

SECRETARY'S MESSAGE

What happens when you turn several hundred respectable historians of technology loose in a city world-famous for flash, cash, and non-stop-action? In a few months we're about to find out – and Vegas (not to mention SHOT) may never be the same.

If you need intellectual justification to come to **SHOT's annual meeting on October 12-15**, the terrific program put together by Jennifer Light (chair), Dan Holbrook, and Paul Ceruzzi will give you plenty. Since Vegas offers relatively affordable meeting space, we were able to expand the number of sessions this year, yielding a variety and wealth of presentations with something guaranteed to interest just about everyone. You can find our preliminary program inside this newsletter, with further updates and paper abstracts available on SHOT's website.

The multiple deep connections between technology and the city of Las Vegas itself make this location a natural for SHOT. Our local arrangements heads, Bill Leslie and Eric Nystrom, have organized a really exciting tour of Hoover Dam and the Boulder City Museum. As most of you know, since 9/11, security regulations have sharply curtailed entry to many parts of facilities such as Hoover Dam, but SHOT members will enjoy special hard-hat access. You'll be able to wow your history of tech classes by casually noting that the Hoover Dam contains enough concrete to pave a standard highway sixteen-feet wide running from New York City to San Francisco. I admit that you may have to stretch a little further to find an intellectual justification for visiting the Liberace Museum, but if you need an excuse, just search the web to find a photo of the building – that architecture alone could inspire an entire lecture on American popular culture. Another tour will visit the Vegas Neon Museum, featuring the spectacular huge signs

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SHOT Newsletter Editorial Policies, Advertising Rates, and Submission Deadlines

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

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

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

The SHOT logo was created by Brickworks of London

that helped define the urban look and cultural history of Vegas. See why Robert Venturi and Tom Wolfe found the semiotics of Las Vegas so fascinating.

We haven't finished laying our cards on the table, though – right inside our host hotel, you'll find one of the world's largest showplaces for antique, classic, muscle and special-interest automobiles, with a special room devoted just to a Duesenberg collection worth millions. It would be fabulous enough just to see this, but SHOT has arranged to hold our Thursday night opening reception right in the car collection. What auto buff could resist the chance to nibble on hors d'oeuvres and chat with SHOT friends while standing right in front of Marilyn Monroe's 1955 pink Lincoln Capri convertible or Czar Nicholas II's Rolls Royce?

To keep getting better, our Friday night reception will be located in the Atomic Testing Museum, documenting the history of the Nevada Test Site, American nuclear research, and the Cold War. Its unique artifacts, hands-on interactive exhibits, and multimedia displays include the "Ground Zero Theater," which simulates the observation of an above-ground nuclear blast and will literally leave you shaken. SHOT's program Friday night will feature a special evening panel session about "Challenges in Preserving and Interpreting Atomic History."

Of course, our meeting will offer much more – our annual awards banquet, the presidential address by Roz Williams, the book exhibit, and our meetings of Special Interest Groups and graduate students. In this newsletter and on our website, you'll find all the necessary registration information, hotel details and more. As for the information about Vegas, the problem is knowing where to start. The Imperial Palace doesn't contain any gondola rides like the Venetian hotel or the conservatory and fine art gallery of the Bellagio – but then, room prices at those extravaganzas don't exactly fit the standard academic travel budget. The Imperial Palace locates you close to the action at a manageable price, and you can put the money you save toward tickets for a Penn and Teller show, bungee jumping, or whatever other Vegas experience you want to escape your everyday routine.

Before you run off to make plans, though, let me note two important SHOT society matters. In this newsletter, you'll also find the ballot and other material for our annual SHOT elections – many thanks to all our candidates, plus our Nominating Committee members and especially chair Mats Fridlund. If you prefer electronic to paper, you can vote online through the SHOT website. Finally, also in this newsletter, you'll find a proposed Constitutional amendment to be discussed at the SHOT business meeting (open to all members), designed to improve and extend SHOT's international outreach programs. See you in Vegas!

Amy Sue Bix

Iowa State University

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

WELCOME TO LAS VEGAS

A Quick Guide to Las Vegas

SHOT's Annual Meeting will be held at the Imperial Palace, a smaller hotel/casino located in the center of the Strip. The IP is bounded by Harrah's to the north, the Flamingo to the south, and Caesar's Palace across the street. The Paris, Bally's Las Vegas, Bellagio, Venetian, Mirage, and Treasure Island (TI) are all nearby as well, within a ten to fifteen minute walk. The new Las Vegas Monorail's Imperial Palace/Harrah's station provides a convenient way to access the more distant reaches of the Strip.

Locals live and play in the rest of the city, which sprawls out in all directions from the tourist-based alternate universe of the Strip. That's not to say that the Strip is bad – far from it. The finest restaurants in Las Vegas (and, in some cases, in the world) are located on the Strip, as are world-class entertainment venues, top-notch shopping, hip nightclubs, fun amusement rides, and limitless opportunities for observing the human condition. The high-end stores

in the Bellagio and the Forum Shops at Caesars are truly remarkable, as are their customers. Thrill rides (think "amusement park," not "craps table") at New York-New York, the Sahara, and the Stratosphere are worth the time of any adrenaline junkie. The Eiffel Tower and the Stratosphere both provide expansive views of the Strip, and the Bellagio fountains are not to be missed. The Bellagio Gallery of Fine Art and the Guggenheim-Hermitage Museum at the Venetian both bring traditional fine art to the Strip, and the newly opened Wynn Las Vegas is loaded with fine art as well. Don't miss the motorcycles on display at the Harley-Davidson Cafe, the memorial to the victims of 9/11 near the Statue of Liberty outside the New York-New York, Madame Tussaud's Wax Museum at the Venetian, the headless statue of V.I. Lenin outside the Red Square vodka bar in the Mandalay Bay, and "The Drive" -- a new attraction behind the Sahara where you get to drive new GM vehicles at high speed over a performance test track.

There are plenty of attractions located off the Strip as well. Foremost among them is the Fremont Street Experience, a high-resolution canopy, billed as the largest TV screen in the world that stretches for five blocks over a pedestrian mall linking the downtown casinos. The screen plays a video light show hourly, and is free. The downtown casinos tend to attract a different crowd than the Strip resorts, and have an older, homier feel to them. The Hard Rock Hotel, located off the Strip near the airport, has become a Las Vegas icon; across the street is the Hofbrau House, the only location of this venerable beer hall outside of Munich. The University of Nevada, Las Vegas is located in that area as well. Las Vegas has several small museums in addition to those on the Strip, accessible if you have a rental car. For desert lovers, the Red Rock Canyon National Conservation Area offers hiking, biking, or drive-by viewing of a spectacularly colorful geological area, only a short drive from Las Vegas, and the Lake Mead National Recreation Area, formed by Hoover Dam, is a popular outdoor area as well. If you have an extra day and a rental car, consider making the six hour drive to Ely, Nevada, to see the Nevada Northern Railway, which is an extraordinarily well-preserved steam railroad, with original buildings, rolling stock, locomotives, and archival records. Check their website for information about train schedules and locomotive rentals. The tourism infrastructure of Las Vegas is enormous. In 2005, 38.5 million visitors

(including 6 million conventioners) spent over \$36 billion dollars in Las Vegas. Seventeen of the world's twenty largest hotels are located along the Strip, and there are over 130,000 hotel rooms in the Las Vegas market. The Imperial Palace has 2,635 rooms, making it relatively small by modern Strip standards. The casinos listed above as being within a ten-minute walk contain over 31,000 rooms, total. (In the morning, as you enjoy your coffee, pause to imagine 31,000 sets of sheets being changed within a half-mile radius of you.) The modern gigantist phase of Las Vegas resort architecture is less than 20 years old, having largely commenced with the opening of the Mirage in 1989. The earlier mob-dominated Las Vegas Strip of the 1950s and 1960s featured low, sprawling resorts with plenty of parking, oriented to automobile visitors. (The Strip itself was originally the long highway into Las Vegas from Los Angeles.)

Las Vegas was formed in 1905 by the railroad, which still runs through the area, and it remained a sleepy desert town until the beginning of construction on Hoover Dam in 1931, coincidentally the same year that Nevada legalized gambling. The economic activity generated by the dam's construction, and later by tourists flocking to see the new engineering wonder, kept Las Vegas relatively insulated from the effects of the Great Depression. In the early 1940s, additional significant federal investments in the area, in the form of an Army Air Force training base (now Nellis Air Force Base) and a huge magnesium production plant, Basic Magnesium, Inc., further bolstered the Las Vegas economy. 1941 also saw the construction of the first casino/resort on what became the Strip.

Eric Nystrom
Johns Hopkins University

SHOT BUSINESS MEETING

The SHOT Business Meeting will be held on Saturday, October 14 from 5:15-6:00 p.m. All members are invited to attend.

SHOT Website Annual Meeting Page

Our main SHOT website:

<http://www.historyoftechnology.org> has a button connecting to the SHOT annual meeting webpage: http://www.historyoftechnology.org/AnnualMeeting/Annual_Meeting_Main_Page.htm

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

REGISTRATION

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

Please mail your form to:

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

Or fax your form to:

515-294-6390

Please put "for SHOT" on your cover page.

The deadline for early registration is **September 8, 2006**. Presenters must submit their registrations by September 8 to guarantee their spot on the program.

The SHOT office will confirm your registration.

SHOT 2006 Annual Meeting Schedule Overview

Thursday, October 12:

SHOT Executive Council Meeting - 8:00 a.m.–5:00 p.m. (open to all members)

SHOT “Hard Hat Tour” of Hoover Dam and the Boulder City Museum – 9:00 a.m.–3:00 p.m.
(admission by ticket only - limited to the first 40 people to sign up)

SHOT tour of the Neon Museum – 2:00 p.m.–4:00 p.m. (admission by ticket only - limited to the first 24 people to sign up)

SHOT tour of the Liberace Museum - 2:00 p.m.–4:00 p.m. (admission by ticket only - limited to the first 24 people to sign up)

Tentative – 5:30-6:45 p.m.

SHOT Special Session - tentative

Topic and speakers TBA

Discussion: The audience

SHOT Presidential Address – 7:00 p.m.-8:00 p.m.
(open to all meeting attendees)

SHOT welcoming reception, Imperial Palace Automobile Collection – 8:00 p.m.–10:00 p.m.
(open to all meeting registrants)

Friday, October 13:

Breakfast meetings – 8:00–9:30 a.m.:

- Envirotech breakfast
- *Technology and Culture* Editor’s breakfast

SHOT paper sessions - 9:30-11:30 a.m.

Lunch meetings – 11:30 p.m.–1:00 p.m.:

- Computers, Information and Society lunch
- Military Technology SIG lunch
- WITH (Women in Technological History) lunch

SHOT early afternoon paper sessions - 1:00-2:45 p.m.

SHOT late afternoon paper sessions – 3:15-5:00 p.m.

SHOT reception and special session on “Challenges in Preserving and Interpreting Atomic History”- 7:00 p.m.-10:00 p.m. (admission by ticket only)

Saturday, October 14:

Breakfast meetings – 8:00-9:30 a.m.:

- Tensions of Europe breakfast
- Jovians/Mercurians breakfast
- Graduate Students and Current International Scholars breakfast (limited to the first 50 graduate students and current international scholars to sign up)

SHOT paper sessions - 9:30-11:30 a.m.

Lunch meetings 11:30 p.m.–1:00 p.m.:

- SIG on Strengthening Relations with the Engineering Community lunch
- TEMSIG (Technology Museums) lunch

SHOT early afternoon paper sessions - 1:00-2:45 p.m.

SHOT late afternoon paper sessions - 3:15-5:00 p.m.

SHOT business meeting - 5:15 p.m.-6:00 p.m.
(open to all members)

SHOT Awards Banquet - 7:00-10:00 (admission by ticket only)

SHOT Hospitality Suite: 10:00 p.m.–midnight

Sunday, October 15:

Breakfast meetings – 7:30-9:00 a.m.:

- Albatrosses breakfast

SHOT paper sessions - 9:00–10:45 a.m.

EVENTS HOSTED BY SHOT**SHOT Presidential Address:**

On Thursday, October 12 at 7:00 p.m., in the Imperial Palace hotel, SHOT president Rosalind Williams will deliver the SHOT Presidential Address. All meeting attendees are welcome.

SHOT Welcoming Reception:

On Thursday, October 12 at 8:00 p.m., following the Presidential Address, SHOT invites all meeting attendees to come to our welcoming reception. This reception will be held in the Imperial Palace hotel's famous Auto Collection, and attendees will have the opportunity to view the many cars on display. This reception is free for all SHOT meeting registrants, but please indicate your attendance on the conference registration form.

SHOT Reception and Special Session:

On Friday, October 13 at 7:00 p.m., at the Atomic Testing Museum, SHOT will host a reception and a special session on the topic, "Challenges in Preserving and Interpreting Atomic History." Attendees will have the opportunity to explore the Atomic Testing Museum's exhibits. You can find more information about the Atomic Testing Museum at <http://www.atomictestingmuseum.org/> SHOT will have buses running to take you between the Atomic Testing Museum and the Imperial Palace hotel. The cost for the special session and reception is \$5 for SHOT meeting registrants, and admission is by ticket only. If you are interested in attending, please sign up on the conference registration form.

Current Graduate Students and Current International Scholars Breakfast:

On Saturday, October 14 at 8:00 a.m., the SHOT officers will host their annual breakfast for currently-enrolled graduate students and current SHOT International Scholars. This breakfast will be in the conference hotel and will feature a deluxe continental breakfast. This event will offer graduate students and international scholars a chance to meet each other and talk with SHOT officers, to learn about SHOT

programs (including prizes and fellowships), and to find out more about SHOT's journal *Technology and Culture*. This breakfast is free for currently-enrolled graduate students and our current SHOT international scholars (please do not sign up if you do not fit these categories). Space is limited to the first fifty graduate students and International Scholars to sign up. You must register for this event in order to attend; please indicate your attendance on the conference registration form.

SHOT Awards Banquet:

On Saturday, October 14 at 7:00 p.m., SHOT invites you to attend the annual Awards Banquet, to be held in the ballroom of the conference hotel, the Imperial Palace Las Vegas. This is a wonderful opportunity to enjoy a relaxing evening with old and new friends, to show our appreciation to the SHOT community, and to honor the recipients of SHOT's annual prizes and fellowships. The banquet will feature a fabulous Vegas buffet, the Imperial Palace Italian Feast, including soup, salad, antipasto platters, pizza, and an incredible variety of meat, seafood, vegetarian, and pasta entrees, plus a dessert presentation of cannolis, cheesecake, chocolate biscotti, fruit, and zabaglione. SHOT will provide two complimentary bottles of the house wines, one red and one white, for each table. Tables may purchase additional bottles from the bar if they wish. Please sign up for the banquet on the conference registration form; tickets are \$55 a person, and you must register for the banquet in order to attend.

TOURS**Tour 1**

Hoover Dam: Who can pass up the opportunity to visit the Eighth Wonder of the World? The world's largest dam at its completion in 1935, Hoover Dam may still be the most famous. Although ordinary tourists now have to settle for an abbreviated tour thanks to the new security regulations following 9/11, SHOT members will get the VIP treatment, what used to be called the "Hard Hat Tour". I'm not sure if you still get to keep the hard hat, but you will get an extensive look at the interior sections of the dam. After the dam tour, we will stop at the Boulder City Museum, where director Dennis McBride, co-author

of *The Building of Hoover Dam*, will be our host. The museum has an unmatched collection of photographs, artifacts, film and oral histories about the dam's construction. A luncheon at the historic Boulder Dam Hotel will complete the tour. Buses load at the Imperial Palace at 9am and will return about 3pm. Cost is \$70, all-inclusive. Tour limited to 40, so sign up early.

Tour 2

The Neon Museum: Did you ever wonder what happens to those classic Las Vegas signs when they implode the casinos? The best of them end up at the Neon Museum, a unique Las Vegas attraction devoted to the care and preservation of Las Vegas's most distinctive art form. Also known as the Boneyard, the museum features a number of classic signs spread out over a couple of acres. The Boneyard has been the back-lot for several feature films, and was the setting for a famous episode of CSI. Our guide will show you some of the highlights, and let you explore the rest on your own. The Neon Museum has restored some of its collection, and you can see a few greatest hits as you walk around downtown. Don't miss a chance to visit Fremont Street, for a taste of old Las Vegas. Vegas Vic and Sassy Sally can still be found there, as well as some other landmarks. Buses load at 2pm at the Imperial Palace and will return at 4pm. Cost is \$15. Tour limited to 24.

Tour 3

The Liberace Museum. Admit it. Aren't you curious to see what has recently been voted "The Best Museum in Las Vegas"? For sheer pizzazz, the Liberace Museum is hard to match, with a world class collection of cars, pianos, costumes, jewelry, rhinestones, and so much else that put the show in Mr. Showmanship. Until Mayor Goodman gets his Mob Museum built, this is one of the best looks at classic Las Vegas. As Liberace's signature songs says, "I'll Be Seeing You." Buses load at the Imperial Palace at 2pm and will return at 4pm. Cost is \$15. Tour limited to 24.

SIG MEETINGS

The **Albatrosses** will meet Sunday morning (Oct. 15) for breakfast. Those interested in joining the annual gathering should meet at 7:30 am in front of the "Emperor's Buffet" on the 3rd floor of the hotel.

More details about the meeting will be in the meeting program and posted in the Albatross newsletter during the summer at

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

For more information contact Debbie Douglas at

ddouglas@mit.edu

or to subscribe to the newsletter email Rob Ferguson at rob@furglu.com.

The SIG on **Computers, Information, and Society** will hold a lunch meeting at the conference hotel on Friday, October 13. The pizza luncheon cost is **\$21**. Please indicate your participation on the registration form.

The **Engineering** SIG will hold a lunch meeting on Saturday, October 14 at the conference hotel. The pizza luncheon cost is **\$21**. Please indicate your participation on the registration form.

Envirotech will hold a breakfast meeting on Friday, October 13. The cost for the deluxe continental breakfast is **\$18**. Please indicate your participation on the registration form.

The **Grad Student and Current International Scholars** breakfast will be Saturday, October 14 in the conference hotel. There is no cost. Please note that the breakfast is open **ONLY** to **current** grad students and international scholars, as well as the SHOT officers. Please indicate your participation on the registration form.

The **Mercurians and Jovians** joint annual breakfast meeting will be Saturday, October 14 in the conference hotel. The cost of the Healthy Choice breakfast is **\$10**. Please indicate your participation on the registration form.

The **Military History** SIG will meet Friday for lunch and a meeting. Those interested should meet in the hotel lobby 15 minutes after the end of the morning

session, and the group will then relocate to a nearby pub. If you have questions regarding the meeting, or the SIG, please contact Bart Hacker at Hackerb@nmah.si.edu.

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

The organizers of **Tensions of Europe** invite SHOT members to register for a breakfast on Saturday, October 14 at the conference hotel. The cost of the Healthy Choice breakfast is **\$18**. Please indicate your participation on the registration form.

WITH (Women in Technological History) will hold a luncheon meeting on Friday, October 13 at the conference hotel. The cost of the pizza lunch is **\$10** for graduate students and **\$21** for all others. Please indicate your participation on the registration form.

HOTEL

The conference hotel is the **Imperial Palace Las Vegas**, located at 3535 Las Vegas Boulevard So., Las Vegas, Nevada 89109. You will find this the most convenient place to stay during the meeting; all sessions and the book exhibit will be held there, along with the banquet, opening reception, and other SHOT special events. The Imperial Palace Hotel & Casino has undergone a multimillion-dollar renovation, completely remodeled the main casino floor and most of the guest rooms, and added a Las Vegas Monorail Hotel Access area. Located at the center of the Las Vegas Strip, it is a convenient base for exploring the area's many attractions. Non-smoking guest rooms available; hotel features a swimming pool with heated spa, multiple restaurants, fitness center and spa, and more.

Our special SHOT conference rates are:

Wed. Oct. 11, 2006:	\$79 plus 9% tax
Thurs. Oct. 12:	\$79 plus 9% tax
Fri. Oct. 13:	\$119 plus 9% tax
Sat. Oct. 14:	\$119 plus 9% tax
Sun. Oct. 15:	\$79 plus 9% tax
Mon. Oct. 16:	\$79 plus 9% tax

There is an additional \$19.00 plus 9% tax per person, per night charge for triple or quad rooms. These prices are in effect until September 11 – please be sure to make your reservations before this deadline.

To register for a hotel room, please call the Imperial Palace at 1-800-800-2981 and ask for the “Society for the History of Technology room block” to get the special rate. You can also e-mail your room reservation request to roomres@imperialpalace.com - again, please be sure to mention the “Society for the History of Technology room block” to get the special rate. Again, please remember that the deadline for making room reservations to get SHOT's special hotel rates is **Monday, September 11, 2006**.

Website for the Imperial Palace:
<http://www.imperialpalace.com/>

Getting to the Imperial Palace from the Las Vegas Airport

At McCarran International Airport, across from baggage claim, there are several shuttle companies that service the Strip, including Bell Trans, CLS Transportation, Gray Line Tours of Southern Nevada/Coach USA, Las Vegas Limousine, ODS, and Showtime Shuttle. The cost is approximately \$5-7 per person. The shuttles leave every few minutes from the airport and advance reservations are not required.

Some of our local arrangements people recommend taking a taxicab to the hotel, instead of a shuttle, for a faster, less crowded ride. The fare for a cab ride between the airport and the hotel should be about \$13-\$17, and cabs are readily available both at the airport and on the strip.

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

“Challenges in Preserving and Interpreting Atomic History”

A Special Friday Evening SHOT Session sponsored by TEMSIG

Preserving and interpreting atomic history presents challenges that are in some ways unique, but in many ways simply highlight and magnify the issues museums and historic sites are facing in the 21st century. Attending to various interest groups, fundraising, and engaging public audiences in complex subjects are issues faced by all museums. Additionally, government secrecy and the fear of radioactive contamination have made preserving and interpreting atomic history exceptionally challenging. Geopolitical events surrounding the War on Terror now recast these issues in an even harsher light, putting additional pressures on those trying to document atomic history. The recent opening of the Atomic Testing Museum in Las Vegas presents a perfect opportunity for members of SHOT to consider the implications of these issues for both preservation and scholarship.

The Atomic Testing Museum covers the work conducted at the Nevada Test Site and its impact on the nation. The Nevada Test Site served as the nation’s principal on-continent nuclear weapons testing facility from 1951 to 1992. Our session speakers are all engaged in the work of preserving and interpreting atomic history and will address the theme of the session from their own unique perspectives, followed by discussion.

Organizer: Maggie Dennis, Lemelson Center for the Study of Invention and Innovation, Smithsonian Institution

Moderator: Bart Hacker, Curator, Division of Military History and Diplomacy, National Museum of American History, Smithsonian Institution

Panelists:

Cynthia Kelly, President, Atomic Heritage Foundation, Washington, D.C.
“The Challenges of Preserving Atomic History”

Bill Johnson, Director, Atomic Testing Museum, Las Vegas
“Cold War Archaeology and the Atomic Testing Museum”

Arthur Molella, Director, Lemelson Center for the Study of Invention and Innovation, Smithsonian Institution
“Remembering the Bomb Yesterday, Today, and Tomorrow”

Mary Palevsky, Director, Nevada Test Site Oral History Project, University of Nevada, Las Vegas
“Narratives of Nuclear Testing in Nevada”

PRELIMINARY PROGRAM

Thursday, October 12, 2006

SHOT Executive Council Meeting 8:00 a.m. -- 5:00 p.m. (open to all members)

SHOT "Hard Hat Tour" of Hoover Dam and the Boulder City Museum 9:00 a.m. – 3:00 p.m.

(admission by ticket only—limited to the first 40 people to sign up)

SHOT tour of the Neon Museum 2:00 p.m. – 4:00 p.m. (admission by ticket only—limited to the first 24 people to sign up)

SHOT tour of the Liberace Museum 2:00 p.m. – 4:00 p.m. (admission by ticket only—limited to the first 24 people to sign up)

Tentative – 5:30 p.m. to 6:45 p.m.

SHOT Special Session -- tentative

Topic and speakers TBA

Discussion: The audience

SHOT Presidential Address 7:00 p.m. – 8:00 p.m. (open to all meeting attendees)

SHOT welcoming reception, Imperial Palace Automobile Collection – 8:00 p.m.–10:00 p.m.

(open to all meeting registrants)

Friday morning, October 13, 2006

Breakfast meetings 8:00—9:30 a.m.:

Envirotech breakfast

Technology and Culture Editor's breakfast

SHOT paper sessions 9:30—11:30 a.m.

1. Writing Lives: Biography as a Window to Interpreting Technology

Organizer and Chair: Roger D. Launius, National Air and Space Museum

James T. Andrews, Iowa State University
W. Bernard Carlson, University of Virginia
Tom D. Crouch, National Air and Space Museum
James Rodger Fleming, Colby College
Amy E. Foster, University of Central Florida
James R. Hansen, Auburn University
W. David Lewis, Auburn University
Michael J. Neufeld, National Air and Space Museum

2. High Tech Manufacturing

Organizers: Christophe Lécuyer, University of California, and David Brock, CHF

Chair: Timothy Lenoir, Duke University

Comment: Steve Usselman, Georgia Institute of Technology

Dan Holbrook, Marshall University: "Dirt Never Sleeps: A Preliminary Enquiry into the Manufacturing Origins of Clean Room Technology"

Christophe Lécuyer, University of California, and David Brock, Chemical Heritage Foundation: "Silicon Gate: The Making of a High Tech Manufacturing Process"

Ted Everson, CHF: "Biomanufacturing and Knowledge Production: Commercializing Recombinant Human Insulin and Growth Hormone at Genentech Inc., 1975-1985"

Ann Johnson, University of South Carolina: "Nanomanufacturing: Disruptive Technology or Incremental Innovation?"

3. Technology and national pride

Chair: Richard Hirsh, Virginia Tech

Comment: The audience

Sungook Hong, Seoul National University, "'Power, Wonder and Suspicion': The Cultural Meaning of Electricity in Korea, 1885-1910"

Edmund Potter, Woodrow Wilson Presidential Library: "Technology, Architecture, and the Presidency: Early Developments of the West Wing"

Tracy Nichols Busch, Ferris State University: "Comrades and Their Cars: Mobility and Society in the Early Soviet Period"

Ashok Maharaj, Georgia Institute of Technology: "Sounding and Lighting the Tropical Space: Early Indian Rocketry and Images of Modernity"

4. Standards in Business

Chair: Finn Arne Jorgensen, Norwegian University of Science and Technology
Comment: The Audience

Peter Meyer and Carol Siri Johnson, U.S. Bureau of Labor Statistics and New Jersey Institute of Technology: "Technological Discussions in Iron and Steel, 1871-1885"

Barbara Craig, University of Toronto: "Mapping the Terrain of the File: Machines, Methods, and Notions of Modernity in the British Civil Service, 1890-1956"

Arthur Donovan, United States Merchant Marine Academy: "Cargo Containerization: A Technological Innovation that has Revolutionized Surface Freight Transportation Worldwide"

Jari Saarinen, Technical Research Centre of Finland: "Professionalisation of Research and Development activities in Finnish companies before 1970s"

5. Learning from Las Vegas in the Media Age: Roundtable

Susan Nigra Snyder & George E. Thomas, Civic Visions
Kurt Andersen, novelist and journalist (public radio's "Studio 360", *New York* magazine) (tentative)
Alan Hess, San Jose Mercury News
Thomas Hughes, University of Pennsylvania

6. Individual Inventors

Chair: Wiebe Bijker, University of Maastricht
Comment: TBA

Thomas Sadowski, Independent Researcher: "Technological Risk, Its Management, and the Early Promotion of Arms Contracts with the U.S. Government: Whitney's 1798 Musket Contract"

Slawomir Lotysz, University of Zielona Gora: "From silk to Kevlar: Poles and the Bulletproof Vest"

Alessandro Nuovolari and Deborah Tappi, Eindhoven University of Technology: "Patented invention and the early history of the US electric lamp industry (1880-1940)"

Frank Winter, Smithsonian Institution: "The Silent Revolution: How Robert H. Goddard Helped Start the Space Age"

7. Technology and Play

Chair: TBA
Comment: Joe Corn, Stanford University

Cristina Turdean, University of Delaware: "Handsome Money Making Devices: Slot Machines and Mechanized Gambling in the Early Twentieth Century"

Aaron Alcorn, Case Western Reserve University: "Packaging Modernity: Reading Airmindedness as Boys' Consumer Movement"

Liv Ramskjaer, Norwegian Museum of Science and Technology: "Plastic boats, speed and playful leisure time"

Cathleen Lewis, Smithsonian Institution: "Making Space a Hobby: Trading and Collection Soviet Space Znachki for Fifty Years"

8. Engineering Education and Professionalism in the United States

Organizers: Brent Jesiek and Jonson Miller, Virginia Tech

Chair and Comment: Ross Bassett, North Carolina State University

Jonson Miller, Virginia Tech: "Citizen Soldiers and Professional Engineers: Constructing Engineering Professional Identity at the Virginia Military Institute, 1834-1851"

Paul Nienkamp, Iowa State University: "The Practice of Science: Tools, Techniques, and Training at America's Land-Grant Colleges in the Late-Nineteenth Century"

Brent Jesiek, Virginia Tech: "A History of Persistent Instability: Co-producing Technology, Knowledge, and Discipline in Computer Engineering, 1951-1972"

Jody Roberts, Chemical Heritage Foundation: "Creating 'Socially Responsible' Engineers: An Old Problem from New Perspectives"

Lunch meetings 11:30—1:00 p.m.

Computers, Information and Society lunch
Military Technology SIG lunch
WITH (Women in Technological History) lunch

Friday afternoon, October 13, 2006

SHOT early afternoon paper sessions 1:00—2:45 p.m.

9. Pentecostals, Feminists, and Nerds: Technology and Identity

Chair: John Staudenmaier, University of Detroit
Comment: Ruth Schwartz Cowan, University of Pennsylvania

Joseph Williams, Florida State University: "Technology in Early Pentecostal Testimonies"

Christine Filippone, Rutgers University: "Technology and Feminist Utopias in Contemporary Art"

Mark Clark, Oregon Institute of Technology: "Engineering Education and the Origins of Nerd Culture"

10. What Causes Accidents? The Use and Misuse of Narratives about Inherently Risky Technologies

Organizer: Bev Sauer, Johns Hopkins University
Chair and Comment: TBA

Rebecca E. Burnett, Iowa State University: "The Rhetoric of Condom Efficacy: Pitting Technology against Promiscuity"

Arwen Mohun, University of Delaware: "Accident Fakers and Ambulance Chasers: Technological Fraud and the Communication of Risk in the Age of Early Automobility"

Bev Sauer, Johns Hopkins University: "Communication as Causality in Large-scale Technological Disasters"

11. IT and Surveillance

Chair: Pamela Mack, Clemson University
Comment: Alex Checovich, University of Virginia

Fred Nadis, California State University, Channel Islands: "Citizen Funt: Surveillance as Cold War Art Form"

James David, Smithsonian Institution: "The National Aeronautics and Space Administration's Use of Technology from the Covert World"

Jason Gallo and John Laprise, Northwestern University: "From Barcodes to RFIDs: Consumer and Commercial Responses to Individual Identification Technologies"

12. Looking at Glass

Chair: TBA
Comment: Joan Rothschild, CUNY Graduate Center

Thomas Leslie, Iowa State University: "The Crystalline Cage: Plate Glass Production and the Proto-Modern Skyscraper in Chicago, 1889-1904"

Robert Voigt, Independent Researcher: "Eyes for the Navy: Franklin D. Roosevelt and the War Against the U-Boats, 1917-1918"

Derek Simons, Simon Fraser University: "Art as Technology Pollinator: An Interdisciplinary Investigation into the Adoption of Glass in Vancouver's New Urban Developments"

13. Roundtable: Teaching the History of Technology

Organizer: Jeff Schramm, University of Missouri-Rolla

Chair: Gabriella Petrick, New York University

Christine Keiner, Rochester Institute of Technology: "Bonfire of the Humanities: HoT Strategies for Integrating the Liberal Arts into Engineering Education"

Jeff Schramm, University of Missouri-Rolla: "Teaching is neither good nor bad, nor is it neutral; Using Kranzberg's Laws in an Introductory History of Technology Course"

Gerard J. Fitzgerald, University of Pennsylvania and Chemical Heritage Foundation: "The past is never dead... Literature, Methods, and American Technological History"

14. Italian Transfers: Modern consumer society in Italy and "Italian" consumer goods

Organizer: Thomas Brandt, NTNU, Trondheim

Chair: Ulrich Wengenroth, University of Technology Munich

Comment: Jane Slaughter, University of New Mexico

Elisabetta Bini, New York University: "Technologies off/in the Home: Gender, Consumption and Mechanization in Postwar Italy"

Thomas Brandt, NTNU, Trondheim: "An 'Italian family' of Vespa Drivers: The Creation of Brand Communities around the Italian Vespa Scooter"

Jonathan Morris, University of Hertfordshire: "Creating Cappuccino: Espresso Coffee Machines in Italy and Beyond"

15. Environmental and Social Engineering

Chair: Bruce Seely, Michigan Technological University

Comment: Bill Leslie, Johns Hopkins University

Andrew Johnston, Wentworth Institute of Technology: "Quicksilver Landscapes: Spanish and British Colonial Structures in Mercury Mining in California, 1840-1890"

Jason Chrystal, Iowa State University: "A Controlled Experience in a Controlled Environment: Entertainment, Social Control, and the Houston Astrodome"

Anna Storm, KTH-Royal Institute of Technology: "Interpretation processes in re-used industrial areas"

16. Early 20th century roots of terrorism

Chair: Merritt Roe Smith, MIT

Comment: Rosalind Williams, MIT

Bruce Hevly, University of Washington: "Triangle of Fire: Marksmanship Culture in Late-Nineteenth Century New York"

David Caruso, Cornell University: "Razing Institutional Knowledge through Practice: Triage in the American military and medicine during the First World War"

Mats Fridlund, Technical University of Denmark: "The Tools of Terror: Towards a History of Technology of Terrorism from the Guillotine to the Camcorder"

Friday afternoon, October 13, 2006

SHOT late afternoon paper sessions 3:15—5:00 p.m.

17. Protecting the Voter from "Rascaldom": Mechanical-Lever Voting Machines, Election Reform, and Democracy, 1888-1926

Organizer and Chair: Bryan Pfaffenberger, University of Virginia
Comment: William L. Bird, Jr., Smithsonian Institution

Roy G. Saltman, Consultant and Author: "The Invention of Voting Machines: Addressing Election Integrity and Administrative Effectiveness"

Bryan Pfaffenberger, University of Virginia: "'In Counting There Is Strength': Tammany Hall, Election Reform, and the Origins of New York's Remarkable Affection for the Mechanical-Lever Voting Machine"

Douglas W. Jones, University of Iowa: "Technologists as Political Reformers: Lessons from the Early History of Voting Machines"

18. Author Meets Critics: a discussion of *Dominance by Design: Technological Imperatives and America's Civilizing Mission* by Michael Adas

Organizer and Chair: Gabrielle Hecht, University of Michigan

Critics:

Daniel Headrick, Roosevelt University

Francesca Bray, University of Edinburgh

Itty Abraham, East-West Center

Ruth Oldenziel, Technical University Eindhoven

Response:

Michael Adas, Rutgers University

19. Large-scale state projects

Chair: TBA

Comment: David Hounshell, Carnegie Mellon University

Cornelis Disco, University of Twente: "The Great Rhine Robbery: Nationalism, Internationalism and the Rise and Fall of the Grand Canal d'Alsace 1900-1960"

Per Lundin and Johnan Gribbe, KTH-Royal Institute of Technology: "Science for Welfare and Warfare: Challenging National Historical Myths"

Adebayo Lawal, University of Lagos: "Ethnic Politics and Technological Development in Post Civil War Nigeria 1971-1979"

20. Weights and Measures of the 19th Century Body Politic

Chair: TBA

Comment: Katherine Ott, Smithsonian Institution

Damon Yarnell, University of Pennsylvania: "Clean Data and Filth Maps: The Graphic Calculation of Disease in 19th-Century America"

Marianne Kinkel, Washington State University: "Projecting Race"

Deborah Levine, Harvard University: "Getting on the Scale: The Tools of Body Management, 1865-1880"

21. The Commercialized Internet and its Users in the 1990s

Organizer: Thomas Haigh, University of Wisconsin

Chair: William Aspray, Indiana University

Comment: James W. Cortada, IBM

Thomas Haigh, University of Wisconsin: "Crippled by its Own Strengths: The Software Infrastructure of the Commercializing Internet"

Blaise Cronin, Indiana University: "The Internet and Pornography"

Atsushi Akera, RPI: "Re-envisioning Community: A Contemporary US History of Social Networking and Community Informatics"

22. Exploring Sound

Chair: TBA

Comment: Alexander Magoun, David Sarnoff Library

Mara Mills, Harvard University: "The Deaf May Lead the Way: Sound Spectrography and Visible Speech"

Thomas Welsh, Elision Fields: "A Concise History of the San Francisco Tape Music Center in 20 Minutes"

Outi Ampuja, University of Helsinki: "Shaping Soundscapes and Controlling Noise in Helsinki, Finland, 1950-2000"

23. The Forgotten Openness of the Closed World

Organizer: Fred Turner, Stanford University

Chair: Jennifer Light, Northwestern University

Comment: The Audience

Ron Kline, Cornell University: "Constructing Cybernetic Mechanisms and Bionic Humans: Cold War Tensions in Cybernetics in the United States, 1948-1970"

Fred Turner, Stanford University: "Romantic Automatism: Art and Automation in Cold War America"

Sharon Ghamari-Tabrizi, Independent Scholar: "The Shift in Design Styles in Pentagon War Games During the Cold War"

24. Constructing Competence

Organizer and Chair: Janet Abbate, Virginia Tech

Comment: Ken Alder, Northwestern University

Janet Abbate, Virginia Tech: "'Close to the Machine' The Co-construction of Computers and Programming Skill"

Scott Knowles, Drexel University: "'Citizen Experts': Information Technology and the Democratization of Risk Awareness in the United States"

Amy Slaton, Drexel University: "NASA Funding for Historically Black Universities: Diversity in Scale and Scope."

SHOT reception and special session on "Interpreting the Atomic Age" at the Atomic Testing Museum 7:00 p.m.—10:00 pm. (admission by ticket only)

Saturday morning, October 14, 2006

Breakfast meetings 8:00—9:30 a.m.

Tensions of Europe breakfast

Jovians/Mercurians breakfast

Graduate Students and Current International Scholars breakfast (limited to the first 50 graduate students and current international scholars to sign up)

SHOT paper sessions 9:30—11:30 a.m.

25. Our Common Past: Conversations between History of Technology and Design History

Organizer: Kjetil Fallan, Norwegian University of Science and Technology

Chair: Hans-Joachim Braun, Universitaet der Bundeswehr Hamburg

Comment: Martina Hessler, RWTH Aachen University, Germany

Barry M. Katz, California College of the Arts and Stanford University: "Prolegomena to a History of Silicon Valley Design"

Penny Sparke, Kingston University, UK:

"Automotive History as Conversations between the History of Technology and Design History"

Per Östby, Norwegian University of Science and Technology: "The Cow that Became a Bull: Transforming the Stratos Chocolate by Technology and Design"

Kjetil Fallan, Norwegian University of Science and Technology, Norway: "Form, Function, Fiction: Negotiations on Technology and Design in the Development of the Figgjo 3500 Hotel China"

26. From Science to Art and Back

Chair: TBA

Comment: Tom Crouch, Smithsonian Institution

Heather Campbell, International Culture Center and Museum: "'By

Degrees: The transformation of the astrolabe from science to art."

Sarah Kate Gillespie, City University of New York: "'I Never Was a Painter': Samuel F. B. Morse, the Daguerreotype, and the Ascension of American Technology

Maria Makela, California College of the Arts: "Necessity as the Mother of Invention: Rayon in Germany"

Alain Michel, University of Evry Val d'Essonne: "Robert Doisneau, Industrial Photographer in Nuclear Technology: Interplay between the History of Technology and the History of Photography"

27. Technology and Display

Chair: Debbie Douglas, MIT Museum

Comment: David Nye, University of Warwick

Laura Kalba, University of Southern California: "Fireworks and Magic Tricks: Color and the Chemical Sublime in Nineteenth-Century France"

Emily Godbey, Iowa State University: "Betting on Destruction: Wrecking Trains, Planes, and Automobiles"

Wade Franck, Iowa State University: "'To do Honor to Grandfather': The Myth Building and Centennial Celebration of Cyrus McCormick and the Grain Reaper

Julian Kilker, University of Nevada, Las Vegas: "The (Vegas) convention: Form, function, and Fantasy"

28. Railways

Chair: Steve Usselman, Georgia Tech

Comment: The Audience

Colin Divall, University of York: "'Don't touch! Bertram, you might break something!': Railways, Commercial Culture and Citizenship in Early-twentieth-century Britain"

Irene Anastasiadou, Technical University of Eindhoven: "Building a Railway Europe: Technocratic Dreams of a United Europe in the Interwar Period"

Barbara Schmucki, University of York/National Railway Museum: "The English Passenger: The Journey to the Continent in the First Half of the 20th Century"

Tom Cornillie, University of Illinois: "Technology and the Streamlined American Passenger Train"

29. Technical Expertise and the State: Structural Problems and Institutional Responses

Organizers and Chairs: Anna Märker and Frédéric Graber, Max Planck Institute for the History of Science

Frédéric Graber, Max Planck Institute for the History of Science, Berlin: "What are State Engineers for? A Reflection on the Ponts-et-Chaussées Corps and the State in Revolutionary and Napoleonic France"

Jean-Baptiste Fressoz, Centre Alexandre Koyré: "Technological Risk and Expertise during the Industrial Revolution: A Comparison between France and England"

Anna Märker, Max Planck Institute for the History of Science: "Instituting Expertise in Enlightened Absolutism: Examples from late-eighteenth-century Tuscany"

Peter Schimkadt, Independent Scholar: "Steam Court: Princely Patronage and Steam-Driven Devices in Early 18th Century Kassel"

30. Human mediation in networks of communication

Chair and Comment: Jonathan Coopersmith, Texas A&M University

Alex Russo, Catholic University of America: "On the Spot, In the Middle: The Place of Station Representatives in Radio Broadcasting"

Megan Mullen, University of Wisconsin: "The Jerrold Service Contract: Early U.S. Cable's Faustian Bargain?"

Max Dawson, Northwestern University: "Home Video and The 'TV Problem': Cultural Critics and Technological Change"

Josh Greenberg, George Mason University: "The Franchise and the API: Formalized Structures of Mediation"

31. Geographies of Technology

Chair: Thomas Zeller, University of Maryland, College Park

Comment: Greg Downey, University of Wisconsin

Elizabeth Guffey, SUNY Purchase: "The Visual Context: Technology, Literacy, and Typographic Design in the 19th Century"

Michael Golec, Iowa State University: "Domesticity and Redemption in Chaplin's Modern Times"

Leslie Frank, University of Connecticut: "Mechanical Equipment for the Home: Technology, Public Policy, and Mid-Twentieth Century Suburbanization"

Luis Aparicio, Université Louis Pasteur-Strasbourg I: "History of Technology Versus Socio-technical Innovation: The Tramway Renaissance in France as a Paradigm for Urban Sustainability"

32. Rethinking the Nature-Technology Dichotomy: The Uses of Life in Late Modernity

Organizer: Thomas Wieland, Munich Center for the History of Science and Technology

Chair: John Krige, Georgia Institute of Technology
Comment: Robert Bud, Science Museum London

Pnina Geraldine Abir-Am, Scientific Legacies: "Scientific Legacies: The Transatlantic Origins of Biogen, 1975-1985: A Case Study in the Transition from Molecular Biology to Biotech in Late Modernity"

Catherine Larrère, Raphaël Larrère & Bernadette Bensaude-Vincent, Université de Paris: "Bionanotechnology and the Art/nature Divide"

Edmund Russel, University of Virginia: "The Incredible Evolving Dog: Making an Animal Modern"

Thomas Wieland, Munich Center for the History of Science and Technology: "Biological Rationality: Changing Attitudes Towards the Uses of Life in Late Modernity"

Lunch meetings 11:30 a.m.—1:00 p.m.

SIG on Strengthening Relations with the Engineering Community lunch
TEMSIG (Technology Museums) lunch

Saturday afternoon, October 14, 2006

SHOT early afternoon paper sessions 1:00—2:45 p.m.

33. Accidents II

Chair: Andrew J. Butrica, Independent Scholar
Comment: Scott Gabriel Knowles, Drexel University

Derek Oden, Iowa State University: "The Tractor and the Family Farm: Harvest and Heartbreak in the Corn Belt"

Sonja Schmid, Stanford University: "Unique and Alike: Reactor Design Choices Before and After Chernobyl"

Bill Luckin, University of Bolton: "The Global Highway Casualty Crisis: Historical and Cultural Perspectives"

34. Public Subsidy and Technological Change in the History of U.S. Transportation and Information Systems

Organizer, Chair, and Comment: Sylvia Kraemer, Independent Policy Research

Robert G. Angevine, Scitor Corporation: "The U.S. Army and Technological Development in the 19th c. Railroad Industry"

Alex Roland, Duke University: "American Ships and Planes in the 20th Century: A Comparison of Technological Innovation"

Thomas J. Misa, Charles Babbage Institute, University of Minnesota: "Revisiting the Rate and Direction of Technical Change: Scenarios and Counterfactuals in the Information Technology Revolution"

35. Ethics of New Media

Chair: TBA

Comment: Julian Kilker, University of Nevada

Matthew Payne, University of Texas: "Leveling-Up: The Department of Defense as a Video Game Author"

Christopher Finlay, University of Pennsylvania: "Mapping Crime, Reifying Stereotypes? A Critical Analysis of the History of Publishing GIS Crime Maps on the Internet for Public Consumption"

Elaine A. King, Carnegie Mellon University: "Technology: Ethics and Social Accountability"

36. The Colony and Beyond: Exploring Technology in Asian History

Organizer: Prakash Kumar, Yale University

Chair and Comment: Francesca Bray, University of Edinburgh

Sokhieng Au, Northwestern University: "Medecins and Medicines in the French Colonial Cambodia"

Prakash Kumar, Yale University: "Establishing the Imperial Agricultural Research Institute: Indigenous Visions of Nation and Modernity in Colonial South Asia, 1899-1905"

Suzanne M. Moon, Colorado School of Mines: "Considering the Promise of the Transnational: A Conversation between Southeast Asian History and the History of Technology"

37. Knowledge at Play

Chair: Wiebe Bijker, University of Maastricht

Comment: Maaïke Lauwaert, University of Maastricht

Masafumi Miyajima, Daikin Air-conditioning and Environmental Laboratory: "Just Laugh to catch the idea: Stand-up Comics, Comic Strips and the Technological Literacy in postwar Japan, 1945-2003"

Fiona Angus, Grant MacEwan College: "Duct Tape, Gravel and a Tin Can: Bricolage and Working Knowledge in a Western Canadian Carnival"

Stephanie Bacon and Jennifer Wood, Boise State University and Idiom Design: "Art Students Who Play Video Games"

38. Space, Time and Technology

Organizers: Douglas Jerolimov and Gregory J. Downey, University of Delaware and University of Wisconsin

Chair and Comment: John Cloud, National Oceanic and Atmospheric Administration

Timothy J. LeCain, Montana State University: "'A Fearful Symmetry': The High Modernist Control of Terrestrial and Sub-terrestrial Ecotechnological Systems in 20th Century Copper Mining"

Douglas Jerolimov, University of Delaware: "Shipmasters, Passengers, and the Transition From Sail- to Steam-Power Aboard Transatlantic Liners, 1818-1855"

Gregory J. Downey, University of Wisconsin: "Space, Time, and the 'Automated Library'"

39. Making a Knowledge Professional?

Organizers: John K. Brown and Ann Johnson, University of Virginia and University of South Carolina

Chair: Edmund Russell, University of Virginia

Comment: Bruce Seely, Michigan Technological University

John K. Brown, University of Virginia: "Professional Imperatives in Engineering Communities: Contests in Constructing the St. Louis Bridge, 1867-1873"

Mark Stevens, University of South Carolina: "A Pre-professional Relic? Theatrical Technical Directors as Knowledge Community"

David M. Berube, University of South Carolina: "Communitas Among Toxicologists in Nanoscience"

40. Inputs, Outputs, and Feedback

Chair: TBA

Comment: Nathan Ensmenger, University of Pennsylvania

Stephen Sheehan, University of Sydney: "Automata as Entertainment: The Case of the Duck's Stool"

Roger Schonfeld, Ithaka: "The Role of Information-Sharing in Book Survivability in the United States, 1890-1940"

Dov Lungu, York University: "The Origins and Roles of the Early Macintosh User Groups: 1984-1987"

Amy Wendling, Creighton University: "The Speed of Production: Charles Babbage's Influence on Karl Marx."

Saturday afternoon, October 14, 2006

SHOT late afternoon paper sessions 3:15—5:00 p.m.

41. The Europeaness of the European car

Organizer: Ulrich Wengenroth, Munich Center for the History of Science and Technology

Chair: Helmuth Trischler, Deutsches Museum, Munich

Comment: TBA

Christine H. Zureich, Munich Center for the History of Science and Technology: "'Doing Europe' in Uddevalla: Volvo between the Construction of Cars and Identities"

Ulrich Wengenroth, Munich Center for the History of Science and Technology: "Inside the European car: The Semiotics of a Technology"

Kilian J. L. Steiner, Munich Center for the History of Science and Technology: "'The ultimate driving machine' versus 'Sheer driving pleasure': The Manifold Meanings of BMWs in Europe and the USA"

42. Technopolitics of Space

Organizer: Ruth Oldenziel, TU Eindhoven/University of Amsterdam

Chair: TBA

Comment: Tom Misa, Charles Babbage Institute, University of Minnesota

John Cloud, NOAA: "The Lay of the Land under the Law of the Sea"

Ruth Oldenziel, TU Eindhoven/University of Amsterdam: "The Techno-politics of Off-shore America: Islands as Nodes in the Cold War"

Eda Kranakis, University of Ottawa: "Neo-imperialism, Development, and the Techno-Politics of Export Processing Zones"

43. Creating an International Culture of Change (1870-1930)

Organizer: Robert H. Kargon, Johns Hopkins University

Chair and Comment: Arthur Molella, Smithsonian Institution

Miriam R. Levin, Case Western Reserve University
Robert H. Kargon, Johns Hopkins University
Catherine Lavenir, University of Paris III (Sorbonne)

44. Exhibiting Invention: Technological Myth-Building in Museum Narratives

Organizer: Eve Duffy, Trinity University
Chair: Maggie Dennis, Smithsonian Institution
Comment: The Audience

Eve Duffy, Trinity University: "Invention as Masterpiece: Balancing Authorship and Evolution in the Deutsches Museum, 1903-1930"

Kathleen Franz, American University: "From Savagery to Civilization: Otis Tufton Mason and the Exhibition of Invention at the National Museum"

Russell Jones, Eastern Michigan University: "Encoding the Myth: The Morse Invention on Display at the National Museum"

45. All Things Nuclear

Chair and Comment: Darrin Durant, York University

Robert Hunter, University of Illinois at Chicago: "The Box and the Bomb: Early Atomic Television, 1945-1953"

Seong-Jun Kim, Seoul National University: "Historical Origins of South Korean Nuclear Optimism"

Per Högselius, KTH-Royal Institute of Technology: "The Politics of Nuclear Waste in Historical Perspective: An International Comparison"

46. Roundtable: Archaeology, Technology and History

Organizer and Chair: Matthew Harpster, Dibner Institute for the History of Science and Technology

Kelly DeVries, University of Loyola
 Pam Long, Independent Scholar
 Ben Porter, University of Pennsylvania
 Paul White, Brown University

47. Staging Global Technology: Images and Rhetoric after World War II

Organizers: Martin Collins, Smithsonian Institution and John Krige, Georgia Institute of Technology
Chair: Tim Stoneman, MIT
Comment: Suzanne Moon, Harvey Mudd College

John Krige, Georgia Institute of Technology: "Exhibiting the Peaceful Atom, Globalizing the Nuclear"

Neil M. Maher, New Jersey Institute of Technology and Rutgers, Newark: "Whole Earth: NASA Technology and the Advent of Global Environmentalism"

Martin Collins, Smithsonian Institution: "'One World & One Telephone': The Political Imagery of the Iridium Satellite Venture"

48. Computer games and standards development

Chair: Maggie Dennis, Smithsonian Institution
Comment: David Grier, George Washington University

Casey O'Donnell, Rensselaer Polytechnic Institute: "Nintendo Entertainment System and the 10NES Chip: Carving the Video Game Industry in Silicon"

Nathan Ensmenger, University of Pennsylvania: "Is Chess the Drosophila of AI? Computer Games as Experimental Technologies in Artificial Intelligence"

Jan Jörnmark and Mirko Ernkvist, University of Gothenburg: "Arcade Do What Other Entertainment Don't: Differentiation and growth in the US and Japanese arcade industry 1971-2005"

SHOT business meeting 5:15—6:00 p.m. (open to all members)

SHOT Awards Banquet 7:00—10:00 p.m. (admission by ticket only)

SHOT Hospitality Suite 10:00—midnight

Sunday morning, October 15, 2006**Breakfast meetings 7:30—9:00 a.m.**

Albatrosses breakfast

SHOT paper sessions 9:00—10:45 a.m.**49. Gaming, Gambling and the On-Line World: An Historical Debate on Users, Programmers, and Intellectual Property**

Organizer, Chair, and Comment: David L. Harmon

Philip L. Frana, University of Central Arkansas: "Nudging History Online: From the Mechanics of Immersion to the World of Warcraft"

Natasha Schull, Columbia University: "Digital Gambling and its Discontents: Design and Dependency in Las Vegas"

Hector Postigo, Rensselaer Polytechnic Institute: "Video Game Appropriation Through Modifications: Attitudes Concerning Intellectual Property Among Video Game Programming Hobbyists"

50. Rhetoric of Telecommunications

Chair: TBA

Comment: Robert MacDougall, University of Western Ontario

Vera Pavri-Garcia, York University: "'What You Say is What you Get': Policy Discourse and the Regulation of New Communications Technologies in Canada"

Nina Wormbs, KTH-Royal Institute of Technology: "Digitalisation of TV in Sweden: An Analysis of the Debate"

Michael Graziano, Northwestern University: "Motorola and the Emergence of Cellular Radiotelephony"

51. Spaceflight in the History of Technology: New Approaches

Organizer: Slava Gerovitch, MIT

Chair: Alex Roland, Duke University

Comment: Roger Launius, Smithsonian Institution

David Mindell, MIT: "Apollo in the History of Technology"

Slava Gerovitch, MIT: "From Rocket Science to Human Engineering: The Shifting Identities of Soviet Spacecraft Designers"

Stephen B. Johnson, NASA Marshall Space Flight Center and University of Colorado at Colorado Springs: "The Political Economy of Spaceflight"

52. Totalitarian Technological Landscapes

Organizer: Tiago Figueiredo Saraiva, University of Lisbon

Chair and Comment: Frank Uekoetter (Universität Bielefeld)

Tiago Figueiredo Saraiva, University of Lisbon: "Colonizing Portugal: Engineers and the Landscape in the Fascist New State"

Thomas Zeller, University of Maryland, College Park: "Were there Nazi Technological Landscapes?"

Paul Josephson, Colby College: "Was Kim Il Sung More Stalinist than Stalin: Nature Transformation in North Korea"

Joel Wolfe, Will Rice College: "The Brazilian Military's Drive to Unite the Nation: Building Highways in the Amazon under Dictatorship"

53. Interfering with the Nation: The Politics of Radio Reception in Twentieth-Century Europe and the United States

Organizers: Rebecca Scales and Michael A. Krysko, Rutgers University and Kansas State University

Chair and Comment: James Schwoch, Northwestern University

Chris McGahey, Georgia Institute of Technology:
"Traffic Cop of the Ether': Quartz Crystal and the
Development of a National Radio Frequency
Measurement and Control Industry in Interwar
America"

Rebecca P. Scales, Rutgers University, New
Brunswick: "Cosmopolitanism and Cacophony on the
Airwaves: Radio Static, Signals, and Geopolitical
Imagination in 1930s France"

Michael A. Krysko, Kansas State University:
"Blasting and Building Borders: International
Broadcasting and American Identity in the 1930s"

Terry Hamblin, SUNY-Delhi: "Selling America: The
'Voice of America' and U.S. Radio Propaganda to
Western Europe during the early Cold War, 1945-
1954"

54. Ghost in the Machine: Science, Industrialization and Rostow's Legacy

Organizer: Andre Wakefield, Pitzer College
Chair: Daryl Hafter, Michigan Technological
University
Comment: Gabriel Finkelstein, University of
Colorado, Denver

Leonard Rosenband, Utah State: "The Path of Least
Resistance: Enlightenment, Mechanization, and
English Papermaking, 1750-1820"

William J. Ashworth, University of Liverpool: "
Technology, Regulation, and the British Industrial
Revolution Reconsidered"

Andre Wakefield, Pitzer College: "Backward States
as Scientific Incubators"

Lissa Roberts, University of Twente: "From the
Chemical Revolution to the Knowledge Economy"

**The SHOT web site has moved to a new
location in cyberspace,
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**Society for the History of Technology Annual Meeting
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Registration—by 9-8-06	Cost	Total
Early registration—SHOT member	\$100	
Early registration—SHOT student member	\$50	
Early registration—non-SHOT member	\$125	
Early registration—non-SHOT member student	\$60	
After 9-8-06		
SHOT member registration	\$120	
SHOT student member registration	\$65	
Non-SHOT member registration	\$145	
Non-SHOT member student registration	\$75	

Group Events	Cost	Total/Indicate Participation
Hoover Dam/Boulder City Museum Tour (limited to 40 people)	\$70 ea.	
Neon Museum (limited to 24 people)	\$15 ea.	
Liberace Museum (limited to 24 people)	\$15 ea.	
Thursday eve. Presidential Address & Reception— please indicate participation and accompanying person	\$0	
Friday eve. Special Session—Atomic Testing Museum & Reception— please indicate participation*	\$5	
*Additional person attending Friday Special Session & Reception	\$5	
Saturday eve. Awards Banquet*	\$55	
*Add cost of second meal for accompanying person	\$55	

SIG Meetings	Cost	Total/Indicate Participation
Albatrosses Sunday breakfast	Pay there	
Computers, Information & Society Friday lunch	\$21	
Engineering Saturday lunch	\$21	
Envirotech Friday breakfast	\$18	
Mercurians/Jovians Saturday breakfast	\$10	
Military Technology Friday lunch	Pay there	
TEMSIG Saturday lunch	Pay there	
WITH regular Friday lunch	\$21	
graduate students/independent scholars	\$10	

Other Meetings	Cost	Total/Indicate Participation
Current Graduate Students & Current Intl. Scholars Breakfast (need to register) Saturday breakfast	\$0	
Tensions of Europe Saturday breakfast	\$18	

Total amount for registration, tours, meetings, & receptions \$ _____

Credit Card: MASTERCARD or VISA (Please circle)

Card # _____ Expiration date ____/____

Please write very clearly or we cannot process your registration.

Date _____ Signature _____

Check (U.S. Funds—U.S. Bank) _____ (Name and address must be printed on check)
Payment details—please note your registration is definite only after we receive your payment

PRESIDENT'S MESSAGE

I am writing this shortly before the summer solstice, in the season of long days and, for many of us, lazier days at the end of the school year. For SHOT, however, this is just when we begin to pick up the pace: planning the details of the annual meeting, putting forth candidates for elected offices, picking up projects that dropped during the winter, starting to plan for the fall executive council meeting. We have the buzz and stir of back-to-school just as we are getting out of school.

Amy Bix's column in this newsletter nicely conveys the excitement we feel in contemplating the fall meeting in Las Vegas. Honesty compels me to add that a few members have expressed their distaste for Las Vegas and for everything it seems to represent. I understand this reaction: if you know anyone with a gambling addiction, you cannot be amused by a city of casinos. But we don't have to be amused by Las Vegas to learn from it (to allude to the title of the famous book by Robert Venturi and Denise Scott Brown). So much of the history of technology has been built upon our expanding awareness that this, too, is technology: consumption, entertainment, machines designed to produce addiction, casinos as factories...it may not be worthy of praise, but it is still worthy of attention.

In the end, though, the meeting is about us, not about the meeting site. Keeping this focus has been the constant goal of Amy and Cynthia Bennet, as they work together in the SHOT secretary's office; it has also been the goal of the members of the program committee and of the local arrangements committee. Thanks to their collaborative efforts, SHOT members can look forward to the blend of human warmth and intellectual excellence that make our annual meetings so special.

In the meantime, other SHOT activities continue. One of the most important is presented in this newsletter: our annual election. The nominating committee has done a superb job of identifying and recruiting first-rate candidates, who have taken the time to compose explanations of where they come from and where they hope to take SHOT. Please take the time to review these statements and to cast your vote. Nothing is more important for the well-being of

SHOT than the care we take in filling our leadership positions.

Another SHOT activity that continues over the summer is work on a new website, both for SHOT as an organization and also a related site for an online version of *Technology and Culture*. Alas, our ambitious proposal submitted this winter to the National Science Foundation ("Developing an Online Resource for the History of Technology") was not funded. I am disappointed, but not terribly surprised: almost all of us have had the experience of rejection in seeking support for our own research, and sometimes more than once. In this case, writing the proposal and getting the feedback has been most illuminating. While use of the web for research projects is fairly well understood within the NSF, its use for outreach to the larger public, in a way that takes advantage of SHOT's store of intellectual capital and its well-honed editorial processes, seems to be more innovative and provocative. We may submit a revised proposal to the NSF, but it is more likely that we will explore funding opportunities at other government agencies (such as the National Endowment for the Humanities) or at foundations, possibly in collaboration with partnering organizations with similar goals. As always in these matters, persistence is crucial.

On the brighter side, our NSF proposal for a workshop on the Present and Future of the History of Technology, to be held in conjunction with our 2007 anniversary meeting in Washington, D.C., was greeted with praise and (even more important) with funds. Former SHOT secretary Bruce Seely took the lead in writing this proposal: SHOT is once again indebted to Bruce for his thoughtfulness and creativity, not to mention his organizational skills. Here we are, still months away from the Las Vegas meeting, and already thinking about the buzz and excitement of the Washington meeting! The yearly cycle of SHOT rolls on. It may not provide much time for rest, but it does provide renewal, collegiality, and constant interest.

Rosalind Williams
MIT

ANNOUNCEMENTS

The University of Michigan-Dearborn's Science and Technology Studies Program, in collaboration with The Henry Ford, is pleased to announce the launching of a new website and online archive, **The Automobile in American Life and Society**, at www.autolife.umd.umich.edu. Funded by the National Endowment for the Humanities and the DaimlerChrysler Corporation Fund, the site contains overview essays and case studies on the history of the automobile's relationship to labor, gender, race, design, and the environment, authored by Stephen Meyer, Margaret Walsh, Virginia Scharff, Thomas Sugrue, David Gartman, and Martin Melosi. Each essay is copiously illustrated with archival materials, most from the extensive collections of The Henry Ford, and supplemented with a variety of materials for teachers and students (annotated bibliography, definitions, reading comprehension and discussion questions, writing and research assignments). Also included are more than a dozen oral histories of major automobile designers taken during the 1980s by The Henry Ford, digitized and made available online for the first time.

Encyclopedia of American Environmental History

Work has begun on The Encyclopedia of American Environmental History, to be edited by Kathleen Brosnan at the University of Houston Center for Public History and published by Facts On File. This four-volume encyclopedia will include some 800 entries and cover the history of the American environment from pre-colonial times to the present. The editors welcome scholars from all fields. Some of the remaining entries, for example, include airplanes, Atomic Energy Commission, antibiotics, Thomas Edison, Bill Gates, Henry Ford, and telephones, among others. Entries vary in size from 500 to 3,500 words. Publication is scheduled for late 2007 or early 2008. Those interested in writing encyclopedia entries may obtain a listing of available topics and other information at eah@mail.uh.edu.

"COMMUNICATION ACROSS THE ATLANTIC"

An historical perspective of technical innovation
September 15-16th 2006

Sponsored by The Institution of
Engineering and Technology
(formerly The Institution of Electrical Engineers)
The Schenectady Museum and
Suits-Bueche Planetarium
The Institute of Electrical and Electronics Engineers

Friday September 15th

5:30 pm Reception in the Museum Atrium

5:55 pm Welcome: Mr. David Owen, Chairman IET
New England Branch

6:30 pm Lecture: "Early Anglo-American
connections"

Dr. Brian Bowers (formerly Senior Curator,
Science Museum, London, UK)

8:00 pm Dinner

Saturday September 16th

9:00 am Lecture: "The interaction between business
and technology in early trans-Atlantic

cables" Dr. Donard de Cogan (Reader,
University of East Anglia, UK)

10:30 am Coffee and Exhibits

11:00 am Lecture: "Trans-Atlantic radiotelephone
communications – early days"

Mr. Edward Owen (formerly Consulting
Engineer, General Electric Company and
local Historian)

Lecture Abstracts

"Early Anglo-American connections" Dr. Brian
Bowers

Although the first wired connection between America and the British Isles was in 1858, there were important transatlantic contacts between 'electrical' people before then. Joseph Henry and A D Bache visited England in 1837, and conducted experiments with Michael Faraday, Charles Wheatstone and others. Their immediate object was to show that the current from a thermopile could produce a spark. This rather abstruse experiment was part of the research in

which they were all engaged: seeking to understand the nature of electricity, and what it could do. At the time Wheatstone was working on an electric telegraph, and on electric measurements. In partnership with W F Cooke, he patented the 'five needle' telegraph, which went into commercial service in 1838 on a new railway line running west from London. Also in 1838 Samuel Morse visited London and sought, unsuccessfully, an English Patent for his telegraph. He met Wheatstone, whom he described as 'a man of genius and one with whom I personally was much pleased. Thus the telegraph pioneers on both sides of the Atlantic shared some of their early ideas.

“The interaction between business and technology in early trans-Atlantic cables”

Dr. Donard de Cogan

The establishment of the Victorian Internet, the world network of submarine telegraph cables, had as profound an impact in its time as today's internet is having for us. It is interesting to draw parallels. The former was established under the hegemony of the British Empire, while the latter has grown out of pioneering work in the United States. It is equally interesting to observe the differences. The worldwide web uses stable technology that is incredibly cheap, when measured in terms of bits per dollar. It is altruistic and the information is distributed. Cable communications, on the other hand used untested technology that was forced to adapt to the pressures that were put upon it. It was hampered by the limitations, which lack of bandwidth caused and the cost per bit was enormous. In essence, it was dominated by the information conduits rather than by the content. Those who managed the conduits had their limitations and the economic models by which they operated are so different to what we see used today.

In assessing the interaction between the business of communications and the technology by which it was achieved in the period 1866 - 1880 the author is in a unique position. His wife's family claims four generations of telegraph cable operators beginning with her great-great grandfather James Graves was the first superintendent of the Valentia island cable station. In the last century, a granduncle worked for the Italian Cable (Italcable) at Anzio from 1927 until all non-Italian staff were

removed by Musolini. In this talk, use will be made of some novel computer-based methods for the presentation of parallel-themed historical information, which he hopes others might find useful.

"Trans-Atlantic Radiotelephone Communications - the Early Days" Mr. Edward Owen

Telegraphy provided the first means to communicate great distances and with great speed. The telephone later provided a means to transmit human voice in a form recognizable to the human ear. Both of these means of communicating at a distance required a physical wire to act as an electrical conductor from source to receiver. Introduction of radiotelegraphy overcame the need for a wire to send telegraph signals but the great "crashing" spark-gaps were considered essential and did not allow for transmission of human voice. Reginald Fessenden conceived the idea that a continuous-wave (cw) electrical signal could convey human voice without the need for wires. It took several attempts and competition between inventors to finally achieve his objective. In the end, it was Ernst Alexanderson and his alternator for high frequency that provided the cw carrier necessary to transmit human voice over great distance and with great speed.

SMITHSONIAN MIND DATABASE

A new database from the **Smithsonian's Lemelson Center** will guide researchers on where to find invention-related documents and collections. The MIND (Modern Inventors Documentation) database identifies the invention-related holdings of hundreds of archives across the United States and is the nation's first database devoted exclusively to such documents. The collections in the database cover a variety of subjects, with many from medical, consumer, scientific, household and legal fields. With more than 1,600 records when it debuted in May, it is continuing to grow daily as more archives, museums, libraries and historical societies report the contents of their invention-related collections to the Smithsonian for inclusion in the MIND database. Users simply submit a key word to search and if the invention is in the database it will note what materials exist about the invention, which museum, archive or library holds the collection, and how to contact them for more details. Where possible, there is also

information on how to access the collection and a direct weblink to the collection or its holder. Advanced search options allow the user to search by repository, inventor name, or collection title. Users can also search for inventions from a list of over sixty subjects. To access the MIND database or learn how repositories with relevant collections can contribute information about their holdings, please visit invention.smithsonian.org/MIND.

The **Office of NIH History and Stetten Museum** at the National Institutes of Health is pleased to announce the appointment of Joseph A. November as the next DeWitt Stetten, Jr., Memorial Fellow in the History of Biomedical Sciences and Technology. Joseph November, who will receive his Ph.D. from Princeton University this summer, plans to join the University of South Carolina as an Assistant Professor in History. He will spend his fellowship year (2007-2008) at the NIH conducting research sponsored by the Center for Information Technology. His project is titled: "Planting the Seeds: How the NIH Cultivated Biomedical Computing."

We congratulate Mr. November on his appointment.

SMITHSONIAN FELLOWS

The **Smithsonian's Lemelson Center** is pleased to announce four new fellows selected for 2006. Hyungsub Choi (Ph.D. Candidate, Johns Hopkins University) is writing his dissertation on transistor development and manufacturing in the United States and Japan. Joseph Corn (Senior Lecturer, Stanford University) will be doing research for his upcoming book *User-Unfriendly: Consumer Struggles with Personal Technology*. Mara Mills' (Ph.D. Candidate, Harvard University) dissertation analyses the contributions of the deaf and hard-of-hearing to the development of technologies for amplification, sound inscription, and speech synthesis. And Dominique Tobbell (Ph.D. Candidate, University of Pennsylvania) will examine the records of several pharmaceutical companies for her dissertation on the political economy of drug development in the United States. For more information about the Center's fellowship program, please visit:

invention.smithsonian.org/resources/research_fellowships.aspx

CALLS FOR PAPERS

5th IWHA Conference "Pasts and Futures of Water" June 13-17, 2007

The International Water History Association (IWHA) will hold its 5th biennial conference from June 13-17, 2007 in Tampere, Finland with the general theme "Pasts and Futures of Water". The event is co-organized and hosted by University of Tampere (Dept. of History) and Tampere University of Technology, TUT (Institute of Environmental Engineering and Biotechnology, IEEB).

The major themes of the conference are:

- (i) Water and the City
- (ii) Water, Health and Sanitation
- (iii) Water, Food and Economy
- (iv) Water history and the Future of Humanity.
- (v)

First Announcement will be published in June 2006 and can be viewed at: www.envhist.org. **Proposals are to be sent by October 15, 2006.**

For possible enquiries:

victor.pal@uta.fi, eija.vinnari@tut.fi.

The International Water History Association (IWHA) is the leading global organization on water history. Previous Biennial IWHA Conferences were held in Bergen, Norway, at the *Bibliotheca Alexandrina*, Egypt, and at UNESCO Headquarters, Paris, France. The Association deals with water history in all its aspects bringing together historians, geographers, engineers, archaeologists, anthropologists, and water managers. IWHA is committed to bridge the gap between academics and policy makers, and strives to ensure representation from all world regions. To become a member and enjoy the benefits of IWHA membership visit www.iwha.net

**American Association for the History of
Medicine
80th Annual Meeting
Montreal, Quebec May 3-6, 2007**

EMPLOYMENT

**Harvard Divinity School
Watson Professorship in Science and Religion**

The American Association for the History of Medicine invites abstracts for papers in any area of medical history for its 80th annual meeting, to be held in Montreal, Quebec, May 3-6, 2007. The Association welcomes submissions on the history of health and healing; history of medical ideas, practices, and institutions; and histories of illness, disease, and public health. Submissions from all eras and regions of the world are welcome. Besides single-paper proposals, the program committee accepts abstracts for three-paper sessions and for luncheon workshops. Please alert the Program Committee chair (pteigen@nih.gov) if you are planning a session proposal. Individual papers for these submissions will be judged on their own merits.

When making an historical argument state the major claim, summarize the evidence supporting it, and state the major conclusion(s). When proposing a narrative, summarize the story, identify the major agents, and specify the conflict.

The AAHM uses an online abstract submissions system. It is located at <http://histmed.org>. Abstracts--none longer than 350 words--must be received by September 15, 2006. E-mail or faxed proposals are not acceptable.

Presentations are limited to 20 minutes. Individuals wishing to present a paper must attend the meeting. All papers must represent original work not already published or in press. Because the *Bulletin of the History of Medicine* is the official journal of the AAHM, the Association encourages speakers to make their manuscripts available for consideration by the *Bulletin*.

Philip M. Teigen
Program Committee Chair
History of Medicine Division, MSC 3819
National Library of Medicine
8600 Rockville Pike,
Bethesda, MD 20894.
pteigen@nih.gov
301-496-5407

Harvard Divinity School invites applications for the newly endowed Watson Professorship in Science and Religion. Candidates for the position may be at the senior or junior rank. The professorship is intended to advance research and thinking on the interrelations of contemporary science and religion broadly defined. The disciplinary orientation being sought for the position is open; possibilities would include theology, history of science, anthropology, ethics, or philosophy. Likewise, the area of specialty may be focused on any religious tradition or part of the world so long as it concerns the contemporary period. The successful candidate must be able to address a variety of current issues and debates regarding science and religion in his or her teaching. Candidates must have a record of distinguished publications pertaining to science and religion and a commitment to excellence in teaching.

Applicants should hold the doctoral degree, be competent in the appropriate research languages and be able to teach and advise at the doctoral and master's levels. Applicants should also be able to contribute to the Divinity School's degree programs, including its M.Div. program, and be familiar with forms of analysis that address race, gender, and social location. In addition to students in the Divinity School, the successful candidate will also teach undergraduates and graduate students of religion in the Faculty of Arts and Sciences.

Harvard University is an equal opportunity, affirmative-action employer and encourages applications from and nominations of women and/or ethnic minority candidates. Letters of application or nomination, accompanied by a recent curriculum vitae, a writing sample and/or publications should be sent to: Watson Professorship in Science and Religion Search Committee, c/o Ryan Lincoln, Faculty Search Coordinator, Harvard Divinity School, 45 Francis Avenue, Cambridge, Massachusetts, 02138. Review of applications begins, and candidates are strongly encouraged to submit full dossiers by, **December 15, 2006**. Email: facultysearch@hds.harvard.edu.

Naval Research Laboratory (NRL)

Opportunity for a Historian at NRL, Washington, DC.

A Record of Excellence: NRL is a world-class research laboratory established in 1923 for the Navy and Marine Corps. The NRL Historian's mission is to perform all duties related to the funding, staffing, and conduct of the NRL History Program. He or she studies, plans, researches, and writes on the history of NRL. Published work takes a variety of forms, including in-house periodicals, historical and scientific journals, monographs, and/or full-length books. The Historian answers historical reference questions that may come both from employees and from outside scholars or officials. He or she collaborates with the NRL archivist, providing professional guidance and advice on proper preservation of documents, photographs, and material artifacts, and takes responsibility for curating historical artifacts and ensuring that the artifacts, where appropriate, are placed in proper museum and/or depository settings. The Historian also conducts an oral history program that captures the recollections and opinions of NRL's leading researchers, undertakes special projects for NRL's top management, and provides consultation and assistance to other historians, usually through activities in national professional organizations.

Qualifications: The candidate must have a degree in history or related field that included at least 18 semester hours in history; **or** a combination of education and experience-courses equivalent to a major in history, or a major in a related field that included at least 18 semester hours in history, plus appropriate experience or additional education. Graduate study in the social sciences or humanities may also be credited when such study included training in historical research methodology; or the thesis approached the subject from an historical viewpoint and used professional historical research methodology and techniques in its preparation. In addition, the candidate must have 1 year of experience equivalent to the NO-III (GS-11/12) level.

Candidates must be eligible for a Non-Critical Sensitive Security Clearance.

Salary is commensurate with experience (Range is \$76,367 - \$100,745)

NRL IS AN EQUAL OPPORTUNITY EMPLOYER

To submit your resume or for additional information about this opportunity contact: Cindy Stiles,
Phone: 202-767-7878 cstiles@hro.nrl.navy.mil
NRL Human Resources Office

Everyone Needs an Editor

Let freelance editing pro for univ. presses help you polish your project—dissertation/thesis, journal article, or book. Work by phone: 941-795-2779 or email: pollyk1@msn.com.

(Check out my website too at <http://mysite.verizon.net/res8gmrf/>).

We might even have fun!

ELECTIONS

The 2006 ballot is located following the candidate biographies. Once again, SHOT is offering online balloting through the SHOT website. There are links to the online ballot on the main page, the Annual Meeting page, the "For Members" page, and the web version of the newsletter. You must enter your membership number to vote. This is for security reasons only and your ballot is still anonymous in the results database. Your membership number is located above your name on the mailing label of the newsletter.

You may also return the paper ballot from the printed newsletter. Please note that, as with previous years, faxed copies will not be accepted.

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

CANDIDATE BIOGRAPHIES

Vice President/President-Elect

Arne Kaijser, When the Nominating Committee asked me if I were willing to become a candidate in the presidential election in SHOT, I was surprised and at the same time deeply honoured, especially when I realized that if I accepted nomination, I would be the first non-American candidate. Yet I was also hesitant having observed at close range the amount of work, engagement and effort that David Hounshell and Rosalind Williams have devoted to their presidencies. After a few days of thought and conversations with my family and colleagues, I decided to accept the nomination.

The main reason that I accepted is that I feel strongly and positively about SHOT. At my first Annual meeting in 1989, the warm and welcoming atmosphere charmed me. Ever since I have always enjoyed coming to annual meetings. *Technology & Culture* is another reason for my affection: It holds a very high standard and covers a wide range of subjects and perspectives. While serving on the Executive Council 2003-2005, I have also come to appreciate and admire the “inner working” of the society: the enormous amounts of dedicated, largely un-paid, but very professional work done by the officers, and also by the large number of members serving on different kinds of committees and ad hoc groups.

My feelings for SHOT, however, are also somewhat ambiguous. I have at times been frustrated with the strong American bias of the society. “SHOT is an international society – with some foreign members,” as someone succinctly put it long ago. My vision for SHOT has to do with this frustration.

Before I formulate my vision for SHOT, let me first say a few words about myself. I am a Swede living in Stockholm with my wife in an “empty nest” recently abandoned by our three children. My first degree was a Masters in engineering from the University of Lund. In the 1970s I worked for a couple of years in public agencies with futures studies and with planning and funding energy research. In 1980 I joined a new STS-graduate program in Linköping University, and chose to write a historical dissertation

focusing on the first grid-based energy system, namely gasworks. After my dissertation in 1986, I worked for several years with development aid for the energy sector in Africa.

In 1991 professor Svante Lindqvist invited me to come to the Royal Institute of Technology (KTH) in Stockholm and create a new PhD program in the history of technology with him and Professor Marie Nisser. In 1998 Svante left KTH to become Director of the new Nobel Museum, and the following year I was appointed his successor. My current position is Professor of History of Technology and head of the Division of History of Science and Technology at KTH, which presently has a staff of 8 senior scholars and 15 doctoral students. For two terms, 2000-2005, I was also chairperson of the Swedish National Committee for the History of Technology.

My professional experiences have inspired my research, which has largely dealt with the historical development of infrastructural systems. I have studied different kinds of systems in several countries, and I am at present particularly interested in the linking of systems across national borders. I have had the privilege to be a research fellow at the Technical University of Delft in 1993-1994 and at the Dibner Institute in Boston in the spring semester 2001.

Let me now turn to my vision for SHOT. In our Constitution the “founding fathers” of our Society have solemnly declared: “The purpose of the Society shall be to foster interest in the development of technology and its relations with society and culture, and to promote scholarly study of the documents and artefacts of the history of technology.” “Regular Members shall be individuals of any nationality engaged or interested in promoting the study of or teaching about the development of technology and its relations with society and culture.” This is clearly a constitution intended for an international society. However, for almost 50 years, SHOT has been - and still is - very much a U.S.-based Society. Almost 80 % of the members are U.S. citizens. I believe that a society that is so dominated by one country runs a clear risk of a gradual “inbreeding” and blindness for contrasting perspectives.

A few years ago I had the opportunity to see Diego Rivera's magnificent mural painting in the Detroit Institute of Arts. Rivera succeeds in illustrating the River Rouge plant as a central node in a global production system. He depicts the men and women in all parts of the world extracting raw materials from deep below the surface, the ships and trains bringing these materials to Detroit, and finally the workers of all ethnicities transforming these materials into cars by using complex machinery. With a multitude of perspectives Rivera is able to show both the general characteristics of the overall production system and the detailed working conditions for individual workers.

I see Rivera's mural as a call to our field in general and for SHOT in particular. Our task as historians of technology should be to describe and analyse technology in a globalized world in a similar multi-faceted way as this mural. This can, however, not be the task of a single, brilliant scholar but must be a collective effort - and in this collective we need scholars from all over the world.

My vision for SHOT is that it will gradually become truly international and that scholars from all parts of the world will participate in the activities and the intellectual exchanges of our society. Such an internationalisation is crucial for the intellectual vitality of our field and for our ability to understand the world we live in. I believe that many members of SHOT share this vision for a more international SHOT. The challenge, however, is to develop strategies and means for achieving it.

This issue has been discussed for a long time within our Society. In the early 1990s an Ad Hoc Committee suggested a number of measures to this end, many of which have been implemented: annual meetings are now regularly being held outside North America, many non-U.S. members are serving on SHOT committees, there is more coverage of non-U.S. topics both in T&C and in the Newsletter, and an increasing number of travelling grants makes it easier for young scholars outside the U.S. to attend annual meetings etc. So far this internationalisation has primarily meant that scholars from Western Europe have become more involved in SHOT. Now it is time to go further and try to reach scholars from other

regions too, from Asia, Latin America, Africa and Eastern Europe.

While serving on the Executive Council, I chaired a new Ad Hoc Committee on International Development opportunities, in which we discussed possible measures to this end. One of our recommendations is to change the name of the International Scholars Committee to the International Outreach Committee and give it a wider mandate. One of its tasks shall be to nominate International Scholars and encourage them to act as "ambassadors" for the Society in their countries and regions, both by informing the Society about the status and developments of the history of technology in their regions, and by helping to disseminate information about the Society and its activities. SHOT's new website and the eTC publication initiative are both vital for such dissemination of information. Another task of the Committee shall be to help scholars in regions with "fragile" history of technology communities to organize and finance boutique conferences, workshops, summer schools and similar activities that can help create a regional community. A first SHOT-sponsored workshop will soon be held in South Africa.

In this statement I have strongly emphasised internationalisation. Of course, I realise that if I were elected president of SHOT, I would have to deal with many other important issues as well, but I would still see internationalisation as a particularly important task for the first non-American president.

Bill Leslie, SHOT has been at the center of my professional life since graduate school at the University of Delaware. I might be considered an accidental historian of technology, since I applied to study art history, only to be politely told the Hagley Program might be a better fit. I have never regretted that decision, though I have always hoped the art history department does. I wrote my dissertation, on automotive engineer Charles Kettering, under Eugene Ferguson and Lynwood Bryant, then a visiting professor from MIT. I later published a biography of Kettering then turned my attention to science and engineering education during the Cold War. More recently I've been writing about regional industrial history and about laboratory design, so I suppose I did not completely forget my art history. I taught for one year at the Rochester Institute of Technology

then moved to The Johns Hopkins University, where I have just reached my 25th anniversary. I've been a

dean of undergraduate studies, and a member of our elected Academic Council, which decides promotion and tenure cases, and sets academic policy. I've been fortunate in my time here to have worked with some remarkable graduate students, and have strongly encouraged them to become active SHOT members. Along the way I served on many of SHOT's prize committees, on the Executive Council, and as Secretary. This year I am also head of local arrangements for SHOT's annual meeting in Las Vegas—but exactly how that happened is another story.

To serve as SHOT's President would be an honor, but would in no way be honorific. I have seen first-hand how much time and energy our Vice-Presidents and Presidents put into their jobs. To lead SHOT is a serious and time-consuming commitment with its opportunity cost best measured in articles and books that go unwritten. The buck may stop at the President's desk, but the dollars don't. But at the same time, because SHOT's reputation for collegiality is well deserved, it is a rewarding experience. SHOT has never been a top down organization, but rather a society where good ideas flow upwards from our membership. We have consistently sought to provide leadership opportunities for younger members, and to listen and act on their ideas. We figure that anyone resilient enough to network late into the night at the hospitality suite and then rise and shine ready to talk SHOT at the Graduate Student Breakfast early the next morning demonstrates the initiative and stamina we look for in our members.

Less visible but no less crucial to SHOT's future are the initiatives needed to ensure SHOT's intellectual vigor and financial health. We are a bootstrap organization in the best sense. I value our volunteer spirit, though it comes with a cost. We do not have a paid executive director and staff, as do many professional associations our size or slightly larger. We have no development office, no fund manager. We have a very modest endowment. So far *Technology and Culture* continues to generate significant revenue. Still, we are a long way from being self-sustaining. Our best efforts have not yet been able to raise a substantial endowment for our Editorship. The decision to appoint a committee of

former presidents to lead this effort is an excellent beginning. Obviously, we must sustain the Campaign

for SHOT, since charity begins at home, but we may have to rethink our strategy by giving more attention to foundations with interests in education and public affairs. As an international society, we should be thinking globally about money as well as membership. With the Editor's search set to begin two years from now, we need Plan B and Plan C to go along with Plan A, the endowment. I believe we can find a home for *Technology and Culture* that will provide a top quality Editor with sufficient financial resources. The answer may well be collaboration, perhaps even an international collaboration.

We should not forget that SHOT will also need a new Secretary and a new Treasurer in the years ahead. The challenge here is in convincing the best-qualified candidates to consider serving. We can't wait for volunteers; we have to cultivate them. A Secretary today is going to need to be web savvy, since our web presence is increasingly essential. We can't be discouraged about being turned down on our first NSF proposal for our electronic initiative. Being a member of the American Council of Learned Societies gives us the opportunity to learn from the mistakes, and the successes, of similar professional societies. Who should know better than historians of technology about reinventing the wheel? We may well discover that collaboration with other societies is the key.

I consider one of SHOT's primary missions to be education. I would like to see more attention paid to our middle and secondary school audience. I offer a course each year for Teach for America volunteers. A surprising amount of what these young teachers need to learn to meet national educational standards is what we already know. We can only reach these teachers, and their students, in partnership with educational professionals who understand how the history of technology, broadly defined, can contribute to the social studies curriculum. The NEH summer seminars are the ideal venue.

We have made good on our pledge to become a more international organization, at least in Europe. I have made Asia a target for my department, raising funds for an endowed chair in the history of East Asian Science and Technology and for a graduate exchange program with East Asian universities. We will also

offer a summer school next year at the National University of Singapore in cooperation with Greg

Clancey. My impression from recent lectures and conferences in Japan and Korea is that interest in the history of technology is growing rapidly. We need to tap into that interest and expertise. In the not so distant future we should seriously consider scheduling an upcoming SHOT meeting at an Asian venue.

SHOT has always been a coalition of the willing. Intellectual synergy means that the whole really can be greater than the sum of the parts. Otherwise, what's the point of a professional society? We accomplish something collectively as well as individually. I welcome the challenge of encouraging that synergy, within SHOT and among SHOT and other organizations. Win or lose, I look forward to giving my best efforts to SHOT in the years ahead. Win or lose, I look forward to welcoming you to fabulous Las Vegas this fall. What happens in Las Vegas this year doesn't have to stay in Las Vegas.

Executive Secretary

Amy Sue Bix, Iowa State University, Ames IA, USA. I am an Associate Professor in the Department of History and co-director of our graduate program in the History of Technology and Science (HOTS). I have published on a variety of subjects in the history of technology, science, and medicine, and I am completing a book on the history of women's engineering education in the United States. I have been serving as secretary of SHOT since January 2004 and am ready to stand for a two-year extension of my term as provided under the SHOT Constitution. SHOT is currently at an exciting time, as we accelerate plans for celebrating our fiftieth anniversary, expanding SHOT's web presence, extending our international outreach, and other new initiatives. Changing secretaries at this juncture would mean a physical relocation and institutional disruption in SHOT's office work that could hamper the smooth running of our society in these crucial anniversary years. Our SHOT office at Iowa State University is well-established now, and we hope to continue our best efforts to meet the needs of SHOT as a society and of individual members. Over the last three years, I have learned a great deal about all the behind-the-scenes work needed to run SHOT –

everything from posting website announcements and shepherding SHOT's prize committees to negotiating

the many, many details of organizing our annual meetings. I look forward to continuing to work with SHOT's excellent officers and members for another two years.

Treasurer

Richard Hirsh is a professor of History of Technology and Science & Technology Studies at Virginia Tech. His academic background is rather unusual, having pursued both science and history in college and graduate school. While he has an undergraduate degree in American history, he picked up a Master's degree in Physics and a Ph.D. in History of Science from the University of Wisconsin. He worked as a research fellow at the Smithsonian Institution's National Air and Space Museum and at the Harvard Business School.

Though writing about astronomy performed from outer space in his dissertation and first book, Richard changed topics and began work on the recent history of the utility system. In 1989, he published *Technology and Transformation in the American Electric Utility Industry* (Cambridge University Press), which was followed by *Power Loss: The Origins of Deregulation and Restructuring in the American Electric Utility System* (MIT Press) in 1999. He continues to pursue research and writing on electricity policy.

Since 2001, Richard has served as treasurer of SHOT. He seeks reelection during a time when SHOT's finances are sound, but when the organization faces several challenges in the near future. The challenges include providing a solid financial basis for SHOT's fiftieth anniversary celebration and for the transition to a new editor of *Technology and Culture*. He also enjoys finding ways to enhance SHOT's income so the organization can successfully pursue its many goals.

Executive Council

Rebecca Herzig My first exposure to SHOT came at the 1994 meeting in Lowell, shortly after I began doctoral studies in MIT's Program in Science, Technology, and Society. I have enjoyed SHOT's

rare combination of warm camaraderie and intellectual vitality ever since. I am now Associate Professor of Women and Gender Studies at Bates

College in Maine, USA, where I teach lecture courses and seminars on topics such as "Technology in U.S. History" and "Technologies of the Body." When I can make time for research, it tends to focus on the relationships between "technology" (both as specific material objects or processes and as an abstract concept) and changing understandings of personhood. Recent publications on these themes include the review essay "Gender and Technology," in *A Companion to American Technology*, edited by Carroll Pursell (Blackwell, 2004); and "The Matter of Race in Histories of American Technology," in *Technology and the African-American Experience*, edited by Bruce Sinclair (MIT, 2004). I am currently working on a book-length history of "personal care" technologies, tentatively titled *The Affliction of Freedom*.

As SHOT rounds the bend on its first half-century, how might we best ensure the Society's continued flourishing? If elected to Executive Council, I would begin from the assumption that enacting our oft-stated commitment to "diversity" is central to our ongoing relevance and significance. I can imagine multiple paths by which to gain further traction in this respect: securing additional funding to support research on non-Western or non-Northern topics; recruiting scholars from traditionally under-represented racial and/or ethnic groups to the Society's governing committees; locating our meetings and workshops in places other than North America and Western Europe; and remaining welcoming and financially accessible to historians working in a wide array of institutional conditions: independent scholars, public historians, high school teachers, adjunct/temporary faculty, etc. I would work equally tirelessly for the related but distinct goal of enhanced intellectual pluralism. I long for open-minded and vigorous debate, and view substantive disagreement as the sign of our scholarly vitality. I would hope to nourish such vitality by strengthening SHOT's existing ties to the fields of industrial archeology, history of science, and social studies of science, while weaving new connections with scholars working in areas such as legal theory, cultural anthropology, and bioethics.

Sungook Hong teaches the history of science and technology at Seoul National University, Korea where he is professor and director of the Program in

History of Science and Technology. He was a former faculty member of the Institute for the History and Philosophy of Science, University of Toronto. He has been working on the history of wireless telegraphy and electrical engineering, and has published several articles and books on these topics including *Wireless: From Marconi's Black-box to the Audion*. His recent contributions include "The Korean 'Peace Dam' and the Politics of Technology" (paper read at the 2004 SHOT annual meeting, Amsterdam) and "Marconi's Error: The First Transatlantic Wireless Telegraphy in 1901" *Social Research* 72 (2005). Prof. Hong was awarded SHOT's IEEE Life Member's Award in 1996. He is now completing his second monograph (in English) on the development of electrical engineering.

As a member of the SHOT's Executive Council, he plans to strengthen SHOT's international collaboration with the East Asian communities of historians of technology, and encourage East Asian scholars to contribute to SHOT's various activities.

John Krige I have been the Kranzberg Professor in the School of History, Technology and Society at the Georgia Institute of Technology in Atlanta, Georgia since 2000. I was also the Charles A. Lindberg Professor in Aerospace History at the National Air and Space Museum in Washington D.C. and the Nat C. Robertson Visiting Professor in Science and Society at Emory University, Atlanta. This fall I will be a Davis Fellow in the history department at Princeton University. Before coming to Atlanta I spent five years as Director of the Centre de Recherche en Histoire des Sciences et des Techniques at La Cité des Sciences et de l'Industrie, Paris, France and five years as senior research fellow at the European University Institute, Florence, Italy. My main research area focuses on the place of science and technology in the postwar reconstruction of Europe. Much of my earlier work was devoted to the history of two important intergovernmental organizations, CERN (the European Organization for Nuclear Research) and ESA (the European Space Agency). Since moving to Atlanta I have expanded my problematic to incorporate the role of the US in defining European scientific and technological

trajectories in the civilian sector. My most recent book, *American Hegemony and the Postwar Reconstruction of Science in Europe*, will be

published by the MIT Press in 2006 and my next book is tentatively entitled *Securing Empire, Sharing Technology: US-European Relations in Space in the 1960s*.

The graduate students of today are the professional historians and sociologists of technology of tomorrow. SHOT has an enviable record of supporting graduate students financially and intellectually. I would like to see this support extended and consolidated. In particular, if elected, I would like to help SHOT do more to professionalize graduate students, both by providing practical advice on how to promote themselves (Paul Edwards' posting on the SHOT website on how to give a talk is a fine example of what I have in mind), and by collecting data, albeit partial and tentative, on the state of the job market. My aim would be to have SHOT help students to think strategically about their careers from day one of their graduate studies.

David Mindell I am Dibner Professor of the History of Engineering and Manufacturing, and Professor of Engineering Systems and Director of the Program in Science, Technology, and Society at MIT. Research focuses on the relationships between people and machinery in a variety of historical settings. My first book, *War, Technology, and Experience aboard the USS Monitor* (2000) was awarded SHOT's Hacker Prize and has been recently made into a documentary by the BBC. My second book was *Between Human and Machine: Feedback, Control, and Computing before Cybernetics* (2002) and my next, *Digital Apollo: Human and Machine in Six Lunar Landings* (MIT Press, 2007) explores relationships between identity, heroism, and automation in the Apollo program. I am a member of the NASA Historical Advisory Committee and of the editorial board of *IEEE Spectrum* magazine, and have served on a number of SHOT prize committees. For the past two years I have been a part of MIT's Task Force on the Undergraduate commons, a once-in-forty-year effort to reform MIT's undergraduate curriculum and integrate it with a new humanities core. Additionally, I direct a research group in technology and archeology in the deep sea that is currently exploring

Aegean Sea to map networks of trade, technology, and communications in the Greek Bronze Age.

As the director of a major STS program, my interest in SHOT is the intellectual direction of the field, and in helping to lead the field into exciting, relevant new directions. There is a great demand for sober, scholarly understanding of the evolution of technological systems, a demand so great that we are (happily) struggling to keep up with it at MIT. Engineers increasingly realize that profound social problems must be addressed by a mix of engineering and humanistic knowledge, and that leaders in the world of technology must be broadly educated in order to lead communities outside their technical foci. SHOT can play an important role in articulating the role of such dual-disciplinary thinking and in helping set an intellectual agenda for training leaders in the world of science and technology. But it must do so from a base of the highest quality scholarship, one that is able to communicate its results to other academics and to the public at large. I also have an interest in broadening the scope of the field beyond the last few hundred years and bringing SHOT's insights in technology to the full scope of human evolution in the ancient, Neolithic and Paleolithic worlds.

Edmund Russell, I am an associate professor at the University of Virginia with a joint appointment in the department of science, technology, and society and the department of history. My research has focused on the intersection of history of technology, environmental history, and history of science. My first book, *War and Nature: Fighting Humans and Insects with Chemicals from World War I to Silent Spring* (Cambridge, 2001), won SHOT's Edelstein Prize. Other products of that project won prizes from the American Society for Environmental History and the Forum for the History of Science in America. With Richard Tucker, I co-edited *Natural Enemy, Natural Ally: Toward an Environmental History of War* (Oregon State, 2004). My current project focuses on the history of biotechnology; its uses dogs in Britain in the nineteenth century as a case study of why and how humans have shaped other species to do work. For SHOT, I am a member of the advisory board of *Technology and Culture*, the Edelstein Prize committee, and Envirotech.

In addition to a commitment to the overall welfare of an organization important to me since graduate school, I would bring to the SHOT executive council

several specific priorities. First, we should build on SHOT's tradition of welcoming new members and enhance the size and diversity of the membership.

We might, for example, schedule a time and place where first-time SHOT meeting participants could rendezvous with longer-term members to go to meals together, and we might sponsor visiting lectures at institutions that have traditionally served minorities. Second, we should continue SHOT's commitment to publishing and recognizing research of the highest caliber. Third, we should continue to develop our links with other fields, including engineering. Some of the most exciting new research comes at intersections with other fields. Calls for papers, for example, might encourage roundtables on the relationship between history of technology and other disciplines in and outside of history. We have an important role to play in engineering education, and the new interest group in this area is an important step forward. Finally, we should continue the society's commitment to international meetings, members, and research. I would like to see us create new ways to encourage scholarship and collaboration with Asia, Africa, and Latin America as well as our traditional strengths in Europe and North America.

Karin Zachmann, I am an associate professor in the Institute for the History of Technology at the Technical University Munich, where I teach the history of technology to engineering students, economists and historians of science and technology. I received a doctorate from the Technical University Dresden and a second doctorate (habilitation) from the Technical University Darmstadt. My publications include books and articles in the area of technology and gender studies. My most recent book, *Mobilisierung der Frauen: Technik, Geschlecht und Kalter Krieg in der DDR* (2004), received an award from the Deutsches Museum Munich. Currently Ruth Oldenziel and I are editing *Kitchen Politics in the Cold War: Americanization, Technological Transfer, and the Reconstruction of European Consumer Society in the Twentieth Century*. Shortly after the Berlin Wall came down I was granted a fellowship by the German Marshall Fund to visit the U.S. I came to

know SHOT as an open, integrative society that helped me get involved with a new academic community from which I had been forcefully separated for many years. I was selected as an

International Scholar, served on the program committee and on the Edelstein prize committee. If elected to the Executive Council I would like to work to further expand the society's international membership, particularly in Eastern Europe. I would also like to serve as a liaison with the German academic culture, working to inform them of SHOT members' varied and broad approaches to studying the history of technology. SHOT's openness to new perspectives and willingness to integrate different experiences makes this an exciting prospect.

Nominating Committee

Atsushi Akera is Assistant Professor of the history of technology in the Department of Science and Technology Studies at Rensselaer Polytechnic Institute, where he has taught since 1999. He has been involved with the history of technology for some time, having begun his undergraduate degree in MIT's STS Program in 1982. He received his PhD from the University of Pennsylvania in 1998, and has been the recipient of the Charles Babbage Institute's Adele and Erwin Tomash Fellowship in the History of Information Processing, and the IEEE History Center Fellowship in Electrical History. He has been an active member of SHOT since 1991, and has served on the Kranzberg Fellowship Prize Committee since 2004 (chairing it in 2005). He also serves on the editorial board of the *IEEE Annals of the History of Computing*. His publications include „IBM's Adaptation to Cold War Markets: Cuthbert Hurd and His Applied Science Field Men,” *Business History Review* (2001); and „Voluntarism and the Fruits of Collaboration: The IBM User Group, Share,” *Technology and Culture* (2002). His forthcoming book, *Calculating a Natural World: Scientists, Engineers, Computers and the Rise of US Cold War Research* is scheduled to appear with MIT Press in 2006.

Being a relatively junior scholar, but with a long history of involvement with SHOT, I feel I can help span the several generations of scholars who constitute our organization. At present, the general integration of postmodern and poststructuralist theory into historical scholarship; recent efforts to more fully

embrace the cultural and political dimensions of technology; and the interdisciplinary character of many of the articles published in recent volumes of *Technology and Culture* all point to new directions

for SHOT. As Leo Marx reminded us some time ago, the history of technology is not a straightforward field but our and SHOT's identity, rests on a common topical interest, where the vitality of the organization depends on our ability to navigate through and establish our relevance in relation to broader social and intellectual currents. Those who know my scholarship will recognize that in saying so I am not simply advocating for the latest trends, but a balanced approach that fosters a respect for different intellectual traditions, both old and new. As a member of the nominating committee, I would hope to help identify an appropriately diverse slate of candidates, as well as to initiate the conversations that will help foster mutual respect for the different approaches to the historical study of technology.

Kevin Borg, James Madison University, VA, USA. I am an Associate Professor in the Department of History at James Madison University where I teach US History and history of technology courses. I am also active in our growing Public History program and coordinate student internship placements in museums and historical agencies from Washington, DC to southern Virginia. My research and reviews have appeared in *Technology and Culture* and *Journal of American History* and I currently have a book in press with Johns Hopkins University Press. I have been an avid and active member of SHOT since graduate school, presenting my research and chairing sessions at SHOT Annual Meetings, serving on and chairing the SHOT Site Selection Committee, and currently chairing the Dibner Prize Committee. Shot has been my intellectual home and I welcome the opportunity to serve on the Nominating Committee. I would like to see SHOT maintain the open and creative climate it has long fostered by bringing together individuals of various disciplines, institutions and nations who share an interest in the nexus of the tangible and intangible components of human history. At the same time, SHOT needs to continue nurturing cooperative links to sister disciplines and organizations and make the insights of our scholars available and accessible to the public dialog. If elected to the Nominating Committee, I will do my best to influence these trends.

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

CHANGES IN CONSTITUTION

The SHOT business meeting at the Minneapolis annual meeting in October 2005 approved the constitutional changes that had been proposed as described in the July 2005 newsletter, relating to changes in membership categories, notification of special meetings, and details of wording. For an updated version of the SHOT Constitution, please check the SHOT website.

2006 SHOT BALLOT—VOTE HERE

After marking your ballot, detach it and fold it in half, then tape it closed on all three open sides. **Please affix a first-class stamp** as indicated on the reverse side and mail it to the SHOT Secretary's office by **September 8, 2006**. Alternatively, an online ballot is available through the SHOT website through September 8, 2006.

Vice President Pres-Elect

Two-year term

Vote for 1 out of 2:

_____ Arne Kaijser

_____ Bill Leslie

Nominating Committee

Three-year term

Vote for 1 out of 2:

_____ Atsushi Akera

_____ Kevin Borg

Executive Council

Three-year term

Vote for 3 out of 6:

_____ Rebecca Herzig

_____ Sungook Hong

_____ John Krige

_____ David Mindell

_____ Ed Russell

_____ Karin Zachmann

Executive Secretary

Two-year term

_____ Amy Bix

Treasurer

Two-year term

_____ Richard Hirsh

Your ballot must be postmarked no later than September 8, 2006. No faxed copies will be accepted.

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c/o Cynthia D. Bennet
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618 Ross Hall
Ames, IA 50011**

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CONSTITUTIONAL AMENDMENT

SHOT officers, the SHOT Executive Council, and the SHOT Internationalization Committee have been working to re-examine SHOT's International Scholars program, with the aim of updating and clarifying its guidelines and strengthening the program to support SHOT's goals for international outreach. The Executive Council of SHOT recommends the following changes to SHOT's Constitution. Many thanks to Karen Freeze, Arne Kaijser, Daryl Hafter, Tom Zeller, Aristotle Tympas, Eden Medina, and Terry Reynolds, who worked on this matter. We will discuss and vote on these amendments at the SHOT Business Meeting in Las Vegas scheduled for Saturday, October 14, following the last afternoon session and before the banquet. Please read the proposed changes carefully and remember that if you wish to consult the current SHOT Constitution, it is available on our website at:

<http://www.historyoftechnology.org>

Proposed Constitutional changes to reflect SHOT's initiative to extend the membership base in order to develop the field globally, especially in regions where it is weak, or where scholars have less opportunity to enter into discourse with their peers in the United States and Western Europe. The main tools at our disposal are (a) financial support for membership and attendance at SHOT meetings; (b) encouraging our members to actively recruit colleagues outside of the U.S. and Western Europe.

ARTICLE III, SECTION 2:

Eliminate the current part reading: " International Scholars shall be selected in one of two ways. The first procedure will involve selection by a Committee on International Scholars, which shall choose up to

seven International Scholars each year from a list of nominees and applicants. Individuals may be nominated by any member of SHOT, or may nominate themselves; notices describing this process will appear in the newsletter and in Technology and Culture. The actual selection shall be made in July. The second selection procedure shall be the choice of up to three additional International Scholars each year by the president of the Society. The president shall consult the list of nominees used by the Committee

on International Scholars, but shall not be required to make selections solely from the list."

Add a sub-section (c) to Article III, Section 1, with the following wording: (c) "International Scholars shall be selected and have privileges as covered in Article X below."

ARTICLE IX, SECTION F: *Replace* current wording with:

(f) The International Outreach Committee shall consist of six members, including a chairperson, all appointed by the President. Committee members shall serve staggered three-year terms, two members retiring and the same number being added each year. The tasks of this committee are outlined in Article X.

ARTICLE X. *Replace* current wording with:

ARTICLE X. INTERNATIONAL OUTREACH

Section 1. The Society is international and welcomes scholars from all nations as members. The task of the International Outreach Committee is to recruit scholars in parts of the world currently underrepresented in SHOT membership, in order to bring their perspectives into the Society's intellectual discourse.

Section 2. Each year the Society shall designate up to four International Scholars for a two-year term. They must reside and work in underrepresented countries at the time of their selection. Graduate students, post-docs, and visiting scholars who are living and working in the United States or Western Europe are not eligible to become International Scholars;

however, they are eligible to apply once they return to their home countries.

Of these potential candidates, anyone at any rank, from graduate student up through senior scholar, is eligible to become an International Scholar. Individuals may be nominated as International Scholars by any member of the Society, and we also encourage self-nomination. In consultation with the President and Secretary, and in accordance with criteria established by the Executive Committee., the International Outreach Committee shall be responsible for the selection of the International

Scholars, with the selection to be approved by SHOT's Executive Council.

Section 3. International Scholars shall receive regular membership at no cost during their two-year term. International Scholars shall act as ambassadors for the Society in their countries and regions, both by informing the Society about the state and developments of the history of technology in their regions, and by helping to disseminate information about the Society and its activities.

Section 4. The International Outreach Committee shall help scholars in regions where the history of technology is institutionally weak to organize conferences, workshops, summer schools and similar activities that may stimulate the development of a history of technology community.

Section 5. The International Outreach Committee shall survey and examine the regular activities of the Society in order to ensure that they support the Society's outreach ambitions. In its annual report to the Executive Council, the Committee shall include recommendations for ways to enhance SHOT's international outreach process.

of some recent T&C material. Please update your links and bookmarks, and check the new address regularly for the latest on the annual meeting and other information.

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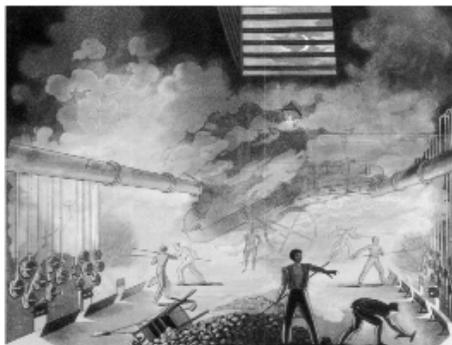
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