

**HISTORY OF SCIENCE SOCIETY
3-6 November 2011**

Co-located Meeting with
The Society for the History of Technology
and
The Society for Social Studies of Science

Cleveland, Ohio

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ACKNOWLEDGMENTS

Welcome to Cleveland and the 2011 HSS conference! The 2011 meeting marks one of those rare years in which we are meeting with our colleagues from the Society for the History of Technology (SHOT) and the Society for Social Studies of Science (4S). We expect over 1500 scholars to come to Cleveland for this signal event. And because these co-located meetings involve more moving pieces than our stand-alone conferences, I have many people to thank.

Since the program, according to our surveys, is the main reason people come to the conference, I would like to start by thanking our program co-chairs: Michael Gordin (Princeton University) and Matthew Jones (Columbia University). Those who have never served as program chair, especially for a co-located meeting, can only imagine the questions and decisions thrown up by an international conference. From the highs of helping assemble terrific sessions, to the lows of explaining why an individual's submission was not suitable for the program, M&M -- as we came to call them -- soldiered on with good humor and good judgment. They were the ones who looked at past programs and asked why we had been scheduling sessions from 1:30 to 3:10 (a time span that I believe was a vestige of the old "works in progress" sessions) and pushed for something more attuned to the submissions we receive: 1:30 to 3:30. This move not only allows more equity across session times, it also extends the much-needed afternoon break by 10 minutes. (I will value feedback on this structure in our post-conference survey).

Our local arrangements committee, chaired by Molly Berger and Alan Rocke of Case Western Reserve University, outdid themselves in numerous categories, especially fund raising. My deep thanks to them and the entire committee: John Broich, Virginia Dawson, James Edmonson, John Grabowski, Miriam Levin, Jonathan Sadowsky, and Peter Shulman. Their efforts, combined with the development office at CWRU, resulted in a record amount of donations for this conference and is the main reason why the opening reception will be a lavish affair in a unique venue. They recruited student volunteers, created a fabulous restaurant guide, met with donors, answered question after question after question, and even picked out the complimentary tote bags. Thank you. I am also grateful to Cristine Rom who volunteered (without being asked) to help with registration, an act of kindness beyond description.

Our Committee on Meetings and Programs, chaired by Rachel Ankeny, continued to work behind the scenes, helping me sort through all types of challenges. They are the ones whose judgment on the shape of the meeting I unflinchingly rely. As chair, Rachel provided unswerving support and exchanged countless email messages on the meeting. I am also grateful to Bernie and Jane Carlson, of the SHOT Executive Office, for their many hours of discussion and encouragement, and to Wes Shrum of 4S who was faced with novelty after novelty as we cooperated on our respective programs. My son, Mason, created the Web registration interface, spending hundreds of hours trouble shooting code pro bono. He has his father's deep appreciation. All of these volunteers make the conference possible and if you see them, please tell them, "Thank you!"

The annual meeting works because of the ongoing efforts of the HSS office staff, efforts that begin years before the actual conference: Greg Macklem, our Society Coordinator, manned the front lines, the back lines, the observation tower, and the supply line. He was asked to do it all and did so with good humor and painstaking (and painful) attention to detail. Our Notre Dame students, Manuela Fernández Pinto and Laura Bland assisted with everything from organizing workers, to proofreading the program, to scrutinizing travel grants, to setting up the book exhibit. They also have my deep thanks, as does Matt White (University of Florida) who bravely volunteered to help with registration (yet again); Michal Meyer (Chemical Heritage Foundation) who assembled the pictures for the In Memoriam and prize winners; and Darin Hayton (Haverford College), our photographer.

Because conference expenses continue to rise dramatically, sponsorships and support are an important part of each meeting. Without the support of the University of Notre Dame (which has my deep thanks); Case Western Reserve University; Johns Hopkins University's Department of History; the Science, Technology, and Society Program at Virginia Commonwealth University; the Legacy of R.L. Moore Project; Pfizer Corporation; the University of Chicago Press, Journals Division; Brent Dibner; Miles Davis; Henri Junod, Jr.; Albert Lewis; Carla Nappi and Bruce Rusk; Thomas Peterson, Jr.; Neale Watson; and several anonymous donors, including a most generous donor who, once again, provided wine for the Society dinner, we would either have to raise registration prices significantly or cut back on conference necessities, such as coffee. I appreciate, beyond words, their help. The HSS Executive Committee provided support, understanding, and wisdom on all aspects of the meeting—they too, have my profound thanks.

Finally, you the participants, make this all worthwhile. Your presence, your contributions, and your involvement create a mix that cannot be replicated. And if you are not a member of the HSS, please join us -- it is our members who make all of this possible.

Jay Malone
HSS Executive Director
4 October 2011

We are pleased to be meeting with our colleagues from SHOT and 4S. Although the SHOT and 4S hotels are within easy walking distance of the HSS conference, we will be providing shuttle buses that will circulate among the three hotels, from 8:15 a.m. to 6:15 p.m., on Friday and Saturday.

A NOTE ON AUDIO/VISUAL EQUIPMENT

This is the third time that we will be providing lcd projectors (beamers) in all of the session rooms. Because these projectors are expensive, and thus impact the registration fees, registrants should be aware of the history that went into that decision.

In 1998, the HSS Council voted to equip one hi-tech room for each meeting, a room that held three types of projectors: lcd (beamer), slide, and overhead. The decision was made in the face of increasing demand for lcd projectors, which, at the time, cost \$800 - \$1,200US per day to rent. To have filled all requests for these projectors, fueled by the rise of Powerpoint, would have easily doubled registration fees. Much has changed in the interim but not everything: Kodak no longer makes slide projectors, overhead projectors are seldom used, and almost all requests for projection equipment are now for lcds. And although the price for such projectors has dropped considerably, the price is still substantial: bids for lcd projectors for the Cleveland meeting ranged from \$375-\$1,000/day. And when you consider the various charges that come with a/v – microphones, screens, carts, portable speakers, patch fees – the costs are significant.

Now that you can buy an lcd for a few hundred dollars, many people have suggested that we simply purchase our own and bring them to the meetings. This would be a mistake for a number of reasons: such equipment is fragile and expensive to ship; we would still have to hire individuals to set up the equipment, tear it down and troubleshoot (labor costs are a large part of any a/v bid); equipment quickly becomes obsolete; and projectors that provide sufficient illumination in a large room cost much more than the projectors you carry in your bag. In the end, it is the labor part of the equation that is the most significant. When a projector malfunctions, it is essential that a trained technician is on hand to solve the problem – those who are presenting their papers will not be given a second chance.

And it was not just price that prompted the resistance to using lcd projectors. We have heard many complaints over the years where projectors were used as a crutch to support a weak presentation and in too many cases individuals would simply read what was on the screen, a sure way to lose one's audience. Words still count and one of the best examples of this is the internet spoof where Abraham Lincoln gives his Gettysburg Address using Powerpoint.

But Powerpoint is a prominent feature in education today and the good will lost in trying to determine who REALLY needed a projector for their presentations, trying to assign rooms based on projector availability, trying to switch projectors from room to room, trying to explain to a panicked individual that he did not request a projector so there is not one available, and trying to convince local organizers to borrow projectors from their local universities, ended up eroding the quality of the meeting and the quality of the experience. So, for the 2011 conference, we are equipping each room with a projector. To do so means an increase in registration fees but we hope that the extra cost is justified by a more effective delivery of information. What we are not providing are computers, which would also ratchet up the registration fees. Given the ubiquity of laptops, we feel that some simple coordination among presenters will allow seamless use of a common computer and we appreciate all of those who bring their own equipment, which helps us combat rising registration fees.

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Jonathan Sadowsky, Case Western Reserve University
Peter Shulman, Case Western Reserve University

I wish to thank our volunteers whose terms ended in 2010 or will end in 2011. Their time and effort are the reason that the HSS is able to function, able to recognize superlative scholarship, hold an annual meeting, publish the highest-quality scholarship, maintain a web presence, nurture scholarship, and promote interest in the history of science. I offer my deep-felt thanks to each one.

(Jay Malone, HSS Executive Director)

Paul Farber, **President**

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Term ended in 2010:

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Deborah Harkness

John Beatty

Pamela O. Long

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Judith Johns Schloegel

Deborah Coen

Florence Hsia

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Graduate and Early Career Caucus

Lynette Regouby, co-chair

Gina Rumore, co-chair

Women's Caucus

Susan Rensing, co-chair

Karen Rader, co-chair

HSS/NASA Fellowship

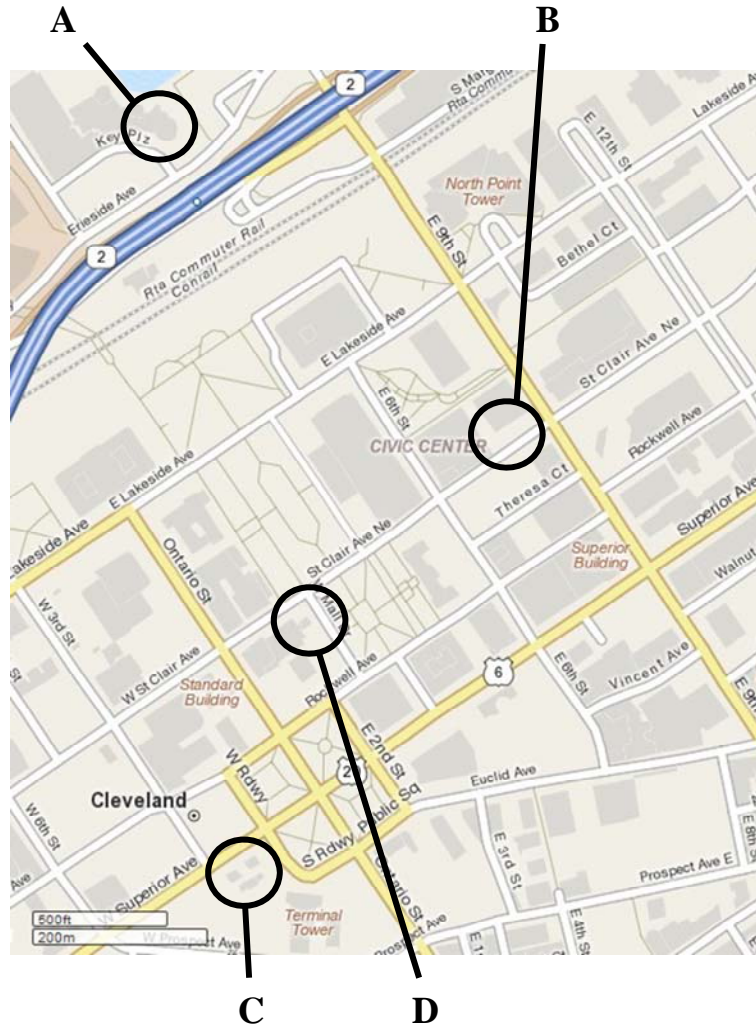
Bruce Hunt, chair

AHA/NASA Fellowship

Robert Smith

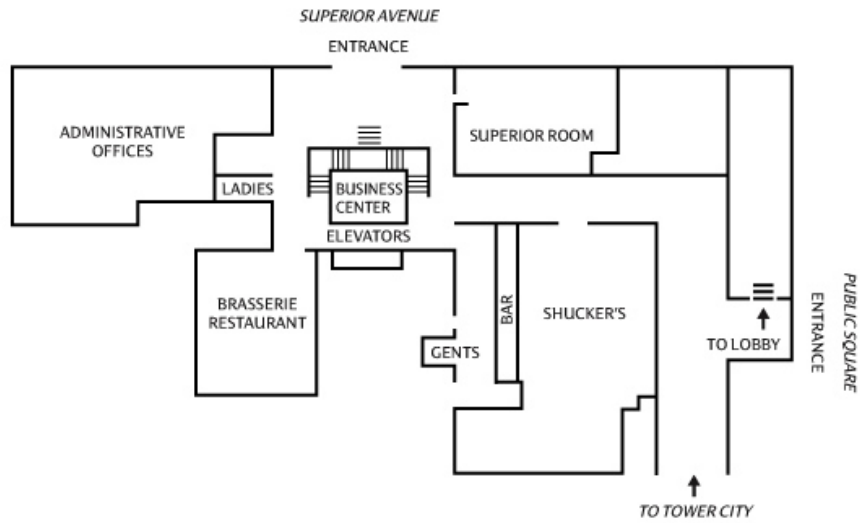
The Co-Located Meeting Sites

- A - Great Lakes Science Center
- B - Crowne Plaza (4S)
- C - Renaissance Cleveland Hotel (HSS)
- D - Marriott Key Center (SHOT)

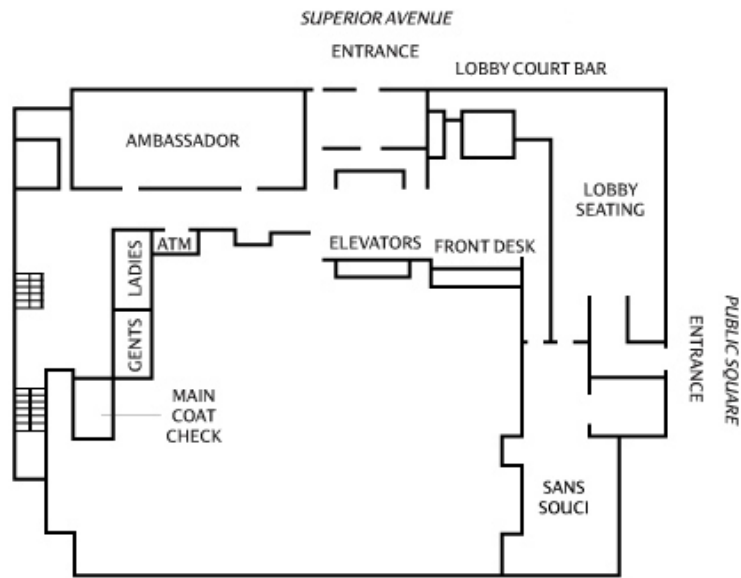


Renaissance Cleveland Hotel

First Floor (Lower Lobby Level)

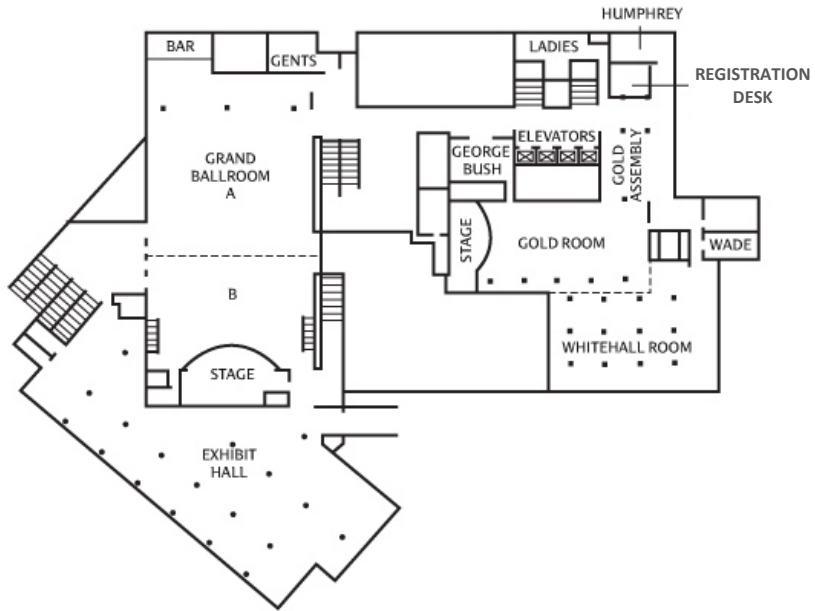


Second Floor (Lobby Level)

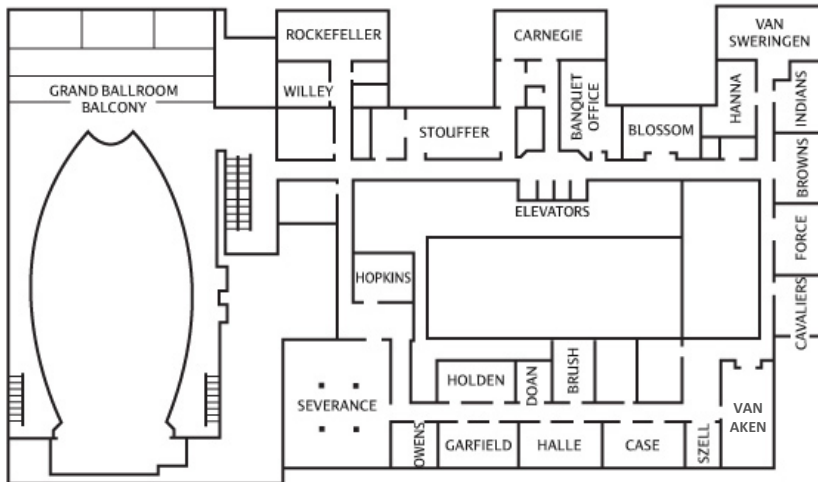


Renaissance Cleveland Hotel

Third Floor (Mezzanine Level)

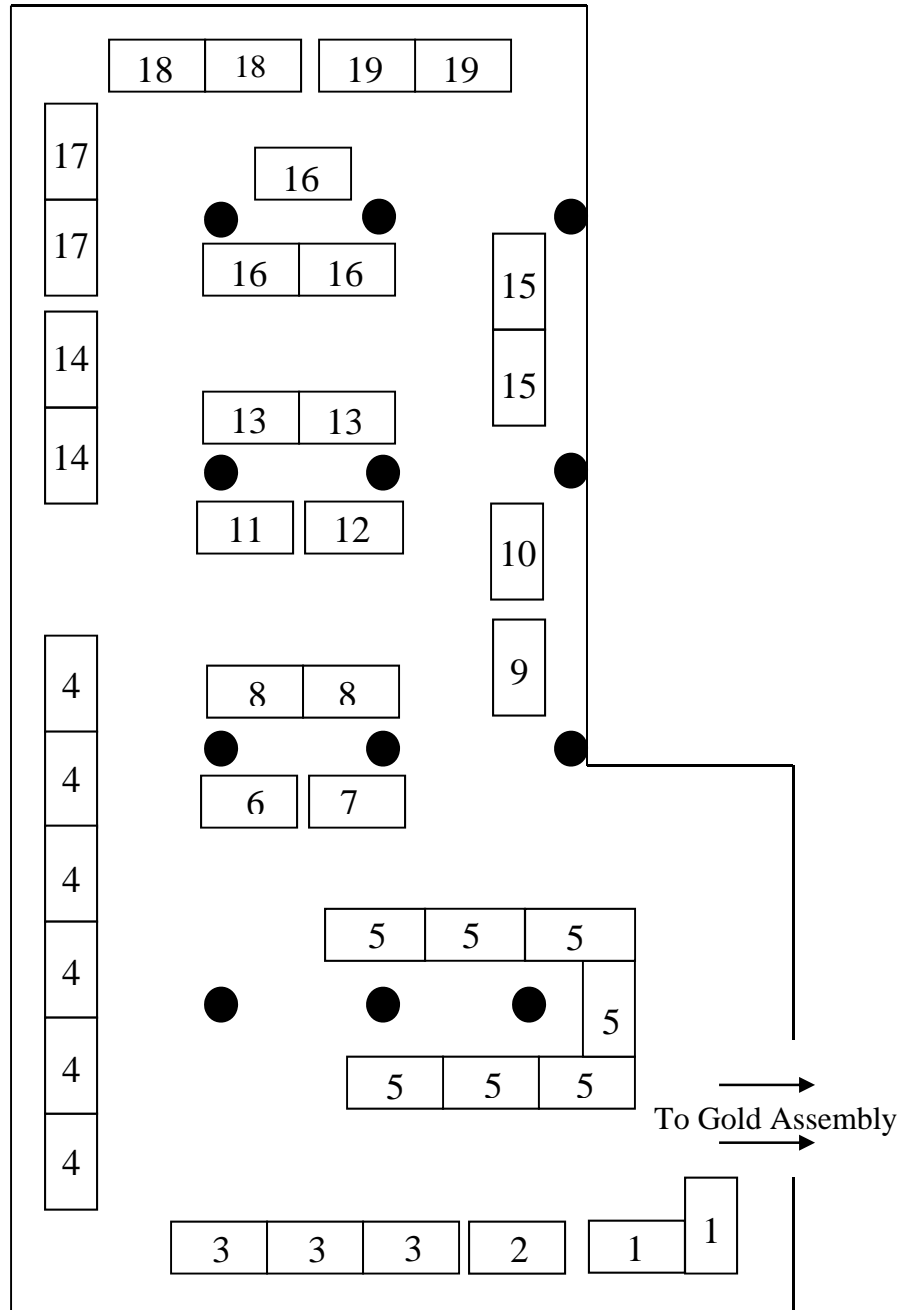


Fourth Floor (Conference Level)



2011 HSS Book Exhibit – Whitehall (3rd Floor)

Diagram not to scale, pillars indicated by ●



Book Exhibit Key

By Table Number

1. Collective Book Exhibit
2. Oxford University Press
3. The Johns Hopkins University Press
4. The Scholar's Choice
5. University of Chicago Press
6. Brill
7. Harvard University Press
8. University of Pittsburgh Press
9. Chemical Heritage Foundation
10. The Edwin Mellen Press
11. University of Toronto Press
12. Elsevier
13. Pickering & Chatto
14. Duke University Press
15. Taylor & Francis
16. The MIT Press
17. B&L Rootenberg Rare Books
18. Rutgers University Press
19. Green Lion Press

By Exhibitor Name

B&L Rootenberg Rare Books	17
Brill.....	6
Chemical Heritage Foundation.....	9
Collective Book Exhibit	1
Duke University Press	14
Elsevier.....	12
Green Lion Press	19
Harvard University Press.....	7
Johns Hopkins University Press	3
Mellen Press	10
MIT Press	16
Oxford University Press	2
Pickering & Chatto	13
Rutgers University Press	18
Scholar's Choice.....	4
Taylor & Francis	15
University of Chicago Press	5
University of Pittsburgh Press	8
University of Toronto Press.....	11

HSS/SHOT/4S 2011

Cleveland Downtown Restaurant Guide

* and ** = particular favorites of the local arrangements crew (but we have tried only some of the restaurants in this guide!)

\$ / \$\$ / \$\$\$ / \$\$\$\$ = inexpensive / moderate / somewhat expensive / expensive

RR = advance reservations normally required

All except last category are no more than about a 15-min. walk from all three hotels.

Public Square and Tower City Neighborhood

Tower City food court

Connected inside to the Renaissance Hotel, not open Sun. morning, (\$)

Sans Souci

Renaissance Hotel, (216) 696-5600, Provencal French and Mediterranean; breakfast, lunch, and dinner 7 days (\$\$\$-\$\$\$\$)

David's Restaurant

Marriott Key Center Hotel, (216) 696-9200, seafood and steaks (some consider overpriced) (\$\$\$\$)

Flaming Ice Cube

140 Public Square, (216) 263-1111, small, vegan, breakfast lunch & dinner (except Sat. morning, closed Sunday) (\$)

75 Prime

75 Public Square, (216) 621-1085, supper club and cocktail lounge, no weekend lunches (\$\$\$-\$\$\$\$)

Pura Vida

170 Euclid (on Public Square), (216) 987-0100, gourmet meals, open only on weekdays (\$\$)

***Noodlecat**

234 Euclid (just off Public Square), (216) 589-0007, Japanese-style noodle house (recently opened by a respected Cleveland restaurateur), open 11-11 M-Sat. (\$\$)

John Q's Steakhouse

W. Third and Frankfort (on Public Square), 861-0900, American steakhouse with sports bar decor, no weekend lunches (\$\$\$-\$\$\$\$)

***Muse Restaurant**

1515 W. Third, in the Ritz-Carlton Hotel, (216) 623-1300, elegant contemporary American, serene ambience and heavy on service (\$\$\$\$)

Houlihan's

230 W. Huron, in Tower City, (216) 830-9090, tavern chain (\$\$)

Fat Fish Blue

21 W. Prospect (at Ontario), (216) 875-6000, casual creole (\$\$)

Hyde Park Prime Steakhouse

123 W. Prospect, connected to Renaissance Cleveland Hotel, (216) 344-2444, American steakhouse, dinners only (\$\$\$-\$\$\$\$)

Morton's The Steakhouse

1600 W. Second, connected to the Renaissance Cleveland Hotel and Tower City, (216) 621-6200, American steakhouse, no weekend lunches (\$\$\$\$)

Hard Rock Café

230 W. Huron, in Tower City, (216) 830-7625, American chain bar and grill (\$\$)

E. Fourth Street

***Greenhouse Tavern**

2038 E. Fourth, (216) 443-0511, creative and locally-sourced, no weekend lunches (\$\$\$, RR)

***La Strada**

2050 E. Fourth, (216) 861-3663, Italian and Mediterranean, seafood, no weekend lunches (\$\$\$)

****Lola** 2058 E. Fourth, (216) 621-5652, “Iron Chef” Michael Symon’s signature restaurant, creative bistro, no weekend lunches (\$\$\$\$
RR)

Saigon 2061 E. Fourth, (216) 344-2020, Vietnamese, no weekend lunches (\$\$)

Zocalo 2071 E. Fourth, (216) 781-0420, Mexican (\$\$)

****Chinato** 2079 E. Fourth, (216) 298-9080, upscale rustic pan-Italian, no weekend lunches (\$\$\$)

***Flannery’s Pub**
323 E. Prospect at E. Fourth, (216) 781-7782, large Irish pub, 30 drafts, live music (\$\$)

House of Blues 308 Euclid, (216) 523-2583, live music and southern-style food, no weekend lunches (\$\$)

Pickwick & Frolic 2035 E. Fourth, (216) 241-7425, comedy club with large pub-style restaurant, dinners only (\$-\$\$\$)

Warehouse District (listed in order, walking north on W. Sixth or W. Ninth)

***Johnny’s Downtown** 1406 W. Sixth (at Frankfort), (216) 623-0053, white-tablecloth American tavern with northern Italian touches, no weekend lunches (\$\$\$-\$\$\$\$)

***Taza Lebanese Grill** 1396 W. Sixth, new location of popular east-side restaurant (\$\$)

China Sea Express 1384 W. Sixth, (216) 861-3399, small and casual, Chinese (\$)

Nauti Mermaid
1378 W. Sixth, (216) 771-6175, casual Caribbean-inspired seafood (\$-\$\$\$)

Bar Louie

1352 W. Sixth, (216) 241-1300, respected tavern chain (\$\$\$)

***Cleveland Chop House and Brewery**
824 W. St. Clair (between W. Sixth and W. Ninth), (216) 623-0309, retro-chic American steakhouse and craft brewery (\$\$\$-\$\$\$\$)

****Blue Point Grille**
700 W. St. Clair (just west of W. Sixth), (216) 875-7828, seafood, no weekend lunches (\$\$\$-\$\$\$\$)

Sushi Rock
1276 W. Sixth, (216) 623-1212, sushi and steaks, no weekend lunches (\$\$\$)

XO Prime Steakhouse
500 W. St. Clair (at W. Sixth), (216) 861-1919, classic (pricey) American steakhouse, no weekend lunches (\$\$\$\$)

***Osteria di Valerio**
408 W. St. Clair (just east of W. Sixth), (216) 685-9490, nondescript entryway, but lovely white-tablecloth Tuscan and Piedmontese, dinners only (\$\$\$-\$\$\$\$)

Prime Rib Steakhouse
740 W. Superior (just east of W. Ninth), “carvery”-style steakhouse (\$\$\$-\$\$\$\$)

****Mallorca**
1390 W. Ninth, (216) 687-9494, white-tablecloth Portuguese and Spanish, diverse menu, excellent wine list, tapas, seafood (\$\$\$-\$\$\$\$)

Zdara Restaurant and Lounge
1382 W. Ninth, (216) 535-0001, Turkish and Mediterranean, belly dancing Friday nights (\$-\$\$\$)

***Brasa Grill**
1300 W. Ninth, (216) 575-0699, Brazilian churrasceria steakhouse, dinners only (\$\$\$\$)

***Constantino's Market**

1278 W. Ninth, (216) 344-0501, specialty market with eat-in or to-go soups and prepared foods, good package wine dept., also open Sat. and Sun. from 9 a.m.

E. Ninth St. Neighborhood; south of E. Superior; and Playhouse Square

Pimentos

777 St. Clair, in the Crowne Plaza Hotel, (216) 771-7600, Continental (\$\$\$)

Café Sausalito

1301 E. Ninth (in Galleria, 2nd level), (216) 696-2233, American casual (\$\$)

Tucky's

1701 E. Twelfth, (216) 394-0256, local specialty hot dogs and burgers, weekday lunches only (\$)

Stadium 3 Bar and Grille

1111 E. Lakeside (in the Doubletree Hotel), (216) 241-5100, casual upscale tavern (\$\$)

Alesci's

Downtown, 828 E. Huron Rd., (216) 348-8600, Italian deli (\$)

Otto Moser's Restaurant

1425 Euclid, (216) 771-3831, old Cleveland standby known esp. for corned beef sandwiches (\$\$)

Sapporo Sushi

1940 E. Sixth St., (216) 579-9000, lunches and early dinners (\$\$\$)

Bricco

1438 Euclid, (216) 862-2889, casual upscale Italian, big wine list (\$-\$\$\$)

Zinc Bistro

668 Euclid, (216) 583-9462, French and Continental bistro, raw bar, no weekend lunches (\$\$\$)

1890 at the Arcade

420 E. Superior, in the Hyatt at the Old Arcade, (216) 776-4576, small and relaxed, also open for breakfast (\$-\$\$\$)

***Vincenza's Pizza and Pasta**

603 E. Prospect, (216) 241-8382, excellent deep dish and New York style pizzas, calzones, pasta (\$-\$)

Porcelli Bistro

1852 E. Sixth, (216) 574-2270, Italian (\$\$)

Coffee Houses and good choices for lunch (see also next category)

Three Starbucks locations downtown

200 Public Square (in the lobby of the Huntington/BP Building); 1374 W. Sixth St. (in the Warehouse District, between Nauti Mermaid and Bar Louie); and in the Marriott hotel

***Caribou Coffee**

Tower City, street level, adjacent to the Renaissance Hotel lobby, a primarily Midwestern chain (\$)

***Au Bon Pain**

200 Public Square, in Huntington/BP Building, national chain bakery (\$)

Erie Island Coffee

2057 E. Fourth, (216) 394-0093 (\$)

Tower City food court

(not open Sunday morning) (\$)

The Arcade food court

Euclid and E. Fourth (\$)

Brasserie

Renaissance Hotel (lower lobby), breakfast and lunch only (\$\$\$)

Flaming Ice Cube

140 Public Square, (216) 263-1111, vegan, breakfast lunch & dinner (except Sat. breakfast, closed Sunday) (\$)

Pura Vida

170 Euclid (on Public Square), (216) 987-0100, gourmet meals, open weekdays only (\$\$)

***Noodlecat**

234 Euclid (just off Public Square), (216) 589-0007, Japanese-style noodle house (recently opened by a respected Cleveland restaurateur), open 11-11 M-Sat. (\$\$)

****Stone Oven Bakery**

1301 E. Ninth (in Galleria), (216) 621-8801, excellent soups, sandwiches, and desserts, open 7-4 weekdays only (\$)

Café Sausalito

1301 E. Ninth (in Galleria, 2nd level), (216) 696-2233, American casual (\$\$)

Tucky's

1701 E. Twelfth, (216) 394-0256, local specialty hot dogs and burgers, weekday lunches only (\$)

Market Café and Wine Bar

1801 E. Ninth, (216) 394-0122, breakfast and lunch only, weekdays only (\$-\$\$)

Carnegie Kitchen

1332 Carnegie Ave., (216) 862-6788, breakfast and lunch only, open at 7 Mon.-Sat., closed Sunday (\$-\$\$)

Susy's Soup

230 W. Huron, in Tower City, (216) 771-7792 (\$)

Zoup!

236 E. Euclid, (216) 344-0031, soups and fast-casual chain, lunch and dinner (\$)

Jimmy Johns

240 E. Euclid, (216) 589-5540, gourmet sandwich chain (\$)

Taverns, Bars, and Pubs (all serve food, often quite good)

D'Vine Wine Bar

836 W. St. Clair, (216) 241-8463, wine bar with small plates (\$\$)

Bob Golic's Sports Bar & Grille

1213 W. Sixth, (216) 363-1132, upscale sports bar owned by a famous former Cleveland Brown (\$\$)

Barley House

1261 W. Sixth, (216) 623-1700, somewhat downscale Irish pub, 20 drafts, lunch and dinner every day (\$-\$\$)

***Gillespie's Map Room**

1281 W. Ninth, (216) 621-7747, small neighborhood tavern with good pizza and large array of micro-brews (\$)

***Johnny's Little Bar**

614 W. Frankfort, (216) 861-2166, little, to be sure (around the corner from Johnny's Downtown), but good beer and burgers, no weekend lunches (\$\$\$)

Chocolate [Martini] Bar

347 Euclid, (216) 622-2626, desserts, cocktails (\$\$)

***Flannery's Pub**

323 E. Prospect at E. Fourth, (216) 781-7782, large Irish pub, 30 drafts, live music (\$\$)

Harry Buffalo

2120 E. Fourth, (216) 6231-8887, chain, bar food and steaks (\$-\$\$)

Cadillac Ranch

200 Euclid at Public Square, (216) 685-0000, large hectic sports bar with mechanical bull and indifferent food (\$\$)

Wonder Bar

2044 E. Fourth, (216) 298-4050, live jazz, cocktails, bar food, no weekend lunches (\$\$)

City Tap

748 E. Prospect (across from the Q), (216) 696-2337, brewpub and sports bar (\$)

Clevelander Bar and Grill

834 E. Huron, (216) 771-3723, sports bar (\$)

Winking Lizard

801 E. Huron, (216) 589-0313, popular sports bar with decent food (\$)

For these you will need a taxi, but they're worth it

***Table 45**

9801 Carnegie, in InterContinental Hotel on Cleveland Clinic campus, (216) 707-4045, international fusion (\$\$\$, RR)

****L'Albatros**

11401 Bellflower Rd., University Circle, (216) 791-7880, French brasserie/bistro (\$\$\$)

***Crop Bistro**

2537 Lorain Ave., near west side, (216) 696-2767, contemporary American with fresh and local ingredients (\$\$\$, RR)

***Empress Taytu Ethiopian Restaurant**

6125 St. Clair, east side, (216) 391-3131 (\$\$)

***Fahrenheit**

2417 Professor Ave., Tremont neighborhood, (216) 781-8858, contemporary American (\$\$\$, RR)

***Fire**

13220 Shaker Square, east side, (216) 921-3473, seasonal American (\$\$\$-\$\$\$\$)

***Flying Fig**

2523 Market Ave., near west side, (216) 241-4243, upscale, locally sourced American (\$\$\$)

***Great Lakes Brewing Co.**

2516 Market Ave., near west side, (216) 771-4404, excellent craft brewery and restaurant (GLBC offers 10% off for attendees; show badge) (\$\$)

***Li Wah**

E. 30th and Payne, near east side in Asia Plaza, (216) 589-9552, perhaps Cleveland's best Chinese restaurant (\$\$)

****Lolita**

900 Literary Ave., Tremont neighborhood, (216) 771-5652, Mediterranean bistro (Michael Symon's other and more casual restaurant) (\$\$\$)

***Lopez**

2196 Lee Rd., Cleveland Hts., (216) 932-9000, American southwestern (\$\$\$)

****Momocho**

1835 Fulton Rd., west side, (216) 694-2122, modern Mexican, perhaps Cleveland's best in this category (\$\$\$)

***Nighdtown**

12387 Cedar Rd., Cleveland Hts., (216) 795-0550, American with Irish influence, nightly (mostly jazz) entertainment (\$\$-\$\$\$)

***Parallax**

2179 W. 11th, Tremont neighborhood, (216) 583-9999, Asian fusion and seafood (\$\$\$, RR)

***Saravá**

13225 Shaker Square, east side, (216) 295-1200, Brazilian (\$\$\$)

***Sasa Matsu**

13120 Shaker Square, east side, (216) 767-1111, Japanese izakaya (\$\$)

Taxis and other transportation

† **Americab** (216) 881-1111

Yellow Cab (216) 623-1500;

Ace (216) 361-4700;

ABC (216) 651-7777;

AAA (216) 848-0667.

The Shaker Square restaurants are also accessible by the RTA Blue and Green lines from Tower City. Table 45 and L'Albatros are also accessible by RTA's HealthLine Bus Rapid Transit line. You can take the RTA Red line one stop west to the Great Lakes Brewing Co., Flying Fig, and Crop Bistro

HSS Program Overview

Thursday, 3 November

1:00 p.m.–5:00 p.m.

HSS Council Meeting (George Bush – 3rd Floor)

1:00 p.m.–3:00 p.m.

HSS Women’s Caucus Roundtable Workshop on Gender and STEM (Ambassador – 2nd Floor)

3:00 p.m.–5:00 p.m.

Planning Session for the HSS Women’s Caucus (Ambassador – 2nd Floor)

6:00 p.m.–7:00 p.m.

Joint Plenary Session with SHOT and 4S – Grand Ballroom (Marriott Key Center)
Dealing with Disasters: Perspectives on Fukushima from the History and Social Studies of Science and Technology

7:00 p.m.–10:00 p.m.

Joint reception with SHOT and 4S (cash bar) – Great Lakes Science Center (see page 23)
Newcomer and Mentorship Reception – Reinberger Auditorium (Great Lakes Science Center)

Friday, 4 November

7:30 a.m. – 8:45 a.m.

Women’s Caucus Breakfast and Business Meeting (Superior – 1st Floor)
Committee on Honors and Prizes Meeting (Sans Souci – 2nd Floor)

8:30 a.m.–10:00 a.m.

Beyond the Science-Technology Relationship – Salon D (Marriott Key Center)

9:00 a.m.–11:45 a.m. (Coffee Break 10:00 a.m.–10:15 a.m.)

Defending Science Against Standardization – Severance (4th Floor)
Putting the Human into Human Genetics – Gold (3rd Floor)
New Views of the Antikythera Mechanism: A Geared Astronomical Computing Machine from the Second Century BCE – Humphrey (3rd Floor)
The Heidelberger Kreis of Scientists at Mid-Century: Teaching, Research, and International Fame – George Bush (3rd Floor)
Linking the Past and the Present: A Discussion of Collaboration Between Historians and Practitioners in the Classroom, the Field and the Laboratory (roundtable) – Van Aken (4th Floor)
The ‘State’ of Science and Religion: Ingenuity and Institution in the Age of Galileo and Kepler – Halle (4th Floor)
Aesthetics and Politics: Towards Building Relationships Between Media Studies and History of Science – Case (4th Floor)
Locating Emotions in the Body: Transnational Perspectives on the Treatment of Emotional Disorders in the East Asian Medicine (Sponsored by FHSAsia) – Garfield (4th Floor)
Costs and Benefits: Life Scientists and the Assessment of Wartime Technologies, from 1945 to the Vietnam War – Blossom (4th Floor)
Solid State Science in the Twentieth Century: Major Trends through a New Lens - Holden (4th Floor)

10:30 a.m.-12:30 p.m.

Roundtable: Engaging with Asia--Responsibilities and Opportunities in the History of Science and Technology – Salon D (Marriott Key Center)

12:00 p.m.-1:15 p.m.

Forum for the History of Science in America Business Meeting and Distinguished Scientist Lecture – Gold (3rd Floor)

Author's Workshop: The Why(s) of Publishing (Sponsored by the Graduate and Early Career Caucus) – George Bush (3rd Floor)

Forum for the History of the Mathematical Sciences Luncheon – Stouffer Boardroom (4th Floor)

Committee on Meeting and Programs – Sans Souci (2nd Floor)

1:30 p.m.-3:30 p.m.

Classifying People – Garfield (4th Floor)

Making Mathematics: Models, Machines, and Materialities (Session sponsored by the Forum for the History of the Mathematical Sciences) – Case (4th Floor)

Paleontology from Osborn to Gould – Halle (4th Floor)

Profit and the Public Weal: Science, Luxury and Commercial Society, 1700-1850 Severance (4th Floor)

Science and Commodities, Regions and Worlds: Revisiting the Historiography of Colonial Science – Holden (4th Floor)

Science and Regulation in a Contaminated World: Part I – Gold (3rd Floor)

Scientific Periodicals in Great Britain, 1785-1914 – George Bush (3rd Floor)

The Centennial of Mme Curie's Nobel Prize in Chemistry (2011, 1911) and its Social Significance – Van Aken (4th Floor)

The Ethical and the Epistemological in Human Subject Research – Humphrey (3rd Floor)

The Long 1960s: Between Science and Counterculture – Blossom (4th Floor)

3:30 p.m.-4:00 p.m.

Coffee Break – Whitehall and Gold Assembly (3rd Floor)

4:00 p.m.-6:00 p.m.

Consuming Bodies: Statistics and the Human Sciences in the Nineteenth and Early Twentieth Centuries – George Bush (3rd Floor)

Earthbound: Geology and Archaeology – Halle (4th Floor)

Early Astronomy and Astrology – Humphrey (3rd Floor)

Moral Science - Severance (4th Floor)

Science and Regulation in a Contaminated World. Part II. – Gold (3rd Floor)

Technoscience Exchanges Among Latin America, Europe, and the United States in the 'Short Twentieth Century': Comparative Studies of Knowledge and Practice Exchanges – Holden (4th Floor)

The Global Sciences of Language – Case (4th Floor)

Treatment, Sex, and Discovery – Blossom (4th Floor)

Victorian Networks – Van Aken (4th Floor)

Visual Evidence – Garfield (4th Floor)

6:30 p.m.-7:15 p.m.

HSS Awards Ceremony – Gold (3rd Floor) (see page 42)

7:30 p.m.-8:30 p.m.

HSS Distinguished Lecture: Silvan S. Schweber – Gold (3rd Floor)

8:45 p.m.-10:00 p.m.

Isis Editorial Board Dinner – Stouffer Boardroom (4th Floor)

9:00 – 11:00 p.m.

Graduate and Early Career Caucus Mixer – Wonder Bar (see page 31)

Saturday, 5 November

7:30 a.m.-8:45 a.m.

Osiris editorial board meeting – Szell (4th Floor)

Committee on Education Meeting – Sans Souci (2nd Floor)

History of Chemistry Interest Group Breakfast – Shucker's (1st Floor)

9:00 a.m.-11:45 a.m. (Coffee Break 10:00 a.m.-10:15 a.m.)

Divided Allegiances: Conflict and Compromise in the Republic of Letters from the Thirty Years' War to the French Revolution – Humphrey (3rd Floor)

Brave New World: The Culture of Chymistry in Early Modern England and America – George Bush (3rd Floor)

Roundtable: Bringing Science to the Public: What Can the Science Studies Scholar Do? – Severance (4th Floor)

Migration of Scientists in Asia and the World – Halle (4th Floor)

Doing Natural History – Gold (3rd Floor)

New Perspectives in the Modern History of Madness and Psychiatry – Case (4th Floor)

Robert S. Westman's *The Copernican Question* (2011): A Symposium – Van Aken (4th Floor)

Sensing Tones: Hermann von Helmholtz at the Intersection of Sound, Music, and Science – Garfield (4th Floor)

Toward a Nuanced Understanding of Colonialism and Nationalism: Contestations and Confluences in the Making of Science Blossom (4th Floor)

Floating Labs: Mobile Scientific Spaces and the Reconfiguration of Practice
Holden (4th Floor)

11:50 a.m.-12:30 p.m.

Graduate and Early Career Caucus (GECC) Business Meeting – Severance (4th Floor)

12:00 p.m.-1:15 p.m.

Forum for the History of Human Sciences Business Meeting and Distinguished Lecture – Gold (3rd Floor)

A Conversation with Fred Kronz of the National Science Foundation – Humphrey (3rd Floor)

Copernicus Crosses the K-12/University Divide: How Four Distinguished Historians of Science Helped Create a National History Day Web Site – George Bush (3rd Floor)

Finance Committee Meeting – Sans Souci (2nd Floor)

Graduate Program Chairs Meeting – Carnegie Boardroom (4th Floor)

Forum for the History of Science in Asia Business Meeting – Shucker's (1st Floor)

12:00 p.m.-3:00 p.m.

Committee on Publications Meeting – Willey (4th Floor)

1:30 p.m.-5:00 p.m.

Poster Session – Gold Assembly (3rd Floor)

1:30 p.m.-3:30 p.m.

All at Sea? Oceanography and Geopolitics in the Twentieth Century – Humphrey (3rd Floor)
Emerging Methodologies in the Scholarship in History of Recent Science: Lessons from Food History – Gold (3rd Floor)
How Physicists Learned to Love Abstraction, From Helmholtz and Poincaré to Robb, Planck, and Einstein – George Bush (3rd Floor)
Knowing Society – Severance (4th Floor)
Mail Order Science – Halle (4th Floor)
Natural History of the Heavens: Classification, Development and Structure in Nineteenth Century British Astronomy – Case (4th Floor)
Nuclear Worlds: Closed and Open – Van Aken (4th Floor)
Presentation and Representation – Garfield (4th Floor)
The Politics of Science in Federal Research – Blossom (4th Floor)
Trying Experiences: Empirical Claims, Practical Experiments, and the Authentication of Knowledge in Modern China – Holden (4th Floor)

2:00p.m. – 3:30 p.m.

Controlling Oceans... Or Not – Salon D (Marriott Key Center)

3:30p.m. – 4:00p.m.

Coffee Break – Whitehall and Gold Assembly (3rd Floor)

4:00p.m. – 6:00p.m.

Contesting Objectivity from Within in Mid-Twentieth-Century America – Gold (3rd Floor)
Federal Measures: Standardization of the Body throughout the 20th Century – Garfield (4th Floor)
Feeding the World – Case (4th Floor)
Limits of Reason from al-Ghazali to Descartes – Humphrey (3rd Floor)
Pragmatism and the History of Science: James, Dewey, and Mead – Halle (4th Floor)
Public Places and Pictured Spaces: Putting Science on Display – George Bush (3rd Floor)
Scientific Laws, Legal Science – Van Aken (4th Floor)
Stabilizing Experiment – Holden (4th Floor)
Theories of Forecasting – Severance (4th Floor)
Towards an Historical Ecology of Research Environments – Blossom (4th Floor)

5:00 – 6:00 p.m.

Committee on Research and the Profession Meeting – Willey (4th Floor)

6:10 – 6:30 p.m.

Earth and Environment Forum Meeting – Superior (1st Floor)

6:30p.m. – 7:30p.m.

Cash Bar Reception – Gold Assembly (3rd Floor)

7:30p.m. – 10:00p.m.

Society Dinner – Gold (3rd Floor)

Sunday, 6 November

9:00a.m. – 10:00a.m.

HSS Business Meeting Shucker's (1st Floor) (Breakfast will be served)

10:00a.m. – 12:00p.m.

Bodies, Colonies, and Stem Cells – Van Aken (4th Floor)

Capturing Regulation – George Bush (3rd Floor)

Establishing Networks of Nature's Experts: Environmental Science and State Power –
Humphrey (3rd Floor)

Late 20th Century Scientific Publics – Severance (4th Floor)

Revisiting Iconography: The Persistence and Circulation of Scientific Illustrations – Halle (4th
Floor)

Science and Spiritualism – Case (4th Floor)

Scientific Intermediaries, 1500-1900 – Garfield (4th Floor)

Traveling and Mapping – Blossom (4th Floor)

HSS PROGRAM

Cleveland, OH 2011

All sessions, unless otherwise indicated, will be held at the Renaissance Hotel in Cleveland, the HSS conference hotel. SHOT's sessions will be in the Marriott Key Center and 4S will meet in the Crowne Plaza. Both hotels are a short walk from the Renaissance. Shuttle buses will run between the meeting hotels 8:15 a.m. – 6:15 p.m. (Fri. & Sat.)

*indicates session organizer

Registration Desk Gold Assembly (3rd Floor)

Thursday, 3:30 PM – 8:00 PM
Friday, 8:00 AM – 6:00 PM
Saturday, 8:00 AM – 6:00 PM
Sunday, 9:00 AM – 12:00 PM

Book Exhibit Whitehall (3rd Floor)

Friday, 9:00 AM – 6:30 PM
Saturday, 9:00 AM – 6:30 PM
Sunday, 9:00 AM – 12:00 PM

THURSDAY, November 3, 2011

1:00 – 5:00 PM

HSS Council Meeting

George Bush (3rd Floor)

3:00 – 5:00 PM

Planning Session for the HSS Women's Caucus

Ambassador (2nd Floor)

1:00 – 3:00 PM

HSS Women's Caucus Roundtable Workshop on Gender and STEM

Ambassador (2nd Floor)

Co-Sponsored by the Science, Technology and Society Program at Virginia Commonwealth University

Speakers include:

- Andrea Rusnock, University of Rhode Island
- Sarah Richardson, Harvard University
- Jane Lehr, California Polytechnic State University
- Amy Bix, Iowa State University
- Banu Subramaniam, University of Massachusetts, Amherst
- Georgina Montgomery, Michigan State University

6:00 – 7:00 PM

Joint Plenary Session with SHOT and 4S

(The plenary will be held in the Grand Ballroom of the SHOT hotel, the Marriott Key Center, approximately a 5-minute walk from the HSS hotel)

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

- Yuko Fujigaki, University of Tokyo, chair and commentator
- Spencer Weart, American Institute of Physics, representing HSS
- Gabrielle Hecht, University of Michigan, representing SHOT
- Hugh Gusterson, George Mason University, representing 4S

7:00 – 10:00 PM

Joint reception with SHOT and 4S: Great Lakes Science Center

The Great Lakes Science Center is a brisk 15 minute walk from the HSS hotel and a 10 minute walk from the SHOT hotel. Buses will run between the meeting hotels and the Great Lakes Science Center from 6:45 pm to 10:15 pm. Look for GLSC in the bus window.

Hors d'oeuvres and cash bar. Please note that this is a ticketed event. **You must bring your name badge.**

Newcomer and Mentorship Reception (sponsored by the Graduate and Early Career Caucus)

Reinberger Auditorium (Great Lakes Science Center, Lower Level)

Reception attendees are encouraged to walk to and from the Great Lakes Science Center (GLSC). It takes roughly 15-20 minutes, and there will be volunteers along the route to direct you as needed. Maps will be available at the registration desk. Alternative walking routes are not recommended, as they may not be well-lighted or heavily-trafficked. Buses will be circulating between the GLSC and the meeting hotels between 6:45 and 10:15 p.m. Please bring your name tag but don't put it on until you arrive at the GLSC. To walk to the Great Lakes Science Center:

From the HSS hotel, walk east on Superior (to your right with your back to the hotel) to East Ninth Street (5 blocks). If you go past West Third Street, you're going the wrong way – turn around. Then walk north (turn left) on East Ninth about half a mile, over the Cleveland Shoreway Highway. Turn left at Erieside Ave., just in front of the Rock & Roll Hall of Fame. The GLSC is the next building on your right. The total distance is about one mile (1.6 kilometers).

From the SHOT and 4S hotels take Frankfort/Rockwell Street, or St. Clair, to East Ninth (3 blocks). Walk north (turn left) on East Ninth and go over the Cleveland Shoreway Highway. Turn left at Erieside Ave, just in front of the Rock & Roll Hall of Fame. The GLSC is the next building on your right. The total distance is about ¾ mile (a little over one kilometer)



FRIDAY, November 4, 2011

7:30 – 8:45 AM

Women's Caucus Breakfast and Business Meeting

Superior (1st Floor)

All are welcome.

Committee on Honors and Prizes Meeting

Sans Souci (2nd Floor)

8:30 – 10:00 AM

Beyond the Science-Technology Relationship

Part of SHOT Program, Co-Sponsored by HSS

Salon D (Marriott Key Center)

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

1. The Natural History of Industry: Revisiting the Question of Chemical 'Science' and Industry during the Second Half of the Long Eighteenth Century, Lissa Roberts, University of Twente
2. The Origins of Pure and Applied Science in Gilded Age America, Paul Lucier, Brown University
3. German Roots of the Science-Technology Debate, *Eric Schatzberg, University of Wisconsin, Madison

9:00 – 11:45 AM (Break 10:00 – 10:15)

Coffee Break in Whitehall and Gold Assembly (3rd Floor)

Defending Science Against Standardization

Severance (4th Floor)

Chair: John Tresch, University of Pennsylvania

1. Beyond Model Organisms: Bringing Biodiversity in the Test Tube, Bruno J. Strasser, University of Geneva
2. In Pursuit of Irregularity: Sparks and Standards in Victorian Physics, Chitra Ramalingam, University of Cambridge

3. Standards Bound to Disappoint: A Rational Chemical Nomenclature Defeated, *Evan Hepler-Smith, Princeton University
4. Cases and Statistics in the Nineteenth-Century Asylum, Theodore Porter, University of California, Los Angeles

Putting the Human into Human Genetics

Gold (3rd Floor)

Chair: Alexandra Stern, University of Michigan

1. Heredity Clinics: Hybrid Institutes of Human Genetics, *Nathaniel Comfort, Johns Hopkins University
2. Genetic Screening and Prospective Studies in the Early History of Medical Genetics: Practices and Controversies, Soraya de Chadarevian, University of California, Los Angeles
3. Before the Gene: LeRoy Matthews and the Cleveland Comprehensive Treatment Program, 1957-1961, Susan Lindee, University of Pennsylvania
4. Between the Clinic and the Couch: Genetic Counseling and Human Genetics, Alexandra Stern, University of Michigan
5. How PKU Became a Genetic Disease, Diane Paul, University of Massachusetts at Boston

New Views of the Antikythera Mechanism: A Geared Astronomical Computing Machine from the Second Century BCE

Humphrey (3rd Floor)

Chair: James Voelkel, Othmer Library of Chemical History

1. Albert Rehm and the Antikythera Mechanism, Alexander Jones, New York University
2. Ancient Greek Luni-Solar Calendars, John D. Morgan, University of Delaware
3. A Clockwork Bronze: The Calendar and 'Olympiad Dial' on the Antikythera Mechanism, Paul A. Iversen, Case Western Reserve University
4. The Planetary Extension for the Antikythera Mechanism: Statistics, Analysis and Reconstruction, Niels Bos, Kapteyn Astronomical Institute
5. Greek or Babylonian Solar Theory on the Antikythera Mechanism? *James Evans, University of Puget Sound

The Heidelberger Kreis of Scientists at Mid-Century: Teaching, Research, and International Fame

George Bush (3rd Floor)

Chair: Peter Ramberg, Truman State University

Commentator: Kathryn Olesko, Georgetown University

1. Helmholtz and Heidelberg's Fame, *David Cahan, University of Nebraska, Lincoln
2. Gustav Kirchhoff in 'New Soil': Heidelberg and the Evolution of 19th-Century Physics, Kalil Oldham, Horace Mann School
3. Shaping a Local Style: Bunsen's Teaching in the Heidelberg Context, Christine Nawa, University of Regensburg
4. From Experimental Physical Chemistry to the Molecular World, *Alan Rocke, Case Western Reserve University

Linking the Past and the Present: A Discussion of Collaboration Between Historians and Practitioners in the Classroom, the Field and the Laboratory (Committee on Education sponsored roundtable)

Van Aken (4th Floor)

Chair: *Piers J. Hale, University of Oklahoma

1. Using History to Teach Science: A Career Retrospective, Garland Allen, Washington University, St. Louis
2. Collaborative Teaching in the Classroom and in the Field: Teaching Evolution and Its History from the Galapagos to the Rainforest, *Piers J. Hale, University of Oklahoma
3. Teaching History and Science and the History of Science in the Field and the Lab, Mark E. Borrello, University of Minnesota
4. Teaching Science Through Its History, and History Through Practice, Jamie Elwick, York University
5. Foundational Literature in STEM Curricula, David Sepkoski, University of North Carolina, Wilmington

The 'State' of Science and Religion: Ingenuity and Institution in the Age of Galileo and Kepler

Halle (4th Floor)

Chair: Sheila Rabin, Saint Peter's College

1. Kepler's Dialogue on Calendar Reform: Religion, Politics, and the Role of the Mathematician, Aviva Rothman, Carthage College
2. Kepler and the Cometary Spirit of 1607: Religion and Science in Early Modern Society, *Patrick Boner, Johns Hopkins University
3. Two Conceptions of Geometry in Kepler, Jorge M. Escobar, University of Notre Dame
4. The Prelude to the Galileo Affair, with an Eye on Campanella, Michael H. Shank, University of Wisconsin, Madison

Aesthetics and Politics: Towards Building Relationships Between Media Studies and History of Science

Case (4th Floor)

Chair and Commentator: Timothy Lenoir, Duke University

1. Perceptual Machines: Cybernetics, Design, and Bio-politics circa 1959, *Orit Halpern, Harvard University
2. Gaming Science, Colin Milburn, University of California, Davis
3. Towards a Definition of Pleasure in Practices of Looking, *Sharrona Pearl, University of Pennsylvania
4. Imagined Networks, Wendy Hui Kyong Chun, Brown University

Locating Emotions in the Body: Transnational Perspectives on the Treatment of Emotional Disorders in East Asian Medicine (Session sponsored by FHSAsia, the Forum for the History of Science in Asia)

Garfield (4th Floor)

Chair: Volker Scheid, University of Westminster

1. Cosmological, Fragile, and Disembodied: Towards an Historical Epistemology of Chinese Medicine in Late Imperial and

- Contemporary China, Volker Scheid, University of Westminster
2. All Diseases Arise from the Liver: An Historical Epistemology of the Treatment of Emotional Disorders in Kampo Medicine, Keiko Daidoji, University of Westminster
 3. The Excitations and Suppressions of the Times: Locating Emotional Disorders in the Liver in Modern Chinese Medicine, *Eric Karchmer, University of Westminster
 4. Fire-illness: Globalized Psychiatry, Nationalized History, and the Korean Effort to Make the Local Visible, Soyoung Suh, Dartmouth College

Costs and Benefits: Life Scientists and the Assessment of Wartime Technologies, from 1945 to the Vietnam War

Blossom (4th Floor)

Chair and Commentator: Karen Rader, Virginia Commonwealth University

1. Environmental Consciousness in the Cold War: Radioecologists, Nuclear Technology, and the Atomic Age, *Rachel Rothschild, Yale University
2. Quickening Nature's Pulse: Mutation Plant Breeding at the International Atomic Energy Agency, Jacob Darwin Hamblin, Oregon State University
3. The Atomic Farmer in his Gamma Garden: Agricultural Research at the Brookhaven National Laboratory, 1945-1955, Helen Curry, Yale University
4. The Area Should Be Treated as a Laboratory: Scientists, Controversy, and the Vietnam War, Sarah Bridger, California Polytechnic State University

Solid State Science in the Twentieth Century: Major Trends through a New Lens

Holden (4th Floor)

Chair and Commentator: Catherine Westfall, Michigan State University

1. Rethinking the 'Applications' of Quantum Mechanics, Christian Joas, Max-Planck-Institut für Wissenschaftsgeschichte and Jeremiah James, Fritz-Haber-Institut der Max-Planck-Gesellschaft

2. Disputed Domains: Controversies over Ferromagnetism 1930-1952, Charles Midwinter, University of Minnesota
3. Fundamental Disputations: How Philosophical Debates Structured Solid State Physics, *Joseph D. Martin, University of Minnesota
4. Beyond Quantum Electronics: Nicolaas Bloembergen, Directed-Energy Weapons, and the Origins of Nonlinear Optics, Benjamin Wilson, Massachusetts Institute of Technology

10:30 AM – 12:30 PM

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

Part of SHOT Program, Co-Sponsored by HSS

Salon D (Marriott Key Center)

Organizers/Chairs: Suzanne Moon, University of Oklahoma, Carla Nappi, University of British Columbia

1. Only Connect: Comparative, National, and Global History as Frameworks for the History of Science and Technology in Asia, Francesca Bray, University of Edinburgh
2. Dangerous, Disruptive, or Irrelevant?: History (of Technology) as an Acquired Taste in Asia, Greg Clancey, National University of Singapore
3. Scholars, Citizens, and a Critical Perspective on Science and Technology in East Asia, Fati Fan, SUNY-Binghamton
4. Cultures of Fear: Historicizing the Social in Order to Save It from the Nation, Projit Mukarji, University of Pennsylvania

12:00 – 1:15 PM

Forum for the History of Science in America Business Meeting and Distinguished Scientist Lecture

Gold (3rd Floor)

Cynthia Beall, Distinguished University Professor, Case-Western Reserve University (Dr. Beall is a physical anthropologist whose research focuses on human adaptation to high-

altitude hypoxia, particularly the different patterns of adaptation exhibited by Andean, Tibetan and East African highlanders. Her current research deals with the genetics of adaptive traits and evidence for natural selection, with the role of nitric oxide in oxygen delivery at high altitude and with the human ecology of high-altitude Tibetan nomads.

<http://www.case.edu/artsci/anth/Beall.html>.

Author's Workshop: The Why(s) of Publishing (Sponsored by the Graduate and Early Career Caucus)

George Bush (3rd Floor)

A discussion with scholars and publications professionals on why junior scholars should publish, and how their decisions should be informed by scholarly and career goals.

Speakers include:

- Audra Wolfe, Principal of The Outside Reader (see www.theoutsidereader.com)
- Karen Darling, University of Chicago Press
- Marguerite Avery, MIT Press
- David Kaiser, MIT

Forum for the History of the Mathematical Sciences Luncheon

Stouffer Boardroom (4th Floor)

Committee on Meetings and Programs

Sans Souci (2nd Floor)

1:30 – 3:30 PM

Classifying People

Garfield (4th Floor)

Chair: Robin Wolfe Scheffler, Yale University

1. Japanese Internment and the Science of Governing Dependent Peoples: Social Context and Scientific Truth, Karin Roseblatt, University of Maryland and Leandro Benmergui, University of Maryland
2. The Monkey in the Panopticon: David Ferrier's Utilitarian Neurology, Cathy Gere, University of California, San Diego
3. The Psychologist and the Bombardier: The Army Air Force Classification Program in

WWII, Marcia Holmes, University of Chicago

4. The First German Genetics Institute 1914-1930: A 'Damenstift' (Foundation for Noble Nuns), Ida Stamhuis, Vrije Universiteit, Amsterdam

Making Mathematics: Models, Machines, and Materialities (Session sponsored by the Forum for the History of the Mathematical Sciences)

Case (4th Floor)

Chair: Moon Duchin, Tufts University

1. The Geometer in the Machine: Diagrammatic Heuristics and Early Automated Theorem Proving, Stephanie Dick, Harvard University
2. Four Versions of The Sphere Eversion: Modeling Topological Theories in Multiple Media, Alma Steingart, Massachusetts Institute of Technology
3. Drawing Lines and Circles: The Conflicting Roles of Exactitude and Approximation in Mathematics, David Lindsay Roberts, Prince George's Community College
4. Mirror of the Mind: Chalkboards and the Practice of Mathematics, *Christopher Phillips, Harvard University

Paleontology from Osborn to Gould

Halle (4th Floor)

Chair: John Huss, University of Akron

1. Education, Evolution and Race Progress: Implications of Organic Selection, Jacy L. Young, York University
2. Laws of Biology in Orthogenetic Theory, Mark A. Ulett, Arizona State University
3. Gaps in the Record: Henry Fairfield Osborn, George Gaylord Simpson, Ernst Mayr and the History of Evolutionary Paleontology, Miranda Paton, Yale University
4. Popularizing Evolution: Stephen Jay Gould, Professional Values and Neo-Darwinism, 1980-2002, Myrna Perez, Harvard University

Profit and the Public Weal: Science, Luxury and Commercial Society, 1700-1850

Severance (4th Floor)

Chair and Commentator: Lissa Roberts, University of Twente

1. Wagering on Silver: Science and the General Welfare in the German Mines, Andre Wakefield, Pitzer College
2. Public Good and Profit Margins: Lighthouses after the Fresnel Lens, Theresa Levitt, University of Mississippi
3. In the Clover: Agricultural Productivity, Profit, and the Science of Running Farms in German-Speaking Europe, *Denise Phillips, University of Tennessee, Knoxville

Science and Commodities, Regions and Worlds: Revisiting the Historiography of Colonial Science

Holden (4th Floor)

Chair: Seymour Mauskopf, Duke University
 Commentator: Sucheta Mazumdar, Duke University (read by Seymour Mauskopf)

1. Building the World's Supply of Quinine: Imperialism, Global Commodities, and Transnational Science, Andrew Goss, University of New Orleans
2. Prickly Pears and Pagodas: The East India Company's Failure to Establish a Cochineal Industry in Early Colonial India, James Frey, University of Wisconsin, Oshkosh
3. 'A Fugitive among Industries': The Knowledge Dimension of Bengal Plantations, *Prakash Kumar, Colorado State University

Science and Regulation in a Contaminated World: Part I

Co-Sponsored by SHOT

Gold (3rd Floor)

Chair and Commentator: Soraya Boudia, University of Strasbourg

1. Unruly Technologies and Fractured Oversight: Developing a 'Science' Based Approach to Chemical Regulation in a Risk Society, Jody Roberts, Chemical Heritage Foundation
2. The Political Life of Mutagens: A History of the Ames Test, *Angela N. H. Creager, Princeton University

3. The Crisis of Regulatory Scientists in Mutagenesis Testing (West Germany, 1970s), Alexander Schwerin, Technische Universität Braunschweig

Scientific Periodicals in Great Britain, 1785-1914

George Bush (3rd Floor)

Chair: *Melinda Baldwin, York University

1. 'To Monopolize the Beauties of All the Modern Scientific Publications': Diffusing Knowledge with Nicholson's Journal, 1797-1820, Iain Watts, Princeton University
2. Egerton Smith and the Dissemination of Useful Knowledge in Early Victorian Liverpool, Cameron Murray, York University
3. Using Pictures in the Late Nineteenth Century Scientific Periodical Press, Geoff Belknap, University of Cambridge
4. 'Keeping in the Race': Ernest Rutherford, Scientific Internationalism, and Nature, 1895-1914, *Melinda Baldwin, York University

The Centennial of Mme Curie's Nobel Prize in Chemistry (2011, 1911) and its Social Significance

Co-Sponsored by SHOT

Van Aken (4th Floor)

Chair: Pnina G. Abir-Am, WSRC-Brandeis University

1. Mme Curie & Albert Einstein in 1911 and 2011: A Friendship in History & Memory, John Stachel, Boston University
2. Globalizing the Public Memory of Mme Curie: Changing Commemorative Practices in the 20th Century, *Pnina G. Abir-Am, WSRC-Brandeis University
3. From Discovery to Production: The Curies and Artificial Radioactivity, Robert W. Seidel, University of Minnesota
4. A New Science and its Social Significance, Marjorie C. Malley

The Ethical and the Epistemological in Human Subject Research

Humphrey (3rd Floor)

Chair: *Michael Pettit, York University

1. Things That Channel: Subject Lessons from Religion, Spirituality and Psychology, Betty M. Bayer, Hobart and William Smith Colleges
2. What does Money Mean? Monetary Exchanges in Postwar Research with Human Subjects, Jill Morawski, Wesleyan University and Laura Stark, Wesleyan University
3. 'That graham cracker stuff': Human Subjects Research on Hallucinogens in the US Public Health Service, Nancy D. Campbell, Rensselaer Polytechnic Institute
4. The Scientist as Clinical Subject: Historicizing Anne Roe's Studies of Creativity, *Michael Pettit, York University

The Long 1960s: Between Science and Counterculture

Blossom (4th Floor)

Chair: Marilyn Gaull, Boston University

1. A Search for Perspective: Project OZMA and the Drake Equation, Sierra Smith, James Madison University
2. Time, Physics, and Philosophy: The Discovery of CP Violation, Lisa Crystal, Harvard University
3. Popular Cybernetics and the Human Sciences in the Counterculture, Peter Sachs Collopy, University of Pennsylvania
4. The New Alchemy Institute: A Countercultural Alternative to Big Science, 1969-1980, Henry Trim, University of British Columbia

3:30 – 4:00 PM

Coffee Break

Whitehall and Gold Assembly (3rd Floor)

4:00 – 6:00 PM

Consuming Bodies: Statistics and the Human Sciences in the Nineteenth and Early Twentieth Centuries

George Bush (3rd Floor)

Chair: Elizabeth Cavicchi, Harvard University/MIT

Commentator: Deborah Levine, Providence College

1. Food on Fire: Quantification, Calorimetry and the Epistemology of Food, Jessica Mudry, Concordia University, Montréal
2. The Statistical Bodies of Early Nutrition Science, *Elizabeth Neswald, Brock University
3. The Agronomic and the Anthropological: Two Modes of Representing People in Nineteenth-Century France, Dana Simmons, University of California, Riverside

Earthbound: Geology and Archaeology

Halle (4th Floor)

Chair: Erik Peterson, University of Wisconsin, Madison

1. Ferdinand von Richthofen and the Introduction of Geology in China, 1868-1911, Shellen Wu, University of Tennessee, Knoxville
2. Techniques of Excavation, Seriation and Stratigraphy in the Establishment of Woodland Period and Late Prehistoric Period Chronologies in Late Nineteenth and Early Twentieth Century American Archaeology, Conor Burns, York University
3. Becoming Indiana Jones: Archaeological Training in the Classroom, 1900-1935, Kathleen Sheppard, Missouri University of Science and Technology

Early Astronomy and Astrology

Humphrey (3rd Floor)

Chair: Richard Kremer, Dartmouth College

1. 'A Difficult Figure': Ptolemy's Menelaus Theorem in the Middle Ages, Henry Zepeda, University of Oklahoma
2. Kepler's Novel Method of Calculating the Eccentricity of the Sun, Yaakov Zik, University of Haifa
3. Mathematical Astrology and other Failed Essays of the Scientific Revolution, Rachel Gostenhofer, Brown University
4. Past Portents Predict: Comets, Astronomy, and Historical Astrology, Adam Mosley, Swansea University

Moral Science

Severance (4th Floor)

Chair: *Matthew Shindell, University of California, San Diego
 Commentator: Andrew Hamilton, Arizona State University

1. The Origin of Life in the Cold War: Rehabilitating the Moral Complexity of the Miller-Urey Experiment, *Matthew Shindell, University of California, San Diego
2. The Moral Benefits of a Science Education: Huxley, Maxwell, and the Working Men's College, Matthew Stanley, New York University
3. Dilemmas Engaged or Deferred in Twentieth-Century Scientific Ethics and Activism, Nasser Zakariya, Harvard University

Science and Regulation in a Contaminated World. Part II.

Co-Sponsored by SHOT

Gold (3rd Floor)

Chair and Commentator: Nathalie Jas, University of Paris-Sud/INRA
 Organizer: Angela N. H. Creager, Princeton University

1. Toxic Bodies: Endocrine Disruptors, Uncertainty, and Precaution, Nancy Langston, University of Wisconsin, Madison
2. On the Limits of Limit Values, Carsten Reinhardt, Bielefeld University
3. Toward an Anatomy of Ignorance in Environmental Risk Assessment, Scott Frickel, Washington State University

Technoscience Exchanges Among Latin America, Europe, and the United States in the 'Short Twentieth Century': Comparative Studies of Knowledge and Practice Exchanges

Holden (4th Floor)

Chair: Alexis De Greiff, Universidad Nacional de Colombia
 Commentator: Wolfgang Schaeffner, Humboldt-Universität
 Organizer: Olival Freire, Universidade Federal da Bahia, Brazil

1. Diplomacy and Science on the Eve of WWII: Arthur Compton's 1941 Trip to Brazil, Indianara Silva, Universidade Federal da Bahia, Brazil
2. The Technical and Scientific Activities of the Office of Inter-American Affairs in International Relations of Latin American Technoscience (1941-1945), Alexis De Greiff, Universidad Nacional de Colombia
3. The Americanization of Physics in Mexico (1935-1955), Gisela Mateos, Universidad Nacional Autónoma de México

The Global Sciences of Language

Case (4th Floor)

Chair: Kevin Chang, Academia Sinica

1. Constructing Internationalism with Words: Louis Couturat's (1868-1914) and Wilhelm Ostwald's (1853-1932) Pursuit of a Global Language, Fabian de Kloe, Maastricht University
2. 'Voices of the People': The Royal Prussian Phonographic Commission and Germany's Prisoners of War, 1915-1918, Judy Kaplan, University of Wisconsin, Madison
3. Clandestine Revival of the Prague Linguistic Circle in Prague, 1945-1968, Helena Durnova, Masaryk University, Czech Republic
4. Dialects, Speech, and Information: Chao Yuen Ren's Route to Cybernetics, Chen-Pang Yeang, University of Toronto

Treatment, Sex, and Discovery

Blossom (4th Floor)

Chair: Luis Campos, Drew University

1. Protection Against Nightmares: Talismans and Ritual Exorcist Techniques in Late Ming Encyclopedia Forest of Dreams, Brigid E. Vance, Princeton University
2. 'Can There Be a Science of Bibliotherapy?': Reading as Treatment in United States Hospitals, 1935-1940, Monique Dufour, Virginia Polytechnic Institute
3. The Science and Transformation of Sex in Republican China, Howard H. Chiang, Princeton University

- 4. The Parallel Lives of Two Viruses: Their Discovery and Reception, Neeraja Sankaran, Yonsei University, South Korea

Victorian Networks

Van Aken (4th Floor)

Chair: *Laura J. Snyder, St. John's University

- 1. The Philosophical Breakfast Club and the Invention of 'The Scientist', *Laura J. Snyder, St. John's University
- 2. The Astronomical Club, Joan Richards, Brown University
- 3. Seashore Natural History Networks of the 1850s: A Literary Perspective, Amy King, St. John's University
- 4. Before the X-Club: The Queenswood-Marburg Network, Bernard Lightman, York University

Visual Evidence

Garfield (4th Floor)

Chair: Betty Smocovitis, University of Florida

- 1. The Imperial Visual Archive: Science and Visual Evidence in the Early Modern Hispanic World, *Daniela Bleichmar, University of Southern California
- 2. Pictorial Statistics, Josh Ellenbogen, University of Pittsburgh
- 3. All Movements on Film! Konrad Lorenz and the Film Encyclopedia, Tania Munz, Northwestern University
- 4. Susana Soare's Diagnostic Objects, Matthew Hunter, California Institute of Technology

6:30 – 7:15 PM

HSS Awards Ceremony

Gold (3rd Floor) See page 42.

7:30 – 8:30 PM

HSS Distinguished Lecture

Gold (3rd Floor)

Biography as Contextual History: Hans Bethé



Silvan S. Schweber, Harvard University

Introduction by Michael D. Gordin, Princeton University

8:45 – 10:00 PM

Isis Editorial Board Dinner

Stouffer Boardroom (4th Floor)

9:00 – 11:00 PM

Graduate and Early Career Caucus Mixer
Wonder Bar, 2044 E. 4th Street

Graduate students and early careerists are encouraged to attend. To walk from the hotel, head southeast on W. Roadway towards Ontario St. Continue onto Euclid Ave., then turn right on E. 4th Street.

SATURDAY, November 5, 2011

7:30 – 8:45 AM

Osiris editorial board meeting

Szell (4th Floor)

Committee on Education Meeting

Sans Souci (2nd Floor)

History of Chemistry Interest Group Breakfast

Shucker's (1st Floor)

9:00 – 11:45 AM (Break 10:00 – 10:15)

Coffee Break in Whitehall and Gold Assembly (3rd Floor)

Divided Allegiances: Conflict and Compromise in the Republic of Letters from the Thirty Years' War to the French Revolution

Humphrey (3rd Floor)

Chair and Commentator: Robert Hatch, University of Florida

1. When Savants and the State Collide: Revisiting Dolomieu's Imprisonment and the 'Triumph' of Cosmopolitan Science During the French Revolution and the Napoleonic Wars, Elise Lipkowitz, University of Michigan
2. The Toughest Diagnosis: Debating the Supernatural in the Republic of Letters, 1650-1750, Brad Bouley, Stanford University
3. Collaborating with the Enemy: Conflicting Agendas in the Republic of Letters, Carol Pal, Bennington College
4. Cosmopolitanism, Patriotism, and the Limits of Religious Toleration in the Italo-Swiss Republic of Letters, *Lydia Barnett, University of Michigan

Brave New World: The Culture of Chymistry in Early Modern England and America

George Bush (3rd Floor)

Chair: William Newman, Indiana University

1. Myth, Magic, and Minerals: John Dee and the New World, Tricia R. Peone, University of New Hampshire
2. 'The Special Gift of the Most High': The Significance of Iatrochemistry in Early New England Medical Culture, As Seen through the Practice of John Winthrop, Jr., Walter W. Woodward, University of Connecticut
3. The Chymical Cleric: Science, Theology and the Professional Life of John Allin in England and America (1623-1683), *Donna Bilak, Bard Graduate Center
4. The Transmutation of Alchemical Medicine in Early Modern England, Jennifer Rampling, University of Cambridge

Roundtable: Bringing Science to the Public: What Can the Science Studies Scholar Do? (Sponsored by the Graduate Early Career Caucus)

Severance (4th Floor)

Chairs: Nathan Crowe, University of Minnesota, Melinda Gormley, University of Notre Dame

Participants include:

- Marcia Bartusiak, Executive Director, Graduate Program in Science Writing, Massachusetts Institute of Technology
- Edward J. Larson, University Professor of History and Hugh and Hazel Darling Chair in Law, Pepperdine University
- Naomi Oreskes, Professor of History and Science Studies at the University of California, San Diego
- Mark A. Largent, Associate Professor, James Madison College of Public Affairs at Michigan State University, Director of the Science, Technology, Environment, and Public Policy Specialization
- Jane Maienschein, Regents' Professor, President's Professor, Parents Association Professor, and Director, Center for Biology and Society, Arizona State University

Migration of Scientists in Asia and the World

Halle (4th Floor)

Chair: Alan Beyerchen, Ohio State University

1. Scientists under MacArthur, Walter E. Grunden, Bowling Green State University

2. A British Physicist in Peking: William Band's Career in China, Danian Hu, CUNY
3. Reconstruction of Physics in Postwar Japan and US-Japan Scientific Exchange, Kenji Ito, The Graduate University for Advanced Studies (Sokendai), Japan
4. Containing Wartime Brains: Japan's Lack of a Brain Drain during the U.S. Occupation, 1945-52, *Takashi Nishiyama, SUNY Brockport
5. Making Transnational Science, Zuoyue Wang, California State Polytechnic University, Pomona

Doing Natural History

Gold (3rd Floor)

Chair and Commentator: Janet Browne, Harvard University

1. Natural History Theories, Elihu M. Gerson, Tremont Research Institute
2. Natural History at the Turn of the Century, Jenna Tonn, Harvard University
3. Recovering Natural History after World War I, Kristin Johnson, University of Puget Sound
4. Natural History in Transition, *Mary Sunderland, University of California, Berkeley

New Perspectives in the Modern History of Madness and Psychiatry

Case (4th Floor)

Chair and Commentator: *Greg Eghigian, Pennsylvania State University

1. The Material Culture of Asylums, Benoit Majerus, Université du Luxembourg
2. Whither Narcissism? Types and Traits in the History of the Personality Disorders, Elizabeth Lunbeck, Vanderbilt University
3. New Perspectives in the History of Forensic Psychiatry, Eric Engstrom, Humboldt-Universität
4. Psychiatry and the Visual Turn, Andreas Killen, CUNY

Robert S. Westman's *The Copernican Question* (2011): A Symposium

Van Aken (4th Floor)

Chair: *Carolyn Merchant, University of California, Berkeley

Commentator: Robert S. Westman, University of California, San Diego

1. Why Was Copernicus a Copernican?, *Peter Barker, University of Oklahoma
2. The Copernicans and Prognostication: Continuities with Antiquity, Francesca Rochberg, University of California, Berkeley
3. World Order and Celestial Novelties: Novae and Comets between 1572 and 1604 and the Transformation of Copernicanism by Digges, Bruno, Kepler and Galileo, Miguel A. Granada, University of Barcelona
4. The Settling of Copernicanism: The Burden of Proof and the World of the Future, Peter Dear, Cornell University

Sensing Tones: Hermann von Helmholtz at the Intersection of Sound, Music, and Science

Co-Sponsored by SHOT

Garfield (4th Floor)

Chair and Commentator: Myles Jackson, Polytechnic Institute of New York University

1. Hermann von Helmholtz and the Historicity of Musical Form, Alexandra E. Hui, Mississippi State University
2. Bel Canto Refracted: Laryngoscopy in Nineteenth-Century Vocal Practice, Benjamin Steege, SUNY-Stony Brook
3. Helmholtz's Music: A Geometry of Tones, *Julia Kursell, Max-Planck-Institut für Wissenschaftsgeschichte
4. Helmholtz and the Sirens: Sound, Color, and the Problem of Space, *Peter Pesic, St. John's College, Santa Fe

Toward a Nuanced Understanding of Colonialism and Nationalism: Contestations and Confluences in the Making of Science

Blossom (4th Floor)

Chair and Commentator: Abha Sur, Massachusetts Institute of Technology

1. Art and Science in Botanical Publications of the East India Company, Khyati Nagar, York University
2. 'Nation' and 'Mankind': Nationalism and Cosmopolitanism in 19th Century European National Museums, Jason Young, McGill University

3. Performing Science, Producing Nation: The Construction of Bhadrakok Physics in Early-20th Century Colonial India, *Somaditya Banerjee, University of British Columbia
4. Indian Science, the American Military-Industrial Complex, and the Creation of INSAT, Asif Siddiqi, Fordham University

Floating Labs: Mobile Scientific Spaces and the Reconfiguration of Practice

Holden (4th Floor)

Chair and Commentator: Helen Rozwadowski, University of Connecticut, Avery Point

1. Scientists Under Pressure: The Scientific Practices of a Cold War Underwater Laboratory, Nellwyn Thomas, University of Pennsylvania
2. Ship as Instrument: The R/V Alpha Helix and Human Biological Research, 1966-1977, Joanna Radin, University of Pennsylvania
3. The Tale of Bathybius: Of Sea, Ships, and Urschleim, *Emma Zuroski, Cornell University
4. The Oceanic Feeling in Human Biology: The Voyage of the Zaca, 1934-35, Warwick Anderson, University of Sydney

11:50 AM – 12:30 PM

Graduate and Early Career Caucus (GECC) Business Meeting

Severance (4th Floor)

(all graduate students and early careerists are welcome)

12:00 – 1:15 PM

Forum for the History of Human Sciences Business Meeting and Distinguished Lecture

Gold (3rd Floor)

Elizabeth Lunbeck, Vanderbilt University.
Psychoanalytic Perspectives on Power: Charisma, Fascination, and Narcissism.

A conversation with Fred Kronz of the National Science Foundation

Humphrey (3rd Floor)

Come hear Dr. Kronz discuss in an informal setting the recent changes at the NSF, including the new data-management plans.

Copernicus Crosses the K-12/University Divide: How Four Distinguished Historians of Science Helped Create a National History Day Web Site

George Bush (3rd Floor)

This workshop was organized by the Committee on Education and will include Kavya Ravichandran, the middle school student who built the site, which may be viewed at

<http://35433993.nhd.weebly.com/index.html>

Participants include:

- Kavya Ravichandran, Birchwood School, Cleveland, OH
- Connie Miller, Birchwood School, Cleveland, OH
- John Lynch, Arizona State University
- Robert Westman, University of California, San Diego
- Owen Gingerich, Harvard University

Finance Committee Meeting

Sans Souci (2nd Floor)

Department Chairs Meeting

Carnegie Boardroom (4th Floor)

Forum for the History of Science in Asia Business Meeting – Shucker's (1st Floor)

12:00 – 3:00 PM

Committee on Publications Meeting

Willey (4th Floor)

1:30 – 5:00 PM**Poster Session***Gold Assembly*

- Blue Sky Metropolis: The Aerospace Century in California, Matthew H. Hersch, University of Pennsylvania
- The Physics of Music in the Renaissance: An Historic-Epistemological Approach, Rafael Andrade Pereira and Oscar João Abdounur, Universidade da São Paulo
- Mathematics and the Engineering Community: The Social Value of Scientific Discourse in 19th-Century Chile, Jaime Parada
- Visualizing the Interdisciplinary Community of 19th-Century Evolutionists: An Application of Social Network Analysis in the History of Science, Matthis Krischel, Universität Ulm
- Custer and the Herbarium, Maura C. Flannery, St. John's University
- Discovery, Interpretation and Classification of Astronomical Objects: Pluto, Minor Planets and Exoplanets, Steven J. Dick (Chief Historian, NASA, retired)

1:30 – 3:30 PM**All at Sea? Oceanography and Geopolitics in the Twentieth Century***Humphrey (3rd Floor)*

Chair and Commentator: Sverker Sörlin, Royal Institute of Technology, Sweden

1. From the Arctic Seas to the Global Ocean: Soviet Oceanography from the Second IPY to the IGY, Julia Lajus, European University at St. Petersburg
2. Hans Pettersson and the Politics of Cold War Patronage, *Peder Roberts, Université de Strasbourg
3. Sword, Shield and Buoys: Exploring the History of the NATO Sub-Committee on Oceanographic Research, 1959-1973, Simone Turchetti, University of Manchester

Emerging Methodologies in the Scholarship in History of Recent Science: Lessons from Food History*Co-Sponsored by SHOT**Gold (3rd Floor)*

Chair: Helen Veit, Michigan State University
 Commentator: Gerard Fitzgerald, University of Virginia

1. GIS in Pursuit of Food History, Gabriella M. Petrick, New York University
2. Visualizing Users: The Power of Alternative Methods for Developing Historical Narratives, Christy Spackman, New York University
3. Why Do Australians Eat What They Do for Tea? Toward a History of Ethical Food Choices, *Rachel A. Ankeny, University of Adelaide

How Physicists Learned to Love Abstraction, From Helmholtz and Poincaré to Robb, Planck, and Einstein*George Bush (3rd Floor)*

Chair: Tilman Sauer, Universität Bern

1. Poincaré and the Extension of the Mathematical Tools of Celestial Mechanics, Tom Archibald, Simon Fraser University
2. Staying Tuned: Representations of Resonance Between Acoustic and Optics in the Late 19th Century, Marta Jordi, Max-Planck-Institut für Wissenschaftsgeschichte
3. Relativity in Cambridge Dynamics: The Sources of A. A. Robb's Optical Geometry of Motion, *Scott Walter, Université Nancy 2
4. A Bridge over Troubled Water: Max Planck's Use of Abstract Spaces, Massimiliano Badino, Max-Planck-Institut für Wissenschaftsgeschichte

Knowing Society*Severance (4th Floor)*

Chair: Dan Bouk, Colgate University

1. Early Modern Social Analysis: Nicolas de Nicolay on the Ottoman Empire, Chandra Mukerji, University of California, San Diego
2. Lamarckism and the Constitution of Sociology, Snait B. Gissis, Tel-Aviv University

3. Observation in the Social Field in Mid-20th Century America, Mary S. Morgan, London School of Economics and University of Amsterdam
4. Habitats of Organized Science: Louis Guttman and the Israel Institute of Applied Social Research, Tal Arbel, Harvard University

Mail Order Science

Halle (4th Floor)

Chair and Commentator: Eric Hintz, National Museum of American History

1. Experimenting with Adulthood: Children's Toy Laboratory Kits and Popular Science Learning, Sarah Scripps, University of South Carolina
2. 'Sharpen Your Pencil, Send In Your Order': Modern Amateur Telescope Making's Mail Order Base, Gary Cameron, Iowa State University
3. You Too Can See What Galileo Did!
*Allison Marsh, University of South Carolina

Natural History of the Heavens: Classification, Development and Structure in Nineteenth Century British Astronomy

Case (4th Floor)

Chair: David DeVorkin, Smithsonian Institution

Commentator: Marvin Bolt, Adler Planetarium

1. John Herschel and the Beginnings of Double Star Astronomy, Stephen Case, University of Notre Dame
2. Evolutionary Naturalism and the Study of the Nebulae, Robert W. Smith, University of Alberta
3. Resolving the Puzzle of the Construction of the Heavens: The Role of Celestial Spectroscopy, *Barbara J. Becker, University of California, Irvine (retired)

Nuclear Worlds: Closed and Open

Van Aken (4th Floor)

Chair: Harold Burstyn, Syracuse University

1. Nuclear Secrets in the Twilight Zone: The H-bomb 'Gag Order' of 1950, Alex Wellerstein, Harvard University

2. Why Nuclear History is a Technocratic Narrative, Linda M. Richards, Oregon State University
3. Radioactive Contamination at Hanford Works. A Portrait of a Nuclear Disaster as an Interplay between Science and the Public during the Cold War, Daniele Macuglia, University of Chicago
4. City Under the Ice: The Closed World of Camp Century, Kristian H. Nielsen, Aarhus Universitet, Denmark

Presentation and Representation

Garfield (4th Floor)

Chair: David Hecht, Bowdoin College

1. On Microscopic Hearing: Fairy Magic, Musical Science, and the Technologies of the Nineteenth-Century Orchestra, Francesca Brittan, Case Western Reserve University
2. Reconstructing Applied Science and the 'Representational Anecdote' in 1870s Britain, Robert Bud, The Science Museum, London
3. Halley Turns Republican: How the Portuguese Daily Press Perceived the Return of Halley's Comet in 1910, Ana Simões, University of Lisbon; Isabel Zilhão, University of Lisbon; Ana Carneiro, New University of Lisbon; Maria Paula Diogo, New University of Lisbon
4. 'These Men Are, Believe It or Not, Scientists': Science in British Newsreels and Regional Television During the 1950s and 1960s, Sally Horrocks, University of Leicester

The Politics of Science in Federal Research

Blossom (4th Floor)

Chair and Commentator: David Cantor, National Institutes of Health

1. Pragmatic and Multidisciplinary Research on the Prevention of Substance Abuse, Grischa Metlay, National Institutes of Health
2. Managing Public Anxiety: The Human Genome Project and the National Institutes of Health's Ethical, Legal, and Social Implications Program, Brian Casey, National Institutes of Health

3. Expanding Medical Horizons or Dancing With a Dream? Science and the Recent History of Alternative Medicine, Eric W. Boyle, National Institutes of Health

Trying Experiences: Empirical Claims, Practical Experiments, and the Authentication of Knowledge in Modern China

Holden (4th Floor)

Chair: Grace Shen, York University
Commentator: Deborah Coen, Barnard College, Columbia University

1. The Only Options?: 'Experience' and 'Theory' in Debates over Forensic Knowledge and Expertise in Early Twentieth-Century China, Daniel Asen, Columbia University
2. Authentication, 'Empirical' Practice (Shiyan), and Anxiety about Fake Things and False Words in 1930s' Chinese Technical Manuals, Eugenia Lean, Columbia University
3. Earthquake Monitoring and Weather Forecast in Communist China: Observation, Experience, and Expertise, Fa-ti Fan, Binghamton University

2:00 – 3:30 PM

Controlling Oceans... Or Not

*Part of SHOT Program, Co-Sponsored by HSS
Salon D, Marriott Key Center*

Chair & Commentator: James Spiller (SUNY Brockport)

1. Engineering the Ocean: The Birth of 'Ocean Engineering' in the 1960s, *Helen M. Rozwadowski, University of Connecticut, Avery Point
2. Technologies of Mobility in the Age of Rapid Transit: North Atlantic Right Whales vs. Oceanic Shipping, Gary Kroll, SUNY Plattsburgh
3. From Santa Barbara to Macondo: Uncontrolled Technology in Offshore Oil, Tyler Priest, University of Houston

3:30 – 4:00 PM

Coffee Break

Whitehall and Gold Assembly (3rd Floor)

4:00 – 6:00 PM

Contesting Objectivity from Within in Mid-Twentieth-Century America

Gold (3rd Floor)

Chair and Commentator: Thomas Stapleford, University of Notre Dame

1. Professionalism vs. Objectivity: Alternative Modes of Professionalization in Mid-Twentieth-Century America, Andrew Jewett, Harvard University
2. The Politics of Experiential Reality and the Piety of the Laboratory, Katherine Pandora, University of Oklahoma
3. The Fortunes of Critiquing Objectivity: Consensus and Objectivity amongst the Atomic Scientists, 1945-1955, *Patrick Slaney, University of British Columbia

Federal Measures: Standardization of the Body throughout the 20th Century

Garfield (4th Floor)

Chair and Commentator: Beth Linker, University of Pennsylvania

1. The Monitoring of Physical Well-Being in New Zealand before World War II, Kris Inwood, University of Guelph, Evan Roberts, University of Minnesota, Les Oxley, University of Canterbury at New Zealand
2. Puny and Pudgy Privates: Measuring Draftees in WWII, *Rachel Louise Moran, Pennsylvania State University
3. Stunted Growth: Setting Scientific Standards for Children's Height, Aimee Klask, University of California, San Francisco

Feeding the World

Case (4th Floor)

Chair: Fritz Davis, Florida State University

1. The Making of Place: Richard Bradley's Studies of Soil, Climate and Garden History, Yvonne Gaspar, University of Notre Dame
2. Sciences of Simulation and Detection: The Butterine Controversy and Federal Regulation in America, 1870-1910, Rachel Ponce, University of Chicago
3. The Second Living Room: The Science Behind the New Soviet Kitchen, 1959-1980, Jenny Leigh Smith, Georgia Institute of Technology

Limits of Reason from al-Ghazali to Descartes

Humphrey (3rd Floor)

Chair: Chris Haufe, Case Western Reserve University

1. Al-Ghazali's Reformation in Islamic Science: Redefining the Uses and Limits of Reason, John Cirilli, University of Notre Dame
2. Fabricius' Aristotelian Mechanization of Animal Progression, Peter Distelzweig, University of Pittsburgh
3. The Eye and the Telescope: Cartesian Distinct Vision and Teleological Explanation, Marcus P. Adams, University of Pittsburgh
4. Descartes as Hands-On Practitioner, Jenny Boulboulle, Maastricht University

Pragmatism and the History of Science: James, Dewey, and Mead

Halle (4th Floor)

Chair and Commentator: Francesca Bordogna, University of Notre Dame

1. The Wealth of Notions: The Evolutionary Epistemology of William James, *Henry M. Cowles, Princeton University
2. Dewey before James: Evolution and the Organic, 1875-1889, Trevor Pearce, University of Wisconsin, Madison
3. Reading What Was Spoken: Classroom Notes in our Understanding of George Herbert Mead, Daniel R. Huebner, University of Chicago

Public Places and Pictured Spaces: Putting Science on Display

George Bush (3rd Floor)

Chair: Andrew Butrica, Mercurians

1. To 'Better Conceive the Exact Shape of This Wonderful Animal': The Role of Pictures in Edward Tyson's Anatomical Descriptions, April Kiser, Canisius College
2. A Baroque Sensibility: Spectacle, Public Demonstration, and Ambiguity in Early Modern Science, *Mark A. Waddell, Michigan State University
3. Beyond the 'Book' of Nature: Putting Pictures in their Place in Systems of Visual Displays of Anatomy, Carin Berkowitz, Cornell University
4. Mapping Madagascar: Maps as Visual Interpretations, Thomas Anderson, University of Pittsburgh

Scientific Laws, Legal Science

Van Aken (4th Floor)

Chair: Kimberly Hamlin, Miami University

1. From Invention to Experiment. The Privilege System as a Model for Scientific Knowledge Production, Marius Buning, European University Institute
2. Nebraska, 1924: America's First Anti-Evolution Trial, Adam Shapiro, University of Wisconsin
3. Darwin on the Cutting Room Floor: Evolution, Film Censorship, and the Hays Code, David A. Kirby, University of Manchester
4. 'Black Dandelion': Science, Court, and the First Environmental Disease in Korea, Buhm Soon Park, KAIST, Daejeon, South Korea

Stabilizing Experiment

Holden (4th Floor)

Chair: Yoshiyuki Kikuchi, Harvard University

1. Glassware Revolution: Chemical Glassblowing and the Material Culture of 19th-Century Chemistry, Catherine Jackson, University College, London
2. Developing Consensus on Relativity in the USA: The Controversy about Miller's Ether-Drift Experiments, Roberto Lalli, Massachusetts Institute of Technology

3. Under Glass: Physics, Biology, and the Plants in the Phytotron, David P. D. Munns, CUNY
4. The Colors of Proteins, Nancy Anderson, University at Buffalo

Theories of Forecasting

Severance (4th Floor)

Chair and Commentator: James Fleming, Colby College

1. God and Rainfall in Prices: Theories of Periodicity in Weather and Market Forecasting in the Late-Nineteenth and Early-Twentieth-Century United States, *Jamie Pietruska, Rutgers University
2. Underwriting the Atmosphere: Meteorology, Economics, and the Development of the Federal Crop Insurance Corporation, James Bergman, Harvard University
3. Why Routine Forecasting Practices Matter, Roger Turner, Rochester Institute of Technology

Towards an Historical Ecology of Research Environments

Blossom (4th Floor)

Chair: Christian Reiss, Max-Planck-Institut für Wissenschaftsgeschichte
Commentator: Graeme Gooday, University of Leeds

1. Glass Science. Boundary Work in Laboratory Research, 1860–1935, *Kijan Malte Espahangizi, ETH Zürich

2. Hybrid Habitats in History of Ecology: Winogradsky's Sulphur Bacteria Research, 1880-1900, Lloyd Ackert, Drexel University
3. Of Axolotls and Men, Or, How the Aquarium Brought Life to the Life Sciences, 1864–1900, Christian Reiss, Max-Planck-Institut für Wissenschaftsgeschichte

5:00 – 6:00 PM

Committee on Research and the Profession Meeting

Willey (4th Floor)

6:10 – 6:30 PM

Earth and Environment Forum Meeting

Superior (1st Floor)

6:30 – 7:30 PM

Cash Bar Reception

Gold Assembly (3rd Floor)

7:30 – 10:00 PM

Society Dinner

Gold (3rd Floor)

Please note that this is a ticketed event. You will not be admitted without a ticket.

FALL BACK!

Daylight savings time ends early Sunday morning on the 6th of November, Please set your clocks back accordingly.

SUNDAY, November 6, 2011

9:00 – 10:00 AM

HSS Business Meeting

Shucker's (1st Floor)

all members welcome – breakfast will be served

10:00 AM – 12:00 PM

Bodies, Colonies, and Stem Cells

Van Aken (4th Floor)

Chair: *Hallam Stevens, Harvard University
Commentator: Andrew Yang, School of the Art Institute of Chicago

1. Weismann's Authoritarian Cell State, Lukas Rieppel, Harvard University
2. Stem Cells and the Colonial Metaphor, *Hallam Stevens, Harvard University
3. Biological Kinds and Moral Categories in American Regulation of Human Embryo Research, Ben Hurlbut, Arizona State University

Capturing Regulation

George Bush (3rd Floor)

Chair: Marsha Richmond, Wayne State University

1. The Incubation of Government Patronage in Medicine in Interwar America, Tom Scheiding, Arizona State University
2. Building the Pharmaceutical Workforce and the Post-War Pharmaceutical Enterprise, Dominique A. Tobbell, University of Minnesota
3. A Study of Interaction of Society and Science in Japan's Postwar Recovery: Food Situation and Chemical Industry, Akinori Yamabe, University of Tokyo
4. Hormones of Life: Endocrinology, the Pharmaceutical Industry, and the Dream of a Remedy for Sterility, Christer Nordlund, Umea University, Sweden

Establishing Networks of Nature's Experts: Environmental Science and State Power

Humphrey (3rd Floor)

Chair and Commentator: Jeremy Vetter, The University of Arizona

1. A Better Nation through Agriculture: 4-H Clubs and the Science of Rural Development, Amrys O. Williams, University of Wisconsin, Madison
2. Leveraging Science Against Sovereignty: Dai Dong's Menton Statement and Third-World Conflict, *Roger Eardley-Pryor, University of California, Santa Barbara
3. The Science and Politics of Old Fish: Ageing, Otoliths, Transformational Science and Fisheries Policy in Canada and the United States, Carmel Finley, Oregon State University

Late 20th Century Scientific Publics

Severance (4th Floor)

Chair and Commentator: Bruce Lewenstein, Cornell University

1. Bob Guccione's Scientific Americans, W. Patrick McCray, University of California, Santa Barbara
2. Aggression and the Public Science of Human Nature, Erika L. Milam, University of Maryland
3. Marketing Technoscientific Selves, *Matthew H. Wisnioski, Virginia Polytechnic Institute

Revisiting Iconography: The Persistence and Circulation of Scientific Illustrations

Halle (4th Floor)

Chair: Ilja Nieuwland, Huygens Institute for the History of the Netherlands, Royal Netherlands Academy of Arts & Sciences
Commentator: Sven Dupré, Max-Planck-Institute für Wissenschaftsgeschichte

1. Putting Emblems into Practice: Tycho Brahe's *Astronomiae Instauratae Mechanica*, Jasper van Putten, Harvard University

2. Designing the Horse: Painting and Breeding the Perfect Animal in Early Modern Europe, *Daniel Margocsy, Hunter College
3. The Griffin's Dilemma: Reconstructing Archaeopteryx, 1861-c.1990, Ilja Nieuwland, Huygens Institute for the History of the Netherlands, Royal Netherlands Academy of Arts & Sciences

Science and Spiritualism

Case (4th Floor)

Chair and Commentator: Bruce Hunt, University of Texas at Austin

1. Refusing to Give Up the Ghost: Robert Chambers, Materialism, and Religious Sensibility in Victorian Britain, *Angela Smith, University of Texas, Austin
2. Somewhere between Light and Shadow: Alfred Russel Wallace, Spirit Photography and the Trial of Henry Slade, Benjamin Mitchell, York University
3. The End of an Evolutionary Biologist: The Spiritualism of George Henslow, Keith Francis, Oxford Brookes University

Scientific Intermediaries, 1500-1900

Garfield (4th Floor)

Chair: Matthew Crawford, Kent State University

1. A Scientific Intermediary Between the Ottoman Empire and Renaissance Europe, Robert G. Morrison, Bowdoin College

2. Women as Information Intermediaries in Seventeenth-Century Southeast Asia, Matthew Sargent, University of California, Berkeley
3. 'The Book and The Balance': Scientific Expertise, Religious Scholars, and Questions of Governance in al-Jabarti's Eighteenth-Century Egypt, Jane H. Murphy, Colorado College
4. Joseph Henry's Pure-Science Ideal: The Search for the Social Niche for Science in Antebellum America, Bongkook Kim, Seoul National University

Traveling and Mapping

Blossom (4th Floor)

Chair: Gregory Good, American Institute of Physics

1. Unearthing Science and Early Networks, Mark M. Chambers, SUNY-Stony Brook
2. The Rurik Expedition: Cycles of Accumulation in Russian Overseas Exploration, 1815-1818, Albert Miller, University of Washington
3. 'The Sea Freezeth Not': *Naturphilosophie* and the Arctic, Christopher Carter, Guilford College
4. The Scientific Survey of Puerto Rico: Intersections of Metropolitan Science and American Empire, Darryl E. Brock, Fordham University

HSS 2011 Business Meeting Agenda
Sunday, 6 November 2011, 9:00 – 10:00 AM
Shucker's (1st Floor)

All HSS members are welcome. Refreshments will be served.

President's Welcome
Paul Farber

Approval of Minutes
(Minutes available at www.hssonline.org/Meeting/)

Executive Director's Report
Jay Malone

Editor's Report
Bernie Lightman

Treasurer's Report
Adam Apt

Committee Reports
Synopsis by Jay Malone

New Business

Electronic copies of the reports are available. Please log on to www.hssonline.org/Meeting/ and look for the Business Meeting link

Join the British Society for the History
of Science and the Canadian Society for
the History of Science at the
3-Society Meeting
July 10 – 13, 2012
Philadelphia, PA
Paper and session proposals can be
submitted online at
www.hssweb.org/callforpapers/

Please join us for the 2012 George Sarton
Memorial Lecture in the History and
Philosophy of Science at the American
Association for the Advancement of Science
Meeting in Vancouver, BC

February 18, 2012

**“Making Science Big:
From Little Science to Megaprojects?”
Robert Smith, Professor of History and
Classics, University of Alberta**

Registration discounts available for HSS and PSA members –
contact the HSS Executive Office at info@hssonline.org