

## **SHOT Meeting Overview:**

### **SHOT registration and information desk:**

Thursday: 3:00 p.m. – 6:00 p.m.

Friday: 8:00 a.m. – 5:00 p.m.

Saturday: 8:00 a.m. – 5:00 p.m.

Sunday: 9:00 a.m. – noon

### **Book exhibit:**

Friday: 8:30 a.m. – 5:00 p.m.

Saturday: 8:30 a.m. – 5:00 p.m.

### **Thursday SHOT tours:**

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

Admission by ticket only

Tour of the Neon Museum 2:00 p.m.–4:00 p.m. Admission by ticket only

Tour of the Liberace Museum 2:00 p.m.–4:00 p.m. Admission by ticket only

Bus transportation for all tours will depart from the hotel's tour lobby entrance.

### **SHOT group events, banquets and receptions:**

#### **Thursday:**

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

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

#### **Friday:**

6:30 p.m.-10:00 p.m. special session sponsored by TEMSIG, "Challenges in Preserving and Interpreting Atomic History," held in the Imperial Palace, followed by a reception at the Atomic Testing Museum. Buses will leave for the museum immediately following the end of the session. Admission to both the special session and reception by pre-registration only.

**Saturday:**

7:00 p.m. – 10:00 p.m.: SHOT Awards Banquet, admission by ticket only

**SHOT Society business:**

**Thursday:**

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

**Saturday:**

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

**SHOT Special Interest Group (SIG) meetings and other groups:**

**Friday:**

8:00 a.m. – 9:30 a.m.: Envirotech breakfast

8:00 a.m. – 9:30 a.m.: *Technology and Culture* Editor's breakfast

11:30 a.m. - 1:00 p.m: WITH (Women in Technological History) lunch

11:30 a.m. - 1:00 p.m: Computers, Information, and Society lunch

11:30 a.m. - 1:00 p.m.: Military Technology SIG lunch

**Saturday:**

8:00 a.m. – 9:30 a.m.: Tensions of Europe breakfast

8:00 a.m. – 9:30 a.m.: Jovians/Mercurians breakfast

8:00 a.m. – 9:30 a.m.: Graduate Students and Current International Scholars breakfast

–pre-registration required

11:30 a.m. - 1:00 p.m.: SIG on Strengthening Relations Between SHOT & the Engineering Community lunch

11:30 a.m. - 1:00 p.m.: TEMSIG (Technology Museums) lunch

**Sunday:**

7:30 a.m. – 9:00 a.m.: Albatrosses breakfast

**SHOT Social Events:**

**Saturday:**

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

**SHOT Daily Summary - Thursday, October 12:**

**SHOT registration and information desk - 3:00 p.m. – 6:00 p.m.**

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

**SHOT tours – 9:00 a.m. – 3:00 p.m.:**

- “Hard Hat Tour” of Hoover Dam and the Boulder City Museum (Admission by ticket only)  
Bus transportation will depart from the hotel’s tour lobby entrance.

**SHOT tours – 2:00 p.m. – 4:00 p.m.:**

- Tour of the Neon Museum (Admission by ticket only)
- Tour of the Liberace Museum (Admission by ticket only)

Bus transportation for all tours will depart from the hotel’s tour lobby entrance.

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

**SHOT reception** (open to all attendees) - 8:00 p.m. – 10:00 p.m.

**SHOT Daily Summary - Friday, October 13:**

**SHOT registration and information desk - 8:00 a.m. – 5:00 p.m.**

**Book exhibit - 8:30 a.m. – 5:00 p.m.**

**Breakfast meetings – 8:00 a.m. – 9:30 a.m.:**

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

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

1. Writing Lives: Biography as a Window to Interpreting Technology
2. High Tech Manufacturing
3. Technology and National Pride
4. Standards in Business
5. Learning from Las Vegas in the Media Age: Roundtable
6. Individual Inventors
7. Technology and Play
8. Engineering Education and Professionalism in the United States

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

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

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

9. Pentecostals, Feminists, and Nerds: Technology and Identity
10. What Causes Accidents? The Use and Misuse of Narratives about Inherently Risky Technologies
11. IT and Surveillance
12. Looking at Glass
13. Roundtable: Teaching the History of Technology
14. Italian Transfers: Modern Consumer Society in Italy and "Italian" Consumer Goods
15. Environmental and Social Engineering
16. Early 20th century Roots of Terrorism

**SHOT late afternoon paper sessions – 3:15 - 5:00 pm:**

17. Protecting the Voter from "Rascaldom": Mechanical-Lever Voting Machines, Election Reform, and Democracy, 1888-1926
18. Author Meets Critics: a Discussion of *Dominance by Design: Technological Imperatives and America's Civilizing Mission* by Michael Adas
19. Large-scale State Projects
20. Weights and Measures of the 19th Century Body Politic
21. The Commercialized Internet and its Users in the 1990s
22. Exploring Sound
23. The Forgotten Openness of the Closed World
24. Constructing Competence

**Special session sponsored by TEMSIG and reception– 6:30 p.m. -10:00 p.m.:**  
Panel on "Challenges in Preserving and Interpreting Atomic History," held in the Imperial Palace, followed by a reception at the Atomic Testing Museum. Buses will leave for the museum immediately following the end of the session. Admission to both the special session and reception by pre-registration only.

## **SHOT Daily Summary - Saturday, October 14:**

**SHOT registration and information desk - 8:00 a.m. – 5:00 p.m.**

**Book exhibit - 8:00 a.m. – 5:00 p.m.**

**Breakfast meetings – 8:00 – 9:30 a.m.:**

- Tensions of Europe breakfast
- Jovians/Mercurians breakfast
- Graduate Students and Current International Scholars breakfast - pre-registration required

**SHOT morning paper sessions – 9:30 - 11:30 am:**

25. Our Common Past: Conversations between History of Technology and Design History
26. From Science to Art and Back
27. Ghost in the Machine: Science, Industrialization and Rostow's Legacy
28. Railways
29. Technical Expertise and the State: Structural Problems and Institutional Responses
30. Human Mediation in Networks of Communication
31. Geographies of Technology
32. Rethinking the Nature-Technology Dichotomy: The Uses of Life in Late Modernity

**Lunch meetings – 11:30 a.m. - 1:00 p.m.:**

- SIG on Strengthening Relations Between SHOT & the Engineering Community lunch
- TEMSIG (Technology Museums) lunch

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

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

34. Ethics of New Media
35. The Colony and Beyond: Exploring Technology in Asian History
36. Knowledge at Play
37. Space, Time and Technology
38. Making a Knowledge Professional?
39. Inputs, Outputs, and Feedback

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

40. The Europeaness of the European Car
41. Technopolitics of Space
42. Creating an International Culture of Change (1870-1930)
43. Exhibiting Invention: Technological Myth-Building in Museum Narratives
44. All Things Nuclear
45. Roundtable: Archaeology, Technology and History
46. Staging Global Technology: Images and Rhetoric after World War II
47. Computer Games and Standards Development

**SHOT Business Meeting - 5:15 p.m. - 6:00 p.m.** (open to all members)

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

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

**SHOT Daily Summary - Sunday, October 15:**

**SHOT registration and information desk - 9:00 a.m. – noon**

**Breakfast meetings – 7:30 – 9:00 a.m.:**

- Albatrosses breakfast

**SHOT morning paper sessions – 9:00 – 10:45 am:**

48. Gaming, Gambling and the On-Line World: An Historical Debate on Users, Programmers, and Intellectual Property
49. Rhetoric of Telecommunications
50. Spaceflight in the History of Technology: New Approaches
51. Totalitarian Technological Landscapes
52. Interfering with the Nation: The Politics of Radio Reception in Twentieth-Century Europe and the United States
53. Technology and Display

## **THURSDAY OCTOBER 12, 2006**

**8:00 a.m. – 5:00 p.m.**

**SHOT Executive Council Meeting** (open to all members)

**9:00 a.m. – 3:00 p.m.**

**SHOT tours:**

- “Hard Hat Tour” of Hoover Dam and the Boulder City Museum (Admission by ticket only)

Bus transportation will depart from the hotel’s tour lobby entrance.

**2:00 p.m. – 4:00 p.m.**

**SHOT tours:**

- Tour of the Neon Museum (Admission by ticket only)
- Tour of the Liberace Museum (Admission by ticket only)

Bus transportation for all tours will depart from the hotel’s tour lobby entrance.

**3:00 p.m. – 6:00 p.m.**

**SHOT registration and information desk**

**7:00 p.m. - 8:00 p.m.**

**SHOT Presidential Address** (open to all attendees)

**8:00 p.m. - 10:00 p.m.**

**SHOT reception** (open to all attendees)

## **FRIDAY OCTOBER 13, 2006**

**8:00 a.m. – 9:30 a.m.**

*Technology and Culture* Editor's Breakfast

### **SIG Meetings:**

Envirotech breakfast

**8:00 a.m. – 5:00 p.m.**

**SHOT registration and information desk**

**8:30 a.m. – 5:00 p.m.**

**Book exhibit**

## **FRIDAY OCTOBER 13**

**9:30 a.m. – 11:30 a.m.**

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

Room: \*\*\*\*

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

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

Michael J. Neufeld, National Air and Space Museum

## **2. High Tech Manufacturing**

Room: \*\*\*\*

*Organizers:* Christophe Lécuyer, University of California, and David Brock, Chemical Heritage Foundation

*Chair:* Timothy Lenoir, Duke University

*Comment:* Steve Usselman, Georgia Institute of Technology

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

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

Ted Everson, Chemical Heritage Foundation: "Biomufacturing and Knowledge Production: Commercializing Recombinant Human Insulin and Growth Hormone at Genentech Inc., 1975-1985"

Ann Johnson, University of South Carolina: "Nano-manufacturing: Disruptive Technology or Incremental Innovation?"

## **3. Technology and national pride**

Room: \*\*\*\*

*Chair:* Richard Hirsh, Virginia Tech

*Comment:* The audience

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

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

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

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

## **4. Standards in Business**

Room: \*\*\*\*

*Chair:* Finn Arne Jorgensen, Norwegian University of Science and Technology

*Comment:* The Audience

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

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

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

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

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

Room: \*\*\*\*

Susan Nigra Snyder & George E. Thomas, Civic Visions

Alan Hess, *San Jose Mercury News*

Thomas Hughes, University of Pennsylvania

## **6. Individual Inventors**

Room: \*\*\*\*

*Chair:* Wiebe Bijker, University of Maastricht

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

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

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

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

## **7. Technology and Play**

Room: \*\*\*\*

*Chair:* Glenn Asner, NASA

*Comment:* Joe Corn, Stanford University

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

Aaron Alcorn, Case Western Reserve University: "'The Modern Boy is Air-Minded': Boy Consumers and the Model Airplane League of America"

Liv Ramskjaer, Norwegian Museum of Science and Technology: "Plastic boats, speed and playful leisure time" (Robinson Prize Candidate)

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

## **8. Engineering Education and Professionalism in the United States**

Room: \*\*\*\*

*Organizers:* Brent Jesiek and Jonson Miller, Virginia Tech

*Chair and Comment:* Ross Bassett, North Carolina State University

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

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

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

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

**FRIDAY OCTOBER 13**

**11:30 a.m. - 1:00 p.m.**

**SIG Meetings:**

Military Technology lunch

WITH (Women in Technological History) lunch

Computers, Information, and Society lunch

## **FRIDAY OCTOBER 13**

**1:00 p.m. – 2:45 p.m.**

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

Room: \*\*\*\*

*Chair:* John Staudenmaier, University of Detroit

*Comment:* Ruth Schwartz Cowan, University of Pennsylvania

Joseph Williams, Florida State University: "Technology in Early Pentecostal Testimonies" (Robinson Prize Candidate)

Christine Filippone, Rutgers University: "Technology and Feminist Utopias in Contemporary Art" (Robinson Prize Candidate)

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

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

Room: \*\*\*\*

*Organizer:* Bev Sauer, Johns Hopkins University

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

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

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

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

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

### **11. IT and Surveillance**

Room: \*\*\*\*

*Chair:* Pamela Mack, Clemson University

*Comment:* Alex Checovich, University of Virginia

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

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

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

## **12. Looking at Glass**

Room: \*\*\*\*

*Chair:* Nina Lerman, Whitman College

*Comment:* Joan Rothschild, CUNY Graduate Center

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

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

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

## **13. Roundtable: Teaching the History of Technology**

Room: \*\*\*\*

*Organizer:* Jeff Schramm, University of Missouri-Rolla

*Chair:* Gabriella Petrick, New York University

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

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

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

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

Room: \*\*\*\*

*Organizer:* Thomas Brandt, NTNU, Trondheim

*Chair:* Ulrich Wengenroth, University of Technology Munich

*Comment:* Jane Slaugther, University of New Mexico

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

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

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

## **15. Environmental and Social Engineering**

Room: \*\*\*\*

*Chair:* Bruce Seely, Michigan Technological University

*Comment:* Bill Leslie, Johns Hopkins University

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

Anna Storm, KTH-Royal Institute of Technology: "Interpretation processes in re-used industrial areas" (Robinson Prize Candidate)

## **16. Early 20th century roots of terrorism**

Room: \*\*\*\*

*Chair:* Merritt Roe Smith, MIT

*Comment:* Rosalind Williams, MIT

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

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

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

## FRIDAY OCTOBER 13

**3:15 p.m. – 5:00 p.m.**

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

Room: \*\*\*\*

*Organizer and Chair:* Bryan Pfaffenberger, University of Virginia

*Comment:* William L. Bird, Jr., Smithsonian Institution

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

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

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

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

Room: \*\*\*\*

*Organizer and Chair:* Gabrielle Hecht, University of Michigan

Critics:

Daniel Headrick, Roosevelt University

Francesca Bray, University of Edinburgh

Itty Abraham, East-West Center

Ruth Oldenziel, Technical University Eindhoven

Response:

Michael Adas, Rutgers University

### **19. Large-scale state projects**

Room: \*\*\*\*

*Chair:* Hans Weinberger, Norsk Teknisk Museum

*Comment:* David Hounshell, Carnegie Mellon University

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

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

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

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

Room: \*\*\*\*

*Chair and Comment:* Hamilton Cravens, Iowa State University

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

Marianne Kinkel, Washington State University: "Projecting Race"

Deborah Levine, Harvard University: "Getting on the Scale: The Tools of Body Management, 1865-1880" (Robinson Prize Candidate)

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

Room: \*\*\*\*

*Organizer:* Thomas Haigh, University of Wisconsin

*Chair:* William Aspray, Indiana University

*Comment:* James W. Cortada, IBM

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

Jeffrey Yost, Charles Babbage Institute, University of Minnesota: "The Internet and the Transformation of American Industries: A Case Study of Travel Reservations"

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

## **22. Exploring Sound**

Room: \*\*\*\*

*Chair:* Andrew J. Butrica, Independent Scholar

*Comment:* Alexander Magoun, David Sarnoff Library

Mara Mills, Harvard University: "The Deaf May Lead the Way": Sound Spectrography and Visible Speech" (Robinson Prize Candidate)

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

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

### **23. The Forgotten Openness of the Closed World**

Room: \*\*\*\*

*Organizer:* Fred Turner, Stanford University

*Chair:* Jennifer Light, Northwestern University

*Comment:* The Audience

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

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

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

### **24. Constructing Competence**

Room: \*\*\*\*

*Organizer and Chair:* Janet Abbate, Virginia Tech

*Comment:* Ken Alder, Northwestern University

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

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

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

## **FRIDAY OCTOBER 13**

**6:30 p.m. - 10:00 p.m.**

**"Challenges in Preserving and Interpreting Atomic History" special session**

**sponsored by TEMSIG (admission by pre-registration only) in the hotel, followed by a reception at the Atomic Testing Museum** (buses will leave the hotel for the museum reception immediately following the end of the session.

**"Challenges in Preserving and Interpreting Atomic History"**

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

*Moderator: Bart Hacker, National Museum of American History*

Cynthia Kelly, Atomic Heritage Foundation: "The Challenges of Preserving Atomic History"

Bill Johnson, Atomic Testing Museum: "Cold War Archaeology and the Atomic Testing Museum"

Arthur Molella, Lemelson Center for the Study of Invention and Innovation:  
"Remembering the Bomb Yesterday, Today, and Tomorrow"

Mary Palevsky, University of Nevada, Las Vegas: "Narratives of Nuclear Testing in Nevada"

## **SATURDAY OCTOBER 14, 2006**

**8:00 a.m. – 9:30 a.m.**

### **SIG Meetings:**

Tensions of Europe breakfast

Jovians/Mercurians breakfast

Graduate Students and International Scholars breakfast – pre-registration required

**8:00 a.m. – 5:00 p.m.**

**SHOT registration and information desk**

**8:30 a.m. – 5:00 p.m.**

**Book exhibit**

## **SATURDAY OCTOBER 14**

**9:30 a.m. – 11:30 a.m.**

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

Room: \*\*\*\*

*Organizer:* Kjetil Fallan, Norwegian University of Science and Technology

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

*Comment:* Martina Hessler, RWTH Aachen University, Germany

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

Penny Sparke, Kingston University, UK: "Automotive History as Conversations between the History of Technology and Design History"

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

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

## **26. From Science to Art and Back**

Room: \*\*\*\*

*Chair:* Dan Holbrook, Marshall University

*Comment:* Tom Crouch, Smithsonian Institution

Heather Campbell, International Culture Center and Museum: "By Degrees: The transformation of the astrolabe from science to art."

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

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

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

## **27. Ghost in the Machine: Science, Industrialization and Rostow's Legacy**

Room: \*\*\*\*

*Organizer:* Andre Wakefield, Pitzer College

*Chair:* Daryl Hafter, Michigan Technological University

*Comment:* Gabriel Finkelstein, University of Colorado, Denver

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

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

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

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

## **28. Railways**

Room: \*\*\*\*

*Chair:* Steve Usselman, Georgia Institute of Technology

*Comment:* The Audience

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

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

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

Tom Cornillie, University of Illinois: "Technology and the Streamlined American Passenger Train" (Robinson Prize Candidate)

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

Room: \*\*\*\*

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

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

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

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

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

## **30. Human mediation in networks of communication**

Room: \*\*\*\*

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

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

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

Max Dawson, Northwestern University: "Home Video and The 'TV Problem': Cultural Critics and Technological Change" (Robinson Prize Candidate)

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

### **31. Geographies of Technology**

Room: \*\*\*\*

*Chair:* Thomas Zeller, University of Maryland, College Park

*Comment:* Greg Downey, University of Wisconsin

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

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

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

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

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

Room: \*\*\*\*

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

*Chair:* John Krige, Georgia Institute of Technology

*Comment:* Gabriella Petrick, New York University

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

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

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

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

## **SATURDAY OCTOBER 14**

**11:30 a.m. - 1:00 p.m.**

### **SIG Meetings:**

SIG on Strengthening Relations Between SHOT & the Engineering Community

TEMSIG (Technology Museums SIG) lunch

## **SATURDAY OCTOBER 14**

**1:00 p.m. – 2:45 p.m.**

### **33. Public Subsidy and Technological Change in the History of U.S. Transportation and Information Systems**

Room: \*\*\*\*

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

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

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

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

### **34. Ethics of New Media**

Room: \*\*\*\*

*Chair:* Paul Israel, Edison Papers, Rutgers University

*Comment:* Julian Kilker, University of Nevada

Matthew Payne, University of Texas: "Leveling-Up: The Department of Defense as a Video Game Author" (Robinson Prize Candidate)

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

### **35. The Colony and Beyond: Exploring Technology in Asian History**

Room: \*\*\*\*

*Organizer:* Prakash Kumar, Yale University

*Chair and Comment:* Francesca Bray, University of Edinburgh

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

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

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

### **36. Knowledge at Play**

Room: \*\*\*\*

*Chair:* Wiebe Bijker, University of Maastricht

*Comment:* Maaïke Lauwaert, University of Maastricht

Masafumi Miyajima, Bosch Corporation: "Just Laugh to catch the idea: Stand-up Comics, Comic Strips and the Technological Literacy in postwar Japan, 1945-2003"

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

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

### **37. Space, Time and Technology**

Room: \*\*\*\*

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

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

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

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

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

### **38. Making a Knowledge Professional?**

Room: \*\*\*\*

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

*Chair:* Edmund Russell, University of Virginia

*Comment:* Bruce Seely, Michigan Technological University

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

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

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

### **39. Inputs, Outputs, and Feedback**

Room: \*\*\*\*

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

*Comment:* Nathan Ensmenger, University of Pennsylvania

Stephen Sheehan, University of Sydney: "Automata as Entertainment: The Case of the Duck's Stool" (Robinson Prize Candidate)

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

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

Amy Wendling, Creighton University: "The Speed of Production Charles Babbage's Influence on Karl Marx" (Robinson Prize Candidate)

## **SATURDAY OCTOBER 14**

**3:15 p.m. – 5:00 p.m.**

### **40. The Europeaness of the European car**

Room: \*\*\*\*

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

*Chair:* Helmuth Trischler, Deutsches Museum, Munich

*Comment:* Gijs Mom, Eindhoven University of Technology

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

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

### **41. Technopolitics of Space**

Room: \*\*\*\*

*Organizer:* Ruth Oldenziel, TU Eindhoven/University of Amsterdam

*Chair and Comment:* Tom Misa, Charles Babbage Institute, University of Minnesota

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

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

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

### **42. Creating an International Culture of Change (1870-1930)**

Room: \*\*\*\*

*Organizer:* Robert H. Kargon, Johns Hopkins University

*Chair and Comment:* Arthur Molella, Smithsonian Institution

Miriam R. Levin, Case Western Reserve University: "Paris as the Site for the Invention of a Technological Past, Present and Future"

Robert H. Kargon, Johns Hopkins University: "The Counter-Revolution of Progress: Science, Technology and Civic Culture in Chicago, 1880-1910"

Catherine Lavenir, University of Paris III (Sorbonne): "Torino as the entrance door for modernity in Italy"

### **43. Exhibiting Invention: Technological Myth-Building in Museum Narratives**

Room: \*\*\*\*

*Organizer:* Eve Duffy, Trinity University

*Chair:* Maggie Dennis, Smithsonian Institution

*Comment:* The Audience

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

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

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

### **44. All Things Nuclear**

Room: \*\*\*\*

*Chair and Comment:* Darrin Durant, York University

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

Seong-Jun Kim, Seoul National University: "Historical Origins of South Korean Nuclear Optimism" (Robinson Prize Candidate)

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

### **45. Roundtable: Archaeology, Technology and History**

Room: \*\*\*\*

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

Kelly DeVries, University of Loyola

Pamela O. Long, Independent Scholar

Benjamin Porter, University of Pennsylvania

Paul White, Brown University

#### **46. Staging Global Technology: Images and Rhetoric after World War II**

Room: \*\*\*\*

*Organizers:* Martin Collins, Smithsonian Institution and John Krige, Georgia Institute of Technology

*Chair:* Tim Stoneman, MIT

*Comment:* Suzanne Moon, Harvey Mudd College

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

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

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

#### **47. Computer games and standards development**

Room: \*\*\*\*

*Chair and comment:* Jeffrey Yost, Charles Babbage Institute, University of Minnesota

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

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

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

### **SATURDAY OCTOBER 14**

**5:15 p.m. – 6:00 p.m.**

**SHOT Business Meeting** (open to all members)

**7:00 p.m. – 10:00 p.m.**

**SHOT Awards Banquet** (Admission by ticket only)

**10:00 p.m. – Midnight**

**SHOT Hospitality Suite**

## **SUNDAY OCTOBER 15, 2006**

**7:30 a.m. – 9:00 a.m.**

### **SIG Meetings:**

Albatrosses breakfast

**9:00 a.m. – noon**

**SHOT registration and information desk**

**9:00 a.m. – 10:45 a.m.**

### **48. Gaming, Gambling and the On-Line World: An Historical Debate on Users, Programmers, and Intellectual Property**

Room: \*\*\*\*

*Organizer:* David L. Harmon, Finger Lakes Community College

*Chair, and Comment:* Atsushi Akera, Rensselaer Polytechnic Institute

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

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

### **49. Rhetoric of Telecommunications**

Room: \*\*\*\*

*Chair:* Amy Bix, Iowa State University

*Comment:* Robert MacDougall, University of Western Ontario

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

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

Michael Graziano, Northwestern University: "Motorola and the Emergence of Cellular Radiotelephony" (Robinson Prize Candidate)

## **50. Spaceflight in the History of Technology: New Approaches**

Room: \*\*\*\*

*Organizer:* Slava Gerovitch, MIT

*Chair:* Alex Roland, Duke University

*Comment:* Roger Launius, Smithsonian Institution

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

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

## **51. Totalitarian Technological Landscapes**

Room: \*\*\*\*

*Organizer:* Tiago Figueiredo Saraiva, University of Lisbon

*Chair and Comment:* Frank Uekoetter, Universität Bielefeld

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

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

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

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

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

Room: \*\*\*\*

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

*Chair and Comment:* James Schwoch, Northwestern University

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

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

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

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

### **53. Technology and Display**

Room: \*\*\*\*

*Chair and Facilitator:* Debbie Douglas, MIT Museum

*Comment:* The Audience

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

Emily Godbey, Iowa State University: "Betting on Destruction: Wrecking Trains, Planes, and Automobiles" (Robinson Prize Candidate)

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