



NEWSLETTER

OF THE SOCIETY FOR THE HISTORY OF TECHNOLOGY

No. 117, n.s., July 2008

SECRETARY'S MESSAGE

Historians certainly know how to make the most of history! Our great annual meeting last autumn in Washington, D.C. offered lots of special fiftieth-anniversary events, from our NSF-sponsored "big questions" workshop, to our Da Vinci roundtable and more. But for those of you unable to attend or who want even more, here's a reminder that our upcoming meeting in Portugal will be an official continuation of our anniversary celebration. After all, SHOT wasn't founded in one day; it took time to get ourselves organized, incorporated, and to start publication of *Technology and Culture*, so our commemoration can be similarly stretched out. It's especially thrilling to mark this anniversary with one of SHOT's regularly-held meetings outside the United States, both a symbol and a tangible contribution to SHOT's continued commitment to internationalization in both our membership participation and our intellectual discussions.

This upcoming meeting in Lisbon will be in a unique setting, a naturally beautiful site that adds a vibrant modern touch to a city with centuries of rich history. Our meeting hotel is located along a lively waterfront filled with outdoor cafes, modern architecture, and tempting paths for strolling or jogging, yet within convenient public transport reach of fascinating older neighborhoods. Our local arrangement committee, masterfully headed by Maria Paula Diogo, has planned some terrific local events, including a sampling of Portuguese wine. One tour option focuses specifically on Lisbon's technological history, including its famous funicular and the city's water distribution system. Those interested in water can also choose a tour of the Alqueve Dam, with Western Europe's largest reservoir, or also a visit to

Lisbon's water museum and a walk along one of its most well preserved aqueducts. Other options include a visit to the Marques da Fronteira palace and its spectacular gardens. A special tour along the Tagus River will highlight a fifteenth-century tide mill for flour manufacture, a nineteenth-century gunpowder factory, a twentieth-century steel furnace, and a cork facility. For a real local flavor, be sure to

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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

sign up for our conference dinner, which will be held across the Tagus River, crossing via the gorgeous cable-stayed Vasco da Gama bridge, Europe's longest. Along the way, you'll have the chance to see the birds and salt-fields of the Tagus estuary reserve. At dinner, you'll enjoy not only the delicious Portuguese cuisine but also the best local music, a live *fado* concert by one of the country's top musicians.

We have information about the meeting schedule both in this newsletter and online; please double-check this carefully, since our standard weekend plan has been altered somewhat to accommodate both the holiday of Yom Kippur and the practical details of a non-US location. One thing that hasn't changed, however, is the strength and diversity of our sessions, with a program assembled by Martina Hessler (chair), Paul Ceruzzi, and Tiago Saraiva. For continued updates to our program and more details about the meeting schedule, please visit the Lisbon meeting website accessible through SHOT's main web pages. Also here and online, you'll find more information about registration, travel, the banquet, book display, SIG meetings, sightseeing options, and more.

This wouldn't be a proper July newsletter without the now standard but still essential reminder that this time of year marks our SHOT elections. While each year's elections are crucial, we hope that every one of you in our fiftieth-anniversary year will show your ongoing commitment to our society by taking two minutes to cast your vote. 2008 represents a SHOT presidential election year. Over recent years, the post of president has become ever more vital to ensuring the wellbeing of our increasingly complex organization. Steve Usselman, Rosalind Williams, David Hounshell, and all of our previous officeholders have dedicated enormous energy to assessing how SHOT can extend its value and reach. Our nominating committee, superbly chaired this year by Atsushi Akera, has proposed two excellent presidential candidates committed to continuing SHOT's progress into another fifty years. The choice will be a difficult one, but please help make it – you can find the ballot not only in this newsletter, but also online, with easy access through the SHOT website and through email links on the SHOT listserv. Here in this newsletter, you'll also find biographical sketches contributed from all our candidates. Many

thanks to all of them for agreeing to run and to help with the work that keeps SHOT going – now it's up to each of you to do your part and cast your vote!

Amy Sue Bix
Iowa State University

WELCOME TO LISBON

The Portuguese Organizing Committee is pleased to host the SHOT 2008 Annual Meeting in Lisbon, the westernmost city in mainland Europe.

All sessions will take place at the *VIP Executive Art's Hotel*, located in Parque das Nações. This neighborhood was an industrial area until 1994, when it was chosen as the venue for the last World Exhibition of the 20th century. The Expo 1998 was dedicated to the oceans, and reminded the world of the Portuguese role in discovering new worlds beyond European territories. After the Expo, the whole area was redesigned and it is now one of the most vivid Lisbon business centers. It offers an impressive Oceanarium, convenient access to fine and diversified restaurants, a pleasant shopping mall and leisure activities. We strongly encourage SHOT participants to walk or jog along the river at sunrise or at sunset. If you want to visit old Lisbon, the underground is just about five minutes walking from the hotel.

Lisbon is a city with a long history, dating back to the Neolithic era. Iberians, Celts, and Phoenicians lived and traded in Lisbon. The Greeks named the city Olissipo, after their hero Ulysses, who supposedly had founded the city after leaving Troy. The Greek Olissipo became the Roman Felicitas Julia, a powerful and rich city of the province of Lusitania. By the middle of the 4th century, as it slowly happened in all the empire, Lisbon became Christian. After the fall of the Roman Empire, Lisbon was ruled by different barbarian tribes such as the Alans, the Vandals, the Suevi and, finally, the Visigoths. The Visigothic *Ulishbona* was conquered by the Moors in 711, becoming the flourishing city of *al-I_b_nah*, until the Christian crusaders took the city in 1147.

Being located near the sea, in the large river Tagus estuary, more or less in the center of the new

Christian Kingdom of Portugal, Lisbon became its capital in 1255. The city expanded substantially during the Middle Ages and became an important trading post with both northern Europe and Mediterranean cities. The expeditions of the Age of Discovery left from Lisbon from the 15th to the 17th centuries.

In 1755, Lisbon became tragically renowned because of the earthquake and the tsunami that hit and destroyed a significant area of the city. This event, which was considered by the European intellectual elite the most powerful demonstration of the romantic concept of nature, reshaped the face of the city. The Marquis of Pombal, a man of the Enlightenment, rebuilt Lisbon in accordance with the new spirit of rationality and set the basis for a modern, European city.

The rich history is easily captured throughout the city. Roman architectural remains, as well as a necropolis can be visited under the bus streets of downtown; Alfama and Mouraria are unspoiled Muslim neighborhoods; Medieval Christianity is well represented by the Saint George Castle and the Sé (the main cathedral); we can feel the spirit of the Enlightenment when walking along the streets of downtown and enjoy the atmosphere of the 19th century liberal cafés at Chiado (do not miss *A Brasileira*, a café where 19th century architecture is enriched by Portuguese contemporary art).

Although Lisbon is a small city, it is often difficult to wander around. It is not by chance that Lisbon is known as the city of the seven hills, which means that to reach some interesting spots you have to climb quite a lot. The old neighborhoods (*Castelo*, *Graça*, *Alfama*) are served by trams, a nice and easy way to move within the old Lisbon, and also by small buses. In the more modern areas, the metro is the most convenient way to go from one place to the other. As in most modern cities a Tourist Bus allows you to hop in and out during a day and sightseeing the town.

Museums are getting more and more important in the Lisbon tourist profile. We are very pleased to announce that all SHOT participants and accompanying persons will have free entrance or a discount in most of the technological and scientific museums as well as in some art museums. The Tile Museum, the Electricity Museum, the Water

Museum, the Chemical Laboratory (at the Science Museum) cannot be missed. The Oceanarium just near the hotel is a must, and the Coach Museum is beautiful and attractive. On the Fine Arts side, the Calouste Gulbenkian Foundation, the Chiado Museum, the Berard Collection (at the Centro Cultural de Belém) and the new Museum of the Orient are really worth visiting.

If you are planning to explore the outskirts of Lisbon, Sintra is one of the top choices. This small village has wonderful gardens and castles, breathtaking views and a unique romantic atmosphere.

Lisbon is also known as the white city because of its unique light. Its bright light is particularly impressive during summer but we hope that SHOT will still experience it during October. Normally the weather is warm (73°F/23°C), but wind may be quite strong, especially in the evening (a sweater or light coat are welcome).

The high quality of the scientific program of SHOT Lisbon promises a vivid and stimulating meeting. However, after feeding our brains, we still have to feed our stomachs. The Portuguese cuisine has a wide variety of fresh fish from the Atlantic, traditional cheese and bread, beef and rich desserts. An enormous variety of wines, white and red and the exquisite "green wine", from all over the country are also worth drinking. The *Lisboetas* (Lisbon inhabitants) are tireless consumers of expresso coffee—the *bica*—quite strong and foamy. Lisbon offers an enormous variety of restaurants in every neighborhood. As we are in Southern Europe lunch and dinnertime are a little bit later than in the USA or in Northern Europe. Usually lunch is around 1:30 p.m. and dinner around 8:30 p.m. During weekends, lunch around 2:00 p.m. and dinner at 9:00 or 9:30 p.m. are usual.

Regarding the Lisbon Meeting, the traditional sequence of events was kept, such as the Plenary Session and the Presidential Address. New sessions were organized, mainly in a reaching out/future perspective: Tensions of Europe (ToE) will sponsor the Welcome Reception on October 11, presenting the main lines of this research project; the Amadora Comics Festival will sponsor the reception on October 12, following the SCi-Tech-Fi/History of Technology roundtable; some works of young artists

interested in SCi-Tech-Fi will be displayed at the lobby of the hotel. The traditional banquet will take place on October 13. By sunset, a bus will take participants to the other bank of the River Tagus. Dinner includes typical Portuguese food and a Fado session by one of the most renowned Lisbon Fado guitar players, Mário Pacheco. After dinner we still have the traditional American Hospitality Suite.

On the first and last day of the meeting, technologically related tours, mixing tourism and history of technology, will be available to participants: three tours on October 11 and two on October 14. All tours include a small snack and drinks. Portuguese historians of science and technology will be serving as guides. (Tour information follows.)

For details on the Lisbon SHOT meeting please visit our website at www.shotlisbon2008.com where detailed information on the meeting is available (registration form, program, social events, tours, SIG meetings, information about Lisbon, etc.)

Throughout the meeting, secretarial staff and a help desk will be available to help you with our local knowledge. The members of the National Organizing Committee will do their best to meet your needs and expectations during the conference and your stay in Portugal. This is a golden opportunity to explore and enjoy the Portuguese warm climate, have a taste of Portuguese culture and enjoy the atmosphere of Lisbon.

SHOT BUSINESS MEETING

The SHOT Business Meeting will be held on Tuesday, October 14 from 8:00-8:30 a.m. All members are invited to attend.

SHOT Website Annual Meeting Page

Our main SHOT website:

<http://www.historyoftechnology.org> has a link connecting to the SHOT annual meeting webpage: <http://www.shotlisbon2008.com>

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.

General Information

Passports and Visas

A valid passport is required (identity card for European citizens). Visa is not required for citizens of the USA, Canada and many other countries. For further information refer to www.sef.pt.

Language

Portuguese is the official language; English, Spanish and French are widely spoken.

Local time

One hour behind European Central Time.

Currency

The Portuguese official currency is the Euro.

Vaccination and Health

Generally speaking you will not need any vaccinations to visit Portugal. If in doubt please contact your travel agent or the local Portuguese Embassy. EU citizens can obtain a refund of most medical costs by using form E111, which is available from Post Offices, Health or Social Security offices in your country.

Lisboa Card

Free access to public transport, museums and monuments. Discounted admission to other sights of interest.

Lisboa Welcome Center

In the heart of the city, at Praça do Comércio Square, you will find the Tourism Information Center with bureau of change, a café and shop with local handicrafts.

Regulations

The **SHOT 2008 Annual Meeting** is being organized on behalf of SHOT by the National Organizing Committee in Portugal (Lisbon).

Program Changes

Any changes to the program will be announced on the conference website and during the conference at the information desk.

Registration

Participants should register through the conference website, by completing the form that will be available soon on the website. Registration is considered operational only after the organization receives the payment. All participants presenting papers, chairing, or commenting in sessions must register for the conference. Those who have not registered by **September 6** cannot be guaranteed a place in the program. The number of people who can attend some of the social events – tours and dinner - is limited. Registration for any of these events and tours will be processed as they reach the secretariat. When the maximum number of participants is reached, no more registration will be accepted. Accompanying persons planning to attend social program events must register individually for the awards banquet, tours, etc. The non-member registration fee includes one-year membership in SHOT. The National Organizing Committee will submit the membership information to SHOT.

Payment

Payment will be available by credit card (MasterCard and Visa) in secure mode system or by bank transfer. If you plan to pay by bank transfer please be sure that:

The total amount of the fee has been credited to the conference. Expenses should be paid by you; your name has been **clearly** mentioned in the form with the bank. Payments not identified cannot be considered.

All payments must be in Euros. If you have any doubts please feel free to contact us at: fhaan@shotlisbon2008.com

Refund Policy

Participants who cancel their registration are subject to the following conditions:

for cancellations before August 1, a full refund minus 25 EUR for administrative costs

for cancellations between August 1 and September 1, a 50% refund

for cancellations after September 1, no refund

If the organization of the conference is forced to cancel the conference, participants who have registered will receive a full refund. If any of the tours are cancelled, participants who have registered will receive a full refund for the cancelled tour. The organization will pay this refund in cash at the registration desk.

Hotels

Participants must book their own accommodation. The organization is not responsible for hotel booking. As mentioned before we recommend your early registration (see Hotel Reservation Information).

Liability

Participants are responsible for the damages she/he causes during the conference. The organization of the conference is not responsible for damages sustained by participants or other people during the conference, unless this damage is caused by culpable negligence by the conference organization.

Lost objects

Participants are responsible for their own possessions. Inquiries about lost objects can be made at the help desk during the conference or by e-mail to fhaan@shotlisbon2008.com after the meeting. Found objects that are not claimed by December 30th 2008 will be disposed of or donated to charity.

Law

The conference and participants are subject to Portuguese Law.

2008 Plenary and Social Program

A set of events has been prepared to allow SHOT registrants to enjoy the meeting in a relaxed and cultural atmosphere, and to maximize networking opportunities. Although some of these events are at no extra cost, participants and accompanying persons interested in attending any of the social events are requested to register in advance. Please indicate on the registration form the social events in which you wish to participate.

Plenary Session

The Plenary Session will take place in the evening on October 11th at the Conference Hotel *Auditorium*.

Welcome Reception

After the Plenary Session all participants and accompanying persons are welcome to a taste of Portuguese wine.

Presidential Address

The Presidential Address will take place in the evening on October 12th at the Conference Hotel *Auditorium*.

Tours

Tours require a minimum number of participants to take place. Some are limited to a maximum number of participants. All tours will depart from the Main entrance of the Conference Hotel.

Saturday, October 11:

Tour A: Alqueva Dam via Reguengos de Monsaraz and Aldeia da Luz

Tour B: Water Museum: The Queen refreshes her spirit on the Path of the Baroque

Tour C: South Bank of Tagus River: Tide Mills and Factories (Gun Powder, Mundet and Steelworks)

Tuesday, October 14:

Tour D: Walk from the Aqueduct to Marquês da Fronteira Palace

Tour E: Technological Walking Tour of Lisbon

Conference Dinner - Awards and Prizes

The National Organizing Committee is pleased and honored to invite you to the conference dinner at Hotel Alfoz, in the town of Alcochete, on the South bank of the Tagus River near of one of the best protected natural reserve areas – the Tagus Estuary Reserve - with its birds, rice and salt fields. Coaches will depart from the Main Entrance of the Conference hotel. Dinner includes typical Portuguese food and *Fado* played live by an internationally famous Portuguese guitar player.

Hospitality Suite

The Hospitality Suite will be in room Art's II, Level M, of the Conference Hotel after the banquet.

REGISTRATION

The registration form is available online at the conference website:

www.shotlisbon2008.com.

SHOT 2008 ANNUAL MEETING
SCHEDULE OVERVIEW

An overview of the meeting is available online at the conference website:

www.shotlisbon2008.com.

EVENTS HOSTED BY SHOT**Current Graduate Students Lunch**

SHOT officers will host the annual graduate student luncheon on Sunday, October 12th. As usual, SHOT sponsors the Graduate Student Lunch, open only to current graduate students. The lunch is free for the participants, but registration on the registration form is mandatory.

SHOT Awards Banquet

On Tuesday, October 14 SHOT invites you to attend the annual Awards Banquet. 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. For more information please see the note above about the conference dinner.

TOURS

On October 11 SHOT participants may choose from the following tours:

1. Alqueva Dam via Reguengos de Monsaraz and Aldeia da Lus (all day tour)

The project of the Alqueva Dam has been since its beginning a very controversial one. The first plans go back to 1957 and by 1976 the first section was constructed. However in 1978 the project stopped again, to be re-started only in 1995. In 2002, the sluices were closed. In 2004, the hydroelectric power plant started to work. It is unquestionable that the Alqueva Lake and the dam have changed both the landscape and the traditional economic balance of the region. Some of the small villages that existed in this area were covered by the water from the dam, and their inhabitants were moved to new locations. Aldeia da Luz, to be visited in this tour, is one of the examples of this relocation process. Please notice that this visit begins [A1] at 8:00 a.m.

2. Water Museum: The Queen refreshes her spirit on the Path of the Baroque [A2] (half day tour)

The Water Museum is dedicated to the history of the water supply of Lisbon. This route offers visits to sites of exceptional beauty by the springs from Caneças to Vale de Alcântara, along the Águas Livres Aqueduct that the Royal family, the Court and the people used to take on their journey from Mafra to Queluz. This tour includes a three kilometers walk inside the aqueduct.

3. South Bank of Tagus River: Tide Mills and Factories (Gun Powder, Mundet and Steelworks) (half day tour)

By the end of the 19th century, the south bank of River Tagus became an important industrial area. During this tour, some of the icons of the so-called Lisbon industrial belt will be visited. The tour will begin with the visit to the Mill of Corroios, one of the twelve tide mills, which operated near the town of Seixal from the 15th until the 20th century. This mill was built in 1403 and played an important role in the provision of flour both for Lisbon and the local market. Then, a visit to the main factories will take place. The Gunpowder Factory began laboring in 1890 and ended its production in 2001. The various sections of the factory, manufacturing and storage of gunpowder, were interlinked by rail and were part of a local energy network. The Mundet Factory was created in 1905 and operated in 1988. In its facilities steam was produced to boil cork, together with the treatment, selection and preparation of corks and cork sheets. The *Siderurgia Nacional* (steelworks) is an icon of the Portuguese industrial agenda of the 1960s. The *Estado Novo* (the authoritarian political regime that ruled Portugal for almost 50 years, until 1974) presented it as an indisputable sign of the vitality of Portuguese economy. It was a controversial project with mixed results. The furnace, which was used until 2001, will be visited.

On October 14 two tours will be available:

1. Walk from the Aqueduct to the Marquês da Fronteira Palace (half day tour)

As visitors walk along the Águas Livres Aqueduct above Vale de Alcântara, they can enjoy a fine panoramic view of Lisbon before entering Monsanto Park. Set on a wooded hill, this is one of the last peaceful retreats in Lisbon. Completing this tour, visitors will have the chance to enjoy and learn about the gardens and the fountains at the Palácio Marquês da Fronteira in S. Domingos de Benfica. The Gardens and Palace of Fronteira were built by the first Marquis around 1670 in the outskirts of Lisbon as a hunting pavilion. Despite being strongly influenced

by Italian Renaissance architecture its style is nevertheless very Portuguese, namely in the layout of the grounds and the use of decorative tiles. It is also

the only surviving suburban private house and gardens of its period keeping its main characteristics. Tiles are everywhere; their scale varies from whole walls to tiny panels; their color from polychrome to blue and white; their origin from Portuguese to Spanish or Dutch; their themes from erudition to popular satire.

2. Technological Walking Tour of Lisbon (half day tour)

The Lisbon Technological Walking tour will take participants from Amoreiras, and industrial area of the 18th century, to Alcântara, a major industrial centre of the 19th century. The tour includes a visit to the Mãe de Água water reservoir, the keystone of the water distribution system of Lisbon; to the Laboratório Chimico of the Polytechnic School (at the Museum of Science), the only 19th century university laboratory to have survived to this day; and to the Botanical Garden. After crossing Bairro Alto, one of the few downtown neighborhoods that survived the 1755 earthquake, the tour will take the Ascensor da Bica (1892), a funicular that links the upper part of Lisbon to the front sea area of Alcântara. The walk will end at the Mercado da Ribeira, one of the most traditional markets of Lisbon, built in 1882. Please notice that this tour will be on foot and takes about four hours.

SIG MEETINGS

Traditionally the Special Interest Groups (SIG) meet at breakfast or lunchtime. As breakfast is included in the hotel registration price we encourage all groups to meet at lunchtime and organize such meetings at the conference hotel or nearby. If you are planning to attend a SIG Meeting, please mention your choice at the Special Interest Groups (SIG) field in the registration form. Please note that SIG lunches will be paid separately.

If you are interested in participating in an interest group not listed on the SIGs list, please address directly to fhaan@shotlisbon2008.com.

Interest groups not listed as SIGs:
Tension of Europe (ToE)

HOTEL

Getting to the Hotels

The conference hotel is the VIP Executive Art's Hotel, Av. D. João II, 1.18. Phone: +351-210-020-400. Lisbon Airport is quite close to Parque das Nações where SHOT will be held and where the hotels mentioned in this site are located.

We strongly recommend that you take a taxi to Parque das Nações. The ride will last approximately eight minutes and will cost around €10/12. Other public transports are not easily available along this way.

PRELIMINARY PROGRAM

Society for the History of Technology

Fiftieth Anniversary Annual Meeting

October, 11-14, 2008, Lisbon

Preliminary Program

Sunday, October 12, 2008, Morning Sessions

**Sunday, October 12, 2008, 8.30 – 10.00 am,
morning paper sessions I**

1. Bio, Nano, Robo – New Challenges for Historians of Technology

Room:

Chair: Porfírio Silva, Lisbon Technical University

Comment: Porfírio Silva, Lisbon Technical University

Christian Kehrt, Deutsches Museum Munich,
*“Writing the history of nanotechnology? Challenges
and impasses of contemporary science and
technology”*

Sally Smith Hughes, University of California,
Berkeley, *“Genes, Genentech, and the rise of
commercial biotechnology”*

Kathleen Richardson, University of Cambridge:
“Robots and Futuristic Fantasies of Destruction”

2. Religion in Harmony with Technology

Room:

Chair: TBD

Comment: TBD

Philip S. Cho, Max Planck Institute for the History of
Science, Berlin / Chinese Academy of Sciences,
*“Popular Religion and Artisanal Practice in Late
Imperial China: Sericulture songs and the
urbanization of silkworm temples in 18th century
Jiangnan”*

Karel Davids, VU University, Amsterdam,
*“Religious transformations and the circulation of
technical knowledge in early modern Europe”*

3. Analyzing European Infrastructures: Maps, Diagrams and Databases

Room:

Chair: Luís Nuno Espinha da Silveira, New
University of Lisbon

Organizer: Hans Buitert, Eindhoven University of
Technology, The Netherlands

Comment: Johan Schot, Eindhoven University of
Technology

Ian Gregory, Lancaster University, *“Railways,
Population Change and Migration in England &
Wales: A GIS Approach”*

Andreas Kunz, Institute of European History, Mainz,
*“Mapping Historical Statistics on the Fly: The
Historical Information System ‘HGIS Germany’ as a
Test Case”*

Hans Buitert / Vincent Lagendijk, Eindhoven
University of Technology, *“A database for European
infrastructures”*

4. Travel and Tourism: Inventing the Passenger

Room:

Chair: TBD

Comment: TBD

Tomás Errázuriz, Catholic University of Chile, Santiago of Chile, *"Metropolitan travel in the foundations of modern public space"*

Alexandra Bekasova, Russian Academy of Sciences, *"The Making of Passengers in Russian Empire: Macadam Roads, Coach Companies, and the Middle Class, 1820-1863"*

Kathryn D Vignone, Cornell University, *"Accessing the 'Open Road' in Jim Crow America: African-American guides to travel, motoring, and tourism"*

5. Touching Space: Images and Artifacts in the History of Space Exploration

Room:

Chair: Michael Neufeld, Smithsonian Air and Space Museum

Organizer: Jennifer Levasseur, Smithsonian Air and Space Museum

Comment: Kendrick Oliver, University of Southampton

Jennifer Levasseur, *"Here's the Earth Coming Up": Analysis of the Apollo 8 "Earthrise" Photograph*

Matthew Hersch, *"HIGH FASHION: The Women's Undergarment Industry and the Foundations of American Spaceflight"*

Teasel M. Muir-Harmony, *"From Spacecraft to Icon: Friendship 7's Second Mission"*

6. History and Energy Policy: A Role for Historians of Technology

Room:

Chair: Arne Kaijser, Royal Institute of Technology, Sweden

Organizer: Richard Hirsh, Virginia Tech

Comment: Leo Marx, MIT

Sara Pritchard, Cornell University, *"Towards an Envirotechnical Approach to Energy History and Policy"*

David E. Nye, SDU, Odense, Denmark, *"Blackouts: Social Behavior during 'Artificial Darkness'"*

Richard Hirsh, Virginia Tech, *"History and Energy Policy: Lessons from the Trenches"*

Sunday, October 12, 2008, 10.15-11.45 am, morning paper sessions II

7. Practical and Learned Culture in Premodern and Early Modern Europe

Room:

Chair: Pamela O. Long, Independent Scholar

Organizer: Pamela O. Long, Independent Scholar

Comment: Dagmar Schaefer, Max Planck Institute in Berlin

Matteo Valleriani, Max Planck Institute for the History of Science, Berlin, *"The Garden of Pratolino: Material Translation and Transformation of Hero's Pneumatics"*

Marco Formisano, Humboldt-Universität zu Berlin, *"The Making of the Art of War: The Roman Past and Technologies of the Present in Early Modern Writing on War"*

Simona Valeriani, London School of Economics, *"The Craftsman, the Architect, the Engineer, and the Gentleman: On Sources and Modalities for the Development of Elias Holl's Designs"*

8. Machine Politics: Imagining Technology and Democracy in 19th Century America

Room:

Chair: Rebecca Herzig, Bates College, Lewiston

Organizer: Peter A Shulman, Johns Hopkins University

Comment: Rebecca Herzig, Bates College, Lewiston

Peter A. Shulman, Johns Hopkins University, *"Machine Politics and the Politics of the Machine: Meaning and Metaphor in Industrializing America"*

Robert MacDougall, University of Western Ontario, *"King Crank: Technology and Democracy in the Golden Age of the American Eccentric"*

Jamie Pietruska, Massachusetts Institute of Technology, *"'Destitute of the faculty of foresight': The Predictive Imagination and Technological Utopianism in the Work of Edward Bellamy, 1875-1888"*

9. Engineering Nature

Room:

Chair: Edmund Russell, University of Virginia

Comment: Thomas Zeller, University of Maryland

Marta Macedo, University of Coimbra, *"Wine, phylloxera, railway and engineers in the Douro Valley (1863-1887)"*

George Revill, The Open University, Walton Hall, Milton Keynes: *"William Jessop (1745 - 1814) engineering, landscape and the cultural history of technology"*

Peter Soppelsa, University of Michigan, *"The Paris Flood of 1910 and the Fragility of Modernity"*

10. Historians of Technology Making Policy

Room:

Chair: Chris Bissel, The Open University, Milton Keynes

Comment: TBD

Yasushi Sato, National Graduate Institute for Policy Studies, Japan, *"History of Technology, Business History, and Science and Technology Policy in Japan"*

Benjamin Olshin, Philadelphia, NEH-fellow, *"The Historian of Technology as Prognosticator and Policy-Maker: Talking Intelligently about the Rise and Fall of High-Tech Civilizations"*

Sébastien Brunet / Pierre Delvenne / Catherine Fallon, Université de Liège, *"From Bio to Nano: Learning From The Past to Shape the Future of Technology Assessment, Scientific and Public Involvement in Risk"*

11. A Concrete Mediterranean Engineering; Cement and Society in the European Periphery (20th and 21st Centuries)

Room:

Chair: Yiannis Antoniou, Hellenic Open University

Organizer: Lino Camprubi, UCLA

Comment: Wiebe Bijker, University of Maastricht

Spyros Tzokas, University of Athens, *"Modern concretes as ancient marbles: The introduction of reinforced concrete in Greece by Elias Angelopoulos"*

Lino Camprubi, UCLA, *"Building a European Spain: concrete regulation and international networks in 'the Sciences of Construction' (Franco's Spain, late 1950's)"*

Sofia Bento, Technical University of Lisbon, *"Circulation of engineering projects: for the understanding of dams and societies"*

12. New Approaches and Tools I

Room:

Chair: Arwen Mohun, University of Delaware

Comment: Paul Edwards,

Trevor Pinch, Cornell University: *"The Invisible Technologies of Goffman's Sociology: From the Merry-Go-Round to the Internet"*

Alain P. Michel, University of Evry-Val d'Essonne / Stéphane Pouyllau, CRHST/CNRS, Paris, *"The 'Virtual Factory' research program. First results"*

Adam Lawrence, UCLA, *"An Ecological Study of Predation between Aircraft, U-Boats, and Ships: Evolutionary Theory, Developmental Genetics, and the Second World War"*

13. Visual Culture and Technology I: Inviting an Alternative Perspective

Room:

Chair: Rosalind Williams, Massachusetts Institute of Technology

Comment: TBD

David A Kirby, University of Manchester, „Screening Technology: Technical Advisors, Diegetic Prototypes, and the Cinematic Creation of the Future”

Dolores A Steinman/ David A. Steinman, University of Toronto, “Progress of Imaging Technology from the Perspective of Biomedical Sciences and the Arts”

Jane Gavan, University of Sydney, “LOOKING forward. The history of technology in the future from the perspective of contemporary visual arts practice”

Sunday, October 12, 2008, Afternoon Sessions

Sunday, October 12, 2008, 1.30-3.30 pm, afternoon paper session I

14. Visual Culture and Technology II: The Production of Images

Room:

Chair: Stefan Krebs, RWTH Aachen

Comment: Alexander Gall, Deutsches Museum Munich

Marie Theres Stauffer, University of Bern, “*Magia catoptrica – the artful science of mirror in the early modern period*”

Zeynep Devrim Gürsel, University of California, Berkeley: “*Entangled Histories: From a Racehorse Called Occident to Grounded Flights: Critical Confluences in the History of Photographic Technologies*”

Cynthia D. Bennet, Iowa State University, “*Photo Finish: Postmortem Photography in 19th Century America*”

Y.C. Ghimn, University of Alberta/Athabasca University, Canada: “*Realities Retouchable? On-the-*

Surface Conventions from Camera Obscura to Ultrasound”

15. New Approaches and Tools II

Room:

Chair: Wiebe Bijker, University of Maastricht

Comment: TBD

Bruce Hevly, University of Washington, Seattle, “*Accuracy and the Shooter’s Mecca: Sea Girt, Camp Perry, and the Peculiarities of American Target Shooting*”

Min Suh Son, Johns Hopkins University: “*Beyond Technological Orientalism: New Perspectives in Writing the History of East Asian Technology*”

Nina E. Lerman, Whitman College, Walla Walla, Washington, USA, “*Apprenticeship Industrialized: Technological Knowledge from Household to Shop Floor*”

Andreas Georg Stascheit, Dortmund University of Applied Sciences and Arts, “*History of technology as history of experience: the case of sound transformation*”

16. Co(o)ping with Modernity: European Ways of Live and Post-War Mass Housing

Chair: Leen van Molle

Organizer: Liesbeth Bervoets

Comment: Hilde Heynen / Esra Akcan

Sofie De Caigny, “*Polarity in Post War Modernist European Housing Projects. A Case-Study of the Architecture of the Housing Realized by Architect Isia Isgour (1913-1967) in Belgium*”

Liesbeth Bervoets, “*Defeating Public Enemy Number One. Social Engineering, Political Commitment and Post War Housing in the Netherlands*”

Kimberly Elman Zarecor, Iowa State University, “*The Local History of an International Type: The Structural Panel Building in Czechoslovakia*”

Els De Vos, *"Coping with modernity. The Home-Making Experiences in the Modernist Kiel Housing Estate of Renaat Braem"*

Mikael Hård, University of Technology, Darmstadt, *"'The Good Apartment': The Social (Democratic) Construction of Swedish Suburbia"*

Dobrinka Parusheva / Iliyana Atanasova, *"Housing in Bulgaria: Coping with Socialist Modernity"*

17. Looms, Chips, Users and Code: The Business of Computing

Room:

Chair: Helmuth Trischler, Deutsches Museum, Munich

Organizer: Thomas Haigh, University of Wisconsin, Milwaukee

Comment: Thomas Haigh, University of Wisconsin, Milwaukee

Janet Delve, University of Portsmouth, *"New Perspectives on 'Jacquard' Looms and the Development of Punched Cards"*

Jeffrey Yost, University of Minnesota, *"Manufacturing Mainframes: The Evolving Semiconductor Strategies of IBM and Sperry Univac, 1960-1975"*

Pierre Mounier, CNRS & Université Paris-Sorbonne, *"A Department for Ordinary Business: Application Software in the French Plan Calcul (1966-1975)"*

Peter B. Meyer, U.S. Bureau of Labor Statistics, *"Computer Use and Earnings Inequality, 1960-2000"*

18. Owning and Disowning Invention: Intellectual Property, Authority and Identity in British Science and Technology, 1880-1920

Room:

Chair: Anna Guagnini, University of Bologna

Organizers: Efstathios Arapostathis, University of Leeds / Graeme Gooday, University of Leeds / Christine MacLeod, University of Bristol

Comment: Eda Kranakis, University of Ottawa

Graeme Gooday, University of Leeds / Efstathios Arapostathis, University of Leeds, *"Managing and defending IP: courtroom trials of electrical patents"*

Gregory Radick and Berris Charnley, University of Leeds, *"Plant breeding and intellectual property before and after the rise of Mendelism: The case of Britain"*

Christine MacLeod and Jon Lewis, University of Bristol, *"On a wing and a patent: intellectual property and the Royal Aeronautical Society, 1897-1914"*

19. Networks and Large Technological Systems

Room:

Chair: Johan Schot, Eindhoven, University of Technology

Comment: Marc Jacquinet, Universidade Aberta, Portugal

Daniela Helbig, Harvard University, Cambridge, MA, *"Beyond the system's limits: Marga von Etzdorf's last flight"*

Ana Paula Silva, New University of Lisbon, *"Portugal in the building of a transnational network - a winner or a loser?"*

Gustav Sjöblom, Chalmers University of Technology, *"Road transport, Large Technical Systems and the sociology of automobility"*

Katja Girschik, ETH Zurich, *"Taming the mass of goods and data. The emergence of a computer-aided merchandise management system at the Swiss retailer Migros"*

20. Journals and the History of Technology: What's Needed?

Room:

Organizer: Martin Collins, Smithsonian Institution

Presenters:

John Staudenmaier, editor, Technology and Culture

Martin Collins, editor, History and Technology

Philip Scranton, editor-in-chief, Enterprise and Society

**Sunday, October 12, 2008, 3.45-5.45 pm,
afternoon paper session II**

21. Science into Engineering; Engineering into Science

Room:

Chair: Ronald Kline, Cornell University, USA

Comment: Jennifer Alexander, University of Minnesota

Robert Bud, Science Museum, London *"The creation of the category of 'Applied Science', engineering training and the international circulation of ideas in early 19th century Europe"*

Don Leggett, University of Kent, *"Experimental Test Tanks, Carlylean Historians and Victorian Doubt: A Nineteenth-Century Comparison of Science, Technology and History"*

Henrik Björck, University of Gothenburg, *"A distinguished scientific field? Pursuing resources and building institutions for engineering research in Sweden, 1890-1945"*

Thomas Kaiserfeld, Royal Institute of Technology, Stockholm, *"Historical Layers, Academic Drift and Policy Convergence: Long-term perspectives on knowledge intermediaries from academies of science to research institutes"*

22. The Aesthetics of Building Technology in the Industrial Age

Room:

Chair: TBD

Comment: TBD

Stephanie Tuerk, Massachusetts Institute of Technology, Cambridge, MA, *"Building Concrete, Aggregating Knowledge: Technology's Absent History in Sigfried Giedion's Bauen in Frankreich – Bauen in Eisen – Bauen in Eisenbeton"*

Thomas Leslie, Iowa State University, *"Response to 'The Tall Office Building Artistically Considered' and its Implications for Construction History"*

Marija Dremaite, Vilnius University: *"Constructing Communism Faster: Industrialization of Housing Technologies in the Soviet Baltic Countries in the 1960s"*

Hugo Palmarola Sagredo / Pedro Ignacio Alonso, *"Visual and Technological Culture: the Soviet KPD building system in Chile, 1971-1973"*

Miron Mislin, *"Industrial Architecture and Engineering in America's and Germany's Age of Mass production. The Case of the 'Industrial Engineer' 1893 -1918"*

23. Technology Reincarnated

Room:

Chair: David Nye, SDU, Odense, Denmark

Comment: TBD

Bruno Cordovil, Imperial College London, *"Disappearing technologies: disuse and substitution in the street-lighting of Lisbon, 1848-1965"*

Alexander B. Magoun, David Sarnoff Library, Princeton, NJ, USA, *"When Old Technologies were Renewed: RCA, the Nuvistor, and Electron Tubes in Decline, 1958-1975"*

Alexandre Pólvara, University Institute of Lisbon, *"Flea markets, bazaars and akin with futures within: where historical views of technology may review what has gone and work it into what may be coming"*

Pál Germuska, Institute of 1956, Budapest, *"Flagships of Hungarian Consumer Socialism: Civilian Technologies and Production in the Hungarian Defense Industry in the 1950s and 1960s"*

24. High Hopes and Heavy Barriers: From Hydrogen Technologies to the Hydrogen Economy

Room

Chair: T.B.D.

Organizer: Matthias Heymann, Aarhus University

Comment: Matthias Heymann, Aarhus University

Marloes Dignum, Eindhoven University of Technology, *"The history of the concept hydrogen economy"*

Sjoerd Bakker, Utrecht University, Harro van Lente, Wouter Grooten, *"Competing promises in hydrogen storage technologies, 1975-2005"*

Kornelia Konrad, Swiss Federal Institute of Aquatic Sciences and Technology, Annette Ruef, Susanne Giesecke, *"Varieties of hopes, hypes & disappointments: dynamics of fuel cell expectations within multiple discourse arenas"*

Oliver M. Ehret, University of Cardiff, *"The TES and the CEP projects: an evaluation of stakeholder policies from a social science perspective"*

25. Computing at Transnational Cross-Roads: Technology and Politics in the Cold War

Room:

Chair: Eden Medina, Indiana University

Organizer: Corinna Schlombs, University of Pennsylvania

Comment: TBD

Corinna Schlombs, University of Pennsylvania: *"The Mission of Marshall Plan technical aid: Productivity machines for Europe"*

Petri Paju, University of Turku, Finland / Helena Durnova, Brno University of Technology, Czech Republic, *"Computing Close to the Iron Curtain: Inter/national Computing Practices in Czechoslovakia and Finland"*

Ksenia Tatarchenko, Paris – Sorbonne, *"Visiting Akademgorodok Computing Center: 'in(s) and out(s)' A portrait of Siberian computing from an international perspective"*

Simon Donig, University of Passau, Germany, *"Computing as modernisation: technology transfer and the emergence of a culture of management in the GDR (1964-1969)"*

26. The "Strong Patent System" Story vs. the History of Technology: Is there a Methodological Middle between Clinometrics and Contextualism?

Room:

Chair: Christine MacLeod, Univ. of Bristol

Organizer: Bryan Pfaffenberger, University of Virginia

Comment: TBD

Paul Israel, Rutgers University, *"Learning from Thomas Edison's patents"*

Bryan Pfaffenberger, University of Virginia, *"A wilderness of conflicting claims: The suppression of innovation in the voting machine industry, 1889-1925"*

Alessandro Nuvolari, Eindhoven University of Technology, *"Quackery, patents and the market for medicines in England, 1617-1852"*

27. Technology's Surprising Threads of Silk in Women's Hands

Room:

Chair: Daryl M. Hafter, Eastern Michigan University

Organizer: Daryl H. Hafter, Eastern Michigan University

Comment: Jacques Bottin, CNRS, Institut d'histoire moderne et contemporaine

Luca Molà, Warwick University, *"Women's Work Seen Through the Window of Venice's Silk Law Court"*

Lesley Miller, Victoria and Albert Museum, London, *"Fashion, Silk, and Gender: Marie-Antoinette, Rose Bertin and the Lyonnaise Manufactures after 1770"*

Carmen Sarasua, Universitat Autònoma de Barcelona, *"Women, Men, and Technology in the Silk Industry, Spain 18th and 19th Centuries"*

Monday, October 13, 2008, Morning Sessions

**Monday, October 13, 2008, 8.30 – 10.00 am,
morning paper sessions I**

28. Politics of Broadcasting

Room:

Chair: Martin Collins

Comment: Andreas Fickers, University of Maastricht
Nina Wormbs, Royal Institute of Technology,
Stockholm, *"The commons of the ether: An
Ostromian perspective on early frequency allocation
processes for broadcasting in Europe"*

Juan Arturo Camargo Uribe, Universidad Nacional de
Colombia, Bogotá, *"Sociotechnical alternatives in
the configuration of Colombian television network
1953 – 2008"*

Kenzo Okuda, Independent Scholar, *"US Foreign
Policy towards Japan in the Early Phase of the Cold
War and the Introduction of Television Broadcasting
to Japan"*

**29. Engineering Identity in Europe and the
Americas**

Room:

Chair: Karin Zachmann, Munich Centre for the
History of Science and Technology

Comment: Maria Paula Diogo, Universidade Nova de
Lisboa, Portugal

M. Rosa Massa-Esteve/ Carles Puig-Pla/ Antoni
Roca-Rosell, Polytechnical University of Catalonia
(UPC) Barcelona, *"'Mixed' Mathematics and
Engineering in the XVIII Century in Spain. The
Mathematical Course of Pedro Lucue"*

Andrés Felipe Pineda Valderrama, Technical
University of Denmark, *"Engineers' Identity and
Engineering Education in Colombia 1887-1972"*

Jongmin Lee, Virginia Tech, *"Redefining
Environment and Engineering to Save Both: U.S.
Environmental Engineering Education in the 1960s
and 1970s"*

**30. Containerization and Intermodal Freight
Transportation in Historical Perspective –
Regulation, Innovation and Globalization, 1920-
1970**

Room:

Chair: Colin Divall, Institute of Railway Studies &
Transport History, York, UK

Organizer: Bruce Seely and Arthur Donovan

Comment: Colin Divall, Institute of Railway Studies
& Transport History, York, UK

Bruce Seely, Michigan Technological University,
*"Public Policy and Freight Transportation, 1920-
1960: Setting Boundaries and Framing Technical
Possibilities"*

Tom Cornillie / Keith Harcourt, *"A Comparative
International Study of Technology and Policy in the
Development of Railway Freight Containerization in
the United States and United Kingdom"*

Arthur Donovan, *"Malcom McLean and
Containerization - The Early Years"*

**31. European Military Technological Innovation:
Weapons and Ideology in the 20th Century**

Room:

Chair: Hans Weinberger, Norwegian Museum of
Science, Technology, Industry and
Medicine.

Organizer: Philip Scranton, Rutgers University and
Hagley Museum & Library

Comment: Hans Weinberger, Norwegian Museum of
Science, Technology, Industry and Medicine.

Marcus Jones, United States Naval Academy,
Annapolis, *"Submarines and Mentalities of
Innovation in the Third Reich, 1943-45"*

Philip Scranton, Rutgers University and Hagley
Museum & Library, *"Starting from Ruin: French Jet
Propulsion Development, 1944-55"*

Pascal Deloge, *"R&D Capabilities in the history of
the Belgian National Fabrique de L'Armes de
Guerres (Herstal)"*

32. Aviation Myth Reconsidered

Room:

Chair: Michael Neufeld, Smithsonian Air and Space Museum

Comment: TBD

Louise Karlskov Skyggebjerg, Danish Museum of Science and Technology, Helsingør, "*A Danish Aviation Hero: The Myth of Ellehammer*"

Hermione Giffard, Imperial College, London, "*Fighting Over Invention: The Whittle Myth and the Historiography of the Jet Engine*"

Dimitri Vogiatzis, Hellenic Air Force Museum, Athens, "*The introduction of military aviation technology in the Balkans (1912-1913)*"

33. Negotiating Risk

Room:

Chair: Bev Sauer, Georgetown University, Washington

Comment: Stefan Poser, Helmut-Schmidt-University, Hamburg

Beat Bächli, University of Bielefeld, "*Regulatory Science: Boundary Values as Interfaces between Science, Technology, and Politics*"

Dov Lungu, York University, Toronto /Budeș, Cristina, Ilfov School Inspectorate, Romania, Bucharest: "*Mining Romanian Gold: Public Debate over Technological Risk in a Democratizing Country*"

Esha Shah, University of Sussex, "*Upon opening ...and finding it empty? Politics of Development and Social Studies of Technology*"

34. Measuring Bodies, Standardizing Subjects: The Problem of the Human Body in Airplanes, Food, and Airplane Food During WW II and Beyond

Room:

Chair: T.B.A.

Organizer: Xaq Frohlich, MIT

Comment: Donna C. Mehos, Foundation for the History of Technology, Eindhoven, The Netherlands

Chihyung Jeon, MIT, "*Measuring the 'Right Stuff,' Inventing the 'Human Factor': Psychology, Physiology, and Anthropology of Pilot Selection and Training*"

Sarah W. Tracy, University of Oklahoma, "*Food Technology, Food Psychology: Ancel Keys and the World War II Development of the K Ration*"

Xaq Frohlich, MIT, "*Two Kingdoms of Food: Standardizing 'Diets of the Affluent' in Post- WWII America*"

Monday, October 13, 2008, 10.15 – 11.45 am, morning paper sessions II**35. Ancient Technology**

Room:

Chair: TBD

Comment: TBD

Serafina Cuomo, Birkbeck College, "'A Roman Engineer's Tales'"

Rachel Maines, Cornell University / Garrel Pottinger, Ithaca: "*Keeping Warm in the Armpits of the Empire: Roman Military Adaptations to Northern Climates*"

Jiren Feng, Max Planck Institute for the History of Science, Berlin: "*Constructed Architectural Knowledge as Professionals and Literati's Ideal: The So-Called 100-Year Impact of the Mijing (Classic of Timberwork) upon Chinese Building Practice*"

36. Technology and Labor in Development

Room:

Chair: TBD

Organizer: Park Doing, Cornell University

Comment: Suzanne Moon, University of Oklahoma

Sarah Grossman, University of New Mexico, "*Man as Machinery: American Engineers in Mexican Mines, 1886-1907*"

Erik Loomis, Southwestern University, *"Everyday Technologies and the Body in the Pacific Northwest Lumber Industry, 1910-1937"*

Park Doing, Cornell University, *"Who Sustains Whom? And Why?: Reflections on a U.S. Led Water System Project in Honduras"*

37. Politics of Design

Room:

Chair: Kjetil Fallan, NTNU Trondheim

Comment: Molly Berger, Case Western Reserve University

Jan Hadlaw, York University, Toronto, *"Technology, Design, and the Construction of Canadian National Identity in the 1960s"*

Sorcha O'Brien, University of Brighton, *"Photographic Connections: electrical technology in the making in Ireland in the 1920s"*

Aaron Bobrow-Strain, Whitman College, Walla Walla WA, *"Soft Sell: Engineering 'the Invention of Sliced Bread' in an Age of Anxiety"*

Artemis Yagou, AKTO art and design, Athens: *"Designing technology as fun: The case of the radio set"*

38. Interdependency and Vulnerability through Vertical Integration in Transnational Infrastructures

Room:

Chair: Erik van der Vleuten

Organizer: Heide, Lars, Copenhagen Business School, Denmark

Comment: Karl-Erik Michelsen

Arne Kaijser, Royal Institute of Technology, Stockholm, Sweden, *"Controlling Electricity Flows"*

Lars Thue, Norwegian School of Management, Oslo, Norway, *"From large technical systems to technological complexes"*

Lars Heide, Copenhagen Business School, *"Eurocontrol: Results and restraints in transnational air traffic control in Western Europe"*

39. The Afterlife of Technologies

Room:

Chair: Barbara Hahn, Texas Tech University

Organizer: Dolly Jørgensen

Comment: the audience

Robert G. Arns, University of Vermont, *"The Afterlife of Early Cyclotrons"*

Takashi Nishiyama, State University of New York, Brockport: *"From War to Peace: Weapons and Non-weapons Technologies in Japan after World War II"*

Dolly Jørgensen, Norwegian University of Science and Technology, *"Contesting Conversion: The Dynamics of Rigs-to-Reefs Discussions"*

40. "'Beyond' Aviation History in the Wider View – New Approaches of the History of Flight"

Room:

Chair: James R. Hansen, Auburn University

Organizers: Jeremy R. Kinney, Smithsonian National Air and Space Museum / Alan D. Meyer, University of Delaware

Comment: Deborah G. Douglas, MIT Museum, David Burigana, University of Padua

Jeremy R. Kinney, Smithsonian National Air and Space Museum / Alan D. Meyer, University of Delaware, *"Aviation History in the Wider View: The Way Ahead...."*

Dorthe Gert Simonsen, University of Copenhagen, *"'Airscares: Vision and Topography in the History of Aviation"*

Chandra Bhimull, Colby College, *"Why Air?"*

41. Medical Technology I: Instruments and Implants

Room:

Chair: Ray Kondratas, National Museum of American History

Comment: Martina Blum, Munich Centre for the History of Science and Technology

Jorun M Stenøien / Oscar Amundsen, Norwegian University of Science and Technology, *"Spare part human beings: blurring the borders between deafness and hearing"*

Martina Schlünder, Justus-Liebig-University, Gießen, Germany, *"Exploring Interfaces – Matching Biology and Technology, A Case Study in Modern Trauma Surgery (1950-)"*

Søren Bak-Jensen, Medical Museion, University of Copenhagen: *"Biomedicine, Aesthetics, History, and Garbage: Engagements with the Materiality of Recent Medical Technology"*

Monday, October 13, 2008, 1.30 – 3.30 pm, afternoon paper session I

42. Medical Technology II: Culture and Controversies

Room:

Chair: Diane Wendt, National Museum of American History

Comment: TBD

EunJeong Ma, Cornell University, *"The Controversy over Computed Tomography"*

Paula Viterbo, *"'Natural' Contraception: Redefinitions and Endurance of a Non-technological Technology"*

Bridget E Gurtler, Rutgers University-New Brunswick: *"Contested Newness: Artificial Insemination in the New Deal American Media"*

Marianna Tolia, National Technical University of Athens, Greece: *"The Woman/ User Perspective on the IVF Technologies in Greece as Manifested in the Net"*

43. Standardizing Technology: Lesson Learned

Room:

Chairs: Andreas Fickers, University of Maastricht / Kai Jakobs, RWTH Aachen

Organizer: Andrew Russell, Duke University /

Comment: Pascal Griset, Université Paris Sorbonne (France)

Peter Van den Bossche, Erasmus University College Brussels, *"The Interaction Between Standardization, Technology and Market: The Early Development of the Electric Vehicle as an Example"*

Jeffrey Tang, James Madison University, *"Gateway to Success: LPs, 45s, and the Format War that Wasn't"*

Gard Paulsen, Norwegian School of Management, *"Programmed Tensions and Standardized Transitions: The Design of CCITT's Programming Language for Telephone Switches"*

Dong-oh Park, Science and Technology Policy Institute, Korea, *"Making 'National' Character Code: Debates Over Korean Standard Character Code and its Effect in Unicode"*

44. Communities of Science and Technology in the Post-Colonial Context: Revisiting the Indian Nuclear and Space Programs

Room:

Chair: John Krige, Georgia Institute of Technology

Organizer: Asif A. Siddiqi, Fordham University

Comment: John Krige, Georgia Institute of Technology

Indira Chowdhury, Archival Resources for Contemporary History, Bangalore, India, *"Basic Research and the Shaping of a Technological Culture: Homi Bhaba and the Tata Institute of Fundamental Research"*

Jahnvi Phalkey, Deutsches Museum München, *“Educating Engineers for the Nuclear Age: Nuclear Research Centre at the Indian Institute of Technology, Kanpur and the MIT Model”*

Ashok Maharaj, Georgia Institute of Technology: *“Regaining Indian Prestige: Chinese Nuclear Test, NASA and Satellite Instructional Television Experiment (SITE)”*

Asif A. Siddiqi, Fordham University: *“‘There is no ambiguity of purpose’: Creating the Indian Rocket and Space Program”*

45. Standardizing the Organic – Eating the American Way?

Room:

Chair: Per Østby, Trondheim

Organizer: Per Østby, Norwegian University of Science and Technology, Trondheim, Norway

Comment: Emanuela Scarpellini, Milano

Karin Zachmann, Munich Centre of Science and Technology, *“Atomic Food for Peace? – American Hegemony and European Foodways in the 1950s”*

Terje Finstad, Trondheim, *“Frozen Cauliflowers: Deep freezing technologies and standardisation”*

Alex Strating, Amsterdam, *“Standardizing meat in the Netherlands in the 20th century”*

Milena Veenis, Amsterdam, *“‘National’ Food and the Politics of Authentification”*

46. Mobility and Resistance

Room:

Chair: Anne-Katrin Ebert, Berlin

Comment: Hans-Luidger Dienel, Zentrum Technik und Gesellschaft, TU Berlin

Bernd Kreuzer, University of Linz, *“Looking beyond: Another plea for interdisciplinarity, linking transport history and planning history. A comparative overview*

on European cities before mass motorization, 1920-1940”

Daphne Rozenblatt, UCLA, *“From Automobile to Macchina: The Role of the Automobile in the Modernizing of Northern Italian Modernism, 1899-1914”*

Ritika Prasad, University of California, *“Blood on the Tracks”: Coercion, Sabotage and Railway Technology in a Colony. Railway Technology in a Colony”*

Geoff D Zylstra, New York City College of Technology, *“Beyond Public and Private: Women and Children Destroy a Street Railroad in 1840s Philadelphia”*

47. The Museum of the Future - A Round-Table Conversation

Organizer: The Program Committee

Moderators: Paul Ceruzzi, Smithsonian’s National Air and Space Museum (NASM) and Deborah Douglas, MIT Museum

Panelists:

Robert Bud, Science Museum, London

Colin Divall, Institute of Railway Studies & Transport History, York, UK

Helmuth Trischler, Deutsches Museum, Munich

Hans Weinberger, Norwegian Museum of Science, Technology, Industry and Medicine.

Monday, October 13, 2008, 3.45 – 5.45 pm, afternoon paper session II

48. Bridge or Barrier? Technology in dialogue and conflict between political powers and economic systems

Room:

Chair: Karen Freeze, University of Washington

Organizer: Karen Freeze, University of Washington

Comment: TBD

Karen Freeze, University of Washington, *"Theater Technology under Communism: a 'Light' Industry's Role in East-West Relations during the Cold War"*

Dagmara Jajesniak-Quast, Centre for Research in Contemporary History, Potsdam, Germany, *"The gas, water and electricity delivery and other infrastructure problems between the divided cities on the German-Polish border during the Cold War"*

Slawomir Lotysz, University of Zielona Gora, Poland, *"Good ideas from bad guys: Polish Engineers and American Housing Technology"*

Dr.Y.Srinivasa Rao, *"Gandhi, Electricity and the Debate on the Big Vs. Small"*

49. History of Science in Shot

Room:

Chair: Klaus Staubermann, National Museums Scotland

Comment: David Hounshell, Carnegie Mellon University

Leslie Tomory, University of Toronto, *"The origins of the manufactured gas industry in the late 18th and early 19th century: a case study in the interaction between science and technology in the Industrial Revolution"*

Shaul Katzir, Tel Aviv University and Leo-Baeck Institute, London, *"Scientists as occasional inventors"*

Thomas W Staley, Virginia Tech., *"The 'Other' Ether: The Role of Chemical Ether in Early Nineteenth Century Olfactory Theory and Practice"*

Benjamin Gross, Princeton University, *"Notebook Analysis and the Origins of Liquid Crystal Displays"*

50. Cybernetics and Information Theory – 1948 and beyond

Room:

Chair: David Mindell, MIT

Organizers: Frank Dittmann, Deutsches Museum, Germany / Bernard Geoghegan; Northwestern University, USA

Comment:

Rudolf Seising, Jena, Germany, *"Cybernetics, System Theory, and Information Theory in the 1950s and 1960s"*

Lars Bluma, Ruhr University of Bochum, Germany, *"Early Cybernetic machines: artifacts, discourses, and organisms"*

Jan Mueggenburg, Vienna, Austria, *"From Cybernetics to Bionics: The Biological Computer Laboratory"*

Ronald Kline, Cornell University, USA, *"The Disunity of Cybernetics"*

Bernard Geoghegan, Northwestern University, USA, *"Informed Ideology: The Politics of Information Theory from French Structuralism to British Cultural Studies"*

Radka Smýkalová, Brno, Czech Republic, *"K. VASSPEG – a pseudonym in Cybernetics in Czechoslovakia"*

Philipp Aumann, Munich, Germany, *"Between Ideology and Methodology. Cybernetics in Western Germany"*

Frank Dittmann; Munich, Germany, *"Cybernetics in GDR between euphoria and rejection"*

51. Techno-Cocooning: Cultural Histories of Mobile Capsules

Room:

Chair: Mikael Hård

Organizers: Karin Bijsterveld, Department of Technology & Society Studies, Maastricht University and Gijs Mom, Eindhoven University of Technology

Comment: John Staudenmaier

Gijs Mom, Eindhoven University of Technology, "*A Companion in the Car: The Rise of Car Radio in the United States, 1929-1959*"

Christopher McDonald, Princeton, "*Acoustic Cocooning: How the Car Became a Place to Relax (Europe, 1920s-1990s)*"

Karin Bijsterveld, Maastricht University, "*Cultures of Control: Sensorial Struggles in the Automobile, 1920s-1990s*"

Heike Weber, TU Darmstadt, "'Head Cocoons': Headphones in the late 20th Century Mobility Culture"

52. Gender and the Workplace in Four Continents

Room:

Chair: Ruth Oldenziel, Eindhoven University of Technology

Comment: Francesca Bray, University of Edinburgh

H. J. Abdelnur, Augusta State University, Georgia, "*To Sit or Kneel: Creating Gender, Race, and Nation in Central America*"

Alka Saikia, Jawaharlal Nehru University: "*Women's Indigenous Technology Systems: A study of Women Textile Weavers of the Brahmaputra Valley*"

Diana Covell, University of Sydney: "*Staying 'Mum' or 'stirring the possum': challenging motherhood myths, forging feminism in the steel industry in North America and Australia*"

Karsten Uhl, Darmstadt University of Technology: "*Gender, Technology, and Workplace Engineering: The Nazi 'Beauty of Work' Department and Aspects of Continuity in Post-War Germany*"

53. Future Directions in Engineering Education – What can we contribute?

Room:

Chair: Steve Usselman, Georgia Tech

Organizer: Atsushi Akera, Rensselaer Polytechnic Institute

Panelists

Maria Paula Diogo (New University of Lisbon)
Atsushi Akera (Rensselaer Polytechnic Institute)

Peter Meiksins (Cleveland State University)

Rosalind Williams (Massachusetts Institute of Technology)

Tuesday, October, 14, Morning Sessions

Tuesday, October 14, 2008, 8.30 – 10.00 am, morning paper sessions I

54. New Research Tools for Contemporary History

Room:

Chair: TBD

Organizer: Thomas Misa, University of Minnesota

Comment: TBD

Per Lundin / Isabelle Dussauge, Dept. of History of Science and Technology, Royal Institute of Technology, Sweden, "*Documenting the Use of Computers in Society between 1950 and 1980: Witness Seminars and Writers' Web*"

Andreu Veà, Barcelona, "*Internet history and Internet research methods: Engineering the worldwide WiWiW project*"

Thomas Misa and Joline Zepcevski, University of Minnesota, "*Realizing user-centered computer history: Designing and using NSF's FastLane (1990-present)*"

55. Beyond 'Eureka!': Maintenance and Operations in the History of Technology

Room:

Chair: Ruth Schwartz Cowan, University of Pennsylvania

Organizer: Kenneth Lipartito, Florida International University

Comment: David Edgerton, Imperial College London

Kevin L. Borg, James Madison University,
*"Maintenance Made Visible: How Policy Makers
 Helped Engineers Create Dependable American
 Cars"*

Nathan Ensmenger, University of Pennsylvania,
*"Fixing Things That Can Never be Broken: Software
 Maintenance as Heterogeneous Engineering"*

Kenneth Lipartito, Florida International University,
*"Flying on the Ground: Maintenance, Operations and
 the Space Shuttle"*

56. Sustainable Technology

Room:

Chair: Frank Uekötter, Munich Centre for the History
 of Science and Technology

Comment: Paul Josephson, Colby College

Jin Hee Park, Dongguk University, Korea: *"A Short
 History of Solar Energy Using in Korea"*

Kristina Söderholm, Luleå University of Technology:
*"Clean Technology and the Role of Environmental
 Policy: Experiences from Swedish Industry with
 Comparisons to the U.S. Case in the 1970s and
 1980s"*

Timo Myllyntaus, University of Turku Finland:
*"Rethinking the Past: Interaction of Technology and
 the Environment in History"*

57. Looking Beyond the Call: Case Studies from 19th to 21st Centuries on How Telephone Users Maximize Technology, Consumption and Connectivity

Room:

Chair: Lisa Parks, University of California, Santa
 Barbara

Organizer: James Schwoch, Northwestern University

Comment: Lisa Parks, University of California, Santa
 Barbara

Emily Goodman, Northwestern University,
*"Surveying Wired Landscapes: Donnelley, Bell
 Telephone, and the Telephone Directory"*

Richard John, University of Illinois-Chicago,
*"Nickel-in-the-Slot: The Public Telephone and the
 Political Economy of Telephony in the United States,
 1894-1907"*

James Schwoch, Northwestern University, *"When
 Nomads Call: Mobile Telephony and Al Jazeera"*

58. Race Politics and Technology

Room:

Chair: TBD

Comment: TBD

Bruce W. Eelman, Siena College, Loudonville, NY.,
*"Technology and Rural Culture in the
 Reconstruction-Era Southern Upcountry"*

Olivia A Scriven, Spelman College, Atlanta, *"Untold
 Narratives: The Struggle to Educate African
 Americans in Science, Engineering and Technology,
 1950-1997"*

Benjamin Wang, Cornell University, *"Literally
 Above Politics?" NASA, the Deep Space Network, the
 Congressional Black Caucus, and Apartheid South
 Africa"*

59. The Politics and Culture of Engineering

Room:

Chair: Frederik Nebeker (IEEE History Center,
 Rutgers)

Organizers: Ann Johnson, University of South
 Carolina, and Atsushi Akera, Rensselaer

Comment: Ross Bassett (NCSU)

Martin Reuss, US Army Corp of Engineers,
*"Searching for a Definition: Hydrology between
 Craft and Science in the United States"*

Ann Johnson, University of South Carolina, *"The
 Making of a Masculine Culture: Professionalization,*

Mathematization and the Gendered Epistemology of 19th Century American Engineering

Yiannis Antoniou, Hellenic Open University, “*Greek Engineers in the Postwar Period: Technology, Economic Development, and Political Conflict*”

60. Forcing the Future: Shaping the Trajectory of Technologies

Room

Chair: TBD

Organizer: Jonathan Coopersmith, Texas A&M University

Comment: Joe Corn, Stanford University

James R. Fleming, Colby College, “Past Projections of Future Climate Control”

Geert P. J. Verbong, Technical University Eindhoven, “*Is small more beautiful? The role of visions in the development of electricity systems*”

Jonathan Coopersmith, Texas A&M University, “*Lies, Damn Lies, and Predictions: The role of market research in shaping technological expectations*”

Tuesday, October 14, 2008, 10.15 – 11.40 am, morning paper sessions II

61. Failed Standards

Room:

Chair: TBD

Comment: TBD

Irene Anastasiadou, University of Technology Eindhoven: “*Designing an automatic coupler for Europe*”

Jeffrey Mitchell Brideau, University of Maryland: “*If You Give Them the Inch, They’ll Take 1.609344 Kilometres: The Demise of National Metrication in the United States*”

Kai Reimers / Stephan Sommer, RWTH Aachen: “*Development of EDI Standards in German Textile and Clothing Industry*”

62. Creating a Liveable City

Room:

Chair: Cornelis Disco, University of Twente, The Netherlands

Comment: Nathalie Roseau

Robyn S Metcalfe, Boston University: “*The Removal of the Smithfield Live Cattle Market in 19th Century London*”

Arthur Molella, Smithsonian’s Lemelson Center: “*Adriano Olivetti’s Utopian Challenge to the Industrial Metropolis*”

Victor Marquez, Cornell University: “*Negotiating Landside-Airside in an Early American Airport: New York La Guardia Terminal 1933-1939*”

63. Building Technologies in Cold War Asia-Technical Assistance Programs, International Collaborations, and Technological Dialogue

Room:

Chair: John Krige, Georgia Institute of Technology

Organizer: Honghong Tinn, Cornell University and Tae-Ho Kim, Seoul National University, Seoul, Republic of Korea

Comment: Jacob Darwin Hamblin, Clemson University

Tae-Ho Kim, Seoul National University, Seoul, Republic of Korea, “*Re-discovered Cooperation: the IRRI’s Contribution to the ‘Green Revolution’ in South Korea, 1965-1980*”

Suzanne M. Moon, University of Oklahoma, “*The U.N. and Southeast Asian Industrialization: Nationalism, Internationalism, and Cultures of Technological Collaboration, 1960-1975*”

Honghong Tinn, Cornell University, “*Tinkering with Overseas-Shipped Mainframe Computers in Cold War Taiwan, 1945-1965*”

64. Appropriation Cars by Leisure in Denmark, Italy, and Soviet-Russia

Room:

Chair: Adri Albert de la Bruhèze, University of Twente, The Netherlands

Organizer: Adri Albert de la Bruhèze, University of Twente, The Netherlands

Comment: Frank Schipper, Technical University of Eindhoven, the Netherlands

Michael Wagner, Aalborg University, Denmark, *"Appropriating the car by touring in Denmark"*

Silvia Cassamagnaghi, University of Milan, Italy, *"Fiat 500: A new idea of leisure in Italy (1957-975)"*

Giovanni Moretto, University of Milan, Italy, *"The Zhiguli Revolution. A Soviet Story"*

65. The Technology of Feeding and Breeding: Corn, Meat, and Tobacco

Room:

Chair: TBD

Organizer: Hahn, Barbara, Texas Tech University

Comment: Deborah Fitzgerald, Massachusetts Institute of Technology

J. L. Anderson, University of West Georgia, *"The 1970 corn leaf blight epidemic and the American hybrid seed industry."*

Mark R Finlay, Armstrong Atlantic State University, *"'Consumerist Terrorists': Battles over the Technological Risks and Benefits of Agricultural Antibiotics in Postwar America."*

Barbara Hahn, Texas Tech University, *"Tobaccos Orinoco and Sweet-Scented: Cultivation Methods, Varietal Types, and Disease Resistance from Linnaeus to Genetics."*

66. Entrepreneurs, Inventors, and Innovators

Room:

Chair: Hans-Joachim Braun, Helmut-Schmidt-University, Hamburg

Comment: Berni Carlson, Virginia Tech

Albert Churella, Southern Polytechnic State University: *"The First Container Revolution: Why Malcolm McLean did not Invent Containerization"*

Elizabeth Petrick, University of California, San Diego: *"Imagining the Use of Computers: The Writings of Homebrew Computer Club Hobbyists"*

Ivan Tchalakov, University of Plovdiv, Bulgaria: *"The Socialist Entrepreneurs"*

67. Science, Technology, and The Social Functions of our Disciplinary Boundaries OR Is SHOT Necessary?

Room:

Organizer: Amy Slaton, Drexel University

A Round-Table Conversation:

Maria Rentetzi, National Technical University of Athens, *"How Faithful Are We to the Conventional Split between History of Science and Technology? Looking at Laboratory Technologies Through a Gender Perspective"*

Amy Slaton, Drexel University, *"Race and the Work of Boundary-building in Science and Engineering"*

Jessica Wang, University of British Columbia, *"Instrument, Instrumentalisms, and the Science-Technology Divide"*

PRESIDENT'S MESSAGE

One of the most exciting aspects of my association with SHOT, as a long-time member and more recently as an officer, has been the ongoing internationalization of our society. Right from the start, pioneers in the society made a commitment to engaging an international community through alliances with groups and individuals outside North America. These efforts grew institutionalized with creation of the international scholars program. The summer of 1992 brought many of us to Uppsala and our first meeting outside North America, a tradition we have continued every fourth year since, including this coming October in Lisbon. And as of the first day of January, we will be led for the first time by a non-American president, Arne Kaijser.

In recent years, Arne has taken primary responsibility for re-invigorating our internationalization efforts. He headed the tedious process of revising our constitution in order to re-define the scholars program and place it on more secure footing. More importantly, he has worked in less conspicuous ways to foster an active community of members who are genuinely engaged in the affairs of the society. When the officers and Executive Council assembled this year for its spring meeting in Detroit, nearly half of the group came from outside the United States.

Much of that meeting was devoted to a planning session, dubbed the Beacon Workshop, at which the officers and council assessed the state of the society and plotted a course for its future. One of the primary objectives to emerge from that exercise was to further enhance our internationalization. We discussed ways to grow our non-American membership, especially in areas beyond Western Europe.

The task is daunting. Many areas of the world have extraordinarily small communities of scholars pursuing the history of technology. The gaps in income, moreover, pose steep obstacles. The escalating costs of attending our annual meetings are a concern to those of us who enjoy extraordinary material prosperity. Imagine the burdens for someone whose entire monthly income might be swallowed by a few nights' stay in an urban hotel.

Beyond the numbers issues, internationalization also requires us to think more creatively and flexibly about the culture that sustains SHOT. We need to recognize and accommodate participants whose skills in English lag behind those of us raised in North America and Western Europe and who have limited access to research tools many of us take for granted. Above all, we need to reach out and embrace these new visitors to our meetings, as SHOT has done so impressively throughout its history for young scholars and other underrepresented groups.

We are making efforts to bridge these gaps. The new international scholars program promises to provide an added measure of nurturing for members from underrepresented areas, in addition to travel support. On the financial front, recent large donations from the Dibner Foundation and from Frances Dibner helped endow a travel account that should generate a steady flow of travel funds in support of international scholars. Shortly after I returned from the Beacon Workshop, I received word of another generous donation from a long-time friend and SHOT member who had targeted international travel as his priority. Still, we have a long way to go.

As we celebrate our fiftieth anniversary, SHOT can take considerable pride in its successes in transforming itself into a genuinely international group. Few other learned societies founded in the United States can boast a more impressive record. We are out in front and blazing an experimental trail in attempting to transcend borders to this degree. If you have doubts, take a look through the program for the upcoming meeting in Lisbon. We are surely "Looking Beyond," and in the years and decades to come, I trust we will travel there as well.

Steve Usselman
Georgia Tech

ANNOUNCEMENTS**TEMSIG**

TEMSIG is looking for a new chair. The Technology Museums Special Interest Group (TEMSIG, formed 1984) provides a forum for those interested in the material legacy and public presentation of the history of technology. Chair responsibilities include maintaining a membership email list, posting periodic updates, and organizing a lunch for members at the annual meeting. In recent years, TEMSIG has focused on bringing together museum and academic historians by organizing sessions paired with museum tours, which explore issues of common interest. For more information, please contact Maggie Dennis, Lemelson Center, Rm. 1016 MRC 604, National Museum of American History, Smithsonian Institution, Washington, DC 20013-7012, dennism@si.edu.

Sites Committee

SHOT's Sites Committee is seeking proposals from scholars and institutions outside North America to host the SHOT annual meeting in Summer or Fall 2012. Interested parties should e-mail a letter of intent by October 1, 2008. The letter of intent will signify an intention to submit at a later date a more formal proposal to host the annual meeting. The letter should briefly describe local institutional support, members of a local arrangements committee, possible hotel and meeting accommodations, suggested tours of interest to historians of technology, web hosting abilities, and proposed dates.

The Sites Committee encourages potential hosts to contact us in advance of the October 1, 2008 deadline to discuss the letter in more detail. Committee members include Molly Berger, chair, molly.berger@case.edu, Maja Fjaestad majaf@kth.se, and Tom Zeller tzeller@umd.edu. Please email your letter of intent to the Sites Committee, with cc to SHOT secretary Amy Bix shot@iastate.edu, SHOT president Steve Usselman steve.usselman@hts.gatech.edu, and SHOT vice president Arne Kaijser arnek@kth.se.

Lemelson Center

The Lemelson Center is pleased to announce three new fellows selected for 2008. Andrew Bozanic (Ph.D. Candidate, Hagley Program, University of Delaware) examines the interplay between makers and users in the social construction of the acoustic guitar in the 20th century, from innovative production techniques and designs to inventive new playing styles. Shane Landrum (Ph.D. Candidate, Brandeis University) will explore the punch card tabulation equipment designed by inventor Herman Hollerith and his major competitor James Powers in the late 19th century for his dissertation, which focuses on the

development of American birth registration systems. Damon Yarnell's (Ph.D. Candidate, University of Pennsylvania) research looks at an often-overlooked aspect of mass production at the Ford Motor Company in the early 20th century—the role of purchasing agents in the company's system of procurement, quality control, inventory, shipping, and materials handling.

**2008 American Association for the
History of Medicine
Award Winners**

We are pleased to report the following awards announced at the annual meeting of the AAHM in Rochester, New York, April 10-13, 2008.

The Osler Award for the best essay in the history of medicine written by a medical student:

The winner was:

Ronald W. Alfa (Stanford University School of Medicine), "Redefining Inert: The Birth of the Placebo in American Medicine"

There were two honorable mention awards: David P. Johnson (Duke University School of Medicine), "Dr. George W. Harley: A new perspective of a 20th century medical missionary's influence on 21st century global health"

Amanda V. Thornton (Dartmouth Medical School), "Coerced Care: Thomas Thistlewood's account of medical practice on sugar plantation slaves in colonial Jamaica, 1751-1786."

The Shryock Medal winner for the best essay on medical history by a graduate student:

The winner was Stephen E. Mawdsley (University of Alberta), "Polio and Prejudice: Charles Hudson Bynum and the Racial Politics of the National Foundation for Infantile Paralysis, 1944-1954."

The William H. Welch Medal for the best book in the history of medicine in the last five years: the winner this year was Frank M. Snowden for *The Conquest of Malaria: Italy, 1900-1962* (Yale 2006)

The Garrison Lecturer who will deliver the keynote speech at the annual meeting in 2009 in Cleveland Ohio will be Katherine Park.

The winner of the **Jack D. Pressman-Burroughs Wellcome Career Development Award** was Dr. Mical Raz from the program for history of medicine at Tel Aviv University for her project "Rereading Lobotomy: Crossing Boundaries in the History of Psychosurgery in the United States, 1935—1955."

The Association's **Lifetime Achievement Award** was given to Dora B. Weiner.

J. Worth Estes Prize for a published essay of outstanding merit in the history of pharmacology was given to Jonathan Simon for his essay "Emil Behring's Medical Culture: From Disinfection to Serotherapy," *Medical History*, 51, 2007, 201-218.

CALLS FOR PAPERS

National Council on Public History 2009 Annual Meeting

"Toward Broader Horizons"

April 2-5, 2009, Providence, Rhode Island

The program committee looks forward to proposals that connect local stories to international issues, capture the role of activism in public history and related disciplines (i.e. public anthropology, folklore, art, economics, and sociology), speak to social justice and environmental politics, commemorate individuals who have brought about change, and, more generally, innovative ideas in the content and practice of museums, historic sites, archives, and other public

venues. Deadline for submissions is **September 3, 2008**.

For more information, including submission guidelines, visit

<http://ncph.org/Conferences/2009/tabid/304/Default.aspx>.

Engineering Studies

The journal *Engineering Studies* is now accepting manuscripts. Please consider submitting a manuscript, and share this message with other potential authors. *Engineering Studies* will be published by Routledge three times yearly beginning in 2009.

The editors are Gary Downey (Virginia Tech) and Juan Lucena (Colorado School of Mines). They are supported by Jen Schneider (Colorado School of Mines) as Managing Editor and Brent Jesiek (Purdue) as Web Editor, as well as 10 Associate Editors and 30 Editorial Board members

For submission guidelines, see:

www.informaworld.com/engineeringstudies.

Aims and Scope

Engineering Studies is an interdisciplinary, international journal devoted to the scholarly study of engineers and engineering. Its mission is threefold: (1) to advance research in historical, social, cultural, political, philosophical, rhetorical, and organizational studies of engineers and engineering; (2) to help build and serve diverse communities of researchers interested in engineering studies; and (3) to link scholarly work in engineering studies to broader discussions and debates about engineering education, research, practice, policy, and representation. *Engineering Studies* is published three times yearly by Routledge, an imprint of the Taylor & Francis Group.

Vision Statement

The field of engineering studies is a diverse, interdisciplinary arena of scholarly research build around the question: What are the relationships among the technical and the nontechnical dimensions of engineering practices, and how do these relationships change over time and from place to

place? Addressing and responding to this question can sometimes involve researchers as critical participants in the practices they study, including, for example, engineering formation, engineering work, engineering design, equality and diversity in engineering (gender, racial, ethnic, class, geopolitical), and engineering service to society.

Engineering Studies juxtaposes contributions from distinct disciplinary and analytical perspectives to encourage authors and readers to look beyond familiar theoretical, topical, temporal, and geographical boundaries for insight and guidance. The diversity in the editorial staff and board is designed to map the diversity in the field and support its persistence. While prospective authors are invited to reflect on and anticipate how their work might prove helpful to others elsewhere, both within the academy and beyond, they can also feel comfortable imagining familiar audiences and producing familiar modes of analysis and interpretation. The heterogeneity of perspectives in engineering studies is its lifeblood, and the goal is high quality scholarship in every case.

INES

Engineering Studies is the journal of the International Network for Engineering Studies (INES; www.inesweb.org [under active construction]). INES was founded in Paris in 2004 with the mission that now defines the journal. It operates as a collection of overlapping intellectual communities, linked by meetings, workshops, conferences, and the host website. It is explicitly designed to complement memberships in other professional societies, including SHOT.

You can join the INES listserv by sending a message to ines@listserv.vt.edu. Include SUBSCRIBE [first name] [last name] in the body of the message.

FELLOWSHIPS & GRANTS

Lemelson Center

The next deadline for fellowship proposals is January 15, 2009. The Lemelson Center also accepts proposals for its Travel to Collections Award program throughout the year. For more information

about research opportunities at the Lemelson Center, please visit:

http://invention.smithsonian.org/resources/default_research.aspx.

Bakken Travel Grants

Artists and scholars are invited to apply for travel fellowships and grants, which the Bakken Library and Museum in Minneapolis offers to encourage research in its collection of books, journals, manuscripts, prints, and instruments. The awards are to be used to help defray the expenses of travel, subsistence, and other direct costs of conducting research at the Bakken.

Visiting Research Fellowships are awarded up to a maximum of \$1,500; the minimum period of residence is two weeks, and preference is given to researchers who are interested in collaborating informally for a day or two with Bakken staff during their research visit. Research Travel Grants are awarded up to a maximum of \$500 (domestic) and \$750 (foreign); the minimum period of residence is one week.

The next application deadline for either type of research assistance is **February 20, 2009**. For more details and application guidelines, please contact:

Elizabeth Ihrig, Librarian
The Bakken Library and Museum
3537 Zenith Avenue So.
Minneapolis, MN., 55416
tel 612-926-3878 ext. 227
fax (612) 927-7265
e-mail Ihrig@thebakken.org
www.thebakken.org

Radcliffe Institute for Advanced Study

The Radcliffe Institute for Advanced Study at Harvard University awards approximately 50 fully funded fellowships each year. Radcliffe Institute fellowships are designed to support scholars, scientists, artists and writers of exceptional promise

and demonstrated accomplishment, who wish to pursue work in academic and professional fields and in the creative arts. Applicants must have received their doctorate or appropriate terminal degree by December 2007 in the area of the proposed project. Radcliffe welcomes proposals from small groups of scholars who have research interests or projects in common. Please check the Web site for more information.

The stipend amount is \$70,000. Fellows receive office space and access to libraries and other resources of Harvard University. During the fellowship year, which extends from early September 2009 through June 30, 2010, residence in the Boston area is required as is participation in the Institute community. Fellows are expected to present their work-in-progress and to attend other fellows' events.

Applications must be postmarked by October 1, 2008.

For more information, visit our Web site at www.radcliffe.edu.

Call or email for an application:

Radcliffe Application Office

8 Garden Street

Cambridge, MA 02138

ph: 617-496-1324

fax: 617-495-8136

fellowships@radcliffe.edu

Grants of the Institute for the History of Aluminium

Every year, the Institut pour l'histoire de l'aluminium (Institute for the History of Aluminium), a non-profit association based in Paris, awards grants to students seeking to prepare a research dissertation (Master 1 and 2) or a thesis (PhD) related to aluminum for an amount of 2,300€. Applications are selected on the basis of the applicant's quality and the interest of the proposed subject. Every approach may be considered: industrial history, economic history, human and industrial geography, sociology, history of management, history of art, etc. Students will also receive scientific support, including help to access the companies' archives and documentation, inclusion in

the association's standing research committees, and meetings with aluminum industry witnesses.

The deadline for submitting applications for the academic year 2008-2009 is **November 1st, 2008**. For more information: www.histalu.org, "research grants" section.

Friends of Fiber Art International

Grant Guidelines & Application

Purpose of friends of fiber art international:

To increase appreciation and understanding of contemporary art in fibrous materials, Friends of Fiber Art International will:

Disseminate information about and encourage collection of contemporary fiber art

Support museum shows of fiber art through direct funding and maintenance of the Registry of Contemporary Fiber Art Collections

Encourage scholarship and critical writing about art constructed in fibrous materials

Stimulate fiber art exhibition in galleries

Educate collectors and potential collectors through seminars, tours and visits to fiber art collections.

Eligible projects: Projects which address the Friends of Fiber Art International mission as stated above in "Purpose" are eligible for grant support. The Board of Directors makes the awards. In the past, Board members have favored giving support to highly visible projects that will impact a large audience thereby raising the public's appreciation of fiber art--such as exhibitions of contemporary fiber art that were chosen by professional curators, documented by catalogs, and traveled to at least two cities. While the Board expects to continue such support, it is receptive to new ways in which it may fulfill Friends' mission.

Not funded:

Historical or ethnic textile projects

How-to workshops or technique demonstrations

Children's programs

Exhibitions in which the curator is also an exhibitor (Friends of Fiber Art International has prepared a list of museum curators who are interested in art in alternative media. They may agree to curate or jury your show. To request a copy of the curator list, send a SASE to the above address.)

Purchase of art work
 Endowment
 Annual operating expenses
 Equipment purchase and construction
 Overhead
 Fringe benefits
 Customarily grants are not made in direct response to applications from individuals.

Funds available: Each year since its founding, Friends has given approximately five grants in partial support of contemporary fiber art projects. Up to now, Friends grants have been modest, between \$250 and \$5000 per grant. In the final quarter of the fiscal year (ends July 31), a total grant pool is identified and allocated. By 1998 Friends of Fiber Art International had awarded a total of more than \$100,000. The process continues and the total of awards grows.
DEADLINE: Applications must be submitted by **July 1**.

To receive a grant application, please contact lstrand@siue.edu
 Box 468, Western Springs, IL 60558
 Telephone (voice and fax) 708-246-9466

CHECK THE WEBSITE FOR ANNUAL MEETING UPDATES

ELECTIONS

The 2008 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, or there is information on the website

about how to get your membership number from JHU press.

You may alternatively return the paper ballot from the printed newsletter. Please note that, as with previous years, faxed copies will not be accepted. The deadline for submitting ballots is **September 12, 2008**.

CANDIDATE BIOGRAPHIES

Vice President / President Elect:

Ronald Kline—I am honored to be nominated to run as a candidate for Vice President / President-Elect of SHOT. I vividly remember my first SHOT meeting. In 1980, as an older graduate student at the University of Wisconsin studying the history of technology and science under Terry Reynolds and Ron Numbers, I gave a paper on Charles Steinmetz's public image in one of the "Works in Progress" sessions at the annual meeting in Toronto. Roe Smith chaired the session and made me feel welcome in the informal community of scholars that was SHOT.

Like many members, I have valued that collegiality over the years. To help foster the SHOT community, I have served in several offices: on the Robinson Prize Committee, the Dexter Prize Committee, the Editorial Board, and as an Advisory Editor and now a Contributory Editor to *Technology and Culture*. I have helped establish two prizes: the IEEE Life Members' Prize in Electrical History in 1988; and, with Deborah Fitzgerald, the Sally Hacker Prize in 1999. I am proud to say that two of my graduate students from Cornell University, Ray Fouche and Suzanne Moon, have carried on that tradition.

The research interests of historians of technology have changed substantially during my quarter of a century in SHOT. The old questions of the relationship between science and technology and the internalism-versus-externalism debate--both of which derived to a great extent from interactions with the history and philosophy of science--have given way to a contextualist history of technology that asks new questions about workers, gender, race, technological determinism, users of technology, politics, colonialism, and the environment. I have been

fortunate to teach graduate students who have helped move my own research and theirs in those directions.

At least I thought the old questions had been put aside or transformed into other areas of research. The well-attended panel session at the 2007 SHOT meeting in Washington, D.C., on Paul Forman's critique of historians of technology as being "anti-science" and "ideological," showed that tensions over the science-technology question were still present in some form.

It may be, as Steve Shapin has argued in regard to the internalism-externalism debate in the history of science, that the debate over the relationship between science and technology in the history of technology was never resolved, but simply dropped. The rise of a constructivist history and sociology of science and technology, which Shapin himself helped to foster, bypassed the issue by promoting the concept of "technoscience." But that problematic concept has not been a satisfactory solution from my point of view, i.e., from my understanding of the history of technology, the history of science, and the type of sociology of technology advocated by my colleague Trevor Pinch.

My experience as a panelist at the Forman session in D.C. has helped shape my "vision" as a candidate for Vice President/President-Elect of SHOT: to strengthen the ties and create new ones between SHOT and other professional societies. I would like to see more cooperation not only with the History of Science Society and its journal, *Isis*, but with the Society for the Social Studies of Science and its journal, *Science, Technology, and Human Values*, as well as the *Social Studies of Science*, edited by my colleague Michael Lynch at Cornell. I would also like to see increased cooperation between SHOT and the American Historical Association and its journal, *American Historical Review*. The effort by SHOT to jointly publish historiographic pamphlets with the AHA in the history of technology, edited by Bob Post and Pam Long, is a big step in this direction. The eight pamphlets published thus far--in the areas of technology and utopia, transportation and colonialism, technology in the European Middle Ages, transport in the U.S., technology transfer in East Asia, technology in China, and the military-industrial complex--should greatly increase the visibility of the history of technology in the historical profession as a whole. Similar efforts could be

undertaken with HSS and SSSS. We could also organize more joint sessions, conferences, special issues of journals, and other activities with these societies.

The need for increasing our efforts to look outward was brought home to me recently by a review of Maury Klein's book, *The Power Makers: Steam, Electricity, and the Men Who Invented Modern America*, in the May 12, 2008, issue of the *New Yorker*. Written by Jill Lepore, a professor of colonial, Revolutionary, and antebellum American history at Harvard, "Our Own Devices: Does Technology Drive History" barely draws upon work in the history of technology. Although Lepore depends on Robert Friedel's *A Culture of Improvement* and an essay by Leo Marx to criticize Klein's remarkably strong belief in technological determinism, the long essay does not mention the work of Tom Hughes, David Nye, Roe Smith, Ruth Cowan, and a host of other SHOT members on the social history of technology in the nineteenth and twentieth centuries.

Clearly, there is a lot of work to be done to extend the history of technology beyond the collegial halls of SHOT.

Christine MacLeod – Of all the pieces I've ever been asked to write this must be the least expected! To echo previous nominees to the vice-presidency, the initial surprise and honour of nomination are soon tempered by a sense of the responsibility and hard work involved in being at the helm of SHOT.

So, why stand? First, because SHOT at 50 is in excellent shape and poised to develop in exciting and important ways with which I feel in tune. Second, because SHOT provides a friendly, open and stimulating environment that enhances my professional life: it's become an intellectual home, and I recognize that means helping maintain it and encouraging others to get involved, enjoy its benefits and spread the word. But before outlining my vision for SHOT, let me introduce myself.

I was born in the textile district of West Yorkshire but have spent most of my life in southwest England. My first degree is in History from Oxford, but final-year

courses on the industrial revolution and the seventeenth-century 'scientific revolution' launched me on a new trajectory. Then a PhD student at Cambridge with economic historian, Donald Coleman, as my advisor, I researched the early history of the English patent system. This led initially to acquaintance with multifarious technologies (becoming a 'Jill of all trades and mistress of none') and ultimately to my first book, *Inventing the industrial revolution: the English patent system, 1660-1800* (Cambridge, 1988), published while I was a research fellow at Clare Hall, Cambridge.

Since 1991 I have lectured in economic and social history in the Department of Historical Studies at the University of Bristol, and was promoted to a chair in history in the new School of Humanities in 2007. It requires some ingenuity to teach courses in the history of technology within a traditional History syllabus, which has spurred my involvement in inter-disciplinary initiatives.

I helped to establish an MSc in Women's Studies during the 1990s, for which I taught a course on 'Women and technology in industrial societies'. In 2004, a group of us convinced the University to support an inter-faculty course in Sustainable Development, which immediately recruited over 100 students and led, with other environmental initiatives, to Bristol being named 'Green University' of 2007 by the Times Higher Educational Supplement. For me, it's an opportunity to present the industrial revolution in a more rounded perspective than the usual celebration of economic growth permits. My other recent preoccupation, *Heroes of invention: technology, liberalism and British identity, 1750-1914* (Cambridge, 2007), explores the changing image of the inventor and competing explanations of invention, which had implications not only for the patent system but also nineteenth-century British politics and culture.

It was through *Technology & Culture* that I first encountered SHOT. Naturally, I was thrilled when *T&C* published two early papers, including one in a special issue on patents in 1991. Between 1994 and 2001, I was an advisory editor. It was only in London in 1996, however, that I managed to attend my first annual meeting—testimony to the value of SHOT's policy of holding every fourth meeting outside the USA! Election to the Executive Council

in 2003-6 provided a welcome opportunity to become more fully engaged in SHOT, and I am currently serving on the Sally Hacker Prize Committee, which must be one of the most enjoyable 'jobs' there is.

My research into patents has made me eclectic in my affiliations. In 1993-6, I was elected to the Council of the Economic History Society and in 1997-2000 was book reviews editor for the *Economic History Review*. I also belong to the British Society for the History of Science, the Social History Society, and the Association of Business Historians, and have acted as an academic advisor to the Science Museum in London and the *ss Great Britain* Museum in Bristol. Equally it has encouraged my collaboration with colleagues in Europe, not least through the British Academy-sponsored 'Patents in History' network and now the European Commission's 'Culture and Innovation Dynamics' project. In 2002, I spent two months teaching and researching in Paris, as Professeur Invitée at the Conservatoire National des Arts et Métiers (CDHT), and continue to participate in its activities.

Not surprisingly, given my background, I am enthusiastic about SHOT's initiatives to expand both its international reach and its links with other disciplines (including mainstream historical scholarship). And it isn't only my environmental concerns that make me believe we need to 'think global, act local'. I should like to see SHOT explore the feasibility of establishing local, semi-autonomous branches, which would organize workshops and other events for SHOT's members and actively recruit new members. Already there have been highly successful workshops in South Africa and Eastern Europe, which provide a model for what can be achieved in parts of the world where history of technology is a fledgling subject and membership is still small.

Yet there is scope everywhere (even regionally perhaps within the USA) for something more regular, not as an alternative but as a complement to the annual meeting. Sensitivity to local circumstances and flexibility in leaving local groups to set their own agenda would be essential, while providing a budget to subsidize their activities. SHOT would benefit from a more visible presence 'on the ground' and all members enjoy a stronger local identity as historians of technology.

One particularly important goal of such an initiative would be to promote student membership; another, if local groups were keen, to organize outreach work especially in schools and colleges. SHOT has been imaginative in encouraging postgraduate membership and attendance at annual meetings, but even reduced costs still present major hurdles to the average student, especially if attendance entails international airfares. National or regional workshops and summer schools would offer students opportunities to exchange ideas and present papers in a more accessible, regular (and, dare one say it, less daunting) forum. In support of local outreach work,

SHOT might also consider establishing a sub-committee to promote our subject to a wider public, especially to school/college teachers and their students: one of its functions to organize an 'education' session at annual meetings.

As attendance at annual meetings grows and with it the number of concurrent sessions, it becomes harder to sustain the friendliness and opportunity for informal exchanges of ideas that have always distinguished SHOT's gatherings. Not only does this entail furthering extant initiatives to welcome first-timers to annual meetings, but also it emphasizes the value of Special Interest Groups. SHOT should be receptive to well considered proposals for new SIGs and to ideas that SIGs generate.

Finally, we need to be mindful of the environmental implications of our activities. Climate change presents us with the greatest challenge yet to the survival of humanity and of other life on our planet, and we have only a short time in which to respond. Collectively SHOT's membership constitutes a unique reservoir of expertise in analyzing how and why technological change occurs and how it impacts on our daily lives and environment in ways both intended and unforeseen. I see it as a priority to explore how we can make this valuable resource more available to policy makers and the public worldwide. Strengthening SHOT's links with scholars in rapidly industrializing countries such as India, China and Brazil could help set that agenda.

Secretary:

W. Bernard Carlson is a professor at the University of Virginia where he teaches in both the Department of Science, Technology, and Society as well as the Corcoran Department of History. Bernie received his A.B. in history from Holy Cross College and his M.A. and Ph.D. in the history and sociology of science from the University of Pennsylvania. He has written extensively on invention and business in America from 1870 to 1930, and his publications include *Innovation as a Social Process: Elihu Thomson and the Rise of General Electric, 1870-1900* (Cambridge, 1991) and *Technology in World History*, 7 volumes, (Oxford, 2005). With support from the Sloan Foundation, he is completing *Ideal and Illusion: A Life of Nikola Tesla* (Princeton) and is just starting to edit *The Handbook of the History of Technology* for Oxford University Press. With Wiebe Bijker and Trevor Pinch, Bernie co-edits the MIT Press book series, "Inside Technology: New Approaches to the History and Sociology of Technology;" over the past twenty years, the series has published forty titles.

As many of you know, I'm an old SHOT "hand." I've attended nearly every meeting over the past 30 years. I have served on the Executive Council, several prize committees, and as Head of Jovians Interest Group. In the late 1980s, I organized SHOT-sponsored sessions for annual meetings of the American Historical Association. I was Program Chair in 1986, I handled local arrangements for the 1995 SHOT-4S meeting in Charlottesville, and I am currently on the Finance Committee. As a result of my long involvement with SHOT, I not only understand the organization's procedures but also appreciate its culture and traditions. But more than maintain tradition, the coming years will require SHOT to revitalize the "infrastructure" of the field—the sources of funding for research and teaching, the graduate programs, and university positions. During our first 50 years, the founding fathers and mothers of SHOT created this infrastructure by nourishing relationships of all sorts—with the Smithsonian, the National Science Foundation, engineering societies like the IEEE, private foundations, wealthy individuals, and universities around the world. What concerns me is that it is all too easy to take this infrastructure for granted—that the grants and fellowships and jobs and

prizes have always been there and will always remain. In serving as your secretary, I would seek to strengthen the infrastructure and nourish the relationships needed for the history of technology to prosper as a field. Around the world, people are using technology to reshape their economies, society, and physical environments, and SHOT is vital for helping people make sense of the interplay of technology and society. I would be honored to help SHOT take up this key role for the twenty-first century.

Treasurer:

Hugh Gorman—As associate professor of environmental history and policy at Michigan Technological University, my work has focused on the interaction between policy, technology, and the environment. In *Redefining Efficiency*, for example, I examine the response of the U.S. petroleum industry to pollution concerns over the course of the twentieth century, focusing on interactions between policy, economics, and technological innovation. My latest project, tentatively titled *The Story of N*, involves using society's changing interaction with the nitrogen cycle as a lens through which to examine the notion of sustainability.

I believe that I can usefully contribute to SHOT by serving as its treasurer. Over the last six years, Richard Hirsh and the finance committee have done a great job in developing an investment strategy for SHOT's endowment, much of which has been set aside to fund the travel grants and scholarly prizes we award as an organization. I see the task of managing these funds and keeping the financial aspects of the organization in mind as we go forward to be extremely important. Having a seat at the table to discuss that future would also be exciting.

In the way of background, I grew up in Providence, Rhode Island and was always wondering how the old industrial facilities that blocked my access to the water came to be. At the time, I did not realize that I was raising historical questions and, in a financially wise but interest weak career choice, ended up studying electrical engineering at Rensselaer. In my first job, which involved designing motor controls for Westinghouse subway equipment, I found that I was

more interested in things like subway routes (and how they came to be) than the design of the equipment, again not realizing that I was asking historical questions. After a handful of career changes, I eventually found my way to Carnegie Mellon's program in history and policy (and David Hounshell, Joel Tarr, and Ed Constant) and have not looked back since. My association with SHOT goes back to 1994 and currently I serve as the co-chair of the SHOT SIG Envirotech, which seeks to connect scholars interested in historical questions about technology and the environment.

Executive Council:

Ross Bassett is an associate professor of history at North Carolina State University and director of the Benjamin Franklin Scholars program (joint majors in engineering and humanities/social sciences) there. His first book, *To the Digital Age: Research Labs, Start-Up Companies and the Rise of MOS Technology*, was a history of semiconductor technology and industrial research in post-World War II America. He is now working on the history of Indo-American technical interactions in the post colonial period, looking particularly at MIT, the Indian Institutes of Technology and the development of information technology in India.

I have worked with Jack Brown to develop a special interest group to strengthen connections between SHOT and the engineering community. The engineering community is still an important constituency for SHOT that needs to be tended to. I have appreciated SHOT's efforts to be a truly global organization and believe SHOT should seek greater representation and participation from scholars in Asia, Africa, and Latin America. In my research trips to India, I have developed contacts with scholars of the history of science scholars in India.

Gregory Clancey is Associate Professor of History and Assistant Dean, Faculty of Arts and Social Sciences at the National University of Singapore. If elected to the Executive Council, one of my priorities will be to create a higher profile for our organization in Asia, where I live and work, and in other parts of the world where we're under-represented. In recent

years SHOT has built a strong trans-Atlantic bridge, and that's been greatly to our benefit. Reaching out to (and sustaining relationships with) like-minded scholars on the remaining continents presents a greater challenge. The technology-society relationship is a global one with innumerable local manifestations, however, and one of our tasks has to be to encourage its study everywhere, and recognize historians and allied scholars working farther afield.

I graduated from the MIT STS Program in 1998 and have since been teaching Japanese History and the History of Science and Technology at the National University of Singapore. For the last two years I've also been Assistant Dean of the Faculty of Arts and

Social Sciences, where one of my priorities has been to build an STS Research Cluster. We've recently hired six new scholars with this specialty across five different disciplines, with the goal of making Singapore a center for this type of research and teaching in Asia. In fact Asian scholarship is making a more general turn toward STS, so there is no better time for SHOT to forge connections. While everyone recognizes East and Southeast Asia is a producer and consumer of complex technology, the history and social study of this phenomenon still offers a huge field for inquiry.

On a personal note SHOT has been very generous to me over the years, and I figure it's time I paid some of that back.

Deborah G. Douglas is the Curator of Science and Technology at the MIT Museum. She has also held positions at the National Air and Space Museum, the NASA Langley Research Center, the Chemical Heritage Foundation and taught as an adjunct assistant professor at Old Dominion University. She received the PhD from the University of Pennsylvania in 1996. She has curated eighteen exhibitions on a wide variety of science and technology topics, including *Mind and Hand: The Making of MIT Scientists and Engineers*, an exhibition on the history of science and engineering education. She has created several distinctive new collections in the area of computing, robotics and calculating instruments. She is the author of *American Women and Flight since 1940* and numerous essays, articles and reviews about

aerospace history. For SHOT, she has served on the 50th Anniversary Planning Committee, Nominating Committee, and Dibner Prize Committee. In addition she has been the deputy chair of the Albatrosses and has served on the WITH Executive Board and edited the WITH newsletter. Outside of SHOT, she is a member of the history committees of the American Institute of Aeronautics and Astronautics and the Transportation Research Board of the National Research Council.

Few experiences in SHOT have moved me more than the two days last fall spent videotaping past winners of the Da Vinci Prize. Though I have long valued SHOT as a vital locus of the discipline, the stories and insights about the organization proved

transformative. No one denies that SHOT is in a period of significant transition. However, the opportunities before us--from new modes of communication to new sites and subjects for scholarly activity--are amazing. The challenge is to pick wisely among the myriad options. Those interviews last fall made clear the importance of having multiple perspectives when making such decisions. What I would offer in this discussion is a perspective informed by the experiences of working in museums as well as corporate and public sector positions. These are interesting times and I would welcome the opportunity to serve.

Daniel Holbrook—I am associate professor of History at Marshall University in Huntington, WV, where I teach World, U.S., and Public History, as well as History of Technology. I earned my Ph.D. at Carnegie Mellon University. My main research and writing has revolved around semiconductor technology and includes publications in *Business and Economic History*, *Strategic Management Journal*, and chapters in two edited volumes. I am currently working on a history of contamination control technologies in manufacturing, medicine, and materials; I am also researching the history of the Howard Johnson's restaurant chain.

I have been a SHOT member since 1989, and have served on several committees, including the Dibner Prize, the Hindle Fellowship, and the Program Committee. My experiences with the organization have been wholly positive, and thus, if elected to the

Executive Committee, I would not seek any profound changes. The moves in recent years toward internationalization, a better web presence, and more stable finances, among other initiatives, indicate that SHOT is in pretty good shape; its leadership is to be commended.

This strong position allows some room for further developments, two of which are of particular interest to me, and towards which I would work if elected. First, I believe that we should look at ways to make the Annual Meeting even better than it routinely is. We have made some moves in that direction in recent years: roundtables, poster sessions, and both longer and shorter session running times, sessions with pre-circulated papers, and other initiatives, have been tried, and discussions about Sunday sessions have been started. My time on the Program Committee indicated that SHOT members are fonts of creative thinking about the meeting, its organization, and its potential. Second, and somewhat related, I would work towards a more complete web-based process for the submission of materials for the annual meeting as well as for prizes and awards. In 2005 I chaired the Program Committee and, in cooperation with David and Blake Hounshell, instituted a web-based system for submission of paper and session proposals. While not without its minor problems, the system worked well, and reduced considerably the logistical problems of (e)mailing copies of proposals to committee members and communicating with submitters, and showed great potential in helping the Program Committee complete its work. I believe that it could do the same for most award and prize committees' work, and could make life easier for those submitting materials for the meeting and awards.

It is an honor to be nominated, and would be a great privilege to serve SHOT on its Executive Council.

Sara B. Pritchard—I am an Assistant Professor in the Department of Science & Technology Studies at Cornell. I received my Ph.D. from Stanford and held postdoctoral fellowships at MIT and the University of Pennsylvania before joining the faculty at Montana State University for several years.

My research interests include the history of technology, environmental history, and their intersection. I am finishing a book on the history of the transformation of France's Rhone River since 1945 and beginning new research on water management technologies across the French Mediterranean during the 20th century. I have taught undergraduate and graduate courses in the history of technology; gender and technology; science, technology, and risk; comparative environmental history; world history; and environmental ethics.

I have been a proud member of SHOT since 1996, in large part due to the organization's strong commitment to graduate students and junior scholars. I have particularly appreciated the collaborations fostered by SHOT's SIGs. I co-founded Envirotech with Jim Williams in 2000 and also served on the Kranzberg committee.

If elected to SHOT's Executive Council, I hope to continue the organization's recent efforts to broaden its membership and to expand how we define and think about the history of technology. I would like to see more collaborations with scholars outside North America and Western Europe as well as stronger ties to underrepresented groups within the United States. A multi-year initiative that sponsors NSF grants, workshops, and research and conference support might expand SHOT's activities in this area. I would also promote connections between SHOT and related disciplines and professional organizations. These might include the history of science (HSS), science and technology studies (4S), and environmental history (ASEH, ESEH), among others. I also believe it is critical that SHOT and its members continue to find ways to engage with "mainstream" history. Conference panels and special issues of journals such as the *American Historical Review* and *Journal of Modern History* might offer ways to do this.

Liba Taub—I am Director and Curator of the Whipple Museum of the History of Science, at the University of Cambridge, and Reader in History and Philosophy of Science. The Whipple plays an important role in the teaching and research of an academic department devoted to the History, Philosophy and Sociology of Science, Technology and Medicine. Prior to coming to Cambridge, I was at the Adler Planetarium and Astronomical Museum in

Chicago, a large public museum. While a significant proportion of my research is focused on ancient Greece and Roman science and technology, I also work and publish on scientific instruments—and museum practices relating to instruments and models—from later periods. Much of my teaching—and almost all of my supervision of research students—relates to tools and models of science and technology. I am currently serving on SHOT's committee for the Dibner Award for Excellence in Museum Exhibits, and I was co-organizer of the joint plenary session on 'The Public Presentation of Science and Technology' at the co-located meeting of SHOT and HSS held in Minneapolis in 2005. I work closely with other museum curators responsible for related material in the United States and Europe; I currently serve as on the Wissenschaftliche Beirat of the Deutsches Museum (Munich) and of the Mathematisch-Physikalischer Salon (Dresden).

Many people come to museums with the hope of seeing icons of technology and science; museums have unusual opportunities to encourage the study of the development of technology and its relations with society and culture—key aims of SHOT. If elected to the Executive Council, I would hope that my grounding in museums would offer SHOT additional links to the museum community (including university-based as well as public museums).

Editorial Committee:

Gail Cooper is an associate professor in the history department at Lehigh University (Pennsylvania), and is on the faculty of the STS program there. She received a Ph.D. in the history of technology at the University of California, Santa Barbara, where she also pursued an interest in East Asian Studies. She is the author of *Air-conditioning America* (1998) and continues to work on issues surrounding air conditioning, comfort and energy usage. Her current research focuses on the history of quality control in manufacturing in both the United States and Japan. She has been active in SHOT for a number of years, serving on the Sites Committee, the Nominating Committee, and the Executive Council. She has been a member of WITH since joining SHOT, and edited the historical reminiscences, *WITH at Twenty-one: A Look Back* (1997). She teaches about gender and

technology at Lehigh University and contributed an article on women and confectionery to *His and Hers: Gender, Consumption, and Technology*, Roger Horowitz and Arwen Mohun, editors.

“I think that one important issue that faces the journal is readership. Electronic access to current and past issues greatly increases the availability of *Technology and Culture* and can form a strong foundation for increasing the readership. Reaching new audiences has been a continuing concern of the society, and the journal should have an important place in those efforts.”

Rayvon Fouché is an Associate Professor of History and Director of the Program in Science and Technology Studies at the University of Illinois, at Urbana-Champaign. He holds a PhD in Science and Technology Studies from Cornell University. His work explores the multiple intersections and relationships between cultural representation, racial identification, and technological design. His first book, *Black Inventors in the Age of Segregation* (Johns Hopkins University Press), created a broader textured understanding of black inventive experiences. He has co-edited *Appropriating Technology: Vernacular Science and Social Power* (University of Minnesota Press) and edited the four volume *Technology Studies* (Sage Publications). His most recent journal articles are “The Wretched of the Gulf: Racism, Technological Dramas, and Black Politics of Technology,” *The Black Scholar* and “Say It Loud, I’m Black and I’m Proud: African Americans, American Culture, and Black Vernacular Technological Creativity,” *American Quarterly*. His current book project, *From Analog to Digital: Technology and the Politics of Identity*, examines what happens to communities when the technologies that define their existence change from analog to digital.

He has been a member of SHOT since the early 1990s and has been on the Joan Cahalin Robinson Prize Committee, Travel Grant Committee, and currently serves on the Kranzberg Fellowship Committee. If elected to the editorial board, he will aim to broaden the reach of the history of technology. In the ever-changing geo-political environment, the history of technology has become an important lens

through which to understand multiple social and cultural relationships. Similar to his current work examining technology as it moves back and forth across geographic and cultural borders, he would like to contribute to the diversification of the scholarly study of history, culture, and technology.

Nina Lerman is Associate Professor of History at Whitman College in Walla Walla, Washington (State), in the US. She came to history of technology by way of computer science and earned the PhD in History and Sociology of Science at the University of Pennsylvania in 1993.

A member of SHOT since 1988, she has served on the Robinson Prize Committee, the Nominating Committee, ad-hoc committees, and as Executive Board member of WITH; she was also a founding editor of the listserv H-SCI-MED-TECH. With Ruth Oldenziel and Arwen Mohun, she edited *T&C's* special issue on "Gender Analysis and the History of Technology" (1997) and the SHOT-sponsored reader *Gender and Technology* (Johns Hopkins, 2003). Recent work includes her contribution to SHOT's Anniversary workshop, "Industrializing Know-How: Technological Knowledge beyond the Exclusions of 'Technology'" (2007) and the article "New South, New North: Region, Ideology, and Access in Industrial Education," in Bruce Sinclair's volume *Technology and the African American Experience: Needs and Opportunities for Study* (MIT, 2004). She will be completing the book tentatively titled *Children of Progress: Technical Education and Social Order in a 19th-century City* during her upcoming sabbatical.

Lerman brings the perspective of someone who, employed as a broadly-defined US historian in an undergraduate college, has kept widely connected in our field but has also learned to converse with her "mainstream" colleagues. SHOT and *T&C* remain her scholarly home because of our relentless chronological, geographic, and methodological diversity, and our traditional welcoming of anyone with ideas to share. The potential of *T&C* to be both a vehicle for sharing work with other members of SHOT and also a journal of sustained interest to scholars not yet familiar with the field seems to me to be an ongoing challenge: single articles will show up

through online searching; how often do we tempt the searcher into browsing further?

Amy Slaton—I am an Associate Professor of History at Drexel University, where I also direct the Master's Program in Science, Technology and Society. I received a Ph.D. in the History and Sociology of Science from the University of Pennsylvania, and have been a member of SHOT's Executive Council, the Nominating Committee, and other committees within the society. I am also on the Editorial Board of the new journal, *Engineering Studies*, a project of the International Network for Engineering Studies. My historical research focuses on distributions of knowledge and authority within and among technical disciplines. An earlier project examined the means by which scientific testing, materials standards, and instrumentation altered the organization of labor in the U.S. building industries after 1900. I am now completing a book on understandings of race in U.S. engineering occupations since 1945 (forthcoming, Harvard University Press), tracking the social character of notions of technical rigor and merit. I am also co-editing (with Kali Gross) a volume of essays on the historiography of race and science, technology and medicine based on an NSF/SHOT-supported workshop held at Drexel last year.

If elected to SHOT's Editorial Board, my aims would be two-fold. First, as the boundaries between audiences for traditional print and electronic media rapidly blur, SHOT needs continually to assess how best to use its resources to serve and expand its readership. This is a challenging prospect because the technological and marketing conditions of scholarly publishing seem to change by the week, but it also draws our attention to an unprecedented opportunity suggested by electronic publishing: reaching audiences previously under-represented among readers of *T&C* and other SHOT publications. These include scholars and students at under-served institutions in the U.S. and global settings, as well as in disciplines that remain unfamiliar with the History of Technology. Crucially, this new exposure may widen our pool of contributors, as well. Second, as *T&C* begins to function under its new editor, the Editorial Board may help the society identify both the strongest existing traditions of the publication and new avenues for development, in the related matters of content and readership. In serving on SHOT's EC

I learned a tremendous amount about both the society and its audiences, and I would consider it a privilege to serve as a member of the Editorial Board.

Nominating Committee:

Jonathan Coopersmith—I am an Associate Professor of History at Texas A&M University, where I have taught since 1988. My first book was on the electrification of Russia and I am now completing a manuscript on the history of the fax machine and researching the intertwining of communication technologies and pornography. My career owes much to taxpayers, who have sent me to the Soviet Union as an IREXer, let NSF fund my fax research, and now will allow me to spend the next academic year at Tokyo Institute of Technology on a Fulbright. For SHOT, I served on the program and editorial committees and am active in the Jovian, Mercurian, and Promethean SIGs while also serving as WITH treasurer.

If elected to the nominating committee, I would continue and expand SHOT's tradition of broadly defined inclusiveness in seeking candidates. One new activity I would explore is impressing volunteers' host institutions with the importance of their work. For example, a letter from the SHOT president to a department head or university president praising a member's SHOT committee work might raise institutional awareness of that member and SHOT.

Mary Ann Hellrigel—A public historian and SHOT member for nearly twenty-five years, I have served on the Robinson Prize Committee, helped with local arrangements at the Cleveland meeting, and presented papers. I have a doctorate in history and the history of technology from Case Western Reserve University (1997), a master's degree in history and public history from the University of California, Santa Barbara (1989), and a bachelor's degree in history and biology from Rutgers, The State University of New Jersey (1983). My career has included university teaching and administration; public history posts including documentary editing and archival work as an editor of the Thomas A. Edison Papers (microfilm

edition); documentary film work; and high school teaching. Much of my research has focused on Thomas Edison and the commercial introduction of electricity. More recently, I have been toiling on an undergraduate primary source reader on the Industrial Revolution comparing textile manufacturing in Manchester, England and Lowell, Massachusetts.

During the past twenty-five years, SHOT increased and diversified its membership, became increasingly international (now in practice and not just in name), and welcomed historians of technology from many communities beyond the university. The Nominating Committee must continue nominating individuals representative of this spectrum and recognize untapped talent.



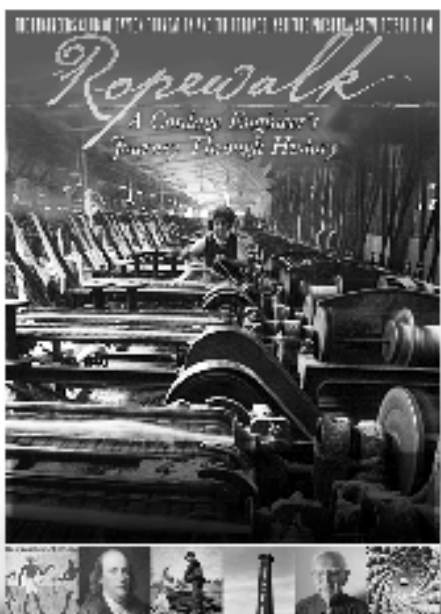
FACULTY POSITION School of Historical Studies Institute for Advanced Study Princeton, New Jersey

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Applications and nominations, including bibliography and *curriculum vitae*, should be sent by October 10th, 2008 by email to HSsearch@ias.edu or by mail to: Administrative Officer, School of Historical Studies, Institute for Advanced Study, Einstein Drive, Princeton, New Jersey 08540. All communications will be held in strict confidence. The Institute is an equal opportunity employer.

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The conference website address for the Lisbon meeting is:

www.shotlisbon2008.com

Future SHOT meetings:

***Pittsburgh, Pennsylvania
October 15-19, 2009.***

***Tacoma, Washington
September 29—October 4, 2010.***

***Please continue to check the
conference website regularly
in the next few months for
updates to the meeting program
and schedule.***

2008 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 12, 2008**. Alternatively, an online ballot is available through the SHOT website through **September 12, 2008**.

Vice President/President Elect

Two-year term

Vote for 1 out of 2

_____ Ronald Kline

_____ Christine MacLeod

Secretary

Three-year term

_____ W. Bernard Carlson

Treasurer

Three-year term

_____ Hugh Gorman

Executive Council

Three-year term

Vote for 3 out of 6

_____ Ross Bassett

_____ Gregory Clancey

_____ Deborah Douglas

_____ Daniel Holbrook

_____ Sara Pritchard

_____ Liba Taub

Editorial Committee

Five-year term

Vote for 2 out of 4

_____ Gail Cooper

_____ Rayvon Fouché

_____ Nina Lerman

_____ Amy Slaton

Nominating Committee

Three-year term

Vote for 1 out of 2

_____ Jonathan Coopersmith

_____ Mary Ann Hellrigel