



# NEWSLETTER

OF THE SOCIETY FOR THE HISTORY OF TECHNOLOGY

No. 96, n.s., July 2002

## SECRETARY'S MESSAGE

What a difference a year makes. Last July, I was writing a column explaining (okay, complaining about) the high costs of San Jose. Who could have guessed then that terrorism and home security would so suddenly and stubbornly take center stage? As we prepare for Toronto, most of us have regained some sense of normalcy in our lives. We routinely fly for research, meetings, and vacations, though perhaps not with the confidence we once had. I expect that the number of registrants will well surpass San Jose, though in the end, what impressed me about San Jose was how many of us showed up, and how few of us cancelled. Certainly the events of 9/11 are still very much on our minds, and so it's appropriate that the Opening Plenary in Toronto will be "Rethinking Technology in the Aftermath of September 11th", organized by Miriam Levin of Case Western and Rosalind Williams of MIT. This is a 'must do' for all SHOT members, so plan to arrive in Toronto early.

The Local Arrangements Committee, led by Bert Hall and Janis Langins of the Institute for the History and Philosophy of Science and Technology at the University of Toronto, has put together several attractive tours to keep you busy on Thursday. If you can spend the whole day, you can visit Niagara Falls, Ontario Hydro and the Welland Canal, surely the perfect combination of the natural and technological sublime, to borrow a phrase from David Nye. You will have a chance to see one of the true natural wonders of North America, which remains simply spectacular, despite the souvenir shops, wax museums and now casinos. And of course where other tourists see a mighty falls, historians of technology remember what was once the world's largest hydroelectric power plant and the beginnings of the St. Lawrence Seaway. Between Hydro Canada and its US counterpart, the falls annually generate 2.4 million kilowatts of electricity. The Welland Canal, first constructed in 1829, connects Lake Erie with Lake Ontario and is a wonder in its own right. If you only have half a day, be sure to take a tour of the Toronto Waterfront on Thursday afternoon. *(continued on page 2)*

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for the latest

Annual Meeting Information.

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#### SHOT Newsletter Editorial Policies, Advertising Rates, and Submissions Deadlines

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

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

*Advertising Rates:* Full Page (7-1/2" x 9-1/2"), \$200;  
 Halfpage (7-1/2" x 5" or 3" x 9-1/2"), \$150; Quarterpage (3" x 5"), \$100

*The SHOT logo was created by Brickworks of London*

Not only will you have a private tour of the Skydome and its innovative retractable roof, you'll end at the Steam Whistle Brewery. What pub could be more appropriate for SHOT members? There will also be a free walking tour of downtown Toronto, focusing on architecture, on Friday afternoon. So bring comfortable shoes.

The Program Committee, chaired by Karin Zachman, has come up with a wonderfully diverse set of sessions featuring lots of new faces and new approaches to the history of technology. I would call your attention to three special sessions on Saturday. A lunchtime workshop, featuring Ivan Semeniuk, producer for the Discovery Channel Canada, promises to reveal the "10 Steps to Getting Your Story Told Well in Today's Media", so if you've always wondered how to become a 'talking head' here is your opportunity. Immediately following will be 'super sessions' on "History of Canadian History of Technology" and "Museums and the History of Technology". Unfortunately, you can only choose one. Also make a note to attend the Friday public lecture by William Thorsell, President and CEO of the Royal Ontario Museum and former Editor-in-Chief of the Toronto Globe and Mail.

We will have all of the usual SHOT treats, including the always popular Hospitality Suite, featuring an assortment of the best beers in North America. Don't even think about smuggling in any Budweiser I promise we will also have plenty of non-alcoholic beverages as well. And be sure to register for the Graduate Student breakfast. Frankly, we had a hard time selecting a menu (European Breakfast Buffet was our final choice) since they all sounded so good. And you can't beat the price. The banquet cost is back down to a very reasonable \$35US, so be sure to join us. Indeed, the current exchange rate makes Toronto a bargain for foreigners. You will notice that we also reduced the cost of registration. Remember, you can now register for the meeting electronically through our web site, beginning July 1. It's as easy as clicking a mouse. Alas, we could not convince the Delta Chelsea to let us have electronic registration for rooms, so you'll have to make reservations the old-fashioned way, by phone. Be sure to tell them you're with SHOT.

Let me remind you about the Constitutional amendment on the Editorial Committee tabled in San Jose. This has been substantially revised and will be discussed and put to a vote at the annual Business Meeting. This will be the last of the Constitutional changes recommended by the Ad Hoc committee chaired by Pam Laird. You'll find a copy of the amendment along with the original wording of that section of the Constitution inside. And as always, don't forget to vote. This is the first election under the revised Constitution, so let's have a

good turnout. You will find this year's slate, including biographies and statements from the candidates, in this issue. We have provided a perforated ballot, which you can mark, tear out, and mail. But why bother when you can do it electronically on the web site, again beginning July 1? You will be required to enter your membership number, but no one will know how you voted. We just want to keep random web surfers from casting ballots, and we don't want members stuffing the ballot box. Not that any of us would. It's true that you could cast an electronic ballot and then send in a mail ballot, but we're an honest bunch, after all. So make your voice heard, but only once.

Stuart W. Leslie  
Johns Hopkins University

### **ANNUAL MEETING INFORMATION**

**October 17-20, 2002**

**Delta Chelsea Hotel**

**Toronto, Canada**

The Institute for the History and Philosophy of Science and Technology at the University of Toronto welcomes SHOT members to the City of Toronto. The local arrangements and program committees have planned a variety of special events to make this a memorable conference.

Two plenary lectures, Thursday evening and Friday evening, will take place at "Alumni Hall" Victoria College, University of Toronto. Alumni Hall occupies the main floor of the original Victoria College building, 73 Queen's Park Crescent East. The 110 year-old Romanesque Revival 'Old Vic' is surrounded by college residences on the northeast corner of the University of Toronto campus, not far from two of Toronto's main avenues, Bay and Bloor streets. Alumni Hall is a large, lush room with antique chandeliers and bay windows; its double door entrance is directly opposite the main, south-facing entrance.

The campus is a 15-minute walk, north along Bay Street, from the Delta Chelsea Hotel. The Victoria campus is also accessible by bus (provided by SHOT) or on foot/subway (walk west along Gerrard Street to University Avenue, then go north along University to Queen's Park subway station and take the University line from Queen's Park station one stop north to Museum station).

A workshop on early printing will be held at the Massey

College presses on Friday and the University of Toronto's historic Hart House will be the site of the Saturday awards banquet. There are interesting and affordable tours planned for Thursday and Friday.

Canada is an independent nation and SHOT members coming to Toronto will have to clear customs and immigration whether they drive or fly. Just tell the agent that you're coming to an academic conference hosted by the University of Toronto and they'll wave you through. Immigration formalities were changed after September 11. Canada now requires some form of ID that contains a picture and your permanent address. Obviously if you have a passport, bring it along. Canada also uses its own money, a cheerfully multicolored array in all the familiar denominations, but with C\$1 and C\$2 coins rather than banknotes. While merchants and taxi drivers will happily take American dollars, they will rarely give you a fair exchange rate. Fortunately, Canada has more Automatic Teller Machines per capita than any nation on earth, and they all take American bank cards.

### **Plenary Session – Thursday, October 17, 2002**

Miriam Levin

Case Western Reserve University

Note: In March, NSF funded a workshop at MIT on the subject "Rethinking Technology in the Aftermath of September 11<sup>th</sup>." The SHOT Program committee has scheduled a plenary session for the 2002 annual meeting in Toronto on this very important subject so that all members of the society can participate in discussing the implications which the event holds for us as individuals, as historians, and as educators. After short presentations by panelists, the floor will be opened to members of the audience. Recognizing how complex and profound is the topic, this short piece in the newsletter is intended to indicate some of the themes and questions on which the plenary will focus so that all of us can begin to formulate ideas for discussion in October. I also urge everyone to read Daryl Hafer's excellent summary of the workshop in "From the President's Desk" published in the SHOT April newsletter.

\* \* \* \* \*

For a brief moment, the terrorist attacks on the World Trade Center and the Pentagon made all Americans—indeed the entire world—aware of technology by casting a most horrific light on the web of structures and socio-technical systems in which we are embedded. And then, somehow, this fragile web drifted back below the public's consciousness as the media and politicians turned to human suffering, human heroes, human failures, in clouds of suspicion, hostility and anxiety. But what we see, hear and read in the media does not mean that technology is far from people's minds these days, nor that public

attitudes towards it have remained the same. One prominent historian incisively observed recently that a profound new division has begun to form in the minds of Americans, “. . . between people who are still unthinking believers in technology and in economic determinism and people who are not.” \*

As historians of technology, it is important to go back to the traumatic moment of attack and try to identify how it illuminated our thinking about technology. That was the reasoning behind the MIT workshop. Colleagues from a number of disciplines representing six different nations and three continents attended for the express purpose of keeping technology not only visible but considering what effects the attacks have had on our own understanding of the meaning of technology. Participants considered four questions:

- What knowledge and perspective do historians and social scientists have to offer to scholarly and public understanding of those events?
- What do those events suggest in the way of new agendas, priorities, and directions for research in these fields?
- What do those events suggest in the way of new agendas, priorities, and directions for education in these fields?
- What do those events suggest in the way of new forms of political and social engagement for practitioners and organizations in these fields?

The result was a rethinking of topics that have been at the center of our discipline. These constitute one focus for the plenary session:

- Technological progress: the abstract challenges to this concept now seem much more material and immediate
- Technology as secular: the challenge to the assumption that technology, progress and secularism all go together, and greater awareness of the role in faith in both “technology” and “religion”
- The malleability of technology: both technological determinism “and” social construction seem questionable theories in a world where the uses of technology can be altered so dramatically and immediately
- The power of technological imagery: now we really get it
- The gaps in our coverage, notably the developing world and specifically the Islamic world
- The combination of “irrational” ends with “rational” technological means: how irrational are the ends, really?

- The general sanitization of the concept of technology: the significance of shadow networks, corruption, and violence in the built world
- The disjuncture between state power and popular sentiment, and the use of technological means by both state and non-state organizations
- The supposed line between civil and military uses of technology
- The limitations of vocabulary: we find ourselves constantly putting words in quotes and/or apologizing for our terminology, beginning with “technology”
- Self-awareness of our position as participant observers: much more self-consciousness about our own ethnic, national, class, and intellectual background, as well as our emotional engagement in technological and historical events
- Awareness of the large forces at work (nationalism, capitalism, imperialism, etc. etc.) which have tended to be downplayed in our case-study of social-construction-mode
- Awareness of the key role of media in both silencing and amplifying aspects of the technological world

A second focus will be on a list of practical topics that seem particularly worth discussing at a SHOT plenary session. These are by no means exhaustive, nor mutually exclusive:

- What are our responsibilities as scholars, teachers, and citizens at this time, and how might SHOT support us?
- Who are the audiences/publics with whom we should be engaging, beyond reporters for the press?
- How can we get different communities/groups talking with each other? (esp. engineering/technical and non-engineering/nontechnical communities: this is something we know or should know how to do)
- How should we study history-in-the-making as events unfold? what is an appropriate balance of distance and presence in this situation?
- What are the changes not only in subject matter but also in technique/methodology that we should consider in our research and teaching at this time?

We are looking forward to your participation in the discussion.

\* from “Quote Unquote,” *Chronicle of Higher Education*, April 26, 2002, p.1

## Events Hosted by SHOT

**Graduate Student Breakfast. On Saturday, October 19<sup>th</sup> at 7:30 am**, the SHOT officers will host their annual graduate student breakfast in the Baker room of the Delta Chelsea Hotel. This year the menu is a European Breakfast buffet consisting of chilled orange, apple & grapefruit juices, season fruit salad & berries, an assortment of natural yogurts & Swiss Muesli, selected European cold cuts, imported & domestic cheeses, fresh baked bagels, whole grain & rye breads, European fruit preserves, honey & butter, regular & decaffeinated coffee & an assortment of teas. This breakfast is free for graduate students but is limited to 40 students. You must register for this event if you plan on attending it.

**SHOT Awards Banquet. On Saturday, October 19<sup>th</sup> at 6:30 pm**, SHOT invites you to attend the annual Awards banquet to be held at Hart House on the University of Toronto campus. It will be a dinner buffet consisting of smoked fish platter, baked salmon, roasted filet of beef and a large variety of vegetable dishes. Buses will transport guests from the hotel to this historic building. You can see this marvelous building and read about its rich history at <http://www.utoronto.ca/harthouse/>. This is a wonderful opportunity to honor the recipients of SHOT's annual awards. Please indicate your participation on the registration form. Admittance is by ticket only. Cost is \$35 (US) per person.

## Tours

**Tour #1. Niagara Falls and the Welland Canal, Thursday October 17<sup>th</sup>.** This tour includes a visit to Niagara Falls, one of the most famous tourist attractions in North America, a stop at Ontario Hydro building, part of the utility that pioneered public electrical power in Canada, and the Welland Canal (<http://www.wellandcanal.com/>), the first canal to join the Great Lakes and lay the foundation for the St. Lawrence Seaway. There is a restaurant on the viewing deck of the Welland Canal where you can buy lunch. Tickets are \$20(US) per person and you will need to bring some Canadian money to buy your lunch. . The tour leaves at **9:00 am** and returns at **4:00 pm** to the Delta Chelsea Hotel. We need a minimum of 25 people to operate this tour. Space is limited so reserve your ticket early.

**Tour #2 The Waterfront, Thursday October 17<sup>th</sup>.** This public transport and walking tour will include the Skydome with its retractable roof (private visit to the roof structure), the waterfront, and the Steam Whistle brewery where the tour will

conclude. Cost: \$16(US) (this includes admission and two TTC bus tokens). This tour will leave the hotel at **1:30 pm** and return at **4:30 pm**.

**Tour #3 Architectural Tour, Friday October 18<sup>th</sup>.** Walking tour of downtown Toronto that will take in the modern architecture of the business district, Old and New City Hall, and Union Station. Tour leaves at **1 pm** and returns to the hotel at **3 pm**. There is no charge for this tour but we ask that you pre-register so that we have enough tour guides to make this enjoyable for all.

## SIG Meetings

**Computers, Information and Society** will hold a Continental Breakfast in the Newton room of the Delta Chelsea on **Friday October 18<sup>th</sup> at 7:30 am**. The cost of the breakfast is \$10 (US) per person and includes chilled orange, apple & grapefruit juices, Danish pastries, muffins & butter croissants, fruit preserves, marmalade, honey & butter, regular & decaffeinated coffee & an assortment of teas. Please indicate your participation on the registration form.

The **Military History** SIG will host a Bagel Bar breakfast in the Austen room of the Delta Chelsea on **Friday October 18<sup>th</sup> at 7:30 am**. The cost of the breakfast is \$11 (US) per person and consists of chilled orange, apple & grapefruit juices, an assortment of freshly baked bagels, a variety of flavored cream cheeses, carrot & bran muffins, low fat natural yogurt, fruit preserves, honey & butter, regular & decaffeinated coffee & an assortment of teas. Please indicate your participation on the registration form.

The **Mercurians** (communication technologies) and **Jovians** (electrical technologies) will hold a joint luncheon meeting on **Friday October 18<sup>th</sup> at Le Commensal at 11:45 am**. Le Commensal is part of the largest vegetarian restaurant chain in North America. It features many large sunny windows facing Elm street and a bright spacious uncluttered smoke-free atmosphere with seasonal flower arrangements and original art work. Le Commensal also attracts non-vegetarians looking for a healthy meal. The restaurant has no menu. Customers select from a buffet of 100 hot and cold items and pay by weight. Items from the Hot and Cold Buffet are priced at \$1.59/100g (US\$0.99/3.5 oz), Dessert Buffet at \$1.75/100g (US\$1.09/3.5 oz), while soup and cookies are priced individually. Depending on the density of the items chosen, lunch can cost US\$6-12, while a light meal should cost considerably less. **Grad students will be given \$8(Canadian) from the**

**Mercurians and Jovians towards the purchase of their lunch.** The selection includes everything from pasta and pizza to a multitude of salads and fine vegetarian entrees, not to mention some of the most scrumptious desserts in Toronto (e.g. the Pear Chocolate Mousse). The restaurant is at 655 Bay Street, at the corner of Bay and Elm. Enter on Elm Street. This is within walking distance of the hotel. The final program booklet will have details on meeting and walking to the restaurant together. **Each person will pay for their own meal** at the restaurant so you must bring Canadian currency with you. The organizers of this luncheon ask that you **pre-register** (but not prepay – you pay there) so that they know how much space to reserve at the restaurant. Please indicate your participation on the registration form.

**Envirotech** will hold a Forza Italia luncheon on **Friday October 18<sup>th</sup> at 11:45 am** in the Newton Room of the Delta Chelsea. The price of lunch is **\$20(US)** per person and includes Caesar salad, rolls & butter, penne with tomato basil sauce & lasagna al forno, tiramisu, regular & decaffeinated coffee & an assortment of teas. Please indicate your participation on the registration form.

The **Albatrosses** are hosting a Bagel Bar breakfast on **Saturday October 19<sup>th</sup> at 7:30 am** in the Austen room of the Delta Chelsea. The cost of the breakfast is **\$11(US)** per person and consists of chilled orange, apple & grapefruit juices, an assortment of freshly baked bagels, a variety of flavored cream cheeses, carrot & bran muffins, low fat natural yogurt, fruit preserves, honey & butter, regular & decaffeinated coffee & an assortment of teas. Please indicate your participation on the registration form.

**WITH (Women in the History of Technology)** will hold a luncheon on **Saturday October 19<sup>th</sup> at 11:45 am** in the Delta Chelsea. It is scheduled for the Baker room but you should check the program booklet and our web site to see if this changes. The cost is **\$20(US)** per person for a mixed seasonal greens salad with balsamic vinaigrette, lentil salad, fricassee of zucchini, mushrooms, peppers & onions in a Creole sauce, steamed rice with garnish of root vegetables, lemon poppy seed cake (made with shortening – no dairy), regular & decaffeinated coffee & an assortment of teas. Please indicate your participation on the registration form.

### Tensions of Europe

The organizers of last year's "**Tensions of Europe**" meeting, invite SHOT members to register for a breakfast on **Saturday, October 19<sup>th</sup> at 7:30 am** in the Turner room of the Delta Chelsea. The cost is **\$12(US)** for freshly squeezed orange &

grapefruit juice, an assortment of low fat natural yogurts, low fat fruit & fiber muffins, banana bread, selection of whole fruits, regular & decaffeinated coffee & an assortment of teas. Please indicate your participation on the registration form.

### SHOT Business Meeting

The SHOT business meeting will be held on **Saturday, October 19<sup>th</sup> from 5:15 to 6:00 pm**. There will be a vote on the proposed change to the Constitution (see below)

### Proposed Constitutional Amendment

At last year's annual Business Meeting the membership voted on and passed several Constitutional amendments, including one calling for contested elections for all elected positions. One amendment, revising Article VIII, Section B, concerning the Editorial Committee, was tabled. At its spring meeting, the Executive Council proposed a new version of the proposed amendment, which was further revised in consultation with the Editorial Committee. We will discuss and vote on this amendment at the Business Meeting in Toronto scheduled for Saturday, October 19 at 5:15pm. Please read the proposed amendment carefully. For comparison, I have included a copy of Article VIII, Section B as it currently reads.

Proposed Amendment:

"The Editorial Committee shall consist of five members elected by ballot in addition to the Editor of the Society's journal. The members of the Editorial Committee shall serve staggered terms of five years. The President shall annually appoint the Chair of the Committee from among its elected members. The Chair shall be a non-voting member of the Executive Council. The Committee shall consult annually with the Editor of the Society's journal and with its advisory editors and shall report to the Executive Council at each year's annual meeting on all SHOT publications appearing during the previous twelve months. The Committee shall advise the Executive Committee in cases of editorial grievances filed with the Council and shall perform such other tasks as the Executive Council may direct."

Current Section VIII, Section B

"The Editorial Committee shall consist of five members elected by mail ballot in addition to the Editor of the Society's journal. The Editorial Committee shall serve staggered terms of five years and each year the Executive Council shall appoint

the Chair of the Committee from among the five elected members. The Editorial Committee shall be responsible to the Executive Council for the administration of the Society's journal and for all matters of editorial policy, for the administration of the Society's Monograph Series, and for the administration of any other of the Society's publications.

### Hotel Information

The conference hotel is the Delta Chelsea located at 33 Gerrard Street West (between Yonge Street and Bay Street). You will find that this is the most convenient place to stay during the meeting. The room prices given below are in Canadian dollars. The same rate applies to both single and double occupancy. An extra person charge of \$20(C) will apply per person.

Room Type:	Rate
Signature Club King NS	\$237.00
Deluxe Double NS	\$217.00
Sig SRV Double	\$197.00
Sig SRV Queen	\$197.00

All rooms are subject to the Provincial guest room tax of 4% and the Federal government goods and services tax of 7%. These taxes are subject to change.

To make your reservations you must call **416-595-1975** and ask to be transferred to reservations or you can call **1-800-243-5732**. We are sorry, but the hotel will not allow us to use the on-line reservation form on their web site. They also do not have a toll free number for outside North America. Be sure to mention that you are attending the SHOT conference. The hotel web site is <http://www.deltachelsea.com>

### Getting to the Delta Chelsea Hotel

#### *Directions from airport:*

Just 45 minutes by car from Pearson International Airport, the Delta Chelsea can be reached by taking Hwy 427 south to the QEW (Queen Elizabeth Way) to downtown Toronto. The QEW divides into the Gardiner Expressway and Lakeshore Blvd. - both of which will take you to the hotel. Take the Bay Street exit north to Gerrard Street and turn right.

#### *Directions from train station:*

The train station, accessed from Union subway station, is

located at Front Street between Yonge and Bay Street. Take the subway from Union station north to College Park station and walk south down Yonge Street to the hotel. If you would prefer, there are taxi stands outside of the subway/train station on Front Street.

### Registration

You will find a registration form in this newsletter. Fill it out, tear at the perforations and mail it to the Secretary's office with your payment. We also have secure on-line registration on our web site [www.shot.jhu.edu](http://www.shot.jhu.edu). Click on the Annual Meeting page for the link to the registration form. We will send you a signed confirmation of your registration.

### SHOT Web Site Annual Meeting Page

The Annual Meeting page link appears in the sidebar menu of the shot web site ([www.shot.jhu.edu](http://www.shot.jhu.edu)). This page will be updated whenever there is new information regarding the annual meeting. It provides links to the program, the abstracts, registration, elections, hotel web site, program participants information on audio-visual equipment, tour prices and status and Special Interest Group meetings. We suggest that you check it often in the months to come.

### Preliminary Program

The program is also posted on the SHOT web site (with abstracts) and any changes to it will be reflected there. *Note to participants: there have been some major changes since you were notified of your time slot. Please take a few minutes to find your spot on the program.*

#### **Thursday, October 17, Evening: 6.00 – 9.00 pm**

#### Opening Plenary

#### ***“Rethinking Technology in the Aftermath of September 11<sup>th</sup>”***

*Organizers:* Miriam Levin, Case Western Reserve University and Rosalind Williams, Massachusetts Institute of Technology

*Moderator:* Thomas Hughes, University of Pennsylvania and MIT

*Participants:*

Michael Adas, Rutgers University  
 David Hounshell, Carnegie Mellon University  
 Miriam R. Levin, Case Western Reserve University  
 Joel Mokyr, Northwestern University  
 Hameed Toor, Quaid-i-Azam University, Pakistan  
 Rosalind Williams, MIT

**Friday, October 18, Morning: 9.00 – 11.30 am****1. “What Engineers Know, What Engineers Do?” (A session presented in collaboration with the Society for Philosophy and Technology)**

*Organizer:* Ann Johnson, Fordham University  
*Chair:* David Brock, Chemical Heritage Foundation  
*Commentator:* Edward Constant, Carnegie-Mellon University

*“Engineering as Practice and Culture in Nineteenth Century America”* Ann Johnson, Fordham University

*“Practiced Knowledge, Knowing Skills: An Epistemic History of Church Bells”*, Wybo Houkes, Eindhoven University of Technology

*“Successful Design in Engineering and Architecture”*, Joseph C. Pitt, Virginia Polytechnic Institute & State University

*“The Commercial Sector in Nanoscale Science and Technology Development”*, Davis Whitney Baird, University of South Carolina

**2. Engineering a National Identity**

*Chair:* Karin Ellison, University of Wisconsin, Madison  
*Commentator:* Sara Pritchard, University of Pennsylvania/  
 Montana State University

*“Identities and Technological Projects in the Case of the Historical Gotthard Tunnel Railway in Switzerland (1878-1879)”*, Judith Schueler, Eindhoven University of Technology

*“Forced to be Canadian: Northern Electric, Technological Nationalism, and American Telephone Technology”*, John Smart, Carleton University Ottawa

*“A Telephone That Doesn’t Look Like a Telephone? Communications, Technologies, Design, and the Assertion of Canadian National Identity”*, Janin Hadlaw, Simon Fraser University Burnaby

*“Techno-Nationalism in the GDR. Technology and the Construction of an East German Identity”*, Johannes Abele, Technische Universität Dresden

**3. Space Policy, Politics and Technology**

*Organizers:* Andrew Butrica, Defense Acquisition History Project; and Michael Neufeld, National Air and Space Museum

*Chair:* Michael Neufeld

*Commentator:* John Krige, Georgia Institute of Technology

*“Taming Undisciplined Enthusiasm: Presidential Science Advisors and the Space Program, 1957-1973”*, Zuoyue Wang, California State Polytechnic University

*“Space Policy and the Space Shuttle: Determining an Adequate Fleet Size”*, Valerie Neal, National Air and Space Museum

*“Prelude to Commercialization: NASA’s Attempt to Phase Out Expendable Launch Vehicles”*, Virginia P. Dawson, History Enterprises, Inc.

*“The Reagan Revolution in Space: Space Policy and the Conservative Agenda”*, Andrew Butrica, Defense Acquisition History Project

**4. “Remaking ‘Place’: Makers and Users, Architectures and Technologies**

*Organizer:* Douglas Jerolimov, University of Delaware  
*Chair:* Philip Scranton, Rutgers University  
*Commentator:* David Nye, Odense University - SDU

*Manufacturing Obedience: Labor Control and Dissent on the American Industrial Landscape, 1880-1930”*, William Littmann, Stanford University

*“Is it a House? Is it a Vehicle? Culture, Technology, and Space in the 1930s Travel Trailer”*, Janet Davidson, National Museum of American History

*“‘Every Class of Passenger Expects the Latest Improvements’: Architectures of Transatlantic Passenger Liners, 1870-1914”*, Douglas Jerolimov, University of Delaware

*“From Roughing it to Smoothing it: Woodcraft, Leisure Camping, and the Rise of the Recreational Vehicle Industry”*, David Harmon, Finger Lakes Community College



**5. To See and To Know: Technologies of Visualization**

*Chair:* Julie Wosk, State University of New York

*Commentator:* Bev Sauer, Johns Hopkins University

*“Translated Infrastructure: Representations of Roads in French Mid-Nineteenth Century Maps and Paintings”*, Onne Bieringa, University of Twente

*“Roving Eyes: The Construction and Consumption of Western Canada through Transportation and Ocular Technologies”*, Ben Bradley, University of Victoria, BC

*“Race, Religion, and Capital: New Constellations in the Heavens-Machine of Interwar Germany”*, Lane DeNicola, Rensselaer Polytechnic Institute

*“Photogenic Destruction: Demolition in Still Photographs and Motion Pictures”*, Bernard L. Jim, Case Western Reserve University

**6. Works in Progress Nr.1**

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

*Commentator:* Joel Mokyr, Northwestern University

*“Mainframes, Micros, and Masculinity: The Paradox of Women in Computing in the U.S. and the United Kingdom”*, Janet Abbate, University of Maryland

*“Typology of a Topos- Mapping the Utopian Discourse Surrounding the Internet”*, Merav Katz, Bar-Ilan University, Ramat-Gan, Israel

*“A Concise History of the Wheelchair Under the British State”*, Brian Woods, University of York, UK

*“Virtual Immobility”*, Ulrich Wengenroth, Technische Universität München

**Friday, October 18, Early Afternoon: 1.00 – 3.15 pm****7. Acting and Reacting in the Market Place**

*Chair:* Regina Blaszczyk, Chemical Heritage Foundation

*Commentator:* Dorothea Schmidt, Fachhochschule für Wirtschaft Berlin

*“Shaping Markets: Political Economy of Paper Standardization 1880-1940”*, Hannes Toivanen, Georgia Institute of Technology

*“The Body Electric: Technology, Urban Life, and the I-On-A-Co Cure”*, Carolyn Thomas de la Pena, University of California, Davis

*“Driven by Choice: The Role of Municipalities and Specialized Production in the Survival of the Canadian Industry of Fire-Fighting Vehicles, 1945-1965”*, Suzanne Beauvais, Canada Science and Technology Museum

*“Self-Service: How Gender Influenced the Architecture and Technology of Gas station Design”*, Gregory Donofrio, New York State Office of Parks, Recreation & Historic Preservation

**8. European Mobility: A History with its Own Character?**

*Chair:* Miriam Levin, Case Western Reserve University

*Commentator:* Clay McShane, Northeastern University

*Organizer:* Gijs Mom, Eindhoven University of Technology

*Co-organizer:* David Kirsch, University of Maryland

*“Safe Roads for Pedestrians!” History of an Endangered Species in the 20<sup>th</sup> Century”*, Barbara Schmucki, National Railway Museum, York

*“Tail Fins, ‘Dollar Grin’ and Panoramic Windshield: The American Challenge for European Car-Design in the Post World War II Period”*, Gert Schmidt, Universität Erlangen

*“Similar Paths in Different Directions? The Diffusion of the Automobile in a European Context”*, Gijs Mom, Eindhoven University of Technology, and David Kirsch, University of Maryland

**9. U.S. Cold War R&D: Old Debates, New Research, Fresh Perspectives**

*Organizer:* David Hounshell, Carnegie Mellon University

*Chair:* John Krige, Georgia Institute of Technology

*Commentator:* David Hounshell, Carnegie Mellon University

*“The Cold War’s Linear Model of Science, the Endless Frontier (1945) for Industrial R&D: The U.S. Department of Defense’s Independent Research and Development Program’s Background, Creation, and Performance, 1945-1970”*, Glen Asner, Carnegie Mellon University

*“Revealing the Institutional Pluralism of Cold War Research Through the Lens of Computing History”*, Atushi Akera, Rensselaer Polytechnic Institute

*"The Technopolitics of International Broadcasting: The Voice of America Radio Ring and the Cold War, 1950-1953"*, Timothy Stoneman, Georgia Institute of Technology

#### **10. User-De-signs: Decoding the Experience of 20<sup>th</sup> Century Technological Consumption**

*Organizers:* Gwen Bingle, TU München, Heike Weber, TU München, and Thomas Brandt, Norwegian University for Science and Technology, Trondheim

*Chair:* Ronald Kline, Cornell University

*Commentator:* Joy Parr, Simon Fraser University

*"Making Sense of Italian Style: Users' and Producers' Narratives about the Italian Scooter Vespa since 1946"*, Thomas Brandt, Norwegian University for Science and Technology, Trondheim

*"Negotiating Mobile Consumption: Images, Meanings and User Practices of 20<sup>th</sup> Century Portables"*, Heike Weber, Technische Universität München

*"Under the Sign of the Body: Naturalizing Technological Well-Being in the Design of Wellness Users"*, Gwen Bingle, Technische Universität München

#### **11. Nuclear Narratives**

*Organizer:* Catherine Westfall, Michigan State University

*Chair:* Catherine Westfall, Michigan State University

*Commentator:* Joanna Ploeger, University of Iowa

*"What is Movement Narrative?"*, Robert Benford: Southern Illinois University

*"Movement Narrative in the History of Brookhaven National Laboratory"*, Robert Crease, State University of New York, Stony Brook

*"Heroes and Villians: Movement Narrative and Argonne's Experimental Breeder Reactor Project"*, Catherine Westfall, Michigan State University

#### **12. Mistakes or Failures**

*Chair:* Pamela Laird, University of Colorado at Denver

*Commentator:* James C. Williams, De Anza College

*"Who Killed the Horses?"*, Jenny Leigh Smith, MIT

*"Washed out. Electroencephalography & Emotions Among Naval Pilot Recruits During the Second World War"*, Kenton Kroker, University of Toronto

*"The Short, Happy Life of Quadrophonic Sound"*, Jeffrey D. Tang, University of Pennsylvania

#### **13. The Technologies of Print in Early Modern Europe – Session I on the History of Printing, held at Massey College**

*Organizer:* Pamela O. Long, Washington D.C.

*Chair:* Daryl Hafter, Eastern Michigan University

*Commentator:* Pierre Claude Reynard, University of Western Ontario

*"Archaeology of Printing and the Manufacture of Books"*, Robert Randall McLeod, University of Toronto

*"The Technological Burden of Print in Early Modern England"*, Sabrina Alcorn Baron, Takoma Park MD

*"Paper and Papermaking in Early Modern Europe: A Transnational View"*, Leonard Rosenband, Utah State University

**Friday, October 18, Late Afternoon: 3.30 – 5.45 pm**

#### **14. Printing Demonstration Workshop: The Massey College Presses – Session II on the History of Printing, held at Massey College**

*Organizer:* Pamela O. Long, Washington D.C.

*Demonstrator:* Marie Korey, Librarian, Robertson Davies Library, Massey College

#### **15. Seeing the Body**

*Chair:* Robert Bud, Science Museum, London

*Commentator:* Martina Blum, Technische Universität München

*"The Wax Anatomical Models of Kingston, Canada"*, Annette Burfoot, Queen's University and Rona Rustige, Museum of Health Care, Kingston

*"Complexity, Technological Style and Technology Transfer"*, Diana Hoyt, Virginia Polytechnic Institute and State University

*"The Atlas of the Visible Human Male: Medical Imaging, Seriality, and Spectacle"*, Stephen Groening, University of Minnesota

## 16. Wires, Pipes and Communities: Creating Infrastructures

*Chair:* Kenneth Lipartito, Florida International University

*Commentator:* Mats Fridlund, Imperial College of Science, Technology and Medicine, London

*“Sanitary Reform and Technology in Nineteenth Century Lisbon”*, Álvaro Ferreira da Silva, Nova University, Lisbon

*“The Creation of the Electrical Telegraph System in Spain (1855-1920)”*, Angel Calvo, University of Barcelona

*“Calling Middletown: Telephone Networks in the United States and Canada, 1877-1913”*, Robert MacDougall, Harvard University

*“Electricity in Norway 1870s to 1900 – A Study of the Transfer and Local Application of an Open and Formative Technology”*, Astrid Wale, Norwegian University of Technology and Science, Trondheim

## 17. Closing the Black Box: Armed Conflict and the Resolution of Technical Debate

*Organizer:* Timothy S. Wolters, MIT

*Chair:* Kathleen Broome Williams, City University of New York

*Commentator:* Kathleen Broome Williams, City University of New York

*“Evolution or Punctuated Equilibrium: British Battle Fleet Tactical Communications in the Era of the World Wars, 1900-1945”*, Jon Sumida, University of Maryland

*“Locating the Brains of a Warship: The Construction of Shipboard Information Processing Stations Before and After the Naval Battle of Guadalcanal”*, Timothy S. Wolters, MIT

*“‘The Ultra Secret’ and the Vulnerability of U-Boat Technology: German Reliance on the Enigma Machine in the Battle of the Atlantic”*, Sarandis Papadopoulos, U.S. Naval Historical Center, Washington, DC

## 18. Rethinking Resistance: Prohibiting, Problematising and Procuring Automobile Technology in 20<sup>th</sup> Century North America

*Organizer:* Sasha Mullally, University of Toronto

*Chair:* Donald F. Davis, University of Ottawa

*Commentator:* Mark Rose, Florida Atlantic University

*“Customers and Car Companies: Negotiating the New*

*Technology of the Automobile in the United States”*, Robert Buergler, University of Chicago

*“Hot Seats and High Flagging: The Resistance to and Reshaping of Technology in the Twentieth-Century Taxi Industry of Halifax and Toronto”*, Kimberly Berry, University of Ottawa

*“‘Fad of Millionaires and Fools’: Banning the Automobile in Prince Edward Island, 1908-1919”*, Sasha Mullally, University of Toronto

## 19. Early Modern Instrumentality and Warfare

*Organizer:* Steven A. Walton, Michigan Technological University

*Chair:* Janis Langins, University of Toronto

*Commentator:* Janis Langins, University of Toronto

*“Personal Instruments and the Creation of the Military Gentleman”*, Steven A. Walton, Michigan Technological University

*“Surveying and the Cromwellian Reconquest of Ireland”*, William T. Lynch, Wayne State University

*“Contexts of the Scientific Siege in the Age of Vauban”*, Jamel M. Ostwald, Ohio State University

## 20. The West Meets the Rest

*Chair:* Ulrich Wengenroth, Technische Universität München

*Commentator:* Ted Beatty, University of Notre Dame

*“Technology Transfer, Innovation, and the Presence of American Technology in Buenos Aires (1840-1845)”*, Paulo Zappia, Universidad del Salvador, Buenos Aires

*“Consuming the Blue Dye: Market Competition Between Natural and Synthetic Indigo, 1897-1914”*, Prakash Kumar, Georgia Institute of Technology

*“Firearms as Agents of Social Transformation: The Mozambique-Zimbabwe-South Africa Transfrontier Area and Technology Transfer, 1880-1940”*, Clapperton Mavhunga, University of Zimbabwe

**Friday, October 18, Evening: 7.00 – 8.00 pm**

**Public Evening Lecture** – *“The Neo-Classic Museum (The Revenge of the Object)”*

*Speaker:* William Thorsell, President and Chief Executive Officer, Royal Ontario Museum, Toronto, Ontario

**Saturday, October 19, Morning: 9.00 –11.30 am****21. The Social Architectures of Cold War Electronics**

*Organizers:* Kristen Haring, Harvard University and Edward Jones-Imhotep, University of Guelph

*Chair:* Stuart W. Leslie, Johns Hopkins University

*Commentator:* Jennifer S. Light, Northwestern University

*“Reliable Humans, Trustworthy Machines: The Material and Social Construction of Electronic Reliability”*, Edward Jones-Imhotep, University of Guelph

*“The Age of Electronics, at Work and at Leisure”*, Kristen Haring, Harvard University

*“Olivetti for the People: Electronics and Social Planning in Post-War Italy”*, Massimo Mazzotti, University of Toronto

*“Lost in Translation: Total Systems from War Room to Boardroom, 1954-1968”*, Thomas Haigh, University of Pennsylvania

**22. Learning History by Doing History**

*Chair:* Merritt Roe Smith, MIT

*Commentator:* Robert Friedel, University of Maryland

*“The Power in Popularization: Lessons from Writing a Global History of Technology”*, W. Bernard Carlson, University of Virginia

*“A New Cultural History of Technology”*, Andrew Jamison, Aalborg University

*“Disciplining Technology: The Database for Historical Research”*, Jessica Schaaap, New Media BC, Vancouver

*“Retooling: A Historian Confronts Technological Change”*, Rosalind H. Williams, MIT

**23. Engineering a Civil Society?**

*Chair:* Jonathan Coopersmith, Texas A&M University

*Commentator:* Arwen Palmer Mohun, University of Delaware

*“Making Money: Counterfeiters, Industrialization, and the Mechanization of Money”*, Stephen A. Mihm, New York University

*“The Promise of a Benign Operation: On the Death Penalty, Electrified Bodies, and Performances of Civilization in the Late Nineteenth-Century United States”*, Jürgen Martschukat, University of Hamburg

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*Politics and the Machine: Technology as an Agent of Democracy in U.S. Elections”*, Linda Eikmeier Endersby, Rutgers University and James W. Endersby, University of Missouri

*“Monitoring People in France: From the Options of French Army Operational Statistics to the Perils of Record Management, 1932-1944”*, Lars Heide, Copenhagen Business School

**24. Technologies in Transition: Transfer in the 20<sup>th</sup> century**

*Chair:* Johan Schot, Eindhoven University of Technology

*Commentator:* Hans Weinberger, Royal Institute of Technology Stockholm

*“Technology Transfer from Germany to Canada After 1945”*, Stephen Koerner, Victoria, B.C.

*“Project Eastinghouse – Technology Transfer or Multicultural Mixing of Technology?”*, Karl-Erik Michelsen, University of Helsinki

*“Users and Producers of Plastics in Post World War II Norway: Building a New Industry Through Transfer of Technology”*, Liv Ramskjaer, Norwegian Museum of Science and Technology

*“Cultural Dimensions of Technology Transfer in the International Offshore Industry”*, Gunnar Nerheim, Norwegian Museum of Science and Technology

**25. Works in progress Nr.2**

*Chair:* Ruth Schwartz Cowan, University of Pennsylvania

*Commentator:* Nina Lerman, Whitman College

*“Industrial Milling in the Ancient and Medieval Worlds”*, Adam Robert Lucas, University of New South Wales, Australia

*“Christophe-Philippe Oberkampft — Enlightened Entrepreneur Extraordinaire”*, Hanna E.H. Martinsen, University of Toronto

*“Practices and Discourses of Racial Discrimination in the American Life Insurance Industry”*, Pap Ndiaye, Ecole des hautes études en sciences sociales, Paris

*“When Hobbyists Were Experts: the U.S. Radio Amateur’s Long-Range Short-Wave Experiments ‘circa’ 1920”*, Chen-Pang Yeang, MIT

**26. To Represent is to Know: Technologies of Instrumentation**

*Chair:* Trevor H. Levere, University of Toronto

*Commentator:* Eda Kranakis, University of Ottawa

*“Designing their Own Instruments: Women and Technology in Radioactivity Research from 1920-1938”*, Maria Rentetzi, Virginia Tech

*“From Lambert’s Photometria of 1760 to the Metropolis Gas Act of 1860: Visual Photometry and its Effect on the Development of the Gas Lighting Industry”*, David L. DiLaura, University of Colorado

*“Instruments of Chaos: The Necessity and Impossibility of Standardizing the Sphygmograph in Late Nineteenth-Century American Medicine”*, Carita Constable Huang, University of Pennsylvania

*“Reading Between the Spectral Lines: A Look at the Co-Production of Nuclear Magnetic Resonance Spectrometers by Varian Associates and Organic Chemists, 1956-1969”*, Jody A. Roberts, Virginia Tech

**Saturday, October 19, Lunch 11.45 – 12.45****Lunchtime Workshop: 10 Steps to Getting Your Story Told Well in Today’s Media**

*Organizer:* Marianne Fedunski, University of Oxford, UK  
*Moderators:* Marianne Fedunski, University of Oxford, UK and Ivan Semeniuk, Producer for Discovery Channel Canada

**Saturday, October 19, Super Sessions: 1.00 – 2.30 pm****27. History of Canadian History of technology: Between the Giant and the North Pole**

*Organizer:* Janis Langins, University of Toronto

*Chair:* John Staudenmaier, University of Detroit Mercy

*Commentator:* the audience

*Panelists:* Norman Ball, University of Waterloo  
Richard White, University of Toronto  
David Zimmerman, University of Victoria

**28. Museums and the History of Technology**

*Chair:* Arthur Molella, Smithsonian Institution

*Commentator:* the audience

*Panelists:*

Robert Bud, Science Museum, London  
Elisabeth von Dückern, Museum der Arbeit, Hamburg  
Karen Utz, Sloss Furnaces National Historic Landmark, Birmingham, AL

**Saturday, October 19, Late Afternoon: 2.45 – 5.00 pm****29. What Becomes an Engineer?**

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

*Commentator:* Sungook Hong, University of Toronto

*“Technology, Applied Science, and Progress in France: Dictionnaire Technologique (1822-1835)”*, John Pannabecker, Hutchinson Community College, Kansas

*“Engineering Culture: Theory, Praxis, and the Debate Over Technical Education in Germany, circa 1900”*, Suman Seth, Princeton University

*“Architecture, Technology or Fine Art? How American Architectural Schools Answered this Question, 1890-1912”*, Sara E. Wermiel, MIT

*“The Engineer in State Development: Estonia’s First Period of Independence”*, Vahur Mägi, Tallinn Technical University

**30. Rethinking the Historiography of Industrial Research in the United States, 1920-1960**

*Organizer:* Gerard J. Fitzgerald, Carnegie Mellon University

*Chair:* Amy Slaton, Drexel University

*Commentator:* Ronald Kline, Cornell University

*“Problematizing the Historiography of Industrial Research”*, Susan W. Morris, Johns Hopkins University

*“‘The Bugaboo of Bugville’: The Westinghouse Sterilamp and the Technological Challenge of Airborne Disease, 1930-1947”*, Gerard J. Fitzgerald, Carnegie Mellon University

*“‘Atom Smashing at East Pittsburgh’: The Origins and Growth of Industrial Nuclear Physics at the Westinghouse Electric, 1935-1960”*, Thomas Charles Lassman, Chemical Heritage Foundation

**31. Problem or Solution: Technology and the Environment**

*Chair:* Joel Tarr, Carnegie Mellon University

*Commentator:* Norman Fuchsloch, TU Bergakademie Freiberg

*“Pollution Resistance and Technology Choice in the Early 20<sup>th</sup> Century: the Case of the Orebro Paper Mill Conflict”*, Kristina Söderholm, Luleå University of Technology

“*The Eye of the Needle’ Of Nuclear Energy in the Federal Republic of Germany – The History of Nuclear Waste Disposal from its Beginnings to Gorleben 1955-1980*”, Anselm Tiggemann, University of Cologne

“*Smoke, Technology, and the Clean Air Act of 1956*”, Peter Thorsheim, University of North Carolina at Charlotte

### **32. Aural Automata Afloat: Antecedents of the Machine Age**

*Chair:* Bert Hall, University of Toronto

*Commentator:* Deborah Warner, National Museum of American History

“*Deconstructing Reconstruction: The Restoration of the 17<sup>th</sup> Century English Pipe Organ*”, Caroline Cagle, Ouachita Baptist University, Arkansas

“*Invention in Context: Mechanical Navigation in the 18<sup>th</sup> Century*”, Jean-Louis Trudel, Université du Québec à Montréal

“*Clockwork dressed as a Human: The ‘Artistic’ and the ‘Mechanical’ in the Construction and Interpretation of Automata in 18<sup>th</sup> Century Europe*”, Adelheid Voskuhl, Friedrich-Schiller-Universität Jena

### **33. Technology, Power and the State**

*Chair:* Tom Misa, Illinois Institute of Technology

*Commentator:* Barton Hacker, Smithsonian Institution

“*Mehmed the Conqueror and Fire-Arms Technology*”, Salim Aydüz, Fatih University Istanbul

“*Wartime Technology: Its Transfer and Impact on Furniture Making in the Twentieth Century*”, Clive Edwards, Loughborough University School of Art and Design

“*Rationalizing the “Guerilla State” North Korean Factory Management Reform in the 1960’s*”, Hyungsub Choi, Johns Hopkins University

### **34. Danes from Newcastle: Technology Transfer in the 19<sup>th</sup> Century**

*Chair:* Hans-Joachim Braun, Universität der Bundeswehr Hamburg

*Commentator:* Suzanne Moon, Colorado School of Mines

“*British Coal Technology and European Iron-Making in the Nineteenth Century*”, Chris Evans, University of Glamorgan and Göran Ryden, University of Uppsala

“*Technology Transfer and British Supremacy – Anglo-Swedish Iron Technology in India in the 1860s*”, Jan Geijerstam, Royal Institute of Technology, Stockholm

“*Danish Engineers and Scientists Abroad, 1829-1945: Results of a Collaborative Biography Project*”, Mark Clark, Oregon Institute of Technology

### **Saturday, October 19, late Afternoon: 5.15 – 6.00 pm**

SHOT Business Meeting

### **Saturday Evening**

Awards Banquet – Hart House, University of Toronto

### **Sunday, October 20, Morning: 9.00 – 11.00 am**

### **35. Intimate Technologies: A History of Women, Clothing, and the Construction of Shape**

*Organizer:* Amy Sue Bix, Iowa State University

*Chair:* Rachel Maines, Cornell University

*Commentator:* Amy Sue Bix, Iowa State University

“*Technology and the Bra*”, Jane Farrell-Beck, Iowa State University

“*A Technological History of Corsets: Design, Invention, and Use*”, Colleen R. Gau, Byron MN

“*Wired for Fashion*”, Julie Wosk, State University of New York

### **36. Techno Cities, Science Cities, and Techno-Science Cities**

*Organizer:* Martina Hessler, Deutsches Museum München; Robert Kargon, Johns Hopkins University

*Chair:* Helmuth Trischler, Deutsches Museum München

*Commentator:* Steven Goldman, Lehigh University

“*Techno-Citta: Technology and Urban Design in Fascist Italy*”, Robert Kargon, Johns Hopkins University and Arthur Molella, Smithsonian Institution

“*Science City Movement in the Post-War USSR: The Case of the Ural Scientific Center*”, Paul Josephson, Colby College

“*The Techno-Science City: Munich as an ‘Innovative Milieu’?*”, Martina Hessler, Deutsches Museum München

### 37. Global Shipbuilding in War and Reconstruction

*Organizers:* Christopher James Tassava, Northwestern University, and Jonathan Zeitlin, University of Wisconsin Madison  
*Chair:* Alex Roland, Duke University

*Commentator:* Thomas Heinrich, Baruch College; City University of New York

“*The Rise and Fall of ‘Coordinated Specialization’: Production Alternatives and Public Choices in British Shipbuilding, 1936-1964*”, Jonathan Zeitlin, University of Wisconsin Madison

“*Continuities and Discontinuities in Productive Organization and Technology: The Japanese Shipbuilding Experience*”, Kazuo Wada, University of Tokyo, and Takao Shiba, Kyoto Sangyo University

“*Standing Up, Falling Down: American Merchant Shipbuilding, 1936-1958*”, Christopher James Tassava, Northwestern University

### 38. The Factory Project: A Panel Discussion about a Multi-disciplinary Study of Technology, Its Culture, and Its Impact

*Organizers:* Haakon With Andersen, Norwegian University for Science Technology, Trondheim (NTNU) and Lindy Biggs, Auburn University

*Chair:* Haakon With Andersen, NTNU

*Panelists:*

Knut Ove Eliassen (literary sciences, history of ideas), NTNU

Ola Svein Stugu (history), NTNU

Auden Øfsti (philosophy), NTNU

Terje Borgersen (art history, media study), NTNU

*Moderator:* Robert Friedel, University of Maryland

### NEWS OF MEMBERS

**Martin V. Melosi** has won the Excellence in Research and Scholarship Award for full professors (2002) at the University of Houston, where he is Distinguished University Professor. The award is university-wide and is given annually to one person at each academic rank.

**Daryl M. Hafter** (Eastern Michigan University) was awarded the Newcomen Article Award in Business History for “Women in the Underground Business of Eighteenth-Century Lyon”, *Enterprise & Society* 2, 1 (March 2001), 11-40. This prize

recognizes the best article published in *Enterprise & Society: The International Journal of Business History* in volume previous to the year of the award. It is awarded in association with the Newcomen Society of North America.

**Miriam Levin** was invited to be the Maria Goeppert Mayer Visiting Professor at the University of Gottingen and will be presenting an invited lecture and seminar there in June. She was visiting professor at the University Blaise Pascal in France during the spring 2002 semester. Her article “Museums and the Democratic Order” appeared in the Winter issue of the *Wilson Quarterly*.

**Yves Cohen** was awarded the 2002 Technology and Business History French Prize for *Organiser a l'aube du taylorisme La pratique d'Ernest Mattern chez Peugeot, 1906-1919* (publié aux Presses universitaires franc-comtoises)

**Ruth Cowan** has accepted the Janice and Julian Bers Chair at the University of Pennsylvania

### CALL FOR PAPERS

**XXXVI Settimana di Studi, THE CONSTRUCTION INDUSTRY BEFORE THE INDUSTRIAL REVOLUTION, 13TH TO 18TH CENTURIES, Prato, 26-30 Aprile 2004** The Istituto Datini of Prato will dedicate the Settimana di Studi of 2004 to the construction industry before the industrial revolution, 13th to 18th centuries. Historians who are working on particular aspects of the industry – the construction of specific buildings, urban expansion, public works, fortifications, engineering projects, building technology, design, etc – are invited to present proposals that fit into the tentative program presented below. Participants are asked to consider the kinds of issues that interest economic historians. They should indicate how their proposal fits into this scheme and demonstrate a willingness to go beyond description to make comparisons across space and across time with the objective of throwing light on the industry as a whole and on the overall economy. All interested scholars should send proposals, clearly specifying theme, period and region of interest, to the Istituto Datini by no later than **15 September 2002**. The Executive Committee of the Istituto will make decisions about acceptance of proposals by 31 October, 2002. Members of the committee are Hans Pohl (Bonn, President), Michele Cassandro (Siena, Vice-President), Miguel Ángel Ladero Quesada (Madrid, Vice-president), Giampiero Nigro (Firenze, scientific director), Maxine Berg (Warwick), Jean-François Bergier (Zurigo), Giorgio Borelli (Verona), Antonio di Vittorio (Bari),

Laurence Fontane (IUE Firenze), Richard Goldthwaite (Baltimore), Alberto Grohmann (Perugia), Paul Klep (Nijmegen), Paola Massa (Genova), Henryk Samsonowicz (Varsavia). Participants will give a summary presentation of their papers at the conference as either a relazione, a paper on a general topic (20 minutes), or a comunicazione, a paper on a specific topic or a case study (10 minutes). Papers can be presented in Italian, English, French and German. During the conference there is concurrent translation of the presentation of papers and discussion into these languages. Papers written in Spanish will be accepted, but at the conference authors of these papers must speak in one of the above languages. All papers must be original and not previously published or translated from previously published papers. Papers (max. 70,000 keystrokes for general papers, 30,000 keystrokes for specific papers) will be circulated at the conference and will be published in the annual proceedings of the Istituto. The Istituto Datini will pay the following costs for all officially invited participants: travel by railway (first class) or by plane (special tickets in tourist class up to a certain amount, as indicated in the official invitation); accommodations including breakfast up to five nights in hotels at Prato selected by the Istituto; 20 Euros per day for meals through special arrangements the Istituto makes with selected restaurants in Prato; 1 official banquet; no honorarium. More information available from: Palazzo Benini - Via L. Muzzi 38 - 59100 Prato - Tel. 0574 604187; Fax: 0574 604297 Posta elettronica: [datini@istitutodatini.it](mailto:datini@istitutodatini.it) Sito Web: <http://www.istitutodatini.it>

On **June 26-29, 2003** in Lowell, Massachusetts the **Business History Conference and European Business History Association** will hold their annual meetings together around the theme "Regions, Nations, and Globalization." The conference is centrally concerned with firms and other economic actors, in a long-term perspective, as the builders of globalization, especially their strategies, their economic results, and their social and cultural impact. Attention will be paid to the role of national economic systems in terms of regulations and political economy. It will keep in mind the emerging significance of companies' clusters concentrated in metropolitan areas, diffused in homogeneous territories or even linked through global networks given the new transportation, information, [and] communication technologies. The organizers are particularly interested in papers and panels that incorporate transnational discussions of the themes listed in the announcement on the SHOT web site. As these are annual meetings of both organizations, papers outside of the meeting themes also are welcome. Proposals may be submitted for individual papers or for entire panels. Each proposal should include a one-page abstract and one-page curriculum vitae or resumé for each participant. Panel proposals also should have a cover

letter containing a title, a one-paragraph panel description, suggestions for a chair and commentator, and contact information for the panel organizer. Graduate students in the early stages of writing dissertations may apply for inclusion in designated workshops intended to discuss preliminary conclusions and methodologies in an informed but informal environment. Interested students should submit a one-page abstract of their project and a one-page vitae. These proposals should indicate they are intended for the Dissertations in Progress sessions. Dissertations completed in the previous three years (2000-2002) are eligible for the conference's dissertation session. Proposals are welcome from Ph.D recipients in history, business administration, history of science and technology, economics, legal studies, and other fields whose work is on business history broadly defined. Presentations made at this session will be published in *Enterprise & Society*, the BHC journal. One dissertation will receive the Herman E. Krooss Prize for the best dissertation in business history, which includes a \$500 award. Proposals should consist of a cover letter, the dissertation abstract, and the author's c.v., and indicate they are intended for the Krooss Prize Dissertation Session. Presenters are expected to submit abstracts of their papers in electronic form for posting on the Business History Conference and European Business History Association web sites. Authors also are encouraged to post electronic versions of their full papers in advance of the meeting. All papers presented at the annual meeting are eligible for inclusion in the BHC's on-line proceedings volume, *Business and Economic History*. The deadline for **receipt** of submissions is **September 27, 2002**. All graduate students presenting papers are eligible for travel grants to defray costs associated with attending the meeting. Please send five copies of proposals to Roger Horowitz, Secretary-Treasurer, Business History Conference, P.O. Box 3630, Wilmington DE 19807, USA, phone 302-658-2400, fax 302-655-3188, email [rh@udel.edu](mailto:rh@udel.edu). The program committee is Franco Amatori (co-chair), Philip Scranton (co-chair), Wendy Gamber, Even Lange, Margaret Levenstein and Bill Mass. Accommodations will be at the Doubletree Hotel, 50 Warren, Lowell, MA 01852, 978-452-1200.

The **Economic & Business Historical Society** welcomes proposals for presentations on all aspects of business and economic history at its 28th annual conference at Memphis, Tennessee, April 24-26, 2003. Composed of some three hundred North American and international members, the Economic & Business Historical Society offers participants an opportunity for continuing intellectual interchange within a modest-sized, collegial, and interdisciplinary group. In keeping with its traditions, the Society seeks proposals for both individual papers and panel sessions. Graduate students are invited to apply and may qualify for reduced registration fees.



The Society holds its annual convention in locations of historical significance. Both the annual membership (\$25) and conference registration fees are modest. Papers presented at the conference may be submitted for publication in the Society's peer-reviewed journal, *Essays in Economic and Business History*, edited by Michael V. Namorato of the University of Mississippi. Proposals for individual papers should include an abstract of no more than 500 words, a brief CV, postal and email addresses, and telephone and fax numbers. Panel proposals should also suggest a title and a panel chair. Graduate students and nonacademic affiliates are welcome. Submissions imply that at least one author will register for the conference and be present at the time designated in the conference program. The deadline for submission is **15 January 2003**. Proposals may be submitted sent by email to [jpr2@psu.edu](mailto:jpr2@psu.edu), or mail to: John Paul Rossi, Penn State Erie, Behrend College, School of Humanities & Social Sciences, Station Road, Erie, PA.

## CONFERENCES

The Chemical Heritage Foundation (CHF) is pleased to announce that the **Fourth International Conference of the Commission on the History of Modern Chemistry** will be held on **3-5 October 2002**. Fifteen scholars from Europe, Asia, and North and South America will gather at CHF's new home in Philadelphia to present their research on the interactions between the chemical and molecular sciences, technologies, and related industries since 1900. All sessions will take place at the Chemical Heritage Foundation. Conference papers will be pre-circulated. To register, please contact Todd Waters, External Relations Assistant, at (215) 925-2222, ext. 301; fax: (215) 925-9071; e-mail: [toddw@chemheritage.org](mailto:toddw@chemheritage.org). Limited seating is available

Experience the world of civil engineering - *your world* - from a new perspective through **Me, Myself and Infrastructure: Private Lives and Public Works in America, (May 21-September 15, 2002, New-York Historical Society)** an exhibition celebrating the role infrastructure-roads, bridges, buildings, and water systems-in our everyday lives. Me, Myself and Infrastructure defines civil engineering by asking questions like Is it safe? Why so big? and How long will it last? The exhibit commemorates the 150th anniversary of the American Society of Civil Engineers. For more information: (212) 873-3400 or visit [www.asce.org/150/infrastructure](http://www.asce.org/150/infrastructure)

**Hagley Research Seminar Series 2002-2003 Sept. 19**, Ben Fine, School of Oriental and African Studies, University of

London "Cluttered Landscapes of Consumption: An Economist's Gaze"; **Oct. 10**, John Giggie, University of Texas-San Antonio "Tracking Jesus: Railroads, Ex-Slaves and the Transformation of Black Religion in the American South, 1865-1917"; **Nov. 14**, Catherine Fisk, Loyola Law School "A Free Labor Ideology for the Ingenious Tinkerer: Class and the Ownership of Intellectual Property in the Employment Relation, 1890-1930"; **Dec. 12**, Steven Mihm, New York University "Ghosts in the Machine: Counterfeiters, Bank Notes, and the Industrialization of Engraving in Antebellum America"; **Jan. 9**, Kevin Borg, James Madison University "Tinkering with Socio-technical Hierarchies: Reconfiguring Automobiles and Recreating Mechanics, 1918-1940"; **Feb. 13**, Roberta M. Moudry, Cornell University "The Corporate and the Civic: Metropolitan Life's Home Office"; **March 13**, Matt Roth, University of Southern California and Automobile Club of Southern California "The Last New Deal Project: Entrepreneurial Bureaucrats and the Creation of the Los Angeles Freeway Network, 1939-1944"; **April 10**, Reggie Blaszczyk, Chemical Heritage Foundation "Color Rx: Tales of Color and Fashion from the Modern Era"; **May 8, 2003**, Joy Parr, Simon Fraser University "National Cultures of Risk: Radiation Protection in Nuclear Industries"; Seminars commence at 6:30 p.m., preceded by an informal half-hour reception, and take place in the Copeland Room of Hagley's Library building. Papers are distributed in advance. To join the seminar mailing list contact the Center for the History of Business, Technology, and Society at the address below, or email Carol Lockman at [curl@udel.edu](mailto:curl@udel.edu).

**Three Centuries of Chemistry at Cambridge. Department of Chemistry, University of Cambridge, UK. Friday 6 December 2002, 9:30am-7:30pm.** The Department of Chemistry, in conjunction with the Society for the History of Alchemy and Chemistry, the Historical Group of the Royal Society of Chemistry, and the Whipple Museum of the History of Science, is pleased to announce a symposium marking the tercentenary of the chair of chemistry at Cambridge. **SPEAKERS:** Jeremy Sanders, Head of Department of Chemistry, University of Cambridge. Simon Schaffer, Reader, Department of History and Philosophy of Science, University of Cambridge. Colin Russell, Emeritus Professor of History of Science and Technology, Open University. Larry Stewart, Head of Department of History, University of Saskatchewan. Mel Usselman, Department of Chemistry, University of Western Ontario. William Brock, Visiting Professor, Centre for History & Cultural Studies of Science, University of Kent. John Shorter, Emeritus Reader in Chemistry, University of Hull. Arnold Thackray, President, Chemical Heritage Foundation. James Baddiley, Emeritus Professor of Chemical Microbiology, University of Newcastle. Dan

Brown, Emeritus Reader in the Department of Chemistry, University of Cambridge. Robert Ramage, Emeritus Professor of Organic Chemistry, University of Edinburgh. FURTHER INFORMATION: Conference programme and registration form will be available online shortly. Queries may be sent to chem-300@lists.cam.ac.uk

**3rd International Preservation Forum, Friday and Saturday, 1 and 2 November 2002, Newport, Rhode Island LANDED INTERESTS: Changing Approaches to Preserving Historic Landscapes** For over a century, landscapes and the buildings that help to give their regional character have been preserved through voluntary efforts and planning legislation. America has led the way in this field, but how have changing approaches to historic landscape issues affected the politics of landscape designation at home and abroad? While farming and industrial interests bring new challenges for preservationists to negotiate, in some circumstances development is required to combat rural poverty, but what kind of development? Eleven preservation professionals from around America, Europe and South Asia will discuss case studies that include the Alaskan wilderness, Irish country houses and landscapes, Swedish farms, and monuments and villages in Pakistan. Speakers include Dr Keith Morgan, Boston University; Dr Paul Groth, UCLA; Ulrich Lange, Central Board of Swedish Antiquities; the Knight of Glin, Ireland. Presented by: Boston University, Preservation Studies Program and Art History Department and The Preservation Society of Newport County. Location: Rosecliff and other historic buildings, Newport, Rhode Island. Fee: \$125. Students / young professionals: \$50. Some scholarships and assisted places available. Further information from: Academic Programs Department, Preservation Society of Newport County telephone: 401-847-1000 extension 154 fax: 401-847-1361 e-mail: acprog@NewportMansions.org

## EMPLOYMENT

The **Massachusetts Institute of Technology** invites applications for the position of director of the MIT Museum. The MIT Museum's mission is to document, interpret and communicate the activities and achievements of the Massachusetts Institute of Technology. Serving as a resource that enhances the intellectual and communal life on campus, it is undergoing a transformation into a dynamic and significant cultural institution. An experienced entrepreneurial leader desirous of an innovative academic environment is sought to continue and extend this development process. A complete job announcement can be viewed at <http://web.mit.edu/museum/informa->

[tion/employment.html](http://web.mit.edu/museum/information/employment.html). Review of applications will begin **September 1, 2002**. Qualified applicants should send a resume, including references and supporting materials to: MIT Museum Director Search, Office of the Associate Provost for the Arts, Massachusetts Institute of Technology, 77 Massachusetts Avenue, 10-280, Cambridge, MA 02139-4307. MIT is an affirmative action, equal opportunity employer.

**The Center for History of Physics, American Institute of Physics**, announces an opening for a **project historian** to participate in the Project to Document the History of Physicists in Industry. The position is full-time for two years and may be extended to three years depending on funding. **Responsibilities:** Working with a team of archivists, historians and sociologists, the Project Historian will play a lead role in developing, coordinating, and implementing our study of how to document the history of physicists in industry. In addition to helping to select candidates for interviews and participating in site visits, questionnaire interviews, records surveys, and all other project activities, the historian will conduct longer in-depth interviews with senior scientists and science administrators. The historian will also be responsible for analyzing the historical findings of the study and drafting sections of the final report. **Responsibilities include regular site visits of two to five days.** **Qualifications:** Ph.D. or nearly complete Ph.D. in twentieth century history, specializing in an area relevant to the study (e.g., science, technology, business). Experience with oral history interviewing preferred; ability to work effectively as part of an interdisciplinary research team required. Must be able to lift 40 lb. boxes of archival materials. **Deadline for Applications: July 15, 2002** **Salary:** Competitive salary and benefits. Applicants should send resume and cover letter, including salary requirements, to: American Institute of Physics, Attn: Sandra James, One Physics Ellipse, College Park, MD 20740; [aiphr@aip.org](mailto:aiphr@aip.org) (email) 301-209-0847 (fax) The American Institute of Physics is an Equal Opportunity Employer

## FELLOWSHIPS

**The Dibner Institute for the History of Science and Technology** invites applications to its two fellowship programs for the academic year 2003-2004: the Senior Fellows program and the Postdoctoral Fellows program. Some twenty-five Dibner Fellows are resident at the Institute each year. The Dibner Institute is an international center for advanced research in the history of science and technology, established in 1992. It draws on the resources of the Burndy Library, a major

collection of both primary and secondary material in the history of science and technology, and enjoys the participation in its programs of faculty members and students from the universities that make up the Dibner Institute's consortium: the Massachusetts Institute of Technology, the host institution; Boston University; and Harvard University. **Senior Fellows Program.** Candidates for Senior Fellowships should have advanced degrees in disciplines relevant to their research and show evidence of substantial scholarly accomplishment and professional experience. Senior Fellows may apply for a second fellowship appointment five years after their first successful application. Scholars may apply to the Senior Fellows program for the Fall (Term 1), the Spring (Term 2) or both. Term 1 extends from August 1 through December 31, with full activities beginning on September 1; Term 2 extends from January 1 through May 31, with full activities beginning the second half of January. At the time of application, Term 1 candidates may request an arrival date in August; Term 2 candidates may request an extension into June. The Institute prefers that Senior Fellows apply for a two-term, full-year residency if possible. **Postdoctoral Fellows Program.** Fellowships are awarded to outstanding scholars of diverse countries of origin who have received the Ph.D. or equivalent within the previous five years. Postdoctoral Fellowships run for one year, from September 1 through August 25, and may be extended for a second and final year at the discretion of the Dibner Institute. **Terms and Conditions.** All Dibner Institute Fellows are expected to reside in the Cambridge/Boston area during the terms of their grants, to participate in the activities of the Dibner Institute community, and to present their work once during their fellowship appointments. Fellowships provide office space, support facilities and full privileges at the Burndy Library and at the libraries of consortium universities. Fellows will have access to the entire spectrum of activities that take place at the Dibner Institute, where they will be able to find the resources and appropriate settings to carry on their work. Information about living expenses and the annual Dibner stipend is provided with the application forms. **The deadline for receipt of applications for 2003-2004 is December 31, 2002.** Fellowship recipients will be announced in March, 2003. Please send requests for further information to: Trudy Kontoff, Program Coordinator, Dibner Institute for the History of Science and Technology, MIT E56-100, 38 Memorial Drive, Cambridge, Massachusetts 02139. Telephone: 617. 253.6989 Facsimile: 617. 253.9858 E-mail: [dibner@mit.edu](mailto:dibner@mit.edu) Website: <http://dibinst.mit.edu>

**The Institute of European History**, Department of General History, awards ten fellowships for a six- to twelve-month research stay at the Institute in Mainz. The application is open to all young historians in Germany and abroad, who apply with a research project of their own in the field of German and

European history since the 16th century. As a rule, the fellows work on their dissertation or on a post-doc research project. The Institute's library with over 200 000 books and more than 550 periodicals as well as computers for data communication are available to the fellows for their researches. Applications can be sent any time. The selection is made by the department's fellowship commission, which meets three times a year, in March, July and November. During the time of the fellowship, fellows are not allowed to receive financial supporting from another side. Foreign applicants should have enough command of the German language to be able to take an active part in the scientific dialogues with the Institute's other fellows and permanent staff. Applications should include: 1. a curriculum vitae, in which the applicant's date and place of birth, nationality, marital status, school and university degrees, knowledge of the German language, professional and teaching experience are mentioned; 2. copies of his/her university transcripts; 3. a brief description of the proposed research topic with working plan and schedule for the intended sojourn at the Institute; 4. the names and addresses of at least two scholars qualified to judge the merits of the research proposal, to be contacted by the Institute; 5. a list of publications. The size of the fellowships is set in accordance with the guidelines established by the Deutscher Akademischer Austauschdienst (DAAD – German Academic Exchange Service). The monthly grant amounts to 754 after completion of a course of study and 920 after two years of scientific activity. A health insurance subsidy is also granted; a contribution to travelling expenses and a family subsidy can be granted. The Institute's building, the Domus Universitatis in the city centre, has a residential section with individual rooms, which serve both as work areas and living quarters for the fellows. The rent includes all additional costs and amounts at present to 146 monthly. Information on the Institute and its fellowships can be retrieved from the Institute's homepage on the Internet (<http://www.inst-euro-history.uni-mainz.de>), an information leaflet can be sent on request. Please contact us if you need further information, and send your application to Professor Dr. Heinz Duchhardt, Institut fuer Europaeische Geschichte, Abteilung Universalgeschichte, Alte Universitaetsstr. 19, D-55116 Mainz

**The National Humanities Center** offers 40 residential fellowships for advanced study. Applicants must hold doctorate or have equivalent scholarly credentials, and a record of publication is expected. Both senior and younger scholars are eligible for fellowships, but the latter should be engaged in research other than the revision of a doctoral dissertation. Fellowships are for the academic year (September through May). Scholars from any nation and humanistically inclined individuals from the natural and social sciences, the arts, the professions, and public life, as well as from all fields of the humanities, are eligible. **Areas of Special Interest.** Most of

the Center's fellowships are unrestricted. The following designated awards, however, are available for the academic year 2003-04: three fellowships for scholars in any humanistic field whose research concerns religion or theology; a fellowship in art history or visual culture; a fellowship for French history or culture; a fellowship in Asian Studies. **Stipends.** Fellowships up to \$50,000 are individually determined, the amount depending upon the needs of the Fellow and the Center's ability to meet them. The Center provides travel expenses for Fellows and their dependents to and from North Carolina. **Facilities and Services.** Located in the Research Triangle Park of North Carolina, near Chapel Hill, Durham, and Raleigh, the Center provides an environment for individual research and the exchange of ideas among scholars. Its facilities include private studies for Fellows, conference rooms, a central commons for dining, lounges, reading areas, a reference library, and a Fellows' workroom with microfilm reader, laser printers, scanners, fax machine, access to electronic catalogues, e-mail, and the World Wide Web. The library staff orders and delivers books and research materials for Fellows. The Center's staff also provides editorial and software assistance and support for information technology. The Center locates suitable housing for Fellows in the neighboring communities. **Support.** Fellowships are supported by the Center's endowment, by private foundation grants, and by the National Endowment for the Humanities. **Deadline and Application Procedures.** Applicants submit the Center's form supported by a *curriculum vitae*, a 1000-word project proposal, and three letters of recommendation. You may request application material from Fellowship Program, National Humanities Center, Post Office Box 12256, Research Triangle Park, North Carolina 27709-2256, or obtain the form and instructions from the Center's website. Applications and letters of recommendation must be postmarked by **October 15, 2002.** Web site: <http://www.nhc.rtp.nc.us> Email: [nhc@ga.unc.edu](mailto:nhc@ga.unc.edu) The National Humanities Center does not discriminate on the basis of race, color, sex, religion, national or ethnic origin, handicap, sexual orientation, or age.

### DISSERTATIONS COMPLETED

**Betsy Hunter Bradley** completed her dissertation, "*Maintenance Matters: Building Maintenance as Culture and Practice*," at Case Western Reserve University, Spring 2002.

**Gregory J. Galer** completed his dissertation, "*Forging Ahead: The Ames Family of Easton, Massachusetts and Two Centuries of Industrial Enterprise, 1635-1861*" at MIT's Program in Science, Technology, and Society this past fall for a February 2002 degree.

**Susan Schmidt Horning**, "*Chasing Sound: The Culture and Technology of Recording Studios in America*" (Case Western Reserve University, May, 2002).

### Brent Dibner Named Chairman of the Dibner Institute for the History of Science and Technology

David Dibner announces with pleasure that the Dibner Fund has named his son, Brent Dibner, as his successor to the chairmanship of the Dibner Institute for the History of Science and Technology, effective immediately. The Dibner Institute, an independent institution located on the campus of the Massachusetts Institute of Technology, is a decade-old internationally recognized center for advanced research in the history of science and technology. With well-established programs including senior, post doctoral and graduate resident fellowships, the Institute also provides weekly colloquia, conferences and workshops, as well as two publications series and a growing sponsored research component.

The Dibner Institute enjoys an established linkage with the academic life of MIT, which is reinforced by its director holding the Bern Dibner Chair in the History of Science and Technology at MIT. In addition, Harvard University and Boston University join MIT in a scholarly consortium participating in the programs of the Dibner Institute. Representatives of all three universities, along with the Dibner Fund and certain outside members constitute the governing board of the Dibner Institute.

Brent Dibner, who is 50, is a Vice President of Mercer Management Consulting, a global general management consulting firm, where he has directed its consulting services to companies engaged in global bulk shipping and logistics of energy and raw materials since joining the firm in 1977. For the last decade he has served as vice-president and trustee of the Dibner Fund as well as a trustee of the Dibner Institute for the History of Science and Technology. His involvement with the history of science and technology began in grade school when he catalogued and preserved books and manuscripts for his grandfather at the Burndy Library, then in Norwalk, CT and now co-located at the Dibner Institute. He was a practicing engineer designing both commercial and naval ships in the early 1970's. Since 1995 he has been president of a National Historic Landmark tugboat that pioneered diesel-electric technology and since 1992 has edited a quarterly maritime historic journal. He earned a B.S.E in naval architecture and marine engineering from the University of Michigan and a Masters

degree in business administration from the Harvard Business School.

With this announcement, David Dibner becomes chairman emeritus and trustee of the Dibner Institute.

The Dibner Institute is supported by the Dibner Fund, a private foundation in Connecticut. The Fund, established in 1959 by Bern Dibner, has long underwritten programs in the history of science and technology, a field of study that was of particular interest to him. Since 1988 David Dibner, his son, has chaired the Dibner Fund and became chairman of the Dibner Institute when it was established by him and his wife, Frances K. Dibner, in 1991. David Dibner will continue as chairman of the Dibner Fund, whose mission has expanded over the years to include programs in science education, humanitarian aid, the preservation of water resources, peaceful coexistence and Jewish heritage and culture in addition to its on-going commitment to the history of science and technology.

### RLG

SHOT members have access to the Research Libraries Group History of Science and Technology on-line database. The SHOT account information is as follows: login **y6.g67**; password **davinci** (both the login and password are case sensitive).

### 2002 SHOT ELECTIONS

The 2002 ballot is located in this newsletter. For the first time, SHOT is offering on-line balloting through the shot web site ([www.shot.jhu.edu/elections.htm](http://www.shot.jhu.edu/elections.htm)). There are links to the on-line ballot on the Annual Meeting page, the site map and the web version of our newsletter. You must enter your membership number when voting on-line. 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 this newsletter.

SHOT's officers and elected committees are currently composed as shown below. The names with an \* are completing their terms this year.

**Officers:** \*Daryl Hafter, President. David Hounshell, Vice President and President-Elect. \*Stuart W. Leslie, Secretary. \*Richard Hirsch, Treasurer.

**Executive Council:** \*Colin Divall, \*Pamela Laird, \*Pamela O. Long, David E. Nye, Gabrielle Hecht, Johan Schot, Lindy Biggs, Steve Usselman, Art Molella.

**Advisory Council:** \*Maxine Berg, \*Jeffrey Meikle, \*Virginia Scharff, Francesca Bray, Loren Graham, Donald MacKenzie, Arne Kaijser, Robert Kanigel, David Rhees, Martin Reuss, Howard Segal, Bruce Sinclair, Lucy Taksa, David Gugerli, Peter Redfield.

**Editorial Committee:** Robert Friedel, \*Jeffrey Stine, Ellen Koch, Jonathan Coopersmith, Emily Thompson.

**Nominating Committee:** Amy Slaton, \*Amy Bix, \*Ruth Oldenzel, Paul N. Edwards, Arwen P. Mohun.

**2002 Slate** The Nominating Committee has put forward the following names as candidates for SHOT's elected positions:

#### Vice President/President-Elect.

This is the first year that SHOT is having a contested election for the office of Vice President/President-Elect. Both candidates have prepared statements in lieu of the usual biographies.

#### Steve Cutcliffe

"Envisioning SHOT"

Leo Marx, in his April 1991 *T&C* review of *In Context*, the 1989 collection of essays honoring Mel Kranzberg that Bob Post and I co-edited, asked, in effect, "Why the history of technology?" Perhaps implicitly he was also asking why SHOT? By this question, or more precisely a set of related questions, he meant to challenge the justification for a special field of history of technology "segregated" from the broader "societies and cultures that shape it." He was not challenging the need for historians of technology, but rather suggesting instead an approach to history that views technology as "the truly distinctive feature of modernity?" (*T&C* April 2001, p. 407), a theme that all historians ought to pursue. In the succeeding decade I have thought a lot about that question, one that I took to be very serious and for which the answer was perhaps not self-evident. In the weeks since the Nominating Committee asked me to stand for election for the Vice-Presidency of SHOT, I have had occasion to consider the question anew.

Part of the answer lies in that book's title itself, the notion that technology by its very nature is "contextual" and can only be fully understood in that way. Such a view informed the creation of SHOT as an organization and defines the concerns of our organization and journal today—that is, "not only the history of technological devices and processes but also...the relations of

technology to politics, economics, labor, business, the environment, public policy, science, and the arts.” Indeed, this was the thrust of Mel’s response to Leo Marx’s critique. I view the history of technology as an integral part of the larger, more interdisciplinary Science, Technology, and Society Studies (STS) field. In a more recent book, *Ideas, Machines and Values* (2000), I suggested the history of technology has much to offer contemporary society by way of narratives describing “how we got to where we are today technologically, including the societally constructed, contingent, and contextualized nature of technology. It may also suggest questions regarding technology that we might otherwise forget to ask without historical perspective” (p. 109). If it is true, as Tom Hughes put it in the opening paragraph of *American Genesis* (1989), and I believe he is essentially correct, that we are dealing with “the world as artifact,” then I also agree with his reviewer, Elting Morison, who suggests “we have some more things to learn before we make the world a safe and satisfying artifact” *T&C* (1991), 130. To that end SHOT has a crucial role to play, not only in the scholarly community of historians, but also in the broader socio-political context of shaping and controlling technology by providing instructive stories and relevant answers to such questions. As I noted in *Ideas, Machines, and Values* with regard to the broader STS community, of which I view SHOT to be an integral part, that as a field and as an organization we provide not only an analytical framework but also a locus of debate regarding our artifactual world, past and present.

As the institutional locus for the history of technology, and by extension as an important nodal point for the broader STS community as well, SHOT has grown tremendously since my first meeting in 1977 hosted by the Smithsonian Institution. At that meeting approximately 200 attendees heard sessions on topics ranging from the “Numerical Control of Machine Tools” to “Medieval and Renaissance...Craft Skills,” but also on broader societal themes such as “Art and Technology” and the one that initially attracted me—“Emerging Pedagogical Approaches: The Technology Studies Programs.” Since that time SHOT has expanded its radar screen to recognize fields as diverse as business history and environmental history as they relate to technological change, and we have broadened our appeal to include more attention to themes such as race, class, and gender. Now our annual meeting attracts something on the order of twice as many attendees, large numbers of whom are women and international scholars. So, we have reached out in more inclusive ways, which is good; however, there is still much that can be done in this regard. For example, I believe we can benefit from hearing the voices of additional members from underrepresented minorities. I also think we should

attempt to sponsor sessions in other related areas at our meetings, a goal toward which I would like to work.

My first impression of SHOT in 1977 was certainly colored positively by the Bicentennial Exhibit in the Arts and Industries Building with its operating steam engines and the steam calliope, and a food and drink reception that has been hardly equaled since. However, even more important was the welcoming openness of long-time members who readily accepted a then rank newcomer into the fold. Very shortly thereafter I found myself invited to serve on what became the first of many SHOT committee assignments. I believe an important hallmark of SHOT is our openness and receptivity to new members and new ideas. As we have expanded to include new special interest groups, ever larger numbers of graduate students, and more international scholars, SHOT has become more regularized. Fortunately, I don’t think we have lost sight of those special traits that have made our organization as welcoming as it is and to which we can justifiably point with pride. In fact, it is that sense of community to which so many of us positively respond—80% according to the member survey on which Bill Leslie reported in the January *SHOT Newsletter*. To those ends we have added events such as the annual graduate student breakfast, expanded our travel support through the gracious gifts of members such as Hugh Aitken and the Dibner family, and established scholarship support under the auspices of the Kranzberg Dissertation and the Hindle Postdoc Fellowships to name but three areas. As these kinds of formal programs have evolved they have necessitated the need to regularize their funding, a goal toward which I am committed to furthering. As well, however, I would hope we might never lose that supportive personal camaraderie among members, new and old, that we so often find in hallway conversation, to say nothing of our hospitality suite.

As our scholarship (another key area noted in the recent members’ survey) has expanded in scope and importance, and as the routine work of running a growing professional society has grown, SHOT finds itself at a crucial juncture. No longer can the business of the Society be conducted in the course of a single evening prior to the start of sessions at our annual meeting as it was when I served two terms on the Executive Council in the mid-1980s to early 1990s. Currently the Officers and Executive Council meet biannually for a whole day. Of even more import, no longer can we expect that the work of the Secretary and that of the *T&C* Editor can be accomplished and supported on the basis of an individual member’s willingness in their spare time to do the required tasks with the good will, and modest financial support, of his or her department. SHOT has had the good fortune to grow substantially and to become recognized as the leading international society supporting and

promoting the history of technology, but with that growth has come the necessity to further regularize through endowment the financial basis of the society. Of utmost importance is the current campaign being coordinated by David Hounshell to endow the Editorship of *Technology and Culture*, but surely just as soon as that has been accomplished we will have to turn our attention to regularizing the Secretaryship. I am committed to working with David and the membership at large to assure that those campaigns are successful.

Beyond these key immediate needs, I would like to see SHOT continue to expand the breadth of its membership, and I would also like to see a larger percentage of members attending our annual meetings. I believe we can also extend and deepen our relationships with other allied fields and organizations, whether it be in the areas of environment and technology, social studies of science and technology, or the more technical and engineering fields, once a key component of SHOT membership. For example, we could probably do more than we currently are to propose sessions at the annual meetings of related science and technology studies organizations. I believe we should also be working harder within the broader historical community to explain our message of the central role of technology in society. Current work through the AHA pamphlet series coordinated by Bob Post and Pam Long and the technology-infused American history survey text edited by Roe Smith, Dan Kevles, and Pauline Maier are excellent first steps, but I envision that we can do more as individuals and as a society. I would also like to see a future where more individual SHOT members, even if the society cannot formally do so itself, respond to the research opportunities offered on a foundation-wide basis by the NSF. Consonant with my STS perspective, I believe we have much to offer by way of historical and contextual insight on contemporary science and technology projects. Finally, I am open to helping bring to fruition the visions of all members who have ideas of benefit to SHOT and to the field as a whole.

As a mark of our professional growth as a society, we are embarking upon a fresh attempt to introduce choice through contested elections for all SHOT offices. Surely there will be different approaches and perhaps differences in specific projects between my and Roz William's visions for the future of SHOT. In the end, however, based on our conversations, I know we both desire the best possible future for SHOT as an organization and in terms of what it can contribute to our broader culture. Thus, no matter the outcome of this particular vote, it would be my pleasure to work with her in seeing these mutually held visions realized.

### Rosalind H. Williams

I attended my first SHOT meeting in 1984, when MIT hosted the event and I was asked to comment on a session. I had never attended a scholarly meeting—I was a part-time lecturer in MIT's Writing Program, trying to juggle job and kids—but the threshold was low (no travel, no need to prepare a full paper), so I agreed. The event was a revelation of what a scholarly community can be. When the session was over, people stayed around to chat, at length and in depth. They made me feel welcome despite my lowly rank on the academic ladder. As I drove home from the session, I distinctly remember thinking that I had found my organizational home.

SHOT's highest priority should be on maintaining this experience of community, especially for the relatively young and marginal. As historians of technology, we particularly need a scholarly home, because so much of the time we find ourselves on the margins of other professional worlds. We often interact with engineers, technoscientists, and technology-oriented students, trying to get them to deepen their appreciation of how the historical world works. We also work with humanists and social scientists, trying to deepen their appreciation of the built world. It can get lonely riding the fences. As historians of technology, we share this experience, and we value the collegiality of others who understand what it is like.

My views about SHOT's agenda, then, are basically conservative: conserving what has been so valuable about the organization over the years, as it has provided mutual support for us as a community of scholars, teachers, and citizens. Continuing a mission, however, does not mean continuing to do the same things. For example, the change to contested elections for almost all SHOT offices is intended to keep the society open and flexible, at a time when the organization has grown in size and complexity. Steve Cutcliffe and I have discussed our mutual wish to make sure the new procedures uphold SHOT's well-deserved reputation for civility and collegiality. We would both like to find a way to work together for SHOT, whatever the outcome of this vote.

In other ways, too, conserving what is best about SHOT requires change. The core activities of the society keep getting more expensive, as economic and social pressures affect SHOT along with the rest of the world. For example, the cost of organizational outreach rises as our geographical reach extends beyond the North Atlantic, as we try to bring more people from more distant places to meetings and to hold meetings in more distant locales. To cite another example, the campaign to endow the editorship of *Technology and Culture*

is motivated in part by concern that institutions that have supported editing of the journal in the past may not continue to provide such support in the future. SHOT may also have to find new ways to support the position of the society's secretary in a time of mounting demands on that position and of possibly diminishing institutional support for it.

One of the best things worth conserving in SHOT is the committee system, which depends upon generous contributions of time and energy from members. I have served on and chaired a range of SHOT committees (Dexter Prize, Editorial, and now Finance) and have also served on the Executive Council. I remain impressed by how well the system works. The SHOT committee system needs ongoing maintenance and adjustment, but the basic principles—that committees involve volunteer service of time and energy, which is both an honor and a burden; that the way to get good ideas is to get many ideas out on the table; and that discussion and compromise among people of good will tend toward consensus—have worked well and should continue to work well.

It will be a challenge, however, to maintain the disinterested volunteer ethos at a time when other demands on personal and professional time keep increasing. It will also be a challenge for SHOT to develop the necessary level of managerial sophistication as we handle more complex resources and demands on those resources. When I served in the MIT administration for five years (as Dean of Undergraduate Education and Student Affairs), I needed to learn a lot of management skills on the job while not losing the perspective of a faculty member. Similarly, our society needs adequate professionalism to manage our resources wisely without losing the amateurism which, in the best and classic sense of the word, has made us a participatory democracy.

A conservative philosophy is necessary, but not adequate, to keeping SHOT vital as we approach our fiftieth anniversary. In that half century, "technology" has come to be widely considered as not only an element of the modern age, but as its defining characteristic. SHOT has not really come to terms with this situation, in which we are no longer a specialized niche in the historical profession, but, if anything, the closest approximation there is to general historians for our time. (I have written about this at more length in an article in the October 2000 issue of *Technology and Culture*, "'All That Is Solid Melts into Air': Historians of Technology in the Information Revolution.")

Some SHOT members have expressed concern that historians of technology fail to reach a broad audience and are not listened to in the larger world. I would turn this around to suggest that we need to do more listening to the larger world.

We have something to say, of course, but we also have a lot to learn. We need to listen to the questions that people are asking about technology; to their understandings of that complex, elusive, and contested term "technology"; and to the passions with which they engage with technology.

Bruno Latour has said that in today's world politics should be as defined "the progressive composition of a common world." I do not believe that SHOT, as an organization, should become political in the sense of taking policy positions except for compelling reasons that directly affect us as a society. But SHOT could assume more of a leadership role in facilitating public discussion of the many events of our time that are at once historical and technological, and that may be clarified with reference to historical analogies and perspectives. Along with others in STS studies, we can serve as "diplomats" (Latour's language, again), for our expertise is precisely in connecting communities that do not usually talk with each other. We know how to appraise a technological system with awareness of the many actors involved, and we can get people talking with each other in the common cause of constructing a common world—which today means a built world of complicated reflexivity.

Because our annual meeting last fall took place so soon after September 11, we did not have the time to reorganize the event to give us an opportunity to share our thoughts and feelings—even though the events of September 11 are clearly fraught with implications for anyone who thinks about the history of technologies. During the winter months, I worked with a colleague, Miriam Levin (Case Western Reserve) and with Bruce Seely (NSF) to organize an NSF-sponsored workshop on the topic "Rethinking Technology after September 11." At the annual meeting in Toronto some of us involved with that workshop have organized an opening plenary session on the same topic: this edition of the SHOT Newsletter poses some questions for collective consideration.

In other ways, too, SHOT can do more to connect our scholarly world with the larger world of discussion about "technology." We have sound experience in organizational outreach. Among such organizations, SHOT has been exemplary in encouraging discussions of pedagogical ideas and projects involving a broad range of learners. SHOT also has a long record of reaching beyond its North American base to develop strong transatlantic connections. Now we need to undertake the more daunting but necessary task of reaching out to scholars beyond Europe, developing in time (and it will take some time) a truly global embrace.

Finally, SHOT has a strong record of holding joint meetings with other organizations and of sending delegates to other societal meetings. We need to continue to do this but also to



invite a wider range of participants to our meetings—scholars, teachers, and technology-oriented professionals of all types, a category that now includes many more than engineers. For example, SHOT has always extended a special welcome to museum-based professionals; in the future, we could be similarly welcoming to technology journalists, who are rapidly becoming a group as large and significant as science journalists.

In all these ways, SHOT can become more of a “network society,” linked loosely but effectively with a host of other groups and enterprises. Organizations can thrive on a certain degree of internal tension. The balance we seek is between maintaining our unique scholarly identity and community, which we need for personal and intellectual support, without becoming too self-enclosed. If we are able to keep this balance, we will continue to contribute to the goal stated so well by Elting Morison: “creating a technological world we can live in.”

#### Treasurer

**Richard Hirsch**, Professor, Department of History and Program in Science and Technology Studies, Virginia Tech. Ph.D., History of Science University of Wisconsin-Madison, 1979; M.S., Physics, University of Wisconsin-Madison, 1980. SHOT Activities: IEEE Life Members' Prize in Electrical History, Member, 1996; Finance Committee, Member, 1990-91, 1993-4, Chair, 1991-93 (major accomplishment: drafting an investment plan for SHOT); Sites Committee, Member, 1987-89, Chair, 1989-90; Robinson Prize Committee, Member, 1985-86, Chair, 1987; Member, Awards Committee, 1986, 1987; Treasurer 2001-2002

#### Secretary

**Bill Leslie** has served as SHOT Secretary since January 2000. He teaches the history of science and technology at the Johns Hopkins University. He is the author of a biography of automotive engineer Charles Kettering, a study of American science and engineering education during the Cold War, and is currently writing chapters in the industrial history of the Lehigh Valley. His most recent articles include “Regional Disadvantage: Replicating Silicon Valley in New York's Capital Region” *T&C* (April 2002); “Industrial Versailles: Eero Saarinen's Corporate Campuses for GM, IBM and AT&T”, *Isis* (March 2001) and “Blue Collar Science: Bringing the Transistor to Life in the Lehigh Valley” *Historical Studies in the Physical Sciences* (2001). His main goals for the year ahead are moving forward with the Campaign for SHOT, improving our electronic visibility, maintaining the excellence of our annual meeting, and getting the Newsletter out on time.

#### Executive Council

There are three opening on the Executive Council. This is a three-year term.

**John K. (Jack) Brown** teaches the history of technology (among other subjects) at the University of Virginia, where he received his Ph.D. in 1992. His written work includes: *The Baldwin Locomotive Works, 1831-1915: A Study in American Industrial Practice* (Baltimore, 1995), and “Design Plans, Working Drawings, National Styles: Engineering Practice in Great Britain and the United States, 1775 – 1945”, *Technology and Culture*, April 2000, (Usher Prize winner). He has served SHOT on its Travel Grants Committee (1997-99), Program Committee (2000-02), and *T&C* Advisory Board (2002 - present). Platform: Considering SHOT's future, I suggest three priorities. We need to continue fundraising in the Campaign for SHOT to maintain the viability and quality of *Technology and Culture*. Trying to promote employment in the field, we should increase outreach activities that raise our discipline's visibility among traditional or potential employers: including engineering schools, management programs, and traditional history departments. I would also like SHOT to promote public outreach efforts by the membership; we can advance our profession in significant ways by meeting and advancing the broad lay interest in technological history.

**Joy Parr**: I'm a member of the Humanities Department at Simon Fraser University, with a research expertise in textile and woodworking technologies, the mass production of consumer durables and national cultures of manufacture and consumption. My current work is a history of hydro and nuclear power generations projects, their neighbours and the physical and sensory transformations they have effected. Since 1992 I've been an active member of the Science and Society group at Green College at the University of British Columbia, and currently serve on the principal Canadian jury funding Health Studies in the social sciences. My service to SHOT has been as an advisory editor to *Technology and Culture*, member and chair of the Usher Prize committee and perforce of the de Vinci prize committee. I'm former winner of the Usher Prize. I value international comparative studies and work regularly outside my own country. I have been a Swedish Institute fellow at Uppsala, a Bunting Fellow at Radcliffe, and a visiting fellow at All Souls College, Oxford. In 1999 I was King Chair in Canadian Studies at Harvard. SHOT has been most important to me for its camaraderie between technologists, engineers and social students of technology, and for its easy crossing of multiple borders. The immediate priority for the Society must be the Campaign to endow the editorship of the journal. Our conferences are exemplary sites for mentoring, but the passing on of skill from generation to generation happens especially through the journal. We all tithe

our bit to this work as referees, but without someone with the rested time to work with new scholars and older scholars taking risks with new fields, our Society would be much impoverished. Without an editorial endowment, we hazard this work. My additional most focussed concern would be, and is, to keep the international communications within the Society lively, substantive and broadly infused. My monographs are *Labouring Children* (1980 and 1993), *The Gender of Breadwinners* (1990) and *Domestic Goods* (1999). The new work is called *Places of Power*. I have a web site, [http://www.sfu.ca/joy\\_parr](http://www.sfu.ca/joy_parr).

**Eric Schatzberg**, Associate Professor, Department of the History of Science, University of Wisconsin-Madison. Ph.D. University of Pennsylvania, 1990. Major publications: *Wings of Wood*, *Wings of Metal: Culture and Technical Choice in American Airplane Materials, 1914-1945* (Princeton University Press, 1999). Current research: critiques of technology since World War II. I have been active in SHOT since I began graduate school in 1983. I've served on the Robinson Prize, the Nominations, and the Usher Prize committees. I would like to encourage SHOT to become a more effective public voice for the history of technology. SHOT could serve as a clearing house to connect our members with journalists, documentary filmmakers, museum curators, government agencies and others seeking specific advice about the history of technology. As a member of the Executive Council, I would also encourage SHOT to attend to the needs of its members outside higher education, including those working as government historians, museum curators and independent scholars. Finally, SHOT should continue to reach out to other professional organizations that ought to pay more attention to history of technology. SHOT could, for example, sponsor a workshop with the American Society for Engineering Education on the use of history of technology in the engineering curriculum.

**Arne Kaijser** I am a professor of History of Technology at the Department of History of Science and Technology, Royal Institute of Technology (succeeding Svante Lindqvist.) I have a M.Sc.Eng and a B.A from the University of Lund and a Ph.D. in technology and social change from the University of Linköping. Apart from my academic career, I have worked seven years as civil servant with energy policy and development aid in various government agencies. I was research fellow at the Technical University of Delft in 1993-1994 and a Senior Research Fellow at the Dibner Institute at MIT in 2002. My main research interest is the historical development of large technical systems. I have published five books and more than 30 articles, many of which are in Swedish (see my home

page: [www.indek.kth.se/tekhist/people/arne](http://www.indek.kth.se/tekhist/people/arne)). If I were elected to the Executive council I would particularly want to stimulate an increasing European involvement in SHOT, and contribute to an expanding cooperation across the Atlantic.

**Joyce Bedi** I began my career in technology museums in 1976 and have held research and curatorial positions at the MIT Museum, the Center for the History of Electrical Engineering, the Edison National Historic Site, and the Museum of Applied Arts and Sciences (now the Powerhouse Museum), in Sydney, Australia. In 1995, I was appointed historian at the newly-created Lemelson Center for the Study of Invention and Innovation at the National Museum of American History, Smithsonian Institution. I joined SHOT in 1982 and have served as the editor of *Artifactory*, the Technology Museums Special Interest Group (TEMSIG) newsletter, from 1984-1992; chaired TEMSIG from 1990-1993; chaired the selection committee for the Dibner Award from 1987 through 1992; and served on the SHOT Advisory Committee from 1990-1995. SHOT's membership of academics, museum professionals, independent scholars, and graduate students puts the society in a unique position to guide the study and presentation of the history of technology on many fronts. I believe SHOT needs to assume a more public role to fulfill this potential. As a member of the Executive Council, I would foster increased interaction and collaboration among my colleagues within and outside the academy, with the goal of making SHOT the recognized authority in the field, from museum exhibits, public programs and school curricula to popular and scholarly books. SHOT must be proactive to accomplish this. For example, we could coordinate a variety of interdisciplinary programs, such as keynote addresses at annual meetings by leading figures in today's technological fields; SHOT sponsored workshops with historians and educators; collecting efforts to preserve the archival and artifact record of the history of technology; and increased participation of SHOT members on exhibit development teams. In these and other ways, the society can increase its visibility outside the scholarly community.

**Janet Abbate** is a Faculty Research Scholar in the history department at the University of Maryland, College Park. She holds a B.A. from Harvard-Radcliffe and a Ph.D. in American Civilization from the University of Pennsylvania, where she was awarded a Tomash Graduate Fellowship from the Charles Babbage Institute to support her doctoral dissertation on the history of the Internet. Her book *Inventing the Internet* (MIT Press, 1999) received the Communication Policy Research Award from the McGannon Communication Research Center. Recent publications include "Government, Business, and

the Making of the Internet" (*Business History Review*, 2001); "The Hidden Lives of Standards" (with Amy Slaton, in Gabrielle Hecht and Michael Allen, eds., *Technologies of Power*, MIT Press, 2001); and "Cold War and White Heat: The Origins and Meanings of Packet Switching" (in Donald MacKenzie and Judy Wajcman, eds., *The Social Shaping of Technology*, Open University Press, 1999). Abbate was a Research Associate with the Information Infrastructure Project at the Kennedy School of Government at Harvard, where she co-edited (with Brian Kahin) the volume *Standards Policy for Information Infrastructure* (MIT Press, 1995). She held a postdoctoral fellowship at the IEEE History Center at Rutgers University before joining the history department at Maryland. In 2000 she was awarded a grant from the National Research Council's Program on Governance in Post-Communist Societies to study the introduction of the Internet to the Baltic republic of Estonia. Abbate is currently working on a history of women in computing, sponsored by a grant from the National Science Foundation, which will compare the experiences of female computer scientists and programmers in the United States and Great Britain from WWII to the 1980s. During the 2002-2003 academic year she will be a Senior Fellow at the Smithsonian Institution, where she will conduct archival research for this project, and in 2003 she will guest edit a special issue of the *Annals of the History of Computing* devoted to the history of women in computing. Abbate is currently serving on the editorial board for *Technology and Culture* and the SHOT Robinson Prize Committee, which she chaired in 2001.

"What I would like to do for SHOT: One of the biggest challenges facing SHOT is the continuing dearth of academic jobs, which has forced many scholars of my generation to find work outside academia. Much more can be done to prepare all of our students for the realities of the job market and to prevent scholars working in nonacademic settings from being marginalized. For example, graduate curricula could be revised to include internships in nonacademic settings, giving students valuable experience and connections that would expand their job options. Scholars working outside the university could be encouraged to continue their research and teaching through mid-career fellowships and visiting professorships. Fully funding the *Technology and Culture* editorship should make it possible for the first time for independent scholars to be considered for that position, and we should make it our goal to fill all such positions based on merit rather than institutional affiliation. While there are no easy answers, the executive committee can show its commitment to the future of the discipline and its diverse membership by initiating discussions of possible solutions and by encouraging experiments that broaden students' preparation or strengthen links with researchers outside academia."

### Nominating Committee

There are two openings on the Nominating Committee. This is a three-year term.

**David L. Morton**, Ph.D., is a Research Historian with the IEEE History Center at Rutgers University. He is the author of *Off the Record: The Technology and Culture of Sound Recording in America* (Rutgers Press, 2000) and numerous articles in scholarly and non-scholarly journals. His current research interest is technology and systems of belief. Morton is active as a public historian, and is currently co-producing a children's web site on the history of electrical and computing technologies. Platform: SHOT historians are uniquely distinguished as scholars, but need to assume a more prominent role in society. News reports and policy decisions emerging from the past year's events have reinforced my belief that SHOT members are an underutilized resource. We should actively engage public discussions of issues and provide perspective and expertise to a broader range of policy makers, journalists, and members of the public. I will work to ensure that candidates nominated for the Executive Council, the Advisory Council, and other offices are committed both to academic pursuits and public history.

**Deborah G. Douglas** is the Curator of Science and Technology at the MIT Museum. She has also held positions at the National Air and Space Museum, the NASA Langley Research Center, the Chemical Heritage Foundation and taught as an adjunct assistant professor at Old Dominion University. She received the PhD from the University of Pennsylvania in 1996. Her most recent project has been *Mind and Hand: The Making of MIT Scientists and Engineers*, an exhibition on the history of science and engineering education. She is the author of *United States Women in Aviation, 1940-1985* and is working on two book-length projects on aeronautical engineering and airports. For SHOT, she is a member of the Dibner Prize Committee, the deputy chair of the Albatrosses and has served on the WITH Executive Board and edited the WITH newsletter. She is also a member of the history committees of the American Institute of Aeronautics and Astronautics and the Transportation Research Board of the National Research Council. "SHOT is in a period of significant transition. The discipline is changing; the membership is changing. We are growing and with this growth comes many challenges. The Nominating Committee must seek candidates accordingly: We need the experience and wisdom of those who can address the political and economic complexities of mid-sized professional society. We need the insights of those who want to strengthen the professional identity and maintain standards of scholarly rigor. We need to include individuals skilled at stimulating

public discourse on the history of technology. We need to encourage scholarship by and about minorities. We need to integrate many more non-U.S. voices. SHOT needs more than mere diversity, however, as community remains the paramount objective. Keeping this in mind, my particular goal would be to invite greater participation among public historians and others outside academia with a serious interest in our field.

**Hans Weinberger** has a research position at the Department for the History of technology at the Royal Institute of Technology in Stockholm. He is currently running a project on Swedish neutrality during the cold war and Swedish military cooperation with NATO and NATO countries. He has written a history of Swedish research and development policy and a biography of the physicist Rolf Sievert. He is involved in the project *Tensions of Europe: The making of 20th Century Europe*. He would like to see a continued internationalization of SHOT and more historians of technology trying to write synthetic, broad history.

**Angela Lakwete** has considered SHOT my professional association since 1990 when I began pursuing a PhD in the history of technology in the Hagley Program. I had spent the previous twenty years working as a textiles conservator, ten of them at the Metropolitan Museum of Art. SHOT's eclectic membership and its vision of history and technology's place in it conceptually welcomed me. I received the PhD in 1996 after finishing a dissertation on the cotton gin under the direction of George Basalla. Johns Hopkins University Press, History of Technology Series, will publish the revision as *Antebellum Constructions: The Cotton Gin in America*. The book situates the gin in a global framework of commodity production and exchange as it examines the artifact and its makers as emblematic of southern industrialism. It reflects my lifelong interest in textile history, which is global history, and a relatively new interest in the South. I use all of it in the Technology and Civilization and United States History sequences I teach at Auburn University where I have been on faculty since 1999. I also teach a graduate seminar in southern industrialization to 1865.

Apart from a stint on the Dibner Committee, which was tremendously satisfying if not outright fun, I have been a bystander in the SHOT organization. I was asked to run for the Nominating Committee and I accepted the challenge. The challenge, as I see it, is to insure that SHOT exceeds its expectations by ferreting out candidates who will enrich the organization and keep it moving forward intellectually and culturally. I believe I can contribute to that effort and learn from it as well. This March (2002) I was invited to participate in a workshop on "Race and/in the History of Technology" at MIT's Center for the Study of Diversity in Science, Technol-

ogy, and Medicine. It was intellectually rigorous and enlightening. In the end we agreed that we must understand the touchy topic as a pluralist not a binary issue and that we must interrogate it in the classroom, in our work, and in our organization. "Inclusive" would characterize the narratives we envisioned. It was a measure by which I judged Dibner prize applicants. It is already a SHOT goal, one that I would encourage as committee member.

### Editorial Committee

There are two openings on the Editorial Committee. This is a five-year term.

**Ronald Kline** (Cornell University) A member of SHOT since 1979, I have served on the Robinson Prize Committee and the Dexter Prize Committee, and have been an Advisory Editor of *Technology and Culture* since 1998. I was instrumental in establishing the IEEE Life Members Prize in Electrical History and, with Deborah Fitzgerald, the Sally Hacker prize for the best popular book in the history of technology. My publications include *Steinmetz: Engineer and Socialist* (1992) and *Consumers in the Country: Technology and Social Change in Rural America* (2000). As a member of the Editorial Committee of *T&C*, I would work closely with John Staudenmaier and the Advisory Editors in ensuring that a wide range of scholarly approaches to the history of technology continues to be represented in the journal. I would also emphasize the publication of special issues and sections on topics of current interest (such as information technology), methodological debates, and reviews of the state of the art in such areas as medieval technology, the industrial revolution in Britain, labor and technology, and gender and technology.

**David A. Mindell** is Dibner Associate Professor of the History of Engineering and Manufacturing at MIT. He is the author of *War, Technology, and Experience Aboard the USS Monitor* (2000) which won SHOT's Sally Hacker Prize, and *Between Human and Machine: Feedback, Control, and Computing Before Cybernetics* (2002). I believe that SHOT needs to move beyond contextual and social constructivist scholarship by incorporating their insights and taking a leadership position in how the scholarly world and the public discusses science and technology. Rather than defining success as how "mainstream" history incorporates the history of technology, historians of technology should be setting the agenda for other historians to follow. As part of the editorial committee, I aim to ensure that SHOT continues its tradition of high-quality scholarship, but that such work represents bold, original thinking that challenges the prevailing frameworks and assumptions.

### Advisory Committee

There are three openings on the Advisory Committee. This is a five-year term.

**James W. Cortada** is employed at IBM in its consulting business. He has been at IBM for 28 years. He is also an historian with a deep interest in the history of computing and its business uses. He holds a B.A. in history from Randolph-Macon College, and an M.A. and Ph.D. in history from Florida State University. He has published over two dozen books on the management and history of computing over the past twenty-five years. Some of his more recent books include, *Before the Computer* (Princeton University Press, 1992), *The Computer in the United States* (M.E. Sharpe, 1993), *Information Technology as Business History* (Greenwood, 1996), and edited with Alfred D. Chandler, *A Nation Transformed by Information* (Oxford University Press, 2000), and wrote, *Making the Information Society* (Prentice-Hall/Financial Times, 2002). He is currently writing a history of how computers were used in nearly two dozen American industries over the past half century. He also has served on the editorial boards of several journals, and is currently on the editorial board of the IEEE Annals of the History of Computing. Jim Cortada is also the Chairman of the Charles Babbage Foundation, which has as its mission to support the preservation, research, and interpretation of the history of information technology by supporting the work of the Charles Babbage Institute at the University of Minnesota. Jim Cortada is also a member of the American Historical Association, the Virginia Historical Society, and SHOT. Platform: "I have long held the belief that advisors and board members of associations, such as SHOT, must wear several hats at the same time: manager worrying about budgets and other money matters (including fund raising), serving the interests of all its members, and at the same time being a practitioner of what its members do. In my case being an historian of technology, and bringing to bear my experience as a manager and member of various boards and advisory councils has taught me the importance of an organization being inclusive in serving all its members. I also believe that as both the historian's profession begins changing with the use of new technologies, and as the field of the history of technology becomes broader and more important within the general field of history, that we at SHOT need to expand the scope of our services to our fellow members. I believe SHOT also has a very important role to play in helping other segments of the historical profession and other academic disciplines understand the history of technology."

**Nelly Oudshoorn**, educated as a biologist and a sociologist, is Professor at the Centre for Studies of Science, Technology and Society, University Twente in The Netherlands. Her

research interests and publications include the co-construction of gender and technologies, particularly medical technologies and information and communication technologies. She is the author of *Beyond the Natural Body. An Archeology of Sex Hormones* (Routledge 1994), *The Male Pill. Designing Technology and Masculinity* (forthcoming at Duke University Press), and co-editor of *Bodies of Technologies. Women's Involvement with Reproductive Medicine* (Ohio University Press 2000), and *How Users Matter. The Co-Construction of Users and Technologies* (forthcoming at MIT Press). Her current research focuses on patient organisations and the construction of new knowledge practices on the Internet.

**Richardson Dilworth** is an Assistant Professor of Politics at Drexel University. His general area of interest and expertise is American urban political development. His interest in technology centers on the development of urban infrastructure systems and their impact on municipal autonomy in American metropolitan regions. Richardson received his Ph.D. from Johns Hopkins University in 2001. His work has been published in *Public Works Management and Policy* and the *Journal of Housing and Community Development*.

### Electronic Election Ballot

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