.org](http://www.athm.org).

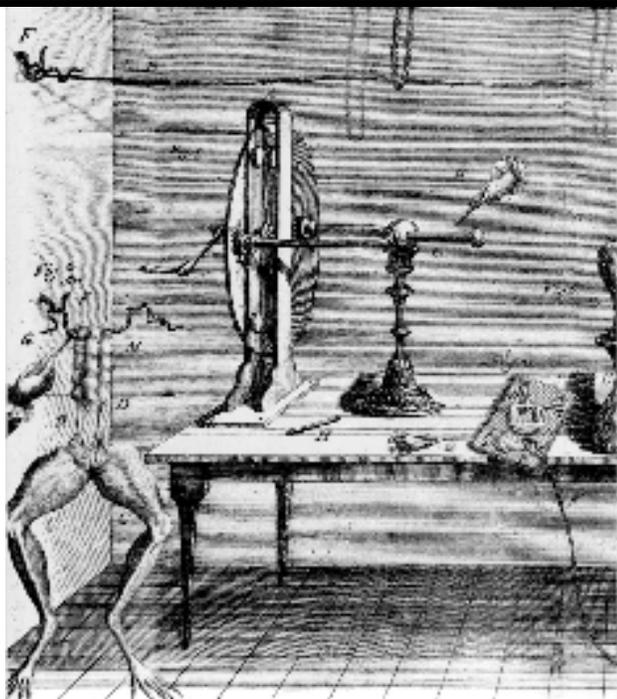
The SHOT web site has moved to a new location in cyberspace, <http://www.historyoftechnology.org>, where you can also find exciting new "eTC" features and electronic versions of some recent T&C material. Please update your links and bookmarks, and check the new address regularly for the latest on the annual meeting and other information.

***CHECK THE WEBSITE  
FOR ANNUAL  
MEETING UPDATES***

**PLEASE CONSIDER  
CONTRIBUTING TO THE  
"FIFTY FOR THE FIFTIETH"  
CAMPAIGN**

**INFORMATION ABOUT  
FIFTIETH-ANNIVERSARY  
SPECIAL SPONSORSHIP  
OPPORTUNITIES  
IS AVAILABLE ON THE  
ANNUAL MEETING WEBSITE.**

**THE 2008  
MEETING WILL  
BE IN LISBON,  
PORTUGAL  
OCTOBER 8-12.**



## DIBNER HISTORY OF SCIENCE PROGRAM at THE HUNTINGTON

In November 2006, the famous Burndy History of Science collection arrived at the Huntington Library. This exciting gift adds enormously to the Huntington's already fine history of science holdings. After cataloguing and processing, the collection will be available for scholars in the summer of 2008. Accompanying the library is the Dibner History of Science Program at the Huntington. This program will fund long- and short-term fellowships, an annual conference, a lecture series, and an ongoing seminar. This program is an exciting prospect for the Huntington, and we look forward to welcoming our first Dibner scholars.



**THE DEADLINE FOR FELLOWSHIP APPLICATIONS IS DECEMBER 15, 2007.**

*For information on how to apply, please go to the "Research" section of the Huntington's website at [www.huntington.org](http://www.huntington.org).*

### NEW PUBLICATIONS

*American Silk, 1830-1930: Entrepreneurs and Artifacts*, Texas Tech University Press, 2007

By Jacqueline Field, Marjorie Senechal, and Madelyn Shaw

*American Silk, 1830-1930* traces the evolution of the American silk industry through three compelling and very different case studies: the Nonotuck Silk Company of Northampton, Massachusetts; the Haskell Silk Company of Westbrook, Maine; and the Mallinson Silk Company of New York and Pennsylvania. The mills specialized in different products, from sewing-machine twist and embroidery threads to mass-produced plain silks and high fashion fabrics.

### NEWS OF MEMBERS

#### **Dr. Leo B. Slater Appointed Historian at the Naval Research Laboratory**

The Naval Research Laboratory (NRL) is pleased to announce the recent appointment of Dr. Leo B. Slater as the Laboratory's new historian. Dr. Slater will provide historical support to the NRL command, maintain the Laboratory's corporate memory, administer the oral history program, and carry out other preservation duties. He comes to NRL from the Office of NIH History and Museum at the National Institutes of Health (NIH) in Bethesda, Maryland.

## CALLS FOR PAPERS

### Business History Conference

The 2008 Business History Conference annual meeting will be held in Sacramento, California April 10-12, hosted by the California State University at Sacramento. Its theme is "Expanding Connections for Business History," with the goal of reaching across disciplines and audiences. It will focus on what business history offers to other fields of scholarship, as well as what business historians can learn from other scholarly perspectives. In addition, both the opening plenary and a roundtable will explore how historians can work with journalists to extend our reach into the public arena. Sessions will highlight research that is comparative, that contextualizes its subjects, or that examines any of the complex interactions that business activities involve. The conference will expand business history's intellectual connections and approaches, broadening our outreach to both scholarly and public audiences.

For the full call for papers, see <http://www.thebhc.org/>. The deadline for proposals is September 24, 2007. The BHC also offers several prizes, as well as travel grants to graduate students who are presenting papers. Please send queries to BHC President, Pamela W. Laird at [pamela.laird@cudenver.edu](mailto:pamela.laird@cudenver.edu).

Send proposals to Dr. Roger Horowitz, Secretary-Treasurer  
Business History Conference, P. O. Box 3630,  
Wilmington, DE 19807, USA.  
Phone: (302) 658-2400; fax: (302) 655-3188;  
[rh@udel.edu](mailto:rh@udel.edu).

### History | Gender | Computing

Workshop and Conference, May 30-31, 2008  
Charles Babbage Institute  
University of Minnesota

Computing remains one of the most gender-segregated domains of modern life, and yet the origins and implications of the gendered culture of

computing have received little attention from historians. How and when did a male-coded world of computing emerge? How and why has it persisted? What are the exceptions—and promising strategies for change? We seek to bring gender analytics within the “mainstream” of the history of computing, while welcoming contributions from the many allied disciplines and specialties.

We invite contributions that give a historical analysis of gender and computing. Proposals must indicate a clear argument or theme to be presented, explain the empirical grounding of the research, including the sources used for analysis and the historiographic context. Gender is here understood broadly including insights and concepts from women’s studies, feminist theory, and masculinity studies. Computing is understood to include hardware, software, systems, networking, services, computer science and engineering as well as the diverse uses of computing, including education, marketing, entrepreneurship, and popular representations. Thematically, the papers might involve:

Studies of gender and computing from any historical time or society—including those before 1945 and/or from any part of the world

Commentary on the available sources for the study of gender and computing, with identification of new (or needed) types and genres of documentation

Investigation of gender in (e.g.) computer science/engineering curricula, professional and technical communities, career paths, division of labor, and popular culture

Analysis of artifacts, visual representations, as well as texts that reveal the assumptions and dynamics of gender relationships in computing

Eight papers will be selected for presentation; there will also be a poster session showcasing additional voices and perspectives. Accepted papers and posters will be pre-circulated to all conference participants. Friday will be a public “conference” for the presentation and open discussion of the themes and issues raised by the papers. Saturday will be a “workshop” for the paper authors, aiming at focused discussion, elaboration of research agendas, and possible publication. Travel and lodging expenses

will be covered for the eight paper presenters. Additional funding may be available for graduate students and early-career scholars.

Proposals for papers and posters (250 words + maximum 2-page CV) are due by **December 1, 2007**. The program committee will announce acceptances by **mid-January 2008**. Accepted papers and posters are due **April 30** for pre-circulation to conference participants on CD. Please direct questions to [<cbi@umn.edu>](mailto:cbi@umn.edu); for details, literature, and links see [www.umn.edu/~tmisa/gender](http://www.umn.edu/~tmisa/gender)

Program Committee:

Janet Abbate (VT); Tom Misa (Minnesota); Veronika Oechtering (Bremen); Jeff Yost (CBI)

Charles Babbage Institute 211 Andersen Library  
University of Minnesota Minneapolis MN 55455  
USA [www.cbi.umn.edu](http://www.cbi.umn.edu)

### The International Community of Flight: A Centennial History

In 1908, just five years after making their first, short pioneering flights, the Wright Brothers introduced their invention to the world with spectacular demonstrations in the United States and France. The flights of 1908 confirmed the accomplishments of the two brothers from Ohio not just to the public at large, but to the international community of experimenters who had also dreamed of a flying machine. The Wrights had been members of this community from the start of their inquiries in the 1890s. Once publicly presenting their invention, the Wrights immediately became leading figures in an international community dedicated to bringing the benefits of flight to the world. Flight has been a truly international phenomenon ever since.

The centennial year of those flights affords the opportunity to reflect upon this international community of flight. A conference is being planned for the centennial in Dayton, Ohio, May 8-10, 2008, at Wright State University. Conference organizers are seeking paper and panel proposals focusing broadly on the international nature of the history and development of flight, 1908-2008. Possible topics include, but are not limited to, flight research, development of airlines and international

transportation, important individuals, political and diplomatic initiatives, aviation and the arts, international cooperation, and international competition.

Both individual papers and panel proposals will be accepted. Those submitting an individual paper need to submit a one-page abstract of the paper and a one-page c.v. Panel proposals should include a brief explanation of the overall theme of the panel, plus one-page abstracts of each paper and one-page c.v.'s for each participant. Those submitting panels are strongly encouraged to also include the names and c.v.'s of proposed chairs and commentators. Established scholars and graduate students are encouraged to apply.

All materials must be submitted via e-mail to: François Le Roy, Chair, Program Committee at [Leroy@nku.edu](mailto:Leroy@nku.edu) by **October 15, 2007**.

### ELECTIONS

The 2007 ballot is located following the candidate biographies. Once again, SHOT is offering online balloting through the SHOT website. There are links to the online ballot on the main page, the Annual Meeting page, the "For Members" page, and the web version of the newsletter. You must enter your membership number to vote. This is for security reasons only and your ballot is still anonymous in the results database. Your membership number is located above your name on the mailing label of the newsletter.

You may also return the paper ballot from the printed newsletter. Please note that, as with previous years, faxed copies will not be accepted. The deadline for submitting ballots is **September 10, 2007**.

## CANDIDATE BIOGRAPHIES

### Executive Council

**William Aspray** holds a BA in mathematics and philosophy from Wesleyan University and a PhD in history of science from the University of Wisconsin-Madison. His historical work has focused on mathematics, electrical engineering, and especially computing. He also does non-historical research on IT policy, new media, gender studies, globalization studies, and medical informatics. He has taught in departments ranging from mathematics and computer science to history, history of science and technology, public administration, and science and technology studies at Harvard, Penn, Rutgers, Virginia Tech, and Williams. He has also served as associate director of the Babbage Institute, director of the IEEE History Center, and executive director of Computing Research Association. He is currently Rudy Professor of Informatics and adjunct full professor of history and philosophy of science at Indiana University in Bloomington. Particular interests include seeing that SHOT become more involved with applications of historical method to contemporary issues, build stronger ties between history of technology and other historical and social science domains, and increase the dialog between historians of technology and other communities such as professional technical communities and science and technology policy communities.

### **Colin Divall**

SHOT faces two major challenges which perhaps in some degree conflict. As we strive to become a truly global organization we need to do still more to engage with scholars and others outside our heartlands of North America and Europe. Rapidly modernizing countries such as Brazil, China and India offer huge potential for historians, both as custodians of technological pasts that are rapidly disappearing and as a conduit through which reflection on those pasts might encourage debate about the future industrialization holds for all of us. On the other hand, as global citizens we need to take more responsibility for the effects our professional activities have on the environment. SHOT might not produce industrial-scale levels of greenhouse gas

emissions, but international conferences and the like can be ecologically expensive events. Can we reconcile our desire for greater international inclusiveness with that for a smaller carbon footprint? I don't know, but we should be asking the question.

My interest in these matters is reflected partly in part my work in the history of transport, and more particularly on how our technologically enabled mobile world became established in Britain last century. I'm keen too that the lessons of that history should inform public and policy debates, and for the past dozen years I've straddled the worlds of academic and public history, heading the Institute of Railway Studies & Transport History, a body run jointly by the UK's National Railway Museum (a multiple Dibner Award winner) and the University of York. My involvement with SHOT dates back nearly 20 years to my days as a post-doc researcher. I'm currently a Contributing Editor to *Technology & Culture*, and was an Advisory Editor in 2000-06. I served on the Executive Council in 2000-02, and was a member of the Dibner Committee for museums in 1998-2000, acting as chair in my second year. I'm also active in the International Association for the History of Transport, Traffic and Mobility (T<sup>2</sup> M), currently as a member of the Executive and as Exhibitions Review Editor of the *Journal of Transport History*. And yes, I do travel by plane – but I take the train whenever I can!

### **Rachel Maines**

Rachel Maines is the author of *The Technology of Orgasm* (Johns Hopkins UP 1999), *Asbestos & Fire* (Rutgers UP 2005), and a work on hobby technologies forthcoming from Johns Hopkins, tentatively titled *Hedonizing Technologies*. She holds a doctorate in Applied History from Carnegie-Mellon University (1983) and has been a Visiting Scholar in Cornell University's Department of Science and Technology Studies since 2005.

I would consider it an honor to contribute to SHOT's traditions of disciplinary and methodological inclusivity and encouragement of young scholars, as well as our expanding role as a genuinely international organization. As a specific goal for the next few years, I would work toward full funding of SHOT's prizes and travel awards.

### Arwen P. Mohun

Arwen P. Mohun is associate professor of History at the University of Delaware where she runs the UD-Hagley Program in the History of Industrialization and Technology. She is in the process of completing a book-length manuscript on technology and risk, tentatively titled *Better Safe than Sorry: How America Became a Risk Society*. Her published work also includes *Steam Laundries: Gender, Technology and Work in Great Britain and the United States, 1880-1940*; *His and Hers: Gender, Technology, and Consumption*, co-edited with Roger Horowitz; and *Gender and Technology: A Reader* co-edited with Ruth Oldenziel and Nina Lerman. She has served SHOT on a variety of committees, co-founded the Work and Technology SIG, and has long been an active member of WITH. She is particularly concerned with promoting the integration of the history of technology into the mainstream of historical scholarship.

### Aristotle Tympas

I work as Lecturer on the History of Technology in Modernity at the Philosophy and History of Science Department, University of Athens, Greece (PhD, *History, Technology, and Society*, Georgia Tech, 2001; MA, *Technology and Science Policy*, Georgia Tech, 1995; MS, *Chemical Engineering*, Aristotelion University, Greece, 1989). I have received support for my past research through fellowships from Georgia Tech (1994), the National Science Foundation (1995), the Hagley Museum and Library (1996), the IEEE History Center (1997), the Smithsonian Institution (1998), and, more recently, the Dibner Library (2006). Currently, the University of Athens, the Greek Ministry of Education, and the European Science Foundation provide support for my present research. Through some of my publications, I have attempted to register a few historiographical observations, with respect to both the history of technology in Greece and to the history of technology in general ("What Have We Been Since *We Have Never Been Modern?* A Macro-Historical Periodization based on Historiographical Considerations on the History of Technology in Ancient and Modern Greece," *ICON*, 2003 Volume, 76-106; 'Methods in the History of Technology', in *Encyclopedia of 20<sup>th</sup>-Century Technology*, Volume 2, edited by Colin Hempstead, Routledge, London, 2005, 485-489).

I have been a member of SHOT since the early 1990s, and I have just completed a three-year tenure at SHOT's Committee on International Scholars. My experience as an historian of technology is marked by the contrast between training and research in the US, a country where our discipline is firmly established, and teaching and researching in Greece, a country that lacks any tradition of research and education in the history of technology. Economies of scale, regarding this contrast, make a significant difference. For example, the number of history of technology books available in Greece, in any language, will never compare to the number available at US libraries. More importantly, recent publications on the history of technology in Greece cannot possibly cover the thematic and chronological range covered by their American counterparts. If elected to the council, I would like to help SHOT identify and implement initiatives that could assist smaller member clusters to develop by sharing resources and experiences. As a scholar, I have enjoyed the benefits resulting from shared resources while I participated in the Tensions of Europe network of historians of technology (as a member of both its Coordinating Committee and, more recently, its Management Team).

My cross-cultural educational experiences between Greece and the US and my participation in Tensions of Europe network have prompted me to consider that the historiography of technology, like a technological artifact, needs substantial reconfiguration before it can be usable locally. Those of us who participate in SHOT agree that the history of technology offers privileged venues to a broader historical understanding. Yet the challenges we encounter while trying to advance the history of technology, against various national historiographical limitations, differ considerably. This means, I believe, that it is necessary to possess a variety of strategies. For example, we need an alternate strategy to deal with a historiography vulnerable to social pressures that neglect important technical changes; that is, to establish strategies that challenge traditions that assert the essentialist continuity between the antiquity and the present (as in Greece), and historiographies that identify technological changes to present absolute discontinuities between the past and modernity (as in the US). It seems to me that such sensitivity to differences of this kind is a prerequisite to SHOT's much sought development in many of the underrepresented countries and continents.

## Nina Wormbs

I am Assistant Professor at the Division of History of Science and Technology at the Royal Institute of Technology in Stockholm. My first book (*Genom tråd och eter* (Stockholm, 1997) [Through Wire and Ether]) concentrated on conflicts over the introduction of broadcasting technologies. In *Vem älskade Tele-X? Konflikter om satelliter i Norden 1974-1989* (Hedemora, 2003) [Who loved Tele-X? Conflicts on satellites in the Nordic countries 1974-1989] I analysed direct broadcasting satellite projects from the perspectives of both cultural policy and technological and industrial development (state procurement). Presently I study frequency allocation processes for broadcasting in Europe, looking more closely at the politics of the organizations involved. In this, as in earlier work, I profit from being part of the Tensions of Europe network.

I believe that SHOT manages to combine professionalism and intellectual engagement with personal kindness and wit. This is the reason that I enjoy the SHOT meetings so much; it is a society that acknowledges the multitude of contexts in which scholars work. If elected I would work for a continuation of the efforts on internationalization already in progress in the society. I would also stress the need to reach out into a wider community. To extend our communication is an ongoing activity within the society; however, I think we should further this work. We know a great deal about technology and technological change, but as Langdon Winner pointed out not so long ago, this knowledge is not shared by people in general. It is our obligation to share our knowledge since it is my firm conviction that it can make a difference, both for individual citizens and policy makers.

## Editorial Committee

### Wiebe E. Bijker

Wiebe E. Bijker is professor of Technology & Society at the University of Maastricht, The Netherlands. He was trained as an engineer and physicist (Delft Technical University), studied philosophy (Groningen University), and received a

PhD in the history and sociology of technology (Twente University).

Bijker is member of the SHOT Executive Committee, past President of the Society for Social Studies of Science (4S), was Dean of the Faculty of Arts and Culture in Maastricht, and is chairman of the board of the Netherlands Research School on Science, Technology and Modern Culture. He is also (with Bernard W. Carlson and Trevor Pinch) founding co-editor of the monograph series *Inside Technology* of MIT Press. Two of his publications are: *Of Bicycles, Bakelites and Bulbs. Toward a Theory of Sociotechnical Change* (1995) Cambridge, MA, MIT Press; and (with Karin Bijsterveld) "Women Walking through Plans—Technology, democracy and gender identity," *Technology & Culture* (2000), 41(3), 485-515. For the latter they received the SHOT's Abbot Payson Usher Prize. In November 2006 Bijker received the [John Desmond Bernal Prize](#) awarded jointly by the Society for Social Studies of Science and the [Thomson Scientific](#).

Bijker's current research concerns the relations between technology and politics, and is particularly focused on the vulnerability of high-tech societies.

### Mats Fridlund

My first exposure to SHOT came in Uppsala in 1992 as a very excited undergraduate student working behind the registration desk at the society's first annual meeting outside North America. My excitement about SHOT and its international dimensions has stayed with me ever since. After I got my PhD in History of Technology from Royal Institute of Technology (KTH) in 1999 I have mainly worked outside Sweden, as postdoctoral researcher at University of Manchester and MIT, and visiting professor at Imperial College London and Northwestern University in USA. I am currently Associate Professor of History of Technology at the Technical University of Denmark (DTU) where I teach courses such as "Science, Technology and Terrorism", "History and Culture of Engineering" and "The 'New Materialism' in History of Science, Technology and Medicine". My research I use to better try to understand the ideological and cultural issues of our time. My dissertation focused on the role of nationalism and the ideologies of engineering

practice in electric power and my current work is devoted to the history of technology and engineering of terrorism and state terror. As my research interests have changed I have always found intellectual stimulus and camaraderie in SHOT's annual meetings and special interests groups where my affiliations have expanded from the Mercurians and Jovians to the Prometheans and Military Technology groups.

If elected to the editorial board I believe my previous experience and priorities will be a welcomed addition. Although I have some editorial experience as author and editor of two books and member of the editorial advisory board of Science History Publications / USA I think I will make more of a difference in introducing a representative of a European perspective as well as of SHOT's relatively junior scholars. The internationalization and scholarly diversity which was on top of my agenda 2004-06 as member of the Nominating Committee will continue to be priorities and in addition I would focus on developing SHOT's publications to provide intellectual leadership not only for historians of technology but even more for other like-minded scholars. SHOT could and should be the community leading the scholarly engagement and discussion on the role of technological change in history and setting the agenda for disciplines like design history, media and communication studies, cultural studies, and media history. SHOT should therefore be more proactive in developing its publications as the vital arenas and meeting grounds for working out these new approaches.

### **Nominating Committee**

#### **Hakon W. Andersen**

Professor Andersen holds an MSc and a PhD in history from the Norwegian University of Science and Technology in Trondheim from. In 1992 he was appointed full professor in Norwegian and international history at the same university. He has written on the history of shipping and shipbuilding technologies, on electronics and computers, on the steel industry and on the factory system. He has been particularly interested in public discussions connected to questions of technology, history and society and has contributed to new forms of exhibitions and public forums. He has also worked with engineering

education in Europe and with moral and philosophical aspects of technology and environment. He has served on the Executive council and on several other committees of SHOT as well as participated in several other international and national committees and editorial boards related to the history of technology.

I am particularly interested in strengthening the international character of the society because history of technology has to be understood internationally. Further on and related to this I think it is important to strengthen our links to neighboring historical fields and not at least to reach out to a larger audience with our knowledge, ideas and perspectives for a better debate on how the important questions of today relate to poverty and the environment.

#### **Suzanne Moon**

I am an Assistant Professor in the History of Science Department at the University of Oklahoma. My research focuses on the history of technology in colonial and post-WWII international development projects in Southeast Asia. My forthcoming book from Leiden University Press explores the history of technological development programs in colonial Indonesia. I am also editing a volume of essays on the broader topic of technology and colonialism.

I first joined SHOT while a novice graduate student in Cornell's Department of Science and Technology Studies, and I feel fortunate to have enjoyed the warm collegiality and intellectual support of SHOT ever since. In 1997, I published "Takeoff or Self-Sufficiency? Ideologies of Development in Indonesia, 1957-1961" in *Technology and Culture*, and in 2001, I was awarded the Brooke Hindle Postdoctoral Fellowship.

I have served on the Usher and Kranzberg Prize committees, and in 2005, I became Associate Editor of *Technology and Culture*. Outside of SHOT, I serve on the editorial board for *East Asian Science, Technology, and Society*, a new journal whose first issue will appear in 2007. I am a former editor and current advisory board member for the H-SCI-MED-TECH listserv, which is presently considering ways to expand the use of digital media to serve historians of technology, science, and medicine.

If I am elected to the nominating committee, I would like to foster international involvement in SHOT, building on past efforts to broaden participation in the society. More than simply diversity for diversity's sake, a truly international membership encourages dynamic intellectual exchange that can help us to expand our collective understanding of the history of technology as a truly global topic, one that is both geographically broad and temporally deep. Becoming a more international society, which increasingly means transpacific as well as transatlantic, offers both opportunities and significant pragmatic challenges. As a member of the nominating committee, I would like to identify candidates who bring diverse intellectual and geographical backgrounds as well as practical ideas and enthusiasm to the work of making SHOT a truly international meeting place for scholars interested in technology history.



The SHOT web site has moved to a new location in cyberspace, <http://www.historyoftechnology.org>, where you can also find exciting new "eTC" features and electronic versions of some recent T&C material. Please update your links and bookmarks, and check the new address regularly for the latest on the annual meeting and other information.

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## 2007 SHOT BALLOT—VOTE HERE

After marking your ballot, detach it and fold it in half, then tape it closed on all three open sides. **Please affix a first-class stamp** as indicated on the reverse side and mail it to the SHOT Secretary's office by **September 10, 2007**. Alternatively, an online ballot is available through the SHOT website through September 10, 2007.

### Executive Council

Three-year term

**Vote for 3 out of 6:**

\_\_\_\_\_ **William Aspray**

\_\_\_\_\_ **Colin Divall**

\_\_\_\_\_ **Rachel Maines**

\_\_\_\_\_ **Arwen Mohun**

\_\_\_\_\_ **Aristotle Tympas**

\_\_\_\_\_ **Nina Wormbs**

### Nominating Committee

Three-year term

**Vote for 1 out of 2:**

\_\_\_\_\_ **Hakon W. Andersen**

\_\_\_\_\_ **Suzanne Moon**

### Editorial Committee

Five-year term

**Vote for 1 out of 2:**

\_\_\_\_\_ **Wiebe Bijker**

\_\_\_\_\_ **Mats Fridlund**

**Your ballot must be postmarked no later than September 10, 2007.  
NO FAXED COPIES WILL BE ACCEPTED.**

**SHOT**  
**c/o Cynthia D. Bennet**  
**Iowa State University**  
**618 Ross Hall**  
**Ames, IA 50011**

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**Society for the History of Technology**  
**Cynthia D. Bennet**  
**Iowa State University**  
**618 Ross Hall**  
**Ames, IA 50011**