



NEWSLETTER

OF THE SOCIETY FOR THE HISTORY OF TECHNOLOGY

No. 124 n.s. Summer 2011

WELCOME TO CLEVELAND!

For the 2011 annual meeting, SHOT returns to its birthplace in Cleveland, Ohio, for a co-located conference with the History of Science Society (HSS) and the Society for the Social Studies of Science (4S). SHOT last met in Cleveland in 1990. Cleveland is situated at the mouth of the Cuyahoga River on the shores of Lake Erie, almost equidistant between Chicago and New York City. It is an easy city for many of our members to reach, being within eight hours driving time not just from Chicago and New York, but also Washington, Baltimore, Philadelphia, Pittsburgh, Princeton, Madison, Ann Arbor, Blacksburg, South Bend, and Bloomington. For those who arrive by air, Cleveland is a Continental/United hub and is also served by Southwest as well as all the other major airlines.

We will be meeting in the Marriott Key Center, an easy walk to numerous restaurants and attractions (about which, more below). The Department of History and the College of Arts and Sciences at Case Western Reserve University are the hosts for the three societies' meetings.

A Brief History of Cleveland

Cleveland was founded in 1796, when a survey party from the Connecticut Land Company arrived at the mouth of the Cuyahoga to map out the so-called Western Reserve, a 3-million-acre tract to which the company had recently purchased title. The city was named after the leader of the party, Moses Cleaveland (the name of the city was soon shortened by one letter). General Cleaveland paced out a ten-acre Public Square in the style of the New

England villages, and the major street running east was baptized Euclid Avenue.

Cleveland's population took off when the Ohio and Erie Canal was completed in 1832, and again after a burst of railroad construction 20 years later. The Civil War brought economic prosperity to the city, and in the post-war period it quickly rose to be a major American industrial center. The city was not only a transportation crossroads between the Great Lakes and the Ohio/Mississippi river system, but

continued on page 3

In This Issue

Welcome to Cleveland	1
The Local Scene in Cleveland	3
Transportation to and from Cleveland	4
Secretary's Message	5
Program Overview	6
Events at the Annual Meeting	8
Special Interest Group Events	11
Preliminary Program	13
Tours	27
Registration Form	30
Conference Hotel in Cleveland	35
Preconference Workshop on Engineering Studies	35
Elections	36

Society for the History of Technology

Society Office: Dept of Science, Technology, & Society, University of Virginia

PO Box 400744, Charlottesville, VA 22904, USA

Phone: 434-987-6230 Fax: 434-975-2190

Email: shot@virginia.edu Website: <http://www.historyoftechnology.org>

Officers

President: Ronald Kline

Vice-President/President-Elect: Bruce Seely

Secretary: Bernie Carlson

Treasurer: Hugh Gorman

For Change of Address, Membership Information, and Journal Delivery Queries

Please contact Alta H. Anthony, Journals Division, Johns Hopkins University Press,

2715 N. Charles St, Baltimore, MD 21218, USA

Phone: 410-516-6938 Fax: 410-516-3866 Email: aha@press.jhu.edu

SHOT Newsletter Editorial Policies, Advertising Rates, and Submission Deadlines

The SHOT Newsletter is published electronically twice a year (April and October) and by mail twice a year (January and July) and is sent to all individual members of the Society. Items for inclusion will be published if received by the first 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 is also available online at SHOT's 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 or omissions. Advertising for books, journals, and other matters related to the interests of the Society and its members is accepted if received by the first day of the previous month.

Advertising Rates: Full page (7½" x 9½"):	\$200
Half page (7½" x 5" or 3" x 9½"):	\$150
Quarter page (3" x 5"):	\$100

The SHOT logo was created by Brickworks of London

SHOT WEBSITE ANNUAL MEETING PAGE

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

This page contains links to the program, the conference schedule, registration information, plus details on SIG (Special Interest Group) meetings, receptions, the SHOT members 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.

Welcome continued...

was also well situated to benefit from the sudden “Oil-Dorado” petroleum boom in western Pennsylvania.

Crucial to this new growth were the refinery operations of a Cleveland entrepreneur named John D. Rockefeller, but banking, steel, manufacturing, and railroads were also major industries. Residents ogled at the mansions on Millionaire’s Row, large companies made great fortunes, and immigrants from many countries provided much of the labor force for this rising Great Lakes city.

By early in the new century Cleveland was a colossus of heavy industry and, at nearly a million residents, the fifth largest city in the United States. But after the Second World War, Cleveland entered a period of decline. It largely shed its industrial roots and began to down-size; the city is now less than half a million, and the metropolitan area, at 2.9 million, making it the sixteenth largest city in the country. In 1969 an oil slick caught fire on the Cuyahoga River. The city became infamous for its pollution, and the butt of jokes of late-night comedians.

But a lot has changed in the last forty years! Although much remains to be done, a 2008 EPA survey found 40 species of fish in the stretch of the river between Akron and Cleveland, including steelhead trout and northern pike. Lake Erie, which almost choked to death on algae in the 1970s, is mostly clear again, to the joy of walleye fishermen. A smaller Cleveland is turning largely to service industries, specializing especially in health care, education, tourism and leisure activities. Today, when Clevelanders now hear the words “Burning River,” they think not of a historic embarrassment, but of the name of a highly regarded pale ale prepared by the Great Lakes Brewing Company, one of the finest craft breweries in the nation.

Cleveland Today

When in 2007 *The Economist* rated Cleveland (tied with Pittsburgh) as the most livable city in the United States, some Americans were surprised, but long-time residents of the city were not. Many of us who live

here—especially in beautiful inner-ring suburbs like Shaker Heights, Cleveland Heights, and Lakewood—regard the city and its environs as a secret American treasure. Cleveland has one of the best orchestras in the world, a leading American art museum, the best university in the state, an unparalleled “emerald necklace” system of parkland, and two world-famous medical centers, the Cleveland Clinic and University Hospitals Case Medical Center, as well as major league teams in baseball, football, and basketball (yes, even *sans* LeBron James).

The 500-acre district known as University Circle, on the eastern edge of the city five miles from Public Square, is one of the greatest concentrations of cultural institutions in the nation, with numerous museums and arts organizations clustered around the park-like campus of the host institution for this meeting, Case Western Reserve University. You can easily get from Public Square to University Circle using the “Healthline” Bus Rapid Transit route that runs down Euclid Avenue; it costs \$2.25 and takes 25 minutes.

THE LOCAL SCENE IN CLEVELAND

The programs of the three societies will provide an immense intellectual feast, but before and after sessions, do take a short walk to a wide selection of other attractions, including the Rock and Roll Hall of Fame and Museum, the Great Lakes Science Center, and numerous historic architectural gems. We are also planning several organized tours of some of the city’s highlights. See the details in this newsletter and on the website.

The immediate neighborhood of the conference hotels is fascinating. The Terminal Tower Complex is filled with art deco details that anticipated features of Rockefeller Center and the Empire State Building. When it opened in 1928, the 700-foot structure was the second tallest building in the world. The railway terminal over which the office tower sat now serves a light rail rapid transit system, but Tower City also hosts retail shops, an eleven-screen cinema, and an extensive food court.

In the first years of the twentieth century the Chicago architect Daniel Burnham directed a building program of monumental structures on a mall near Public Square, including the Cuyahoga County Courthouse (1911), the Cleveland City Hall (1916), Public Auditorium (1922), the Cleveland Public Library (1925), and the Federal Reserve Bank of Cleveland (1923). The Arcade (1890) – locals call it “The Old Arcade” – at Euclid and East Fourth Street is one of the country’s oldest indoor malls. It was modeled after the Galleria Vittorio Emanuele in Milan, and is another architectural treasure of Cleveland.

Just west of Progressive Field (the Cleveland Indians baseball stadium) lies the Hope Memorial Bridge (1932) across the Cuyahoga, which boasts art deco pylons depicting the city’s industrial and transportation history. The bridge was named to honor William Hope, Bob Hope’s father, a stonemason who helped build the structure. The bridge leads directly to West 25th Street and the West Side Market, a publicly owned market in a striking 1912 building. Possibly the grandest indoor public food market in the country, it features an astonishing variety of foodstuffs that reflects the city’s rich multi-ethnic history. In 2010 the Food Network named the West Side Market the nation’s best market for food lovers. Across the street is the fine craft brewery and restaurant, the Great Lakes Brewing Company.

Speaking of food, Cleveland has increasingly become a destination city for the culinary arts, and many of the city’s best restaurants are close by. In less than ten minutes, you can walk to East Fourth Street, a pedestrian street that features over a dozen fine restaurants with a wide range of specialties and prices – the best known of which is “Iron Chef” Michael Symon’s signature restaurant, Lola. A short walk in the opposite direction takes you to the Warehouse District of West Sixth and West Ninth streets, with a number of other terrific choices. If you want to go further afield, ask us locals about the great restaurants in the Tremont neighborhood, or University Circle, or elsewhere in the city.

TRANSPORTATION TO AND FROM CLEVELAND

Continental Airlines, which operates a hub at Cleveland Hopkins International Airport, has agreed to provide discounts to SHOT meeting attendees. The discounts range from 2-10% off the price of the ticket, plus an additional 3% discount if the tickets are booked on Continental’s website, <http://www.continental.com/web/enUS/default.aspx>. Please use the offer code **ZK9Y803338** when booking. If you are using a travel agent, please use the following codes: Z-Code ZK9Y, Agreement Code 803338. You will still get the ticket discount, although there may be other fees.

For those arriving by air, Cleveland Hopkins International Airport (CLE) is about 12 miles southwest of Public Square. A taxi to downtown costs about \$20 and takes about twenty minutes, but it is also easy to hop on a rapid transit (RTA) train, which costs \$2.25 and takes 25 minutes and takes you to the Terminal Tower, about a five minute walk from the Marriott. Board the RTA “Red Line” from inside the airport (there’s only one line, and it goes only one direction), get off at the Tower City station, which connects inside to the Renaissance Cleveland Hotel. You can also take a taxi from Tower City for the very short ride to the Marriott.

Amtrak also serves Cleveland, but be forewarned that trains from both the East and the West arrive and depart the city in the wee hours of the morning. In the era of Google Maps and MapQuest, it is probably not necessary to provide detailed driving directions, but the city is easy to reach via Interstates 80, 90, 71, or 77.

The average Cleveland high temperature in early November is 54° F., and the average low is 39°. Cleveland weather is unpredictable, so be prepared for a range of weather possibilities, often served up by winds off of beautiful Lake Erie. We should still be enjoying the end of the fall colors.

We are looking forward to seeing you in November!

*Molly Berger,
Co-chair, Local Arrangements Committee
Case Western Reserve University*

SECRETARY'S MESSAGE

Let me give you five good reasons why this year's annual meeting in Cleveland will be exciting and memorable. First and foremost, SHOT will be meeting its sister societies, HSS and 4S, and we have not participated in a three-way, co-located meeting since 1986! Indeed, the last time SHOT met with HSS was in 2005 and with 4S it was in 2003. To facilitate interaction with your colleagues in the other societies, we have worked hard to set up a three-society plenary and reception for Thursday night and we will have a larger-than-usual joint book exhibit at the Renaissance Hotel where HSS is meeting. In addition, there are co-sponsored sessions with HSS, and we will have copies of the HSS and 4S programs available at the SHOT registration desk. Your SHOT badge will allow you to attend sessions at the other meetings, and so you may want to check out the preliminary programs at <http://www.hssonline.org/Meeting/index.html> and <http://www.4sonline.org/meeting>.

Another reason that Cleveland will be special is that we are going back to our roots. As many of you know, SHOT was founded by Mel Kranzberg in 1958 when he was a faculty member at what was then Case Institute of Technology (and now Case Western Reserve University). Who would have imagined fifty-three years ago that SHOT would have grown into the lively, dynamic, international organization that it is today? To reflect on and help celebrate the evolution of our Society, Atsushi Akera has organized a special session on Mel, Case, and the founding of our field that will take place on Saturday morning, 5 November.

Still a third reason to come to SHOT in Cleveland is that Eda Kranakis and the program committee have put together an outstanding line-up of sessions. You will not only be able to hear papers on timely topics such as the disaster at the Fukushima nuclear power plant in Japan but also on topics ranging from superconductivity to technology and the body to the Tao of innovation. Supplementing the main program, there will be meetings to talk about diversity in

our organization and scholarship (Friday evening) as well as a special presentation by Paul Edwards on giving effective academic talks (Saturday noon). Rounding out the program will be a return performance on Friday night of "Beer, Pretzels, and Syllabi," where you can exchange teaching ideas while consuming libations.

Libations lead me to reason number four: creature comforts. The Marriott at Key Center, where SHOT will be headquartered, was voted the top Hotel in Cleveland by Urban Retreat and it's ranked in the top 25 US Hotels by Tripadvisor.com and Insiders Select by Expedia.com. We have a terrific rate (\$155/night) that includes free Internet. I would encourage you to book early with the Marriott so that you can stay in the best hotel in town!

And a fifth and final reason for coming to SHOT in Cleveland is simply that it's an opportunity to meet and learn and play with a group of friendly and outgoing scholars. People know that attending a SHOT meeting is a chance to simultaneously catch up on the latest scholarship and have some fun. Toward that end, our hosts from Case Western have organized some great tours – including a steel mill, the West Side Market, and the Dittrick Medical Museum – and we will have our annual silent auction with unusual items brought from near and far. We are also hoping to have a wine-tasting on Saturday night that will be as enjoyable as the one we had in Tacoma. I can't promise you that the President will teach you at the banquet to sing "Drink a shot for SHOT," but who knows?

I hope you enjoy the summer, and I look forward to seeing you in Cleveland this fall – for all the right reasons! As always, please email SHOT@virginia.edu if you have any questions or concerns.

Bernie Carlson
Executive Secretary

SHOT
Cleveland Meeting
2 November - 6 November 2011

PROGRAM OVERVIEW

Wednesday, 2 November

9 AM - 5 PM Workshop on engineering studies and the history of engineering, sponsored by Prometheans and the International Network for Engineering Studies (INES), Cleveland State University

Thursday, 3 November

8 AM - 5 PM Executive Council Meeting (open to all members)

11.30 AM - 4 PM Tour of ArcelorMittal Steel Mill

1.30 - 4.30 PM Tour of Cleveland's Industrial Past

2 - 4.30 PM Tour of Historic Cleveland Bridges

6 PM Three-Society Plenary, *Dealing with Disasters: Perspectives on Fukushima from the History and Social Studies of Science and Technology*, *Grand Ballroom, Marriott*

7.30 - 10 PM Three-Society Reception, *Great Lakes Science Center*

Friday, 4 November

7 - 8.30 AM Graduate Student Breakfast (please register in advance)

International Scholars Breakfast

8.30 - 10 AM Sessions

10 - 10.30 AM Coffee break

10.30 AM - 12.30 PM Sessions

11 AM - 2 PM A Visit to the Great Lakes Brewing Company and West Side Market

12.30 - 2 PM Lunch

*Overview of Funding Opportunities with the National Science Foundation, Fred Kronz (NSF)

*SIG on Computers, Information, and Society lunch

*Women in Technological History (WITH) lunch

2 - 3.30 PM Sessions

Sidney Edelstein Book Prize Roundtable

3.30 - 4 PM	Coffee break
4 - 5.30 PM	Plenary Lecture by the 2011 Recipient of the da Vinci Medal
5.30 - 7 PM	Beer, Pretzels, and Syllabi A Conversation on Diversity
9 - 12 PM	Hospitality Suite

Saturday, 5 November

7 - 8.30 AM	Envirotech SIG Breakfast <i>Technology and Culture</i> Editor's Breakfast (by invitation only)
8.30 - 10 AM	Sessions
10 - 10.30 AM	Coffee break
10.30 AM - 12.30 PM	Sessions
12.30 - 2 PM	Lunch *Members' Meeting (all welcome) *How to Give an Effective Academic Talk, Paul Edwards (University of Michigan) *Mercurians and Jovians SIG Lunch *Prometheans SIG Lunch
2 - 3.30 PM	Sessions Architectural Walking Tour of Downtown Cleveland
2 - 4.30 PM	Visit to the Dittrick Medical Museum
3.30 - 4 PM	Coffee break
4 - 5.30 PM	Sessions
4.30 - 5.30 PM	TEMSIG meeting in Lobby bar (following Dittrick tour)
6.30 - 7.30 PM	Cocktail Reception with wine tasting
7.30 - 9.30 PM	Awards Banquet
9 - 12 PM	Hospitality Suite

Sunday, 6 November

9 AM - 12 NOON	Asia Network Breakfast SIG Events: *Albatrosses: Informal breakfast, followed by a roundtable highlighting current research of grad students and young scholars *Prometheans: Event TBA
9 AM - 6 PM	Computers, Information and Society: Workshop on "Cultures and Communities in the History of Computing"

EVENTS AT THE ANNUAL MEETING

All SHOT sessions will take place in the Marriott Key Center. The Marriott is centrally located on the Cleveland Mall, and it is only a five-minute walk to where the History of Science Society (HSS) and the Society for the Social Studies of Science (4S) are meeting. For HSS at the Renaissance, walk southwest across the Public Square and for 4S, you need only walk three blocks east on West St. Clair Street. The three societies are also providing a shuttle bus on Friday and Saturday that we expect will travel in a loop around the three hotels.

Keep in mind that while HSS is on a schedule similar to SHOT, the 4S conference kicks off on Wednesday, 2 November, has sessions all day Thursday, and ends on Saturday night.

Because each meeting has a large number of sessions, each society is publishing its own program book. We have arranged to exchange program books so that a limited number of HSS and 4S guides will be available at the SHOT registration desk. If you wish to have either the HSS or 4S program books, please check off the appropriate box on the registration form and we will set one aside for you. Since we are getting a limited number of programs, we will give them out in order that we receive your registration.

Opening Plenary and Reception

Our annual meeting will kick off with a three-society plenary session on **Thursday** night in the Marriott Grand Ballroom on “Dealing with Disasters: Perspectives on Fukushima from the History and Social Studies of Science and Technology.” Following the plenary, the action moves to the Great Lakes Science Center where we will enjoy a lavish reception hosted by our local sponsor, Case Western Reserve University from 7-10.30 PM. We have kept the fee for this reception as low as possible (\$10). Please

indicate on the registration form if you are planning to attend. The Great Lakes Science Center is a 10-minute walk from the Marriott but we will also be providing shuttle buses to and from the reception.

Graduate Student Breakfast

SHOT prides itself on being open and welcoming to new participants, especially graduate students. On **Friday**, 4 November at 7 AM, currently-enrolled graduate students are cordially invited to breakfast and to meet the Society’s officers. *Students from all three societies – SHOT, HSS, and 4S – are welcome to attend this free event.* This continental breakfast will offer graduate students a chance to meet each other, to learn about SHOT programs (including prizes and fellowships), and to find out about SHOT’s journal, *Technology and Culture*. This breakfast is free for currently-enrolled graduate students (please do not sign up if you are not eligible for this category). You **must** register for this event in order to attend; please indicate your attendance on the registration form.

International Scholars Breakfast

A key way that SHOT reaches out to historians of technology around the world is through its International Scholars program. Each incoming annual “class” of International Scholars is formally introduced at the Awards Banquet but to welcome them more personally, SHOT holds a breakfast for them each year. This year’s breakfast will be held on **Friday**, 4 November, at 7 AM. If you are a new or former International Scholar (or a member of the Internationalization Committee), please let Chandra Bhimull (cbhimull@colby.edu) know by 1 October if you will be attending this breakfast.

Pretzels, Beer, and Syllabi: Teaching the History of Technology

While many of us teach technological history, we don't always have the opportunity at the annual meeting to talk about the ideas and techniques we use to engage students. Consequently, at the Pittsburgh meeting in 2009, we introduced this informal (some might say anarchical) event, and we are pleased to bring it back for a repeat performance in Cleveland on **Friday** evening from 5.30-7 PM. This networking event is an opportunity for people to relax, trade stories, and exchange syllabi. Folks are encouraged to bring **20 copies of their course syllabi**, but let Bernie Carlson (SHOTsecy@virginia.edu) know in advance (before 1 October) if you are bringing materials. We encourage you to bring a variety of syllabi – from both survey courses and special seminars – as well as materials that you use to reach nontraditional audiences (K-12, museum audiences, senior citizens). Folks are also welcome to bring their laptops to share PowerPoint slides or other digital materials. There will be a cash bar serving soft drinks, wine, and of course, beer. Please indicate on the registration form if you are planning to attend this networking event.

A Conversation on Diversity *New*

At the 2010 meeting in Tacoma, the issue of diversity within the SHOT community was raised at the members' meeting. In response, former President Arne Kaijser appointed an ad hoc Committee on Diversity and asked them to prepare a report with recommendations for the Executive Council. Based on the committee's report, the Council suggested that the ad hoc committee have an opening meeting in Cleveland to discuss how SHOT and its members can facilitate greater participation within the profession by scholars of color as well as greater engagement with issues of race in teaching and scholarship. In addition, building on the work already done by the Women in Technological History (WITH) special interest group, the ad hoc Committee would also like

to consider issues of sexuality within the discipline. We encourage you to participate in this meeting that is open to all members and which will take place on **Friday**, 4 November, 5.30 - 7 PM. Refreshments will be provided. For more information, please contact Tisha Hooks at tisha.hooks@gmail.com.

Members' Meeting

Are you interested in finding out about new SHOT initiatives? Thinking about volunteering to serve on one of the Society's committees? If so, then please join us for the Members' Meeting which will be held on **Saturday**, 5 November at 12.30 PM. In addition, all members are welcome to sit in on the **Executive Council** session scheduled for Thursday, 3 November, 8 AM - 5 PM.

How to Give an Effective Academic Talk *New*

SHOT members pride themselves on giving effective and lively presentations. To help convey to graduate students and new members some of the techniques and tricks that go into an effective academic talk, we have invited Paul Edwards (University of Michigan) to offer a lunchtime workshop on this topic. Please feel free to drop in on this event, scheduled for **Saturday**, 12.30 - 1.30 PM. Pizza will be provided.

Wine-Tasting Reception and Awards Banquet

On **Saturday** at 6:30 PM, SHOT invites you to attend the annual Awards Banquet to be held at the Marriott. This year, the reception will feature an opportunity to sample wines from Ohio. Along with the wine tasting, we hope to be able to arrange things so that you will be able to make a donation to the Society and in return you will receive a bottle to enjoy during the banquet.

The Awards Banquet is a wonderful opportunity to enjoy an evening with old and new friends, to show our appreciation to SHOT's many volunteers, and to honor the recipients of our prizes and fellowships. As we did last year, we will keep the formal awards

ceremony brief so that it both celebrates the achievements of the winners while providing the audience with ample time to socialize. The banquet will feature a buffet, with a selection of appetizers, beef and fish entrées, plus an impressive dessert display. Tickets are \$45 per person, and please sign up for the banquet on the registration form. Please note the space for telling us if you will be accompanied by a spouse or guest.

Asia Network Breakfast

To promote scholarship on Asian topics and to encourage historians from Asia to participate in our activities, SHOT members have formed a network. In Cleveland, network members will meet over breakfast on **Sunday**, 6 November; if you wish to participate, please indicate your interest on the registration form. The charge for breakfast will be \$18. For more information on the group, contact Tae-Ho Kim at taeho.kim.75@gmail.com

Around the World in Eighty Artifacts Silent Auction

Last year, to honor our American attendees at SHOT in Tacoma, we hosted a silent auction where delegates brought a token of their state so we could all see from where they had traveled. As well as enjoying the spectacle, the items were subsequently sold by silent auction that provided some fun to the event and also raised funds for this year's conference.

So 2011 embraces the world – a joint effort from everyone, both overseas and within the United States! Please consider bringing something from your state or city (value no more than \$15) to celebrate your origins – it can be as useful or as silly as you like. Again, we will enjoy the artifacts and a silent auction will take place during the conference that will close just before the Banquet. The artifacts will be on display throughout the conference in the main session area so everyone will have the chance to participate. Opening bids will start at \$5 and

wrapping paper (including bubble wrap) will be provided to take your winnings home . . .

Last year was a great success and we do hope that you will take part in 2011! If you have any questions, please email Jane Carlson at SHOT@virginia.edu.

Program Advertising and Book Exhibit

As always, we welcome publishers who wish to advertise in the SHOT program or wish to provide inserts for the registration packet. We will also have a table near SHOT registration where individual books can be displayed for a fee. For more information about any of these services, please contact Jane Carlson at SHOT@virginia.edu.

In order to attract the largest number of publishers, the three societies decided that it would be best if we had a single book exhibit in Cleveland. This “joint exhibit will be held at the HSS hotel, the Renaissance, which is a short walk away from the Marriott. Publishers wishing to exhibit there should visit <http://www.hssonline.org/Meeting/index.html> where they can download a brochure listing rates and additional details or they can contact the HSS office at info@hssonline.org.

Audio-Visual Equipment

Thanks to Case Western Reserve University, each session room at the meeting will be equipped with a digital projector and screen. Speakers planning to use PowerPoint should make sure that they (or someone on their panel) will bring a laptop that can connect to the digital projector. Should you have any questions about available equipment, please contact Jane Carlson (SHOT@virginia.edu).

In addition, we can provide presenters with wireless access to the World Wide Web for use in their presentations. If you will need to access to the Web for your presentation, please let Bernie Carlson (SHOTSecy@virginia.edu) know by 1 October and

he will make sure that you have the necessary instructions in your registration packet. For attendees, there will be free wireless access in your rooms but not in the conference areas.

Registration

We hope that you find these events exciting and that you will be joining us in Cleveland. Because the tours are always very popular and sell out quickly, you may want to register as soon as possible in order to avoid missing out.

Please note that your registration fee this year again includes **FREE continental breakfast** on Friday and Saturday. Enjoy!

Your SHOT registration badge will permit you to attend sessions at the other societies. Note that if you register for SHOT but are presenting at HSS as well, you need not pay a second registration fee for the HSS meeting but rather a special fee of \$50 to HSS. SHOT does not have a similar agreement with 4S, and so if you are presenting at 4S, you will need to pay the full 4S registration fee.

Elsewhere in the newsletter you will find the conference registration form. Please mail or fax this form back to us, as **we cannot process email registrations** (this is to protect your credit card details which can be intercepted on the Internet). As we did last year, we are using a Post Office box for the annual meeting registration; this is to avoid delays that occasionally crop up with mail deliveries at UVa.

In filling out the form, please **print clearly** so that we can process your registration promptly. It is especially important that we can read your credit card number, phone number, and email address. *If you register as a SHOT member, please be sure that your SHOT membership is current or we will charge you at the non-member rates.* You can pay by credit card (Visa

or Mastercard) or by a check made payable to the "Society for the History of Technology."

Please mail your registration to:

SHOT
Annual Meeting
PO Box 577
Earlsville, VA 22936
USA

Or fax your registration to 434.975.2190

The deadline for early registration is **1 October 2011**. *If you are on the program, you must register by 15 October to guarantee your place; after that date, you will no longer be listed on the program.* The SHOT office will confirm your registration by email and provide a printed receipt when you collect your conference packet in Cleveland.

SIG EVENTS IN CLEVELAND

The **Albatrosses**, whose interests cover all things related to aviation and aerospace, will have an informal breakfast on **Sunday** morning followed by a roundtable session highlighting the current research of grad students and young scholars. To join the Albatrosses email list, send a short message to Robert Ferguson (rob@furglu.com).

The SIG on **Computers, Information and Society** (SIGCIS) will have a buffet lunch on **Friday**. The charge for regular attendees is **\$34** and **\$19** for graduate students (thanks to a subsidy from the SIG). Please indicate your participation on the registration form. SIGCIS is also organizing on Sunday (9 - 6 PM) a daylong workshop on "Cultures and Communities in the History of Computing". For more details about the Sunday workshop, please visit

www.sigcis.org. *Note that if you are planning to attend this workshop, you need to register for the SHOT meeting and indicate on the registration form that you will be attending this event on Sunday.*

Envirotech will hold a breakfast meeting on **Saturday** morning. Since breakfast is included in the overall registration fee for the SHOT meeting, there is no separate charge for this meal. Please indicate your participation on the registration form.

The **Jovians** (electrical history) and the **Mercurians** (communications) will hold their traditional joint lunch-time meeting on **Saturday**. People interested in coming to lunch should meet Andy Butrica and Jonathan Coopersmith in the main hotel lobby at 12.30 PM to walk to a local restaurant. Each person will pay individually.

The **Prometheans** (SHOT's Engineering SIG) is co-sponsoring a joint meeting and workshop with the International Network of Engineering Studies on **Wednesday**, 2 November at Cleveland State University. They will hold their annual meeting on **Saturday** at a restaurant near the Marriott. People interested in coming to lunch should meet Atsushi Akera, Ann Johnson, and Jonathan Coopersmith in the main hotel lobby at 12.30 PM to walk to a local restaurant. Each person will pay individually. The group is also organizing a **Sunday** morning work-in-progress session focusing on the science-engineering interface and other topics. For details about the INES joint meeting, and for the call-for-papers for the Sunday morning session contact Atsushi Akera at akeraa@rpi.edu.

SMiTInG, the SHOT Military Technology Interest Group, will convene on **Saturday** morning for breakfast. Since breakfast is included in the overall registration fee for the SHOT meeting, there is no separate charge for this meal. Please indicate your participation on the registration form. For more information, please contact Bart Hacker at hackerb@si.edu.

TEMSIG, the museum group, is sponsoring a tour of the Dittrick Medical History Center and Museum on **Saturday** afternoon (see the description in the Tours section) followed by libations in the Marriott lobby bar afterwards (4.30ish). *If you wish to take this tour, please indicate your interest on the registration form.* For more information on this group, contact Allison Marsh at MARSHA@mailbox.sc.edu.

The **Tensions of Europe** group will NOT be meeting during the Cleveland conference.

Women in Technological History (WITH) will have a lunch at the Marriott on **Friday** at 12.30 PM. The cost of this lunch is **\$34** per person and **\$17** (thanks to support from the SIG) for graduate students and underemployed scholars.

SHOT
Cleveland Meeting
3 November - 6 November 2011

PRELIMINARY PROGRAM

as of 1 July 2011

THURSDAY, 3 NOVEMBER

6 - 7 PM

Dealing with Disasters: Perspectives on Fukushima from the History and Social Studies of Science and Technology

Plenary sponsored by SHOT, HSS, and 4S

Chair: **Yuko Fujigaki** (University of Tokyo)

Spencer Weart (American Institute of Physics), HSS

Gabrielle Hecht (University of Michigan), SHOT

Hugh Gusterson (George Mason University), 4S

FRIDAY, 4 NOVEMBER

8.30 - 10 AM

Science, Technology, and Development Roundtable

Sponsored by the International Outreach Committee

Organizers: **Harro Maat** and **Rob Hagendijk**

Chair: **Rob Hagendijk**

Commentators: **Wiebe Bijker** (University of Maastricht);
Sheila Jasanoff (Harvard University)

Anapurna Mamidipudi (University of Maastricht)

Matthew Harsh (Arizona State University)

Third Panelist: **Ivan da Costa Marques** (Federal University of Rio de Janeiro)

Beyond the Science-Technology Relationship

Co-sponsored by HSS

Organizer: **Eric Schatzberg** (University of Wisconsin, Madison)

Chair/Commentator: **W. Patrick McCray** (University of California, Santa Barbara)

Lissa Roberts (University of Twente): The Natural History of Industry: Revisiting the Question of Chemical 'Science' and Industry during the Second Half of the Long Eighteenth Century

Paul Lucier (URI): The Origins of Pure and Applied Science in Gilded Age America

Eric Schatzberg (University of Wisconsin, Madison): German Roots of the Science-Technology Debate

Mobilizing Media

Chair & Commentator: **Jonathan Coopersmith** (Texas A&M University)

Michael Lemon (Indiana University) [**Robinson Prize Candidate**]: The Revolution Will be Televised: Transnational Technology Flows, Worker Mobilization, and the IRT Antú in Chile

Richard L. Perry (Wake Technical Community College) [**Robinson Prize Candidate**]: Cultural Stereo-Types: The Rise and Fall of the Ghetto Blaster, 1975-2000

Carmen V. Krol (Cornell University) [**Robinson Prize Candidate**]: Dissident Visions Through Technological Use: Radio and Television Solidarity in Poland, 1982-89

Constructions of Gender

Chair & Commentator: **Amy Bix** (Iowa State)

Carla Bittel (Loyola Marymount University): Phrenology as Technology: Mapping the Gendered Mind in Nineteenth-Century America

Barbara Ganson (Florida Atlantic University; International Women's Air and Space Museum) [**Robinson Prize Candidate**]: Air Fashions of US Women Aviators between the World Wars

Cari Casteel (Auburn University) [**Robinson Prize Candidate**]: "Masculinity in a Spray Can:" Deodorant and the Cure for Effeminacy in the US

Mapping the Earth: From Underground Geographies to Orbital Landscapes

Chair & Commentator: **Margaret Weitekamp** (National Air and Space Museum)

Eric Nystrom (Rochester Institute of Technology) [**Robinson Prize Candidate**]: Underground Geographies, Mine Maps, and the Professionalization of Mining Engineering in America

Adam Plaiss (Northwestern University): Who Gets to Draw the Map? The Contentious Creation of the American Road/Map System, 1917-26

Lisa R. Rand (University of Pennsylvania) [**Robinson Prize Candidate**]: Earthbound Astronauts in the Orbital Landscape: The Configuration and Visualization of Satellite Technologies and an Information Environment in Earth Orbit

The Politics of Representation

Chair & Commentator: **Tom Misa** (University of Minnesota)

Francesco Gerali (Accademia Lunigianese di Scienze) [**Robinson Prize Candidate**]: Before and After the Beginning of the Oil Industry: Petroleum in the Technical-Scientific Literature in the 19th Century

Maria Paula Diogo, Ana Carneiro, Ana Simoes, Isabel Zilhao (CIUHCT): Science and Technology for the People: Building Modernity Through the Popularization of Scientific and Technical Knowledge (Portugal, 1900-25)

Jaume Sastre-Juan (Universitat Autònoma de Barcelona) [**Robinson Prize Candidate**]: Visualizing Men and Machines at the New York Museum of Science and Industry (1927-50)

The Fabric of Armed Encounter

Sponsored by WITH

Organizer: **Daryl M. Hafter** (Eastern Michigan University)

Chair: **Joy Parr** (University of Western Ontario)

Commentator: **Daryl M. Hafter** (Eastern Michigan University)

Margaret Vining and **Barton C. Hacker**: (both Smithsonian Institution): Uniformed Ladies in the Great War

Rachel Maines (Cornell University): Socks at War: Trenchfoot Casualties in the American Forces in World War II

Phil Gibson and **Heidi Schreuder-Gibson** (both US Army Natick Soldier RDE Center): Future Military Textiles

Superconductivity: From New Materials to New Devices

Organizer: **Ann Johnson** (University of South Carolina)

Chair & Commentator: **Trevor Pinch** (Cornell University)

David Brock (Chemical Heritage Foundation): The Superconducting Cryotron, Materiality, and Microcircuitry, 1954-64

Cyrus Mody (Rice University): The Josephson Junction at IBM, 1968-83

Ann Johnson (University of South Carolina): Superconductivity in the Field: Ford and the SQUID

FRIDAY, 4 NOVEMBER

10.30 AM - 12.30 PM

Roundtable: Engaging with Asia – Responsibilities and Opportunities in the History of Science and Technology

Co-sponsored by HSS

Organizer/Chair: **Suzanne Moon** (University of Oklahoma); **Carla Nappi** (University of British Columbia)

Francesca Bray (University of Edinburgh): Only Connect: Comparative, National, and Global History as Frameworks for the History of Science and Technology in Asia

Greg Clancey (National University of Singapore): Dangerous, Disruptive, or Irrelevant?: History (of Technology): as an Acquired Taste in Asia

Fa-ti Fan (SUNY-Binghamton): Scholars, Citizens, and a Critical Perspective on Science and Technology in East Asia.

Projit Mukarji (University of Pennsylvania): Cultures of Fear: Historicizing the Social in order to Save It from the Nation

***Producing Efficiency – Consuming Efficiently?
Changing Meanings of Private Energy Consumption Since 1918***

Organizers: **Karin Zachmann, Sophie Gerber, Nina Lorkowski** (all Technical University Munich)

Chair: **David E. Nye** (University of Southern Denmark)

Commentator: **Lee Vinsel** (Carnegie Mellon University)

Sophie Gerber (Technical University Munich) [**Robinson Prize Candidate**]: “Innovation + Information + Competition = Energy Saving”? Domestic Appliances and Energy Efficiency in West Germany after 1973

Nina Lorkowski (Technical University Munich): No Space for Rubber Ducky? The Emergence of the Efficient Bathroom in Germany, 1950-65

Michelle Mock (Carnegie Mellon University): Waste Not: Efficiency in the American Home Kitchen, 1900-50

Sylvia Wölfel (TU Dresden): The User as Nuisance: Building Links Between Producers and Consumers of Energy Efficient Household Appliances

Visual Culture, Technology, and History

Organizer: **Martin Collins** (National Air and Space Museum) and **Jennifer Tucker** (Wesleyan University)

Chair: **Martin Collins** (National Air and Space Museum)

Commentator: **Jennifer Tucker** (Wesleyan University) and **Oliver Gaycken** (University of Maryland)

Brian Jacobson (University of Southern California): Technology and Visual Culture at the World’s First Film Studio

Jason Weems (University of California, Riverside): Aeriality, Agriculture and Aesthetics: Airplane Photography and the New Deal

Sharrona Pearl (University of Pennsylvania): Pleasure in Practices of Looking

Janet Vertesi (Princeton University): Seeing Like a Rover: Visualization and Embodiment on the Mars Exploration Rover Mission

Controlling Territories, Crossing Boundaries: Information and Communication Technologies Between Authoritarianism and Democracy

Organizer: **Leonard Laborie** (CNRS)

Chair/Commentator: **Pascal Griset** (Paris-Sorbonne University)

Paul Edwards (University of Michigan): Translating Science into Politics? Computer Models From *Limits to Growth* to Nuclear Winter

Léonard Laborie (CNRS): “Democratizing the Telephone, Re-Democratizing the Country: The French Association of Telecommunications Users, 1969-75

Simone Müller-Pohl (Freie Universität): As Easy as Speech and as Free as Air: Henniker Heaton’s Attempts at Democratizing Global Communication, 1883-1914

Larissa Zakharova (EHES): Communication Technologies Serving Authoritarianism? Mail, Telegraph and Telephone as Tools of Governing in the USSR (1922-64)

Cold War Control Culture

Chair & Commentator: **Sonja Schmid** (Virginia Tech)

Greg Siegel (University of California, Santa Barbara): Troubling Signals: Radio Transmissions, Radioactive Emissions, and Cold War Emergency Culture

Marie Hicks (Duke University): Keeping Technology Safe: U.S. Restrictions on British Computing Exports during the Cold War

James Johnson (Case Western Reserve University): Rockets and the Red Scare: Frank Malina and American Rocketry

Davide Orsini (University of Michigan) [**Robinson Prize Candidate**]: Purity and Danger in Cold War Italy: Nuclear Power and Fears of Pollution around the US Navy Base of La Maddalena

Mobility Networks

Chair & Commentator: **Alex Roland** (Duke University)

Alexandra Bekasova (Institute for the History of Science and Technology, St. Petersburg Branch): Getting Accustomed to Take Time into Account: Transport Network, Travel Regime, and Linking Imperial Russia to Europe, 1820-50s

Håkon With Andersen (Norwegian University of Science and Technology): The Power and the Tragedy of Old Technologies: Shipping in the North Sea in the Second Half of the 19th Century

Har Ye Kan (Harvard University) [**Robinson Prize Candidate**]: Shifting Geographies: China's High-Speed Rail Venture Along the Beijing-Tianjin and Wuhan-Guangzhou Corridors

Peter Zelchenko (University of Chicago): Benefit Inversions in Modern Transit Technologies

Sight, Sound, and Surveillance

Chair & Commentator: **Stefan Kaufmann** (University of Fribourg)

Lynn Berger (Columbia University): Private Pictures: Photography and Privacy in Turn of the Century United States

Ashley Shew (Virginia Tech): Technology and Surveillance – of Wildlife

Colin Agur (Columbia University): Early Telephony and Surveillance in the United States

Caroline Nappo (University of Illinois at Urbana-Champaign): Closed-Circuit Television, Surveillance, and the Hostile Environment

FRIDAY, 4 NOVEMBER

2 - 3.30 PM

Sidney Edelstein Book Prize Roundtable

2011 Winner: Joy Parr for *Sensing Changes: Technologies, Environments, and the Everyday, 1953-2003* (Vancouver: UBC Press / Seattle: Univ of Washington Press, 2010)

Chair: **William Storey** (Millsaps College)

Francesca Bray (University of Edinburgh)

Howard Segal (University of Maine)

Third Panelist: **H.V. Nelles** (McMaster University)

Respondent: **Joy Parr** (University of Western Ontario)

Making People Like Their Inescapable Social Destiny: Technologies of Power and Control in Natural Resource Development

Organizer: **Maurits W. Ertzen** (Delft University of Technology)

Chair: **Arne Kaijser** (Royal Institute of Technology, Stockholm)

Commentator: **Sara Pritchard** (Cornell University)

Liesbeth van de Grift (Utrecht University) [**Robinson Prize Candidate**]: On New Land a New Society: Internal Colonization in the Netherlands and Sweden, 1900-40

Vincent Legendijk (Leiden University): Developing the Danube Amid East and West

Maurits Ertzen (Delft University of Technology): Pawns on a Large Chessboard. Irrigation Development in Africa in the 20th Century

Technology and Subjectivity: Approaches Toward Understanding the Psychology of Technological Change

Organizer: **David Hochfelder** (University of Albany, SUNY)

Chair: **Rebecca Herzig** (Bates College)

Commentator: **Mats Fridlund** (University of Gothenburg)

David Hochfelder (University at Albany, SUNY): Communication Media and Subjectivity during Wartime: A Comparison of Civil War Telegraphic Newsgathering and World War Two Radio Propaganda

Jonas Harvard (Södertörn University): Jagged Lines: Northern Experiences of Global Communication

Susan Schmidt Horning (St. John's University): Making it Sound Like the Record: The Challenge of Live Music Productions in the 1960s

Amateur Experts

Chair & Commentator: **Kristen Haring** (Auburn University)

Jacqueline McNulty (Virginia Tech) [**Robinson Prize Candidate**]: Forceps and Quilts: Race, Power, and Conflicting Technologies in Jim Crow Midwifery

David Lucsko (Auburn University): Redefining Junk: Automotive Hobbyists and Automotive Treasure, 1930–80

Robyn d'Avignon (University of Michigan-Ann Arbor) [**Robinson Prize Candidate**]: 'Scavenger' and 'Family' Miners: Technical and Social Innovation on the Goldfields of Interwar West Africa

Dreading the Dull Drive: Creating and Contesting Cinematic Parkways, Straight Autostrade and Corridor Highways

Organizers: **Karin Bijsterveld** (Maastricht University); **Frank Schipper** (Leiden University)

Chair: **Gijs Mom** (Eindhoven University of Technology)

Commentator: **Bruce Seely** (Michigan Technological University)

Thomas Zeller (University of Maryland): Dangerous or Dull? Parkways and Interstate Highways in the United States, 1930-70

Frank Schipper (Leiden University): Thinking Straight: Motorways, Linearity, and the World Road Congresses in Milan (1926) and Washington DC (1930)

Karin Bijsterveld (Maastricht University): "Like a Boxed Calf in a Traffic Gutter": The Roadside Noise Barrier in the Netherlands, 1970-2010

Geographies of Computing: Straddling the Divide Between the Global and the Local

Sponsored by the SIG on Computers, Information, and Society

Organizers: **Gerard Alberts** and **David Nofre** (University of Amsterdam)

Chair/Commentator: **Eden Medina** (Indiana University)

Gerard Alberts (University of Amsterdam), **David Nofre** (University of Amsterdam), **Mark Priestley** (University College London): From Local Practice to Common Knowledge: New Perspectives on the Emergence of Programming Languages, 1955-60

Janet Toland (Victoria University of Wellington): Not All Links Are Equal: ICT Networks in New Zealand, 1985-2005

Patryk Wasiak (Zentrum für Zeithistorische Forschung Potsdam): Hacking Across the Atlantic: How Young Hackers “Phreaked” Transatlantic Telephone Cables

Technologies of the Body

Chair & Commentator: **Joy Parr** (University of Western Ontario)

Pamela Edwards (Shepherd University): Creative Solutions: Invention by and for People with Disabilities

Hallie Lieberman (University of Wisconsin-Madison) [**Robinson Prize Candidate**]: Consumer Shaping of the Electromechanical Vibrator: “Why Miss the Super-Pleasures of Life?”

Whitney Laemmler (University of Pennsylvania) [**Robinson Prize Candidate**]: The Pointe Shoe as Technology: Making Streamlined Bodies and Interchangeable Ballerinas at the New York City Ballet

Communication Technopolitics

Chair & Commentator: **Greg Downey** (University of Wisconsin-Madison)

Paulina Faraj (Georgia Institute of Technology) [**Robinson Prize Candidate**]: Radio Controlled Citizens: An Examination of the Decree by the Ministerial Council for the Defense of the Reich on ‘Extraordinary Measures’

Ignacio Siles (Northwestern University) [**Robinson Prize Candidate**]: Closure by Co-optation: Resolving Technological Controversies by Capturing Conflicting Actors

Christina Dunbar-Hester (Rutgers University): Local Politics? Propagating Low-Power FM Radio in the 1990s

FRIDAY, 4 NOVEMBER

4 - 5.30 PM *Plenary Session: da Vinci Prize Lecture*

The 2011 recipient will be announced in the final printed program.

SATURDAY, 5 NOVEMBER

8.30 - 10 AM

Infrastructure(s) and the Fukushima Earthquake: A Roundtable on Emergencies, Nuclear and Otherwise

Organizers: **Paul N. Edwards** (University of Michigan); **Gabrielle Hecht** (University of Michigan)

Chair: **Rebecca Slayton** (Stanford University)

Paul N. Edwards (University of Michigan)

Gabrielle Hecht (University of Michigan)

Peter Redfield (University of North Carolina at Chapel Hill)

Gregory Clancey (National University of Singapore)

Degrees of Control: Introducing Regulating Technologies in the Field

Organizer: **Margaret Schotte** (Princeton University)

Chair/Commentator: **Ann Johnson** (University of South Carolina)

Margaret Schotte (Princeton University) [**Robinson Prize Candidate**]: Learning to Log: The Introduction of Mandatory Shipboard Journals

Yulia Frumer (Princeton University) [**Robinson Prize Candidate**]: Mapping Time: Mechanical Clocks in 19th Century Japanese Cartography

Sarah-Jane Patterson (University of Toronto) [**Robinson Prize Candidate**]: The Measure and Molding of a Dominion: Surveying in 19th Century Upper Canada

Coded Narratives: Memory, Practice and Community in the History of Software

Sponsored by the SIG on Computers, Information, and Society

Organizer: **Thomas Haigh** (University of Wisconsin, Milwaukee)

Chair: **William Aspray** (University of Texas, Austin)

Commentator: **Thomas Haigh** (University of Wisconsin, Milwaukee)

Irina Nikiforova (Georgia Institute of Technology) [**Robinson Prize Candidate**]: ACM and Turing Prize Scientists: Defining the Art and Science of Computing, 1947-2008

Hansen Hsu (Cornell University) [**Robinson Prize Candidate**]: NeXT History and Cocoa Community Memory

Joline Zepcevski (University of Minnesota) [**Robinson Prize Candidate**]: Complexity, Verification and the Rise of Object Oriented Programming

Organization, Technology, and Policy: Central Themes of the Defense Acquisition Process

Organizers: **Glen R. Asner** (Office of the Secretary of Defense); **Thomas C. Lassman** (National Air and Space Museum)

Chair & Commentator: **Glen R. Asner** (Office of the Secretary of Defense)

Elliott V. Converse III (Independent Historian): The Organization of Weapons Research, Development, and Production in the United States, 1945-60

Thomas C. Lassman (National Air and Space Museum): Managing Technological Innovation in Weapon Systems Acquisition: The Case of the US Army's Advanced Attack Helicopter, 1964-85

Philip L. Shiman (Defense Acquisition History Project): Civil-Military (Dis)Integration: The Failure of the National Flat Panel Display Initiative

(Wo)Man-Machine

Chair & Commentator: **Ruth Schwartz Cowan** (University of Pennsylvania)

Kristen E. Kondrlik (Case Western Reserve University): "The regularity of clockwork": Feminization" and the Rhetoric of Frank L. Pope's *Modern Practice of the Electric Telegraph* (1877)

Nick Muntean (University of Texas at Austin): From Functional to Experiential: The Development of User Interface in Consumer Electronics Devices, 1930-75

Rachel Plotnick (Northwestern University): Don't Be a Button-Presser: Fears of Automation at the Pushbutton Interface

Exploring Network Mobilities

Chair and Commentator: **TBA**

Ryan Ellis (University of California, San Diego) [**Robinson Prize Candidate**]: Disinfection Mail: Disease, Panic, and the Post Office in 19th Century America

Megan Finn (Berkeley): Post-Earthquake Information Practices in 1868 California

Katie Day Good (Northwestern University) [**Robinson Prize Candidate**]: Travels with the Magic Lantern: The Slideshow as Global Communication Technology in the 20th Century

Environmental Dreams

Chair & Commentator: **Edmund Russell** (University of Virginia)

Leif Fredrickson (University of Virginia) [**Robinson Prize Candidate**]: From Ecocide to Eco-Ally: Picloram, Invasive Species, and American Environmentalism

Henry Trim (University of British Columbia) [**Robinson Prize Candidate**]: The New Alchemy Bioshelter: A Countercultural Attempt to Save the World, 1969-84

David P.D. Munns (John Jay College of Criminal Justice, CUNY) [**Robinson Prize Candidate**]: Under Glass: Technology, Biology, and the Plants in the Phytotron

SATURDAY, 5 NOVEMBER

10.30 AM - 12.30 PM

Reexamining the Origins of the History of Technology at Case

Sponsored by the Prometheans, SHOT's engineering SIG

Organizer: **Atsushi Akera** (Rensselaer Polytechnic Institute)

Chair: **Miriam Levin** (Case Western Reserve University)

Commentator: **Darwin Stapleton** (University of Massachusetts, Boston)

Bruce Seely (Michigan Technological University): Mel Kranzberg and SHOT's Creation Story: "And How Does One Go About Forming a New Scholarly Society?"

Atsushi Akera (Rensselaer Polytechnic Institute): Implementing Liberal-Professional Education at Case Institute of Technology

Robert C. Post (National Museum of American History): Mel Kranzberg's Return to Ithaca

Before Fukushima: Public Concerns about Nuclear Safety

Organizer: **Dolores L. Augustine** (St. John's University)

Chair & Commentator: **Paul R. Josephson** (Colby College)

Olga Kuchinskaya (University of Pittsburgh): Alleviating Nuclear Fears in Belarus

Natasha Zaretsky (South Illinois University Carbondale): Three Mile Island, Fukushima Daiichi, and the Return of Fear

Hirofumi Utsumi (Otemon Gakuin University, Osaka): Fukushima in Historical Context: Popular Images of Nuclear Power in Japan

Dolores Augustine (St. John's University): Different Ways of Seeing Risk: East and West Germany, 1945-90

Do Politics Have Artifacts? The Promise of International Communications Networks

Sponsored by the Mercurians

Organizer: **Gabriele Balbi** (University of Lugano & Columbia University)

Chair: **Andrew J. Butrica** (Independent Scholar)

Commentator: **Graeme J.N. Gooday** (University of Leeds)

Peter A. Shulman (Case Western Reserve University): Empire and the Politics of Information, 1840-60

Richard R. John (Columbia University): Projecting Power Overseas. The 1863 Paris Postal Conference, the American Civil War, and the Creation of International Communications Networks

Gabriele Balbi, Simone Fari, Spartaco Calvo, Giuseppe Richeri (University of Lugano & Columbia University) [**Robinson Prize Candidate**]: The Swiss Influence in the ITU's Decision-Making Process, 1855-76

Heidi J. S. Tworek (Harvard University): The Path to Freedom? German Wireless News Goes Global, 1913-45

Negotiating the Limits of Control

Chair & Commentator: **Adrian Johns** (University of Chicago)

Andrew Russell (Stevens Institute of Technology): An Interdisciplinary History of Open Systems

Janet R. Daly Bednarek (University of Dayton): Airports, Hijackers, Technology and the Fourth Amendment

Melissa Gottwald (Embry-Riddle Aeronautical University) [**Robinson Prize Candidate**]: "That Spy is Our Friend": The Implementation of Flight Recorders and Fears of Surveillance

Fred Katz (University of Maryland at College Park): Privacy or Piracy? Digital Audio Tape and the CBS Copycode Chip, 1982-92

The Tao of Innovation

Chair & Commentator: **David Hounshell** (Carnegie Mellon University)

Augustin Cerveaux (University of Strasbourg): The Transition to Titanium Technology at Du Pont as a Shift of "Materials Ontology", 1927-41

Benjamin Gross (Princeton University): Computer Research and the Development of Flat-Panel Displays at RCA

John Laudun (University of Louisiana at Lafayette) [**Robinson Prize Candidate**]: The Invention of a Traditional Amphibious Boat: A History of the Crawfish Boat

Katherine Dykes (MIT): NASA and the MOD Wind Turbine Development Program: Important Contribution or Colossal Failure?

Nations and the Construction of 'Modernity'

Chair & Commentator: **Stuart W. Leslie** (Johns Hopkins University)

Qin Zhu and **Lili Guan** (Dalian University and Liaoyang Admin College): Engineering (*Gongcheng*) and Its Adapted Ethics in the Chinese Historical-philosophical Contexts

Honghong Tinn (National University of Singapore): Mainframe Computers and Economic-planning Projects in Taiwan, 1962-68: Electronic Computing, Econometric Models, and Development Discourse

Sungook Hong (Seoul National University): What is the Appropriate Technology for Developing Countries? The Debate over Technology Policy in Korea in the 1970s and 1980s

Microcosms: Grasping the World Through Everyday Artifacts

Chair & Commentator: **Rachel Maines** (Cornell University)

Sultana Banulescu (City University of New York) [**Robinson Prize Candidate**]: The Snuffbox: Why it Took an Empire to Build a Device Made Redundant by Human Anatomy

Erza Shales (Alfred University): The Role of the Conscripted Porcelain Cup and its Value in Scientific Management

Laura Hepp Bradshaw (Carnegie Mellon University) [**Robinson Prize Candidate**]: Hung Out to Dry: The Curious History of Clotheslines in Suburban America

Andrew D.A. Bozanic (University of Delaware) [**Robinson Prize Candidate**]: The Shape of Sound is Getting 'Round': Ovation and the Social Construction of a Space Age Acoustic Guitar

SATURDAY, 5 NOVEMBER**2 - 3.30 PM*****Streetcar Cultures and Politics in Comparative Perspective, 1859-1915***

Organizer: **Peter Soppelsa** (University of Oklahoma)

Chair: **Rudi Volti** (Pitzer College)

Commentator: **Robert C. Post** (National Museum of American History)

Geoff Zylstra (New York City College of Technology): Whiteness, Freedom, and Technology: The Racial Struggle over Philadelphia's Streetcars, 1859-67

Peter Soppelsa (University of Oklahoma): 'Tramway des Barbares': Savagery, Civilization and Paris's Streetcar Geography, 1889-1914

Barbara Schmucki (University of York): 'Ladies were becoming more venturesome in getting on and off the tram cars': The Public Appropriation of Tramways in Britain and Germany, 1870-1915

Hot & Cold: Manipulating & Disciplining Bodies With Technologies of Temperature

Organizer: **Joanna Radin** (University of Pennsylvania)

Chair & Commentator: **Jonathan Rees** (Colorado State University)

Joanna Radin (University of Pennsylvania) [**Robinson Prize Candidate**]: Shock of the Cold: Freezers and the Preservation of Bodily Extracts in Cold War Context

Lisa Onaga (Cornell University) [**Robinson Prize Candidate**]: A Silkworm for All Seasons

Deanna Day (University of Pennsylvania) [**Robinson Prize Candidate**]: The “Heart’s Knowledge” of “Walking Biological Computers:” How Domestic Thermometry Created a New Hybrid Subjectivity

Controlling Oceans . . . Or Not

Co-Sponsored by HSS

Organizer: **Helen M. Rozwadowski** (University of Connecticut, Avery Point)

Chair & Commentator: **James Spiller** (SUNY Brockport)

Helen M. Rozwadowski (University of Connecticut, Avery Point): Engineering the Ocean: The Birth of “Ocean Engineering” in the 1960s

Gary Kroll (SUNY Plattsburgh): Technologies of Mobility in the Age of Rapid Transit: North Atlantic Right Whales vs. Oceanic Shipping

Tyler Priest (University of Houston): From Santa Barbara to Macondo: Uncontrolled Technology in Offshore Oil

Tensions of Agricultural ‘Modernization’ from Imperialism to Postcolonialism

Chair & Commentator: **William Storey** (Millsaps College)

Tiago Saraiva (University of Lisbon): The Production/Circulation of Karakul Sheep and the Empires of Hitler, Mussolini, and Salazar

Madhumita Saha (Iowa State University): “War against Hunger”: A Tale of Scientists, Technical Aid and Development of Indian Agriculture, 1950-70

Simeon Maravanyika (Wageningen University and Research Centre) [**Robinson Prize Candidate**]: Civilized Agriculture? The Gospel of the Plough and Shangwe Communities in Mbumbuze, South Western Zimbabwe, c. 1951-79

Institutions and Strategies of Controlling Useful and Reliable Knowledge in Early Modern Europe

Organizer: **Simona Valeriani** (London School of Economics); **Karel Davids** (VU University of Amsterdam)

Chair: **Pamela O. Long**, (University of Maryland)

Commentator: **TBA**

Karel Davids (VU University of Amsterdam): Gatekeeping. Who Defined Useful Knowledge in Early Modern Europe?

Simona Valeriani (London School of Economics): Controlling and Assessing Knowledge: the Social and Cognitive Stand of The Mechanical Arts and of Practical Knowledge Between Middle Ages and Early Modern Times

Alison Sandman (James Madison University): Expertise, Local Knowledge, and Long-Distance Travel: Who Knows How to Get to The Philippines?

Conflicting Rhetorics of Labor

Chair & Commentator: **Nina Lerman** (Whitman College)

Katariina Mauranen (The Maritime Museum of Finland) [**Robinson Prize Candidate**]: The All-Seeing Eye at Portsmouth Block Mills on Display

Lindy Biggs (Auburn University): Technology and the Changing Meaning of Work in Early Industrial Britain

Darla Thompson (Cornell University) [**Robinson Prize Candidate**]: The Machine in the Penitentiary: Slaves and Convicts Making the Modern South

Expert Communities

Chair & Commentator: **Ron Kline** (Cornell University)

Erinn McComb (Mississippi State University): “It’s Hip to Be Square”: Individual Control, Masculinity, and Engineers within NASA, 1958-72

Kevin Walsh (University of California San Diego) [**Robinson Prize Candidate**]: The Sons of Manhattan and the Winning of Supercomputer Access – The Tipping Point of National Security Directive 189

Søsser Brodersen, Ulrik Jørgensen, Andrés Valderrama (Technical University of Denmark): Environmental Engineering in Denmark

Lars Heide (University of Pennsylvania and Copenhagen Business School): Association for Computing Machinery as an Institutional Intermediary Between the Innovators, Producers, and Users in Shaping Mainframe Computers

SATURDAY, 5 NOVEMBER

4 - 5.30 PM

Infrastructure and Stabilization

Organizer: **Leslie Tomory** (McGill University)

Chair/Commentator: **Frank Schipper** (Leiden University)

Leslie Tomory (McGill University): The Expansion of the New River Water Company in the Late 18th Century

Christopher Jones (Harvard University): Making Nature Reliable: Transforming the Susquehanna River

Roger Turner (Rochester Institute of Technology): Making Technological Systems Reliable: The Role of Infrastructural Science

Conducting Space Science, Technology, and Engineering

Organizer: **Erik M. Conway** (Jet Propulsion Laboratory)

Chair: **Deborah Douglas** (MIT)

Commentator: **Peter Westwick** (University of Southern California)

Roger Launius (National Air and Space Museum): Returning from Deep Space: The Genesis and Stardust Missions and the Problem of Sample Return to Earth

Erik M. Conway (Jet Propulsion Laboratory): Simulation and Spacecraft Design: The Vikings get to Mars, 1968-77

David H. Devorkin (National Air and Space Museum): Prospective Technological Failure and the Solid-State Revolution in Modern Astronomy

Technology and Territory in Post-War Archi-technical Historiography

Organizer: **Daniel Barber** (Harvard University)

Chair: **TBA**

Commentator: **TBA**

John Harwood (Oberlin College) [**Robinson Prize Candidate**]: Organ, Organic, Organized: Lewis Mumford's Subject Historiography of the Machine

Michael Osman (University of California, Los Angeles) [**Robinson Prize Candidate**]: Giedion's Modern Monolith

Daniel Barber (Harvard University) [**Robinson Prize Candidate**]: The First Solar Age

Styling Production: National Contexts of Global Manufacturing

Chair & Commentator: **Sungook Hong** (Seoul National University)

Soojeong Kang (London School of Economics): Developing Technological Capabilities: Technology Transfers and the Korean Synthetic Fiber *Chaebols* in the 1960s-1970s

Ling-Fei Lin (Cornell University): Cost-Reduction as Local Knowledge in the History of Laptop Contract Manufacturing

Matteo Serafini (University of Bologna) [**Robinson Prize Candidate**]: Teams, Tools and Expertise in a Problem-Solving Approach to Technological Innovation. The Italian Packaging Industry, 1960-98

Visionaries and the Technological Imaginary

Chair & Commentator: **Rosalind Williams** (MIT)

Caitjan Gainty (University of Chicago) [**Robinson Prize Candidate**]: A Farewell to "Legs and Letters:" Technological Rhapsodies in Early Twentieth-Century American Medicine

Christopher Leslie (NYU) [**Robinson Prize Candidate**]: As We Were Thinking: The Memex as Convergence

Jawn Tze-hin Lim (Harvard) [**Robinson Prize Candidate**]: Sculpting Catastrophes: Concept Design and Technoscientific Imagination of Science Fiction Cinema, 1960-2010

Spaces of Knowledge Production

Chair & Commentator: **Phil Scranton** (Rutgers)

Robert Schraff (UCLA) [**Robinson Prize Candidate**]: Atlantic Conflicts on Pacific Shores: Seeing Alta California Missions as Agricultural Experiment Stations, 1769-1821

David F. Channell (University of Texas at Dallas): Museums as Engineering Laboratories in Victorian Britain

Darwin H. Stapleton (University of Massachusetts): Technology at the Peking Union Medical College and the Problem of Public Health in Republican China

TOURS

HSS and 4S delegates are welcome to sign up for these tours. Please fill out a SHOT registration form and pay for the tours you wish to take. If you are only going on the tours, there is no need to register as a SHOT delegate.

Please note that seating is limited on all tours and that most tours sell out, so please register early!

Thursday, 3 November

11.30 AM - 4 PM

Tour of ArcelorMittal Steel Mill

Includes bus and box lunch. Limited to 30. Cost is \$40 per person.

The city's largest manufacturer, Cleveland's ArcelorMittal mill is also one of the corporation's biggest operations in the United States. Though today part of an international conglomerate, this mill has deep roots in the Cleveland's history, beginning in 1873 with the Otis Iron & Steel Co. – an American pioneer in the production of open-hearth steel – and in 1893 with Corrigan, McKinney & Co. – operator of a successful blast furnace among other investments in mining and transportation. Through the 20th century, steel anchored Cleveland's industrial sector as these original companies were acquired by some of the largest firms in the American steel business, including Republic Steel, the Jones and Laughlin Steel Corporation, and later, LTV Steel – at one point the nation's second largest steel producer. The history of these consolidations reflected the transformations of the steel industry amid labor conflict, environmental concerns, and international competition. In 2004, the mills – then owned by the International Steel Group (ISG) – were purchased by Mittal Steel, now the Luxembourg-based international steel firm, ArcelorMittal.

Along the tour, you'll see how molten iron from the blast furnace is mixed with recycled scrap in a basic oxygen furnace to make molten steel. You'll watch the red-hot, liquid steel transform into semi-finished slabs in the continuous caster. At the rolling mill, the

slabs are reheated and rolled into a coil of steel less than an inch thick. You'll also visit the hot-dipped galvanizing line, commissioned in 2006, where the steel is further strengthened and coated to protect it against rust for use in the automotive market.

Tour Details: Registrants must be at least 18 years of age and comfortable with the considerable walking and stair climbing which the tour will require at times. Long-sleeve shirts and long pants are required (no shorts, skirts, or dresses), as are flat, closed-toe shoes (preferably hiking or work shoes). Before the tour begins, guests will be provided with long-sleeve jackets, hardhats, and safety glasses. Cameras and video equipment are not permitted. For security, two weeks prior to the tour SHOT will have to provide ArcelorMittal with a list of the names and affiliations of everyone going on the tour.

1.30 - 4.30 PM

Bus tour of Cleveland's Industrial Past

with John J. Grabowski

Includes bus and snack. Limited to 38. Cost is \$25 per person.

John J. Grabowski is the Krieger-Mueller Associate Professor in Applied History, Case Western Reserve University (CWRU) and Director of Research, Western Reserve Historical Society. Professor Grabowski is one of the foremost experts on Cleveland's ethnic and industrial past as well as a wonderful raconteur. The tour will begin downtown and travel east past some extraordinary industrial architecture and continue east to the site of the former White Motor factory. It will view the site of the 1944 East Ohio Gas Explosion and double back to view the industrial infrastructure along the main east-west rail lines to downtown. The tour will descend into the Flats (the industrial area along the Cuyahoga River) through the steel mills and rail yards to the Tremont neighborhood. The tour will stop at Steelyard Commons, a shopping center built on the site of an abandoned finishing mill, to

view the “in progress” steel museum. The tour will continue through the Tremont neighborhood where many of the immigrant steelworkers lived, south to Independence along the east side of the steel mills, into Slavic Village with a stop at the site of the city’s first rolling mill before returning to the Marriott.

2 - 4.30 PM

Tour of Historic Cleveland Bridges

led by Dario Gasparini

Includes bus. Limited to 30. Cost is \$25 per person.

Professor Gasparini teaches civil engineering at Case Western. He is an expert on historic bridges, many of which define the city of Cleveland, whose Cuyahoga River divides the city into east and west sides. Participants will get off the bus to see each bridge first hand and hear informed commentary. Bridges range from historic fixed spans such as the Hope Memorial Bridge to the nearly dozen moveable bridges that span the Cuyahoga River and serve both vehicular and railroad traffic.

Friday, 4 November

11 AM - 2 PM

A Visit to the Great Lakes Brewing Company and West Side Market.

Includes bus and participants will be able to purchase lunch at the market. Limited to 30. Cost is \$20 per person.

The West Side Market is a publicly owned market founded in 1840 and is among the finest historic markets in the country. The present market house, designed by the Cleveland firm of Hubbell and Benes who also designed the Cleveland Museum of Art, was dedicated in 1912. The neo-classical Byzantine building is a Cleveland landmark with its 137-foot clock tower. About one hundred stalls in the interior and eighty-five in the adjoining courtyard feature an astounding variety of food reflecting the city’s rich ethnic heritage. The Great Lakes Brewing Company and Brew Pub, across the street from the market house, is the nation’s 22nd

largest craft brewery. Great Lakes is renowned for Cleveland-themed beers such as the Eliot Ness Amber Lager, Commodore Perry IPA, and the ever-popular Burning River Pale Ale, as well as the panic-inducing Christmas Ale that has Clevelanders running to stores to secure their annual supply before it sells out. Half the participants at a time will tour the brewery while the other half goes to the market. Participants can eat lunch on their own at either the brew pub or at many of the West Side Market’s prepared food stands. All HSS/SHOT/4S attendees will enjoy a 10% discount on meals during the conference by showing conference badges.

Saturday, 5 November

2 - 3.30 PM

Architectural Walking Tour of Downtown Cleveland with Ted Sande

Limited to 15. Cost is \$17 per person.

Ted Sande, AIA Emeritus and former Vice President of the National Trust for Historic Preservation, will lead a ninety-minute walking tour of downtown Cleveland. This is an exceptional opportunity for conference attendees to learn about Cleveland’s architectural past from Cleveland’s pre-eminent architectural historian. The tour will begin in front of the Terminal Tower complex in the southwest quadrant of Public Square, the historical and ceremonial heart of Cleveland. From there, the tour will walk east on Euclid Avenue to and through the Arcade (1890) to Superior Avenue, where it will cross the street, heading north, by way of the Eastman Reading Garden of the Cleveland Public Library, and enter the Mall of the 1903 Group Plan. Continuing north to Lakeside Avenue, the group will turn west and walk through the Historic Warehouse District and back to Public Square. Along the way commentary will focus on the architectural development and urban planning of Cleveland from 1796 to the present, citing examples as the tour proceeds around the central business district. Comfortable shoes and appropriate seasonal clothing are recommended.

2 - 4.30 PM**Tour of Dittrick Medical History Center and Museum**, led by Jim Edmonson, Chief Curator

Includes bus. Limited to 30. Cost is \$5 per person (thanks to a generous subsidy from the Museum).

The Dittrick Medical History Center and Museum traces its origins to 1898, when the Cleveland Medical Library Association (est.1894) created a “historical committee” headed by Dr. Dudley Peter Allen. When the collection started by Allen moved into the Allen Memorial Medical Library in 1926, Dr. Howard Dittrick became curator and he subsequently built one of the largest and most important medical museum collections in North America. Today the Dittrick is comprised of a public museum, archive, and collections of rare books, artifacts, and images, and it functions as an interdisciplinary study center within the College of Arts and Sciences of Case Western Reserve University. The Dittrick showcases 19th and 20th century medical technology and instrumentation in exhibits in the main gallery and through much of the Allen Library. Notable recent acquisitions include the Percy Skuy Collection of historic contraceptive devices, as well as the M. Donald Blaufox Collection of diagnostic instruments. Recent scholarship from the Dittrick is featured in *Dissection: Photographs of a Rite of Passage in American Medicine, 1880-1930* (2009), co-authored by Chief Curator James M. Edmonson and John Harley Warner (Yale).

**54th MEETING OF THE SOCIETY
FOR THE HISTORY OF TECHNOLOGY
CLEVELAND, OH – 3 - 6 NOVEMBER 2011**

REGISTRATION FORM

Sorry, but we cannot process registrations sent by email.

Please PRINT CLEARLY to avoid delay in processing your registration.

Last Name _____

First Name _____

Street Address _____

City & State _____

Country _____

Zip/Postal Code _____

Phone _____

Fax _____

Email _____

BADGE INFORMATION

Registrant's name _____

Affiliation/ Organization/ Institution _____

City & State _____

Name of accompanying person (if applicable) _____

**Mail to: SHOT
Annual Meeting
PO Box 577
Earlsville, VA 22936
USA**

Fax to: 434.975.2190

HOTEL PLANS

At this time, are you planning to stay at

_____ **Marriott Hotel**

_____ **Another hotel**

_____ **With family or friends**

Please note that SHOT is collecting this data solely for planning purposes and that you need to make your own hotel reservations. Note that **graduate students and independent scholars** who wish to apply for the rooms available at reduced rates should contact Jane Carlson at SHOT@virginia.edu.

REGISTRATION — by 1 October 2011

Cost Total

<input type="checkbox"/> SHOT member	\$175
<input type="checkbox"/> SHOT member underemployed scholar/retired	\$160
<input type="checkbox"/> SHOT student member	\$150
<input type="checkbox"/> Non-SHOT member	\$250*
<input type="checkbox"/> Non-SHOT member student	\$200*
<input type="checkbox"/> Fee for attending spouse	\$ 25
<input type="checkbox"/> Fee for HSS delegate presenting at SHOT (requires that you have paid full HSS registration)	\$ 50

Late Registration — after 1 October 2011

<input type="checkbox"/> Late registration – SHOT member registration	\$195
<input type="checkbox"/> Late registration – SHOT member underemployed scholar/retired	\$180
<input type="checkbox"/> Late registration – SHOT student member registration	\$170
<input type="checkbox"/> Late registration – Non-SHOT member registration	\$270*
<input type="checkbox"/> Late registration – Non-SHOT member student registration	\$220*
<input type="checkbox"/> Fee for HSS delegate presenting at SHOT	\$ 70

*Non-SHOT members may join the Society for \$64 (\$34 for students) and then be eligible for member registration. Membership includes a subscription to *Technology and Culture*. To join, please visit <http://www.historyoftechnology.org/benefits.html> and be sure to send a note with your registration indicating your SHOT membership. *Please note your membership will be verified and the extra fee will be charged to your credit card if membership is not up-to-date as of 1 October 2011.*

HSS and 4S Program Books

Check below if you wish to receive programs for the other societies with your registration packet. Since we will be getting a limited number from HSS and 4S, these will be reserved in the order that we receive your SHOT registration.

HSS Program 4S Program

TOURS

Thursday 11.30 AM - 4 PM

ArcelorMittal Steel Mill

\$40 per person

Includes bus and box lunch

(limited to 30)

(name of participant)

(name of accompanying person)

Friday 11 AM - 2 PM

Great Lakes Brewing Company and West Side Market

\$20 per person

(limited to 30)

(name of participant)

(name of accompanying person)

Thursday 1.30 - 4.30 PM

Cleveland's Industrial Past

\$25 per person

Includes bus and snack

(limited to 38)

(name of participant)

(name of accompanying person)

Saturday 2 - 3.30 PM

Architectural Walking Tour

\$17 per person

(limited to 15)

(name of participant)

(name of accompanying person)

Thursday 2 - 4.30 PM

Cleveland Bridges

\$25 per person

Includes bus

(limited to 30)

(name of participant)

(name of accompanying person)

Saturday 2 - 3.30 PM

Dittrick Medical Museum

\$5 per person

Bus compliments of the Dittrick

(limited to 30)

(name of participant)

(name of accompanying person)

SHOT EVENTS

- Thursday evening **Reception at the Great Lakes Science Center**

\$10 per delegate; \$10 per guest

(name of participant)

(name of accompanying person)

- Friday morning **Graduate Student Breakfast**

No Charge

(open only to current graduate students)

(name of participant)

- Friday evening **Beer, Pretzels and Syllabi**

No Charge

(name of participant)

(name of accompanying person)

- Saturday evening **Awards Banquet**

\$45 per person

(name of participant)

(name of accompanying person)

- Sunday morning **Asia Network Breakfast**

\$18 per person

(name of participant)

(name of accompanying person)

SIG EVENTS

- Computers, Information & Society

Friday lunch

Regular \$34 per person

Grad student \$19 per person

(name of participant)

(name of accompanying person)

- Sunday **Workshop on History of Computing**

No Charge

(name of participant)

(name of accompanying person)

- WITH Friday lunch**

Regular \$34 per person

Grad student \$17 per person

(name of participant)

(name of accompanying person)

- Envirotech **Saturday breakfast**

No Charge

(name of participant)

(name of accompanying person)

- SMiTInG **Saturday breakfast**

No Charge

(name of participant)

(name of accompanying person)

TOTAL for registration, tours, meetings, & receptions: \$_____

Credit Card: MASTERCARD or VISA (Please circle)

Card # _____

Expiration date ____/____ 3-digit security code _____

Please print clearly or we will be unable to process your registration.

Address on credit card statement

Date _____

Signature _____

Check # (U.S. Funds—U.S. Bank) _____

(Name and address must be printed on check)

Please note your registration is only confirmed after we process your payment. A receipt will be sent by email.

REFUND POLICY

Until 1 October 2011

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

Between 1 - 26 October 2011

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

After 26 October 2011

No refunds.

Registration forms should be mailed or faxed to SHOT at the address or phone number listed on the first page.

We cannot accept registration forms sent by email for security reasons related to credit card fraud. Any registration sent by email will need to be resubmitted by regular mail or fax.

CONFERENCE HOTELS IN CLEVELAND

We are pleased to announce that you can start reserving rooms at the headquarters hotel for SHOT 2011:

Cleveland Marriott Downtown at Key Center

127 Public Square, Cleveland, OH 44114

Tel: (216) 696-9200

Toll-free 1-800-228-9290 for Central Reservations

Fax: (216) 696-0966

Our special SHOT conference rate is \$155/night for a single or double. Hotel rooms in Cleveland are taxed 16.25%. The conference rate is available from Wednesday, 2 November to Monday, 7 November 2011. This rate includes **complimentary Internet** service in the hotel rooms. This rate is available until **12 October** or until our room block is sold out, so be sure to make your hotel reservations early!

If you wish to book online, the Marriott has created a special webpage with SHOT's dates and booking code (SHTSHTA) already in place. Simply set your browser to <http://www.marriott.com/hotels/travel/clesc?groupCode=shtshta&app=resvlink&fromDate=11/2/11&toDate=11/7/11>.

Reduced Rates for Graduate Students and Independent Scholars

As SHOT has done in previous years, we have made arrangements with the Marriott to provide rooms at significantly reduced rates for graduate students and underemployed scholars. Because these rooms can only be made available to *bona fide* graduate students and underemployed scholars, we ask that you please contact Jane Carlson at SHOT@virginia.edu for further information about these rooms.

PRECONFERENCE WORKSHOP ON ENGINEERING STUDIES

**2 November 2011, Cleveland State University,
Cleveland, Ohio**

The International Network for Engineering Studies (INES) and the Prometheans special interest group will hold a one-day workshop on engineering studies and the history of engineering with the theme, "My Current Work and Its Possible Implications." The workshop is hosted by Peter Meiksins, Professor of Sociology at Cleveland State. November 2 is the day before the joint HSS/SHOT/4S meetings begin. Thanks to sponsorship by Taylor & Francis/Routledge, publishers of *Engineering Studies: Journal of the International Network for Engineering Studies*, the meeting is free to members of INES and the Prometheans who pre-register. It may include support for breakfast and lunch (more on logistics later).

The workshop's purpose is to bring researchers in engineering studies and history of engineering together in concise, fast-moving, wide-ranging, and hopefully entertaining discussions of the contents of current research and its possible implications for different audiences inside and outside scholarly arenas. The workshop's more general goals include deepening scholarly connections among researchers; attracting more researchers to engineering studies and history of engineering; heightening the visibility of this research across the memberships of HSS, SHOT, and 4S; and increasing the extent to which this research makes a difference beyond scholarly arenas. For more information, please contact Atsushi Akera at akeraa@rpi.edu.

ELECTIONS

The 2011 ballot is located following the candidate biographies. Online balloting is available through the SHOT website and the link to the online ballot is http://www.historyoftechnology.org/cgi-bin/2011_shot_vote.cgi. You will need to enter your membership number to vote for security reasons only; your ballot is still anonymous in the results database. Your membership number is located above your name on the mailing label of the newsletter and there is also information on the website regarding how to obtain your membership number from Johns Hopkins University Press.

Alternatively, you may return the paper ballot. Note that to ensure that only SHOT members vote, you need to include your membership number on the ballot. As in previous years, faxed copies will not be accepted. The deadline for submitting ballots is **1 October 2011**.

This year's ballot includes the election of the Executive Secretary and the Treasurer. Upon reviewing their performance, the Executive Council recommended to the Nominating Committee that the incumbents, Bernie Carlson and Hugh Gorman, be asked to stand again for these offices. According to the Society's constitution, the Secretary can run for a second term of two years (2012-2013) while the Treasurer can run for two more two-year terms (i.e., 2011-12 and 2013-14).

Along with the officers, we also need to elect members of the Executive Council, Nominating Committee, and Editorial Committee. The Executive Council is SHOT's governing board and works with the Society's officers to plan and set policy. The Nominating Committee is responsible for selecting individuals to run for office and preparing the slate of candidates for each year's election. The Editorial Committee works with the editor of *Technology and Culture* in addressing questions relating to the operation of the journal. Members of the Council and the Nominating Committee serve for three years

while the members of the Editorial Committee serve for five years.

EXECUTIVE SECRETARY

W. Bernard Carlson is a professor at the University of Virginia where he teaches in the Department of Science, Technology, and Society as well as the Corcoran Department of History. With support from the Sloan Foundation, he has just completed *Ideal and Illusion: A Life of Nikola Tesla* and is now editing *The Handbook of the History of Technology* for Oxford University Press.

As Secretary for the past three years, I have concentrated on three goals: (1) making the annual meeting a productive and enjoyable event for as many people as possible; (2) developing the SHOT website so that it effectively conveys information about the Society in a manner that is effective, professional, and attractive; and (3) striving to ensure that the many volunteers who staff our committees get the support they need and the appreciation they deserve. Over the next two years, I would like to turn my attention to strengthening the infrastructure—the sources of funding for research and teaching, the graduate programs, and university positions—as well as nourishing 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.

TREASURER

Hugh Gorman is an associate professor at Michigan Technological University where he teaches courses and examines questions related to the interaction of policy, technology, and environment. He is the current SHOT treasurer and has been a member of SHOT since 1993.

EXECUTIVE COUNCIL

Jennifer Alexander is Associate Professor of the History of Technology at the University of Minnesota, where she holds a joint appointment in the Program in the History of Science and Technology and the Department of Mechanical Engineering. Her specialty is industrial technology and culture in Modern Europe. She is the author of *The Mantra of Efficiency: From Waterwheel to Social Control* (Johns Hopkins, 2008), winner of SHOT's 2010 Sidney M. Edelstein prize. Her current research focuses on technology and religion, and technology and the working human body. Her current book manuscript, *The Technology and Social Justice Movement*, analyzes the interactions of theologians and engineers who opposed the Marshall Plan in post-war Europe and hoped instead to develop local forms of industrial production. She is also at work on a study of the development of the human biomechanics movement, focusing on the period of time when pre-eminence in the field shifted from Germany to the United States in the mid-twentieth century. Jennifer holds a Ph.D. in History from the University of Washington, with an emphasis on the history of technology. She has been a member of the SHOT Site Selection Committee, the Program Committee (Program Chair for the Atlanta meeting, 2003), and the Kranzberg Fellowship Committee. She is a former fellow of the Center for Research in the History of Science and Technology (CRHST), Paris.

If elected to the Executive Council, I will work to continue extending SHOT's international and interdisciplinary connections, particularly among academic and practicing engineers. We must also continue SHOT's welcome to younger scholars, and to scholars new to the field. I also think it important to continue developing SHOT's web presence, and would like to consider alternate venues than traditional publications for the dissemination of research in our fields, especially research in its early stages, when outside readers and contacts can make a greater difference.

Mats Fridlund: My first exposure to SHOT came in 1992 as an excited engineering student working behind the registration desk in Uppsala, an excitement which has stayed with me ever since. I am currently associate professor of theory of science at the University of Gothenburg and associated researcher in security theory at University of Copenhagen; until this year I had mainly worked at universities in the UK, USA and Denmark. I have served on SHOT's Nominating Committee and IEEE Life Members Prize Committee as well as ICOHTEC's Executive Committee and the Executive Team for the IEE History of Technology Network.

To the Executive Council I would bring my international and transdisciplinary experiences and priorities and an ambition to extend to other forums the transdisciplinary inclusiveness that SHOT's annual meetings have fostered so admirably. My career includes international studies and political science professorships and I feel that SHOT should continue to expand its intellectual engagement with other disciplines and communities and collaborate on new cross-disciplinary forums to discuss technology-society relationships in the past and present.

This ambition connects to my research which I use to understand current ideological and cultural issues. My first book was on nationalism and engineering, and my current work focuses on technologies of state terror and terrorism and phenomenological and material culture approaches to the politics of things. I have always found stimulus and camaraderie in SHOT and its interest groups where my affiliations have expanded from Mercurians and Jovians to the Prometheans and Military Technology groups. My rewarding SHOT experience makes me very appreciative of this opportunity to give something back to "my" society.

John Krige is the Kranzberg Professor in the School of History, Technology and Society at Georgia Tech. He made major contributions to the multivolume histories of CERN and the European Space Agency. His most recent monograph is *American Hegemony*

and the Postwar Reconstruction of Science in Europe (MIT Press, 2006). He has just delivered for publication a manuscript dealing with 50 years of NASA's international relations in space science and technology. His current project is tentatively entitled: *Dominance by Diversion: Technological Leadership, Political Leverage and US Foreign Policy*.

If elected to the Executive Council he will pursue two interrelated aims. First, he will seek to make the society more proactive in helping graduate students to better position themselves in a very depressed academic job market. Second, he will seek ways for SHOT to consolidate links with other fields of history, including diplomatic history, global history, world history and environmental history.

Alexander B. Magoun: Given my nontraditional career in the history of technology and work on the Kranzberg and Dibner Committees, I am humbled to be nominated for the Society's Executive Council. Much of my life's work has centered on assisting and promoting the neglected or underserved. A seat on the council is an opportunity to advocate for or expand SHOT's efforts in two such areas. The first is the public history of technology and its practitioners. Writ broadly, these include the many small museums and societies that dot the world's landscapes with well-intended exhibits; the variety of groups and meetings where amateur researchers and history lovers exchange information or artifacts; and the writers and artists who broaden our audiences with their books or productions. All of these organizations and people benefit from a scholar's perspective, just as scholars learn from them. The second area relates to connecting SHOT's largely western membership with its academic and public colleagues in East Asia. Through visits and connections made through ICOHTEC, SHOT, the David Sarnoff Library, and the IEEE History Committee, I have had the privilege of assisting and promoting the work of researchers in China, Japan, and South Korea as well as touring some of the remarkable museums in those countries. As with the public history community, SHOT's members can only gain by reaching out to researchers with

common interests around the globe. Until last year, I had attended every SHOT meeting since 1993; more biographical information is available online.

Tiago Saraiva: I am currently a Research Fellow at the Institute of Social Sciences at the University of Lisbon. After a B.S. in Materials Science and Engineering from the Technical University of Lisbon, I attended the Ph.D. program in history of science at the Universidad Autónoma de Madrid and concluded it in 2004 with a dissertation on "Science and the City" published in Madrid the following year. My articles that came out in the *Social Studies of Science* and *History and Technology* were also based on this work. Presently, most of my research deals with the connections between Science, Technology, and Fascism. I follow namely the work of plant and animal geneticists in making wheat, potatoes or pigs into standardized forms of life able to contribute to the political economy of the fascist regimes of Mussolini, Hitler, and Salazar. I explore in a transnational narrative how agriculture experiment stations produced organisms with a hard genetic identity enabling them to circulate through different scales. To integrate the typical approach of historians of science, looking closely at scientists' material culture, with methods from history of technology and environmental history, draws out rather naturally the considerable identification between model organisms and industrialized organisms. This argument constitutes the basis of my new book manuscript, "Fascist Pigs: Genetics, Industrialized Organisms, and Fascism." A first outcome of this line of research is the recently published special issue of *Historical Studies in the Natural Sciences* (2010) which I edited with M. Norton Wise, dedicated to "Autarky/Autarchy: Genetics, Food Production, and Fascism". This also resulted from my strong interaction with the program of history of science at the University of California Los Angeles (postdoc 2004/2005; visiting professor in 2007/2008 and 2011).

The nature of this research reveals my approach to the field of history of technology and the benefits I think it may take from the neighbouring disciplines

of history of science, environmental history, and science and technology studies. From my point of view, close interaction with the scholarship produced in these fields holds great potential for producing more sophisticated and intellectually stimulating history of technology narratives. But I would like to contend that my interest for fascism rests on the conviction that history of technology is powerful enough to deal with the most challenging objects of history at large. I was fortunate enough to be able to serve our community in the SHOT Program Committee from 2008-2010 which was a unique opportunity to survey the state of the art of our field. The experience of reviewing session proposals and formulating additional sessions was crucial in convincing me that we gain a lot whenever we build sessions around historical questions rather than around specific technologies. I strongly believe our discipline is at its best when it asks historiographical relevant questions. My first aim as member of the SHOT Executive Council would be at promoting the importance of history in history of technology.

In addition, I take seriously the challenge of enlarging our community geographically speaking. Having been a SHOT International Scholar in 2005/2006, I can testify the significance of the Society in the emergence and nurturing of scholars' communities outside the United States and European richer countries. But my main point is to stress the part SHOT plays in enlarging the imagination of scholars. More than just welcoming objects and researchers from different parts of the planet, I advocate for SHOT's role as a community that fosters the intellectual ambitions of scholars from countries with less academic resources.

Kathryn Steen: I am an associate professor of history at Drexel University in Philadelphia and received my Ph.D. from the Hagley Program of the University of Delaware. A historian of technology and of business, my scholarly interests center on the interplay of government and technology, particularly in a transatlantic context. I have published primarily on the creation of the US synthetic organic chemicals industry in World War I and the 1920s – a highly

politicized story that involved war, tariffs, confiscation of German property, intellectual property, and xenophobia. A product of the Hagley Program, I also have public history tendencies and have been increasingly drawn to the potential of digital technologies to reach a broader audience. I have been a SHOT member since 1986, when my undergraduate advisor first told me of this intriguing subfield. In the past, I have served on SHOT's Robinson, Sites, and da Vinci committees. I find SHOT a well-run organization and appreciate its culture of open invitation and its ongoing efforts to become more international.

EDITORIAL COMMITTEE

Sarah Lowengard: I am a New York City-based academic and a member of the Faculty of Humanities and Social Sciences at The Cooper Union. My research in the history of technology (Ph.D., SUNY-Stony Brook, 1999) centers on the materials sciences of early modern material culture. A member of SHOT for about 25 years, I served on the Dibner Prize Committee in the late 1990s and have been an Advisory Editor of *Technology and Culture* since 2006.

I am interested in the ways that SHOT engages and serves non-academic constituencies that are interested in history of technology but for whom academic journals are not an obvious source of information. If chosen to serve on the Editorial Committee, I will work to ensure that *Technology and Culture* remains the preeminent international journal in the history of technology while exploring new ways to reach these groups—K-12 educators and students, scholars in other disciplines, journalists and the general public.

Nina Wormbs: I am an Associate Professor in History of Science and Technology at the Royal Institute of Technology in Stockholm. Since August 2010 I have also served as acting head of the Division for History of Science and Technology. My research has been focused on conflicts around communication technology and the clash between different ideas on how to interpret and use technologies within different spheres. Lately I have also

taken greater interest in environmental issues with a focus on the Arctic. Common to both areas is an interest to also engage a larger community than the academic and I therefore try to take active part in the public discussion on technology and science and have a few commissions of trust outside Academia.

SHOT has been my intellectual home for quite some time, and even though I also go elsewhere to present and learn, I return to the Society to find stimulating and—which I find go hand in hand—critical discussions and longstanding friendships. I have also been engaged in the Society more directly and served on the Executive Council 2008-2010, a time during which I gained deep knowledge of the workings of the Society. The leadership of *Technology and Culture* has long acknowledged the importance to internationalize the journal and I would like to see that effort continued. If elected to the Editorial Committee, one of the perspectives I would bring is that of a non-native English speaker from a small peripheral country with a small language. Compared to some parts of the world, however, Sweden is centrally located and I have the benefit of knowing some English. The challenge of enlarging our knowledge and our community into unknown territory is daunting, but I strongly believe that we need to make that effort.

NOMINATING COMMITTEE

Martina Hessler is Professor of Modern Social, Economic and Technical History at the Helmut-Schmidt University, Hamburg. Her research focuses on urban history, history of technology as well as on “visual history”. She did her Ph.D. at the Technical University Darmstadt in 2000. The topic of her dissertation was the introduction and diffusion of electrical appliances in German households in the interwar period. She is author of several books, *Mrs. Modern Woman. Zur Geschichte der Haushaltstechnisierung*. Frankfurt (Campus) 2001; *Die kreative Stadt. Zur Neuerfindung eines Topos. Bielefeld (transcript) 2007*. Together with *Clemens Zimmermann*, she edited *Creative Urban Milieus*.

Historical Perspective on Culture, Economy, and the City. Frankfurt am Main / Chicago (Campus) 2008. Currently, she is President of the German Society for the History of Technology.

Jeffrey R. Yost is associate director of the Charles Babbage Institute (CBI), a faculty member of the graduate program in the History of Science, Technology, and Medicine at the University of Minnesota, and editor-in-chief of *IEEE Annals of the History of Computing*. He has authored books on the history of the computer industry and the history of scientific computing as well as published more than a dozen peer-reviewed articles and book chapters on the technical, social, business, and cultural and intellectual history of computing, software, and networking. He has led or co-led major National Science Foundation-sponsored history projects totaling more than \$1.2 million, and currently serves on multiple scholarly history of technology journal and book editorial boards. He received his B.A. in History from Macalester College, and his M.A. and Ph.D. in History of Technology and Science from Case Western Reserve University. While in graduate school he worked as a consulting corporate historian for the Winthrop Group, Inc. A member of SHOT for nearly two decades, Yost has presented frequently, chaired SHOT’s IEEE Life Member Prize Committee, served on the da Vinci Medal Committee, and been an active member of SHOT’s Special Interest Group for Computers, Information, and Society (SIGCIS).

2011 SHOT BALLOT

After marking your ballot, detach it and fold it in half, and 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 **1 October 2011**. Alternatively, an online ballot is available through the SHOT website until **1 October 2011**.

Executive Secretary

Two-year term

Vote for 1

_____ W. Bernard Carlson

Treasurer

Two-year term

Vote for 1

_____ Hugh Gorman

Executive Council

Three-year term

Vote for 3 out of 6

_____ Jennifer Alexander

_____ Mats Fridlund

_____ John Krige

_____ Alexander Magoun

_____ Tiago Saraiva

_____ Kathryn Steen

Nominating Committee

Five-year term

Vote for 1 out of 2

_____ Martina Hessler

_____ Jeffrey Yost

Editorial Committee

Five-year term

Vote for 1 out of 2

_____ Sarah Lowengard

_____ Nina Wormbs

SHOT Membership No.: _____

PLACE
STAMP
HERE

Society for the History of Technology
W. Bernard Carlson
Dept of Science, Technology & Society
University of Virginia
PO Box 400744
Charlottesville, VA 22904, USA

SHOT Newsletter
Department of Science, Technology & Society
University of Virginia
PO Box 400744
Charlottesville, VA 22904, USA

FIRST-CLASS
U.S. POSTAGE
PAID
PITTSBURGH PA
PERMIT 5450