

HSS PROGRAM

Montréal, QC 2010

(Joint meeting with the Philosophy of Science Association)

*session organizer(s)

Registration -- Grand Salon Foyer (Level 4)

Thursday, 12:00 PM – 7:00 PM
Friday, 8:00 AM – 5:00 PM
Saturday, 8:00 AM – 5:00 PM
Sunday, 8:00 AM -- 12:00 PM

Book Exhibit -- Grand Salon A (Level 4)

Thursday, 7:30 PM – 8:30 PM
Friday, 8:00 AM – 5:00 PM
Saturday, 8:00 AM – 5:00 PM
Sunday, 8:00 AM – 12:00 PM

THURSDAY, November 4, 2010

HSS Council Meeting -- Salon des Arts (Level 6)

Thursday, 1:00 – 5:00 PM

Becoming Scientific: How Everyday Things Travel To Science and Back – Auteuil A (Level 5)

(Joint session with PSA, 4:30 – 6:45)

1. Acidity: The Persistence of the Everyday in the Scientific, Hasok Chang, Cambridge University
2. Using 'Race' in Medicine: Founding a Ballung Concept, Sophia Efstathiou, Southampton University
3. Heredity's Baggage, *Gregory Radick, University of Leeds
4. Values and the Science of Wellbeing: How Should They Mix?, Anna Alexandrova, University of Missouri, St. Louis

Plenary Session -- Grand Salon B (Level 4)

Thursday, 5:30 – 7:00 PM

The Challenges and Opportunities of Interdisciplinary Teaching

(Sponsored by the Committee on Education)

Chair: John Lynch, Arizona State University
Organizers: Kristin Johnson, University of Puget Sound; John Lynch, Arizona State University

1. Making Better Scientists: HPS in the Science Curriculum, Hanne Andersen, University of Aarhus, Denmark
2. Applied History of Science, Melinda Gormley, University of Puget Sound
3. HPS in the Science Curriculum: History and Philosophy at the Lab Bench, Andrew Hamilton, Arizona State University
4. Why Do I Have to Take This STS Class?, *Kristin Johnson, University of Puget Sound

Opening Reception -- Thursday, 7:30 – 8:30 PM

(joint reception with PSA, cash bar)

Grand Salon Foyer & A (Level 4)

Newcomers' Welcoming Reception and Mentor-Mentee Gathering -- Grand Salon C (Level 4)

Earth and Environment Forum -- Thursday, 8:30 PM – 10:00 PM
Salon des Arts (Level 6)

FRIDAY, November 5, 2010

Friday, 7:30 – 8:45 AM

HSS Women's Caucus Breakfast

Jeanne-Mance (Level 6)

Friday, 9:00 – 11:45 AM

(Coffee Break 10:00-10:15)

Grand Salon Foyer)

Genes and Mechanisms in the Case of Cystic Fibrosis: Philosophical, Historical and Social Perspectives

Jeanne-Mance (Level 6)

Chair and Commentator: Miriam Solomon, Temple University

1. A Disease About to Disappear, *Susan Lindee, University of Pennsylvania
2. Mechanisms, Mutations, and Rational Drug Therapy in the Case of Cystic Fibrosis, Lindley Darden, University of Maryland
3. Examining Problems with Using 'Mechanistic' Evidence for Managing Cystic Fibrosis, Jeremy Howick CEBM, UK

4. Is My Sick Child Healthy? Is My Healthy Child Sick?: Changing Parental Experiences of Cystic Fibrosis in the Age of Expanded Newborn Screening, Rachel Grob, Sarah Lawrence College (Child Development Institute)

Community and Isolation in the Ancient Sciences

Été des Indiens (Level 6)

Chair and Commentator: Jan Hogendijk, Utrecht University

1. Accounts, Democracy, and Numeracy in Classical Athens, *Serafina Cuomo, Birkbeck College
2. Authorial Immunity: Rethinking Disembodied Knowledge in Early Greek Medical Writing, Brooke Holmes, Princeton University
3. How is Praying to Statues like Talking to Houses?, *Daryn Lehoux, Queen's University
4. Mapping Ancient Science, Reviel Netz, Stanford University

Science and Popular Culture: Making and Communicating Natural Knowledge

Salon des Arts (Level 6)

Chair and Commentator: Lynn K. Nyhart, University of Wisconsin, Madison

1. Genes of Synthesis, and the Works of George Gamow, Nasser Zakariya, Harvard University
2. The Only Real Skeleton in Europe: Diplodocus, Andrew Carnegie, and German Rivalry, Ilja Nieuwland, Huygens Institute of The Royal Netherlands Academy of Sciences
3. Zen and the Art of Textbook Writing, David Kaiser, Massachusetts Institute of Technology
4. Collectors for Hire: Charles Sternberg and the Commercial Fossil Trade, 1870-1930, *Lukas Rieppel, Harvard University

Scientific Institutions and Nazism

Mont-Royal (Level 6)

Chair and Organizer: Mark Walker, Union College

1. The Research Program "The History of the German Research Foundation, 1920-1970," Karin Orth, University of Freiburg

2. The Meaning of Apology. Survivors of Nazi Medical Crimes and the Max Planck Society, Carola Sachse, Max Planck Institute for the History of Science
3. The German Physical Society During the Third Reich, Richard Beyler, Portland State University
4. The Deutsches Museum in National Socialism, Stefan Wolff, Forschungsinstitut Deutsches Museum, München
5. The Haber-Institute – No Place for Science During National Socialism?, Dieter Hoffmann, Max Planck Institute for the History of Science

Predicting the Unthinkable: Sciences of Natural and Social Crisis

Hospitalité (Level 5)

Chair and Commentator: Matthias Dorries, University of Strasbourg

1. The Taming of the Volcano and the Conquering of Climate, Karen Holmberg, Brown University
2. Enumerating Mischiefs: The Mathematics and Politics of Financial Prediction During the 1720 South Sea Bubble, *William Deringer, Princeton University
3. Typhoon Warning and Local Politics in Shanghai's Inter-Port Meteorological Scheme, 1869-1882, Marlon Zhu, The State University of New York, Binghamton
4. The Productivity of Weather and Climate Prediction, Samuel Randalls, University College London

Embedding the History of Mathematics in the History of Science

(Sponsored by the Forum for the History of the Mathematical Sciences)

Alfred-Rouveau A (Level 4)

Chair and Commentator: Karen Parshall, University of Virginia

Organizer: Peter Pesic, St. John's College, Santa Fe, NM

1. Mathematical Matter, Amir Alexander, University of California, Los Angeles
2. Algebraic Collisions: Challenging Descartes with Cartesian Methods, Scott J. Hyslop, Indiana University, Bloomington
3. Mathematical Models and the Mechanical Philosophy in 17th-Century Physiology: Comparing the Mathematical Theories of

- Muscle Contraction of Giovanni Alphonso Borelli and Johannes Bernoulli, Emil Sargsyan, Indiana University, Bloomington
4. Mathematics as Culture, or Getting Out of the Ghetto, Massimo Mazzotti, University of California, Berkeley

The War of Guns and Mathematics: Military-Scientific Collaborations and Methods in Ballistics from Euler to World War II

Alfred-Rouleau B (Level 4)

Chair and Commentator: Matthew Jones, Columbia University

1. Off the Target? Exact Solution to Approximate Differential Equations in 18th- and 19th-Century Ballistics, Dominique Tournès, Université de la Réunion, France
2. Doctrine, Virtues and the Scientific Method in a Military Context: The French Gâvre Commission for Ballistics, 1829-1918, *David Aubin, Université Pierre et Marie Curie, Paris 6
3. Mathematicians and Exterior Ballistics in America, 1880-1940, Alan Gluchoff, Villanova University
4. Trajectories After Aberdeen: Exploring Effects of the WWI Experience on American Mathematicians, Deborah A. Kent, Hillsdale College
5. From Canon Shell Trajectories to Atoms: Douglas Hartree and Ralph Fowler's WWI Ballistics and the Calculation of Atomic Properties, Edward Jurkowitz, Max Planck Institute for the History of Science

Entanglements of Instruments and Media in Investigating Organic Worlds

Alfred-Rouleau C (Level 4)

Chair and Commentator: Jan Golinski, University of New Hampshire

1. 'Machina anthropometrica': Weighing Perspiration in the Long 18th Century, Lucia Dacome, Institute for the History and Philosophy of Science and Technology, University of Toronto
2. The Subject as Instrument: Galvanic Experiments, Organic Apparatus and Problems of Calibration, *Joan Steigerwald, York University
3. A Brief History of Slime: Protoplasm, Ectoplasm and the Instruments of Infravisibility, Robert Brain, University of

British Columbia

4. Surfing on the Sea of Brain Waves: Electroencephalography in Performance Art, Cornelius Borck, Institute for the History of Medicine and Science Studies, University of Lübeck, Germany

Rethinking Science and Race: Darwin, Boas, and Dobzhansky

Grand Salon C (Level 4)

Chair: John Beatty, University of British Columbia

1. Darwin's Explanation of Races by Means of Sexual Selection, Roberta Millstein, University of California, Davis
2. Racial Science and the Burden of Proof in the Work of Franz Boas, John P. Jackson, Jr., University of Colorado, Boulder
3. Franz Boas's Interest in Human Genetics, Evolutionary Biology and Physical Anthropology, Veronika Lipphardt, Humboldt University of Berlin
4. Races as Gene Pools: Reservoirs, Puddles, and Playing Cards, *Lisa Gannett, Saint Mary's University

Creating and Crossing Disciplines

Grand Salon B (Level 4)

Chair: Jutta Schickore, Indiana University

1. Data-Gathering, Professionalization, and Specialization: Constructing a Paradigm in Astrophysics During the First Half of the 20th Century, Erik P. Norquest, University of Texas-Pan American
2. New Disciplinary Dynamics in Post World War II Brain Research: The Case of Francis O. Schmitt's Neurosciences Research Program at MIT, Tara H. Abraham, University of Guelph
3. Balkanizing Physics: Division vs. Unity and the Establishment of American Solid State Physics in the 1940s, Joseph Martin, University of Minnesota
4. Velvet Revolution at the Synchrotron: Shifting to Biology from Physics in Practice, Park Doing, Cornell University
5. Measurement of X-Radiation: From Biology to Physics and Back, William C. Summers, Yale University

Friday, 12:00 – 1:15 PM

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

Grand Salon B (Level 4)

Vassiliki (Betty) Smocovitis, Professor of Zoology and History, University of Florida, “The Good Earth” to “Jungle Warfare”: American Botanists and Their Plants at War, 1942-1945

**Forum for the History of Science in Asia
Organizational Meeting and Brown-bag Lunch**

Été des Indiens (Level 6)

**Forum for the History of the Mathematical
Sciences Luncheon, 12:00 – 1:15 PM**

Café Fleuri

Friday, 1:30 – 3:10 PM

Museums and Popularization of Science

Mont-Royal (Level 6)

Chair: Hanna Rose Shell, Massachusetts Institute of Technology

1. Science in Action: the New York Museum of Science and Industry and the Politics of Interactivity, Jaume Sastre Juan, CEHIC- Univeristat Autònoma de Barcelona
2. On Display: Examining Contemporary Exhibits of the 19th-Century Asylum, Jennifer L. Bazar, York University
3. “You say musaeum, I say museum....,” Martin Weiss, Leiden University, the Netherlands
4. From Science to Propaganda: The Americanization of Otto Neurath’s Pictorial Statistics (1929-1945), Loic Charles, EconomiX, INED and University of Reims, France; and Yann Giraud, THEMA, University of Cergy, France

Studies in Early Modern Science

Salon des Arts (Level 6)

Chair: Renee Raphael, University of Alabama

1. Fixed Colors in the Works of Francis Bacon: A Reappraisal, Tawrin Baker, Indiana University, Bloomington
2. What History of Discoveries/Inventions? The Case of Leibniz’s Calculating Machine, Florin-Stefan Morar, Harvard University
3. Tracing the Industrial Revolutions to its Origins: Scientific Knowledges and Technological Innovations in Great Britain (1713-1800), Fabio Zanin, Liceo ginnasio “Brocci”

Science in Modern Asia

Été des Indiens (Level 6)

Chair: Yoshiyuki Kikuchi, Massachusetts Institute of Technology

1. Seeing Like Statesmen and Scientists: The Role of Techno-Science in the Making of Modern India, Madhumita Saha, Iowa State University
2. Historical Trajectory of the Development of Nanoscience and Nanotechnology Research in the ‘Other World’: The Case of India, Debasmita Patra, Cornell University
3. Two Controversies, One Narrative: A Strange Discursive Overlap of Scientific Fraud and Risk Politics in South Korea, Dae-Cheong Ha, Seoul National University
4. Laboratory Studies in China: Mapping The History of Modern Science in Contemporary China, Christine Y. L. Luk, Arizona State University

Climate Change in the 20th Century

Alfred-Rouleau C (Level 4)

Chair: Jim Fleming, Colby College

1. Carbon, Oceans and the Future, ca 1900-1957, Maria Bohn, Royal Institute of Technology, Sweden
2. Producing Arctic Climate Change: Hans Ahlmann’s ‘Polar Warming’ Theory in the Field and in the Media, 1920 to 1960, Sverker Sörlin, Royal Institute of Technology, Sweden
3. Caught between Absolutist Capitalism and Blind Environmentalism?, Nils Randlev Hundebøl, Aarhus University, Denmark
4. Helmut E. Landsberg: “Foremost Climatologist” within Early Debates of Global Climate Change Science, 1950-1985, Gabriel Henderson, Michigan State University

Science in a Canadian Context

Hospitalité (Level 5)

Chair: Peter Hodgins, Carleton University

1. Negotiated Landscapes: Land Grants and Surveying in Upper Canada, 1826-1841, Sarah-Jane Patterson, University of Toronto
2. Just a Theory”: The Atomic Theory Debate and Ontario’s High School Chemistry Textbook, 1905-1909, Michelle D. Hoffman, University of Toronto

3. Drawing Canada Together: The Geological Survey of Canada and the Formation of the Canadian Visual Imagination, Peter Hodgins, Carleton University
4. The Hospital of the 20th Century: Folk Taxonomies and Contested Ideals, David Theodore, Harvard University

Conceptions of Humanity

Alfred-Rouleau A (Level 4)

Chair: Benjamin Harris, University of New Hampshire

1. The Rise and Fall of British Craniometry, 1860-1900, Elise Juzda, University of Cambridge
2. When Apes Speak, Marta Halina, University of California, San Diego
3. Taking Fringe Science Seriously: Examining the Connection between Phrenology and Evolutionary Theory, Sherrie Lyons, Empire State College
4. Frozen Bodies: Representations of Catalepsy in French 19th-Century Medical Texts, Alexandra Bacopoulos-Viau, University of Cambridge

Early Modern Mathematics

Alfred-Rouleau B (Level 4)

Chair: Florence Hsia, University of Wisconsin, Madison

1. Tutors and Textbooks: Vernacular Arithmetic Education in Early Modern England, Jessica Otis, University of Virginia
2. Descartes' Early Algebra, Kenneth Manders, University of Pittsburgh
3. Mathematical Concepts in the 16th-Century: The Case of Geometry and Ratio Conception in Theoretical Music, Oscar Joao Abdounur, Instituto de Matemática e Estatística da Universidade de São Paulo; Carla Bromberg, CESIMA (Simao Mathias Center for the History of Science) Pontifical Catholic University of São Paulo (Brazil)
4. Mathematics at Young Universities, Arjen Dijkstra, University of Twente, the Netherlands

Cures and Drugs in the 17th Century

Grand Salon C (Level 4)

Chair: Matthew Crawford, Kent State University

1. The New Chymical Medicine of Franciscus Sylvius: Chrysopoëia, Experiment, Sensation and Secrecy, Evan Ragland, Indiana University, Bloomington

2. Explaining How Drugs Work in the Late 17th Century, Saskia Klerk, Institute for History of Science, University of Utrecht, the Netherlands
3. Allegorizing the Spirits': Scholarly Melancholy and Study as its Cure in Robert Burton's *The Anatomy of Melancholy*, Stephanie Shirilan, Syracuse University
4. Astrology, Talismans and Medicine in Jacques Gaffarel's *Curiositez Inouyes* (1629), Hiro Hirai, Radboud University Nijmegen, the Netherlands

Black Holes and Quantum Mechanics

Grand Salon B (Level 4)

Chair: Scott Walter, Nancy Université

1. Projective Geometry and the Origins of the Dirac Equation, Thomas Pashby, University of Pittsburgh
2. A Giant's Singular Struggle: Einstein, de Sitter, Weyl, and Klein's Debate on an Alleged Singularity, Christian Wüthrich, University of California, San Diego
3. How Do You Draw a Black Hole? Penrose Diagrams in Theoretical Physics and Cosmology, 1963-1973, Aaron Sidney Wright, University of Toronto
4. Whence the Banana Bond?, Julia Bursten, University of Pittsburgh

Mathematics in the 20th Century

Jeanne-Mance (Level 6)

Chair: Nancy S. Hall, University of Delaware

1. The Rise of Non-Archimedean Mathematics and the Roots of a Misconception, Philip Ehrlich, Ohio University
2. Calculating Empire: How Mathematics Education Standards Define Nationalism in 20th Century U.S., Emily T. H. Redman, University of California, Berkeley
3. Place and Space in the History of Mathematics: A Comparative Study of the University of Göttingen and New York University's Mathematical Institutes under the Leadership of Richard Courant, Brittany Shields, University of Pennsylvania
4. Problems of Abstraction: Defining an American Standard for Collegiate Mathematics Education at the Turn of the 20th Century, Andy Fiss, Indiana University, Bloomington

Coffee Break (Grand Salon Foyer) 3:10 – 3:30 PM

Friday, 3:30 – 5:30 PM

“Science and Modernity Redux”

Jeanne-Mance (Level 6)

Chair and Commentator: Robert Kohler,
University of Pennsylvania

1. The Semblance of Transparency: Expertise and the Ideology of the Public in the Enlightenment, Thomas Broman, University of Wisconsin, Madison
2. Modernizing Easter: Astronomy, Foreign Affairs, and Confessional Conflict, *Kathryn M. Olesko, Georgetown University
3. In “the Capital of all Geist”: Helmholtz and the Modernization of Science in Berlin, David Cahan, University of Nebraska

Science, Politics, and Agriculture in Vietnam and China During the Long 20th Century

Été des Indiens (Level 6)

Chair: Fa-ti Fan, The State University of New York, Binghamton

1. Veterinary Science and Cattle Breeding in Colonial Indochina, Annick Guénel, Centre National de la Recherche Scientifique, Paris and Sylvia Klingberg, Université Paris
2. Business as Usual?: Agricultural Research, the Rubber Industry, and Franco-Vietnamese Relations at the Beginning of Decolonization, 1945-1954, *Michitake Aso, University of Wisconsin, Madison
3. Imperial Texts in Socialist China: Republishing Agricultural Treatises in the Early Maoist Era, Peter Lavelle, Cornell University
4. Insect Control in Socialist China and Corporate America: A Transnational Tale of Science and Politics through the Eyes of Three Entomologists, Sigrid Schmalzer, University of Massachusetts, Amherst

Clues from Genesis: The Mosaic Account and Early Modern Natural Philosophy

Salon des Arts (Level 6)

Chair and Organizer: Maria Portuondo, The Johns Hopkins University

Commentator: Ann Blair, Harvard University

1. The Biblical Cosmology of Benito Arias Montano, *Maria Portuondo, The Johns Hopkins University
2. Ulisse Aldrovandi and the Science of Scripture, Andrew Berns, University of Pennsylvania

3. Isaac Newton and the Genesis Creation, Stephen Snobelen, University of King's College, Halifax

Concepts of Generation

Alfred-Rouleau A (Level 4)

Chair and Commentator: Erika Milam,
University of Maryland, College Park

1. Generation from Putrefaction in Early Modern Causes of Disease, Frederick W. Gibbs, George Mason University
2. Growing Intelligence: Nicolas Hartsoecker's System (1656-1725) and the Legacy of Cambridge Platonism in Dutch-French Scientific Thought, Catherine Abou-Nemeh, Princeton University
3. Enveloped in Mystery: Nineteenth-Century Embryology Through Miscarriage Materials, *Shannon K. Withycombe, University of Wisconsin, Madison

Mutations

Hospitalité (Level 5)

Chair and Commentator: Angela Creager,
Princeton University

1. Mutation and Utopia: America's (evening) Primrose Path to the Future, *Jim Endersby, University of Sussex
2. The Promise of Mutation Under Japan's Sericultural Empire, Lisa Onaga, Cornell University
3. Dialectics Denied: Muller, Lysenko, and the Fate of Chromosomal Mutation, Luis Campos, Drew University

Environmental Histories of Science: Knowing Nature, Transforming Nature

Alfred-Rouleau C (Level 4)

Chair: Christine Keiner, Rochester Institute of Technology

1. Adaptation, Divinity, and the Agricultural Landscape in New York, 1825-1850, Emily Pawley, University of Pennsylvania
2. Capitalist Nature: The Sciences of Development in the American West, 1860-1920, *Jeremy Vetter, Dickinson College
3. Assuring Uncertainty: Metals, Biology, and Knowledge in the Deer Lodge Valley, Montana, 1880-1920, Kent Curtis, Eckerd College
4. What Is Habitat?, Peter Alagona, University of California, Santa Barbara

Discourse and Discovery: Colonial and Atlantic Encounters and Ideologies of Modern Science

Alfred-Rouleau B (Level 4)

Chair and Commentator: Neil Safier, University of British Columbia

1. Botanical Discovery in a Not So New World: French North American Folk Taxonomies in the 17th and 18th Century, *Christopher M. Parsons, University of Toronto
2. Cataloging Discovery: Tobacco and Encounter in Sixteenth Century Virginia, Kelly Wisecup, University of North Texas
3. Transatlantic Hispanic Baconianism as a Tool for Understanding Spanish Contributions to Modern Science, Margaret Ewalt, Wake Forest University

Objects of Science, Objects of Culture: Models and Specimens in 19th Century Natural History

Grand Salon B (Level 4)

Chair: Soraya de Chadarevian, University of Cambridge

1. Fashioning Fruit Out of Wax and the Improvement of Italian Agriculture: The Case of the Whipple Museum's Pomological Models, Lavinia Maddaluno, University of Cambridge
2. Displays of Distinction and Decorum: Dr. Auzoux's Botanical Models in the Growing Educational Marketplace of Late 19th-Century America, *Margaret Olszewski, University of Toronto
3. It's a Giant... It's an Elephant... It's a Mammoth!, Taika Dahlbom, University of Turku, Finland
4. Tusks at Tufts, Ruthanna Dyer, York University

In the Mind's Eye: Technical Drawing in France and England, 1800-1850

Grand Salon C (Level 4)

Chair and Commentator: Hamilton Cravens, Iowa State University

1. Technical Drawing and the Société d'Encouragement pour l'Industrie Nationale, 1815-1848, *Andrew J. Butrica, Unaffiliated
 2. British Technical Draughtsmen in the First Half of the 19th Century, Frances Robertson, Glasgow School of Art
 3. Arguing in Pictures: The Visual Rhetoric of Mechanical Reliability in Restoration France, Jennifer K. Alexander, University of Minnesota
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Physiology and Morphology in the 19th Century

Mont-Royal (Level 6)

Chair: Bert Theunissen, Utrecht University

1. Helmholtz's Curves: Imagery and Precision in His Early Measurements of Physiological Time, Henning Schmidgen, Max Planck Institute for the History of Science
2. Respiratory Physiology and the Climbing of Mount Everest, Both In and Out of the Laboratory, Vanessa Heggie, University of Cambridge
3. The Emergence of Concepts of Inner and Outer Milieus in Anatomy, Pathology and Physiology (Cuvier, Blainville, Broussais, Bernard) 1800-1860, Tobias Cheung, Humboldt University of Berlin
4. Evolutionary Morphology: A German Success in the Netherlands, L. de Rooy, University of Amsterdam

Friday, 6:00 – 6:45 PM

HSS Awards Ceremony (*Please see the program and citations beginning on page 36*)

Grand Salon B (Level 4)

Friday, 7:00 – 9:00 PM

Reception: Canadian Centre for Architecture (buses will pick up at the hotel's Jeanne-Mance entrance and circulate between the hotel and the CCA -- tickets required). Sponsorship for this reception provided by the Social Sciences and Humanities Research Council of Canada Strategic Knowledge Cluster.

The CCA (Centre canadien d'architecture / Canadian Centre for Architecture <http://www.cca.qc.ca/en>) was founded in 1979 to promote public understanding and appreciation of architecture and urbanism, and also to foster research and public debate on the history, theory and practice of architecture and urban design in today's society. It is currently occupies a unique place in Montréal's cultural and educational landscape, running exhibitions through the year and bringing visiting scholars to use its extensive special collections. As the venue for some of Montréal's most exciting exhibitions, and as the home of one of the city's most interesting bookstores, the CCA was a natural choice as a venue for our Friday night reception. Guests will be able to circulate through the exhibition space, and the bookstore will be open, so come ready to shop.

Getting to the CCA:

1920, rue Baile, Montréal, Québec, H3H 2S6

The CCA is easy to reach by the city's public transport system (with a short walk at the end of the bus or metro journey), and we would encourage those who wish to get a feel for Montréal to take public transport (details below). The bus and metro are part of the same system and both use the same tickets (which you can buy in the metro station or on the bus, with correct change.)

For those less adventurous, less mobile, or just tired after a long day's conferencing, we have arranged for buses to shuttle on a loop between the Hyatt and the CCA between 7pm and 10:00.

By shuttle bus: orange school buses will pick up guests from the hotel and loop back and forth. Depending on traffic, each journey should be between 8 and 20 minutes.

By metro: from the Place des Arts station (across Ste Catherine St from the hotel and adjoining the mall below), take the Green Line west (direction: "Angrignon") for three stops, and get off at station "Guy-Concordia". It's best to leave the metro station by the "Saint Mathieu" exit, and then walk three blocks south and one block west. Each way: \$2.75; \$1.75 for those over 65 (tickets available in the metro station).

By city bus: fare each way: \$2.75; \$1.75 for those over 65 (tickets available in the metro station, or pay on entering the bus, with exact change).

Option 1 (the 15 bus): from the hotel, walk up to the corner of Blvd de Maisonneuve and rue St-Urbain. From there, take the number 15 bus (which leaves twice an hour), heading west along Blvd de Maisonneuve, and get off at St-Mathieu. (This is less than 10 minutes). You could walk the rest of the way (three blocks south and one block west), but you might be lucky and find the 165 bus heading south down St-Mathieu, in which case you could transfer and use it to take the three blocks south (getting off at Baile). You could get the same bus (no. 15) back to the Hyatt by catching it on Ste-Catherine St. Option 2 (the 535 bus): from the hotel, walk one block west to Ste-Catherine and Bleury (OR Rene-Levesque and Bleury); take the no. 535 bus (they pass every 8 minutes or

so at this time) -- this will take you as far as the corner of Rene-Levesque and Guy; then walk the remaining 500 metres along Rene-Levesque to the corner of Rue du Fort, turn right and enter the CCA from the corner of rue du Fort and Baile.

Friday, 7:30 – 9:00 PM

WORKSHOP: The Legacy of Antiquity: Books and Practice

Argentueil (Level 4)

Organizer: Alain Touwaide, Smithsonian Institution, Institute for the Preservation of Medical Traditions

Introduction -- Alain Touwaide

On the Authorship and Use of Pharmacological Books in Ancient Mesopotamia: Learned Scholars or Expert Practitioners?, Barbara Böck, Instituto de Lenguas y Culturas del Mediterráneo y Oriente Próximo, CCHS – CSIC, Madrid, Spain

Medical Book Learning and Medical Practice in 12th Century Byzantium: Anna and the Physicians, Glen Cooper, Brigham Young University

The Medieval Transmission and Reception of Hippocrates' Aphorisms, Faith Wallis, McGill University

Discussion

Conclusions and perspectives

Psychology in the 20th Century

Picardie A (Level 5)

Chair: Stephen T. Casper, Clarkson University

1. Hugo Münsterberg, Psychotechnics, and the Psychologizing of Cinema, Jeremy Blatter, Harvard University
2. "Murder of the Mind?" The Psychosurgery Controversy of the 1970s, Brian Casey, National Institute of Health
3. Narratives of the Unconscious: Henry Murray, Literary Interpretation, and the Thematic Apperception Test, Jason Richard Miller, University of California, Los Angeles
4. The Birth of Information in the Brain: Edgar Adrian and the Vacuum Tube, Justin Garson, University of Texas, Austin

Making the Sciences Humaines Scientific

Picardie B (Level 5)

Chair: David Robinson, Truman State University

1. The Language of Objects: Christian Jürgensen Thomsen's Science of the Past, Kasper Risbjerg Eskildsen, Roskilde University, Denmark
2. 'The Missing Link Expeditions', 1921-28: or, How Peking Man Wasn't Found, Peter C. Kjaergaard, University of Aarhus, Denmark
3. An Informant's Guide to Observing Man: Ethnographic Questionnaires, and the Development of Early Observational Practices in 'the Field', Efram Sera-Shriar, University of Leeds

Techniques and Instruments for Science

Auteuil A (Level 5)

Chair: Dana Freiburger, University of Wisconsin, Madison

1. Mastering the Play of Light and Shadow": Doctors, Opticians and the Shadow Test in Late 19th-Century America, He Bian, Harvard University
2. Scientific Creativity in Peripheral Science: C.V. Raman and the Construction of a Mechanical Violin-Player, Deepanwita Dasgupta, University of Minnesota
3. Playing with Colour: Variants of Newtonianism in London's Optical Instrument Making Community, Karen M. Buckle, University College London
4. Mechanical Objectivity or Instrumentalizing Theory? Introducing Automatic Recorders in Radio Ionospheric Sounding, 1930-39, Chen-Pang Yeang, University of Toronto

Travelling and Collecting in the 18th and 19th Centuries

Anjou A/B (Level 5)

Chair: Richard Bellon, Michigan State University

1. The Growth of Collaborative Collecting: Spencer F. Baird, Robert Kennicott, and the Hudson Bay Company, Matthew Laubacher, Arizona State University
2. Botany: Its Key Role in Imperial Expansion, Elisabeth de Cambiaire, University of New South Wales
3. Itinerant Savants: Dutch Humboldtians and the Multiple Purposes of Travel, Azadeh Achbari, Free University Amsterdam

SATURDAY, November 6, 2010

Saturday, 7:30 – 8:45 AM

Committee on Honors and Prizes Breakfast
Café Fleuri

Osiris Editorial Board Breakfast
Touraine (Level 5)

Committee on Education
Café Fleuri

Saturday, 9:00 – 11:45 AM
(Coffee Break 10:00-10:15
Grand Salon Foyer)

Artifacts of Science

Salon des Arts (Level 6)

Chair: Benjamin Wilson, Massachusetts Institute of Technology

Commentator: Roger Launius, Smithsonian National Air and Space Museum

1. IYA 2009 – 400 Years of Objects and the Construction of Their Messages, Marv Bolt, Adler Planetarium and Museum
2. Recontextualizing the V-2, David DeVorkin, Smithsonian National Air and Space Museum
3. Re-examining Icons on Display, David Pantalony, Canada Science and Technology Museum
4. The Moon on Display: The Exhibition of a Moon Rock at the 1970 Osaka World's Fair, *Teasel Muir-Harmony, Massachusetts Institute of Technology

Spatial Knowledge: Writing and Drawing as Epistemic Practices

Grand Salon B (Level 4)

Chair and Commentator: Seymour Mauskopf, Duke University

1. The Space of Drawing, the Time of Modeling: Representing Comets in the Later 17th Century, Matthew C. Hunter, California Institute of Technology
2. Tools for Reordering: Commonplacing and the Space of Words in Linnaeus' *Philosophia Botanica*, *Matthew D. Eddy, Durham University
3. John Herschel's 'Working Skeletons': A Look at the Procedures of Drawing Nebulae, Omar W. Nasim, Swiss Federal Institute of Technology
4. The Portrait of a Species: A Case Study on Biological Drawing, Barbara Wittmann, Max Planck Institute for the History of Science

Thinking with Specimens: Collections-Based Research in the Museum of Vertebrate Zoology

Été des Indiens (Level 6)

Chair and Commentator: Cathryn Carson, University of California, Berkeley

1. Collections-based Research at the Museum of Vertebrate Zoology, *Mary Sunderland, University of California, Berkeley
2. Taxon-Focused Research in Collections-Based Biology, James R. Griesemer, University of California, Davis
3. Collections and Analyses in Lab and Field: Some Problems with a Distinction, Elihu R. Gerson, Tremont Research Institute

History of Mathematics: New Perspectives from the Far East: China, Japan, and Vietnam

Mont-Royal (Level 6)

Chair and Organizer: Joseph Dauben, National Chiao-Tung University, Taiwan, and The City University of New York

1. Mathematical Content of Newly-Published Bamboo Strips of the Qin Dynasty, Yibao Xu, Borough of Manhattan Community College (The City University of New York)
2. Chinese Roots of Linear Algebra, Roger Hart, University of Texas, Austin
3. Samurai Culture and the Fashioning of Mathematics in Japan, Tomoko Kitagawa, Harvard University
4. Trigonometric Tables in China, Jiang-Ping Jeff Chen, St. Cloud State University
5. Chinese Mathematics in Vietnam: Transmission and Adaptation, Alexei Volkov, National Tsing Hua University

The Science, Politics, and Publics of Climate Change

Alfred-Rouleau A (Level 4)

Chair and Organizer: Jessica O'Reilly, University of California, San Diego and Princeton University
Commentator: Keynyn Brysse, Princeton University

1. Climate Science, Truth, and Democracy, Evelyn Fox-Keller, Massachusetts Institute of Technology
2. Neo-liberalism, Resistance to Climate Science, and the Legacy of the Cold War, Naomi Oreskes, University of California, San Diego
3. The Public Role of Climate Scientists, Michael Oppenheimer, Princeton University

4. The History of a Typo: Himalayan Glacier Predictions and the Intergovernmental Panel on Climate Change, *Jessica O'Reilly, University Of California, San Diego and Princeton University

Science and American Empire

Alfred-Rouleau B (Level 4)

Chair and Commentator: Paul Sutter, University of Colorado-Boulder

1. Sixty-one Years of Soledad: University and Corporate Science at Harvard's Research Station in Soledad, Cuba, 1898-1959, Megan Raby, University of Wisconsin, Madison
2. Baseline Archipelago: U.S. Insular Science and the Re-mapping of the Philippines, Scott Kirsch, University of North Carolina, Chapel Hill
3. America's Rubber Empire: Ecology, Disease, and Commerce in the Making of Firestone Plantations Company, Gregg Mitman, University of Wisconsin, Madison
4. The Social Science of Assimilation in the Settler Colony of Hawai'i, *Christine L. Manganaro, University of Minnesota

Rethinking the Emergence of Islamic Science

Hospitalité (Level 5)

Chair: Sally Ragep, McGill University

Organizer and Commentator: F. Jamil Ragep, McGill University

1. Early Islam's Reactions to Astrology, Robert Morrison, Whitman College
2. Narratives of Science, Keren Abbou Hershkovits, McGill University
3. Dead Texts Versus Living Teachers: Remarks on the Transmission of Greek Mathematics into Arabic, Jan P. Hogendijk, University of Utrecht, the Netherlands
4. Why Greek Rational Sciences Were Needed in the Abb sid Court, Taro Mimura, University of Tokyo

There is Something in the Air: Chemistry, Medicine, and Enlightenment Reform

Alfred-Rouleau C (Level 4)

Chair and Commentator: Trevor Levere, University of Toronto

1. The Origins of William Brownrigg's Theory of Airs: Links between Medicine and Pneumatic Chemistry, Leslie Tomory, Independent Scholar

2. Modernizing Medicine in the Enlightenment: John Pringle and the Medical Place of Chemical Knowledge, Erich Weidenhammer, University of Toronto
3. Making Chemistry Matter: D'Arconville and the Problem of Putrefaction in Enlightenment France, Margaret Carlyle, McGill University
4. Measuring Airs and Virtues: Debating Eudiometry between the Medical Environment and the Experimental Sphere, *Victor Boantz, McGill University

Controlling Life in 20th-Century Biology: A Session Inspired by the Work of Philip J. Pauly

Grand Salon C (Level 4)

Chair: Nathan Crowe, University of Minnesota

Commentator: Jane Maienschein, Arizona State University

1. Recasting “Chemical Warfare” in the 1960s: Coevolutionary Studies and the Evolution of “Natural Insecticides,” *Rachel Mason Dentinger, Unaffiliated
2. A Science of Control?: A History of Nuclear Transfer Experiments, 1940s-1970s, Nathan Crowe, University of Minnesota
3. “A Modified Kind of Man and a Modified Kind of Nature”: Charles Elton’s Vision of Millennial Conservation, Matthew Chew, Arizona State University
4. Live Animals in Museums: Reframing the Science of Life, From ‘The Watchful Grasshopper’ to ‘The Insect Zoo’, Karen Rader, Virginia Commonwealth University

Women as Subjects of Science (*Sponsored by the HSS Women’s Caucus*)

Jeanne-Mance (Level 6)

Chair: Sheila Faith Weiss, Clarkson University

1. ‘Femmes fatales’. Examining Criminal Women in 19th-Century France, Aude Fauvel, Max Planck Institute for the History of Science
2. A Feminist Reproductive Health Coalition: Feminist Health Activists and Emergency Contraception in the United States, 1970-2000, Heather Munro Prescott, Central Connecticut State University
3. Regenerative Medicine in Context: Co-evolving Conceptions of the Fetus and its Worth, Andrew J. Hogan, University of Pennsylvania

4. Between Healers and Jurists: Abortion in Tridentine Italy, John Christopoulos, University of Toronto

Saturday, 9:30-11:30 AM

Nominating Committee – Touraine (Level 5)

Saturday, 12:00 – 1:15 PM

Forum for the History of Human Science Business Meeting and Distinguished Lecture:

Mary S. Morgan, Professor of History and Philosophy of Economics, London School of Economics and University of Amsterdam, “Recognising Glass Ceilings and Sticky Floors.” - Grand Salon C (Level 4)

Graduate and Early Career Caucus (GECC)

Business Meeting (*drinks and light snacks will be served*) - Alfred-Rouleau A (Level 4)

Committee on Meetings and Programs Meeting - Café Fleuri

Global Histories of Science: Exploring New Resources on the Web - Été des Indiens (Level 6)

Chair: Jan Golinski, University of New Hampshire

1. History of Science in Latin America and the Caribbean, Julia Rodriguez and Jan Golinski, University of New Hampshire
2. World History of Science Online, Stephen Weldon, HSS Bibliographer/University of Oklahoma
3. Rational Sciences in Islam, Sally Ragep, McGill University

Saturday, 12:00 – 3:00 PM

Committee on Publications Meeting

Touraine (Level 5)

Saturday, 1:30 – 3:10 PM

Research at the Frontier: Scientific Practices and the Dynamics of Expansion

Alfred-Rouleau C (Level 4)

Chair: Bruce Hevly, University of Washington

1. Terrestrial Physics as Investment in Frontier Building, Bruce Hevly, University of Washington
2. Malaria, Railroads and the Inner Exploration of Brazil, Jaime Larry Bechamol, Casa de Oswaldo Cruz

3. Frontier Organisms: Genetics, the Circulation of Karakul Sheep and the Imperial Landscapes of Fascism, *Tiago Saraiva, University of Lisbon
4. The Scientific Landscape of the Portuguese Far-East: Port Wine, Phylloxera and Railways, Marta Macedo, University of Lisbon

Rethinking the History of Organicism: New Perspectives on Vital Science

Alfred-Rouleau A (Level 4)

Chair and Commentator: Daniel McKaughan, Boston College

1. Blumenbach's Theory of Vital Forces: A Research Program?", François Duchesneau, Université de Montréal
2. From Substantial to Functional Vitalism and Beyond: Animal Economies, Organisms and Existential Attitudes, Charles T. Wolfe, University of Sydney
3. Biophysics and Holism at the University of Chicago, 1928-1945: Resistance to Molecularization, *Phillip R. Sloan, University of Notre Dame
4. The Organicist Moment at Cambridge and Why It Was Nearly Lost, Erik Peterson, University of Notre Dame

Progressive Science? Embodiment and Reform in Progressive America

Alfred-Rouleau B (Level 4)

Chair: Garland Allen, Washington University

1. The Metaphysical Club, Pragmatism, and the Search for New Methods in American Biology, 1880-1910, Keith R. Benson, University of Washington (Paper will be read by Michael Reidy.)
2. The Fate of a Progressive Science: The Harvard Fatigue Laboratory, Athletes, and the Science of Work, *Robin Wolfe Scheffler, Yale University
3. Biological Analogies in History: Theodore Roosevelt, Nature, and National Character, Henry Cowles, Princeton University
4. Female and Fowl: Eugenic and Euthenic Conflicts about the Body and Reproduction in Early Twentieth Century America, Kathy Cooke, Quinnipiac University

Practical Knowledge in the Early Modern Period

Salon des Arts (Level 6)

Chair: Larry Stewart, University of Saskatchewan

1. Natural Histories of State and Industry: Proto-Industrial Artisan Production and State Sciences in 18th-Century Europe, Adelheid Voskuhl, Harvard University
2. Ars and Scientia in Venetian Shipbuilding Practice During the Late Middle Ages and the Renaissance, Lilia Campana, Nautical Archaeology Program
3. Diagramming the Sea: Depicting Charts and Currents in 17th-Century Navigation Textbooks, Margaret Schotte, Princeton University

Animating the Heavens and the Earth

Hospitalité (Level 5)

Chair: Faith Wallis, McGill University

1. The Animation of the Heavens in Albert the Great's *De caelo et mundo*, Adam Takahashi, Radboud University Nijmegen
2. God, Intellect and Angels in the Cosmology of Julius Caesar Scaliger, Kuni Sakamoto, University of Tokyo
3. Ptolemy: Altering Data to Fit the Model, Jacqueline Feke, Stanford University
4. A Tale of Two Astronomies: Late Renaissance Astrology and Biological Rhythms, Jole Shackelford, University of Minnesota

Pre-modern Medicine

Mont-Royal (Level 6)

Chair: Valentina Pugliano, Oxford University

1. Healing by Incantation in Medieval China, Yan Liu, Harvard University
2. The Medieval Hippocrates: a Late Middle Ages Transformation of the Greek Medical Tradition, Marco Viniegra, Harvard University
3. Herophilus' Pulsating Medicine, Deirdre Moore, University of King's College

Industry, Patronage and Science

Été des Indiens (Level 6)

Chair: Margot Iverson, Institute of Medicine

1. The Chemical Foundation as Academic/ Industry Interface, 1919-1941, Tom Scheiding, Elizabethtown College; and Phil Mirowski, University of Notre Dame
2. Selling the Research Idea: The National Research Council's Promotion of Industrial Research, 1916-1945, Eric S. Hintz, University of Pennsylvania (paper will be read by Margot Iverson, Institute of Medicine)

3. Regulation and Evolution of the Biopharmaceutical Sector: A 'Begriffsgeschichte' of Non-inferiority as a Testing Standard for Antibiotics, Arthur Daemrich, Harvard University
4. Negotiating Scientific and Industrial Management: The Micromotion Films of Frank and Lillian Gilbreth, 1912-1924, Arlie R. Belliveau, York University

Biology and Ideology

Jeanne-Mance (Level 6)

Chair: Marsha Richmond, Wayne State University

1. Mendelism and Eugenics in Vienna: Mendel's Rediscoverer Erich Tschermak-Seysenegg and His Active Involvement with Eugenics, Veronika Hofer, University of Vienna
2. 'Falling in Love Intelligently': Eugenic Love in the Progressive Era, Susan Rensing, University of Wisconsin, Oshkosh
3. From Organic Morphogenesis to Liberal Socialism: Eugenio Rignano and the "Centro-Epigenetic" Hypothesis of Heredity and Development, Maurizio Esposito, Leeds University, England
4. From 'Passive Confidence' to 'Neo-Romanticism'? The American Socialist Left and Popular Evolutionary Theory in The International Socialist Review, 1900-1918, James Fiorentino, University of Massachusetts, Amherst

Science in America before 1900

Grand Salon C (Level 4)

Chair: David Sepkoski, University of North Carolina, Wilmington

1. "What is the Consensus of Opinion as to...?": The Age of the Earth Debates and the Meaning of Scientific Consensus at the End of the 19th Century in America, Sylwester Ratowt, American Philosophical Society
2. Lester Frank Ward v. Othniel C. Marsh: Defining the Mesozoic, Debra Lindsay, University of New Brunswick
3. Knowing Nature, Knowing Gender, and Eating Turkey: Agriculture and Natural History in 19th-Century America, Neil Prendergast, University of Arizona

The Development of Biology in a Model Technocracy: Science and the Soviet Union

Grand Salon B (Level 4)

Chair: William C. Summers, Yale University

Commentator: Miklos Muller, Rockefeller University

1. The Cache Economy: Science, Capital and Socialism, Jenny Leigh Smith, Georgia Institute of Technology
2. Differing Scientific Visions Approach Climate Change: The Development of the Stalin Plan for the Transformation of Nature, Stephen Brain, Mississippi State University
3. Youthful Perceptions, Foreign Illusions: L.C. Dunn, J.B.S. Haldane, Julian Huxley and the Soviet Union, *William deJong-Lambert, The City University of New York and Columbia University

Saturday, 3:10 – 3:30

Coffee Break (Grand Salon Foyer)

Saturday, 1:30 – 5:00 PM

Poster Session - Grand Salon Foyer (Level 4)

1. An Analysis of Sturm's Theorem: "A rare example of simplicity and elegance" Emerging from a Network of Scientific Inquiry and Informing Further Innovation in Algebra, Frederick W. Sakon, Florida State University
2. From J. Winthrop, Jr. to E.E. Barnard: The Arduous Path to the First Sighting of the Fifth Satellite of Jupiter, François Wesemael, Université de Montréal
3. Organizing Knowledge: The Periodic Table in Popular Culture, Ann E. Robinson, University of Massachusetts, Amherst
4. Development and Senescence: Growing Up and Old and the Making of Biogerontology, 1900-1950, Hyung Wook Park, University of Durham
5. SPACE MADNESS: The Dreaded Disease That Never Was, Matthew H. Hersch, HSS-NASA Fellow in the History of Space Science
6. "Why does a human, a mammal, have to drink milk of cow, another mammal?"—Milk Myth, A Study on Milk Phenomena in Contemporary China Since 1980s, Song Tian, Beijing Normal University

7. The Role of Interferometry in the Aether Debate Throughout the 19th Century, Roberto A. Pimentel and Carlos B. G. Koehler, Universidade Federal do Rio de Janeiro

Saturday, 3:30 – 5:30 PM

Reexamining the Uneasy Partnership: Economics, the Nation State, and the Public Welfare, 1920s-1980s

(Sponsored by the Forum for the History of Human Science) - Grand Salon C (Level 4)

Chair and Commentator: Sarah Igo, Vanderbilt University

1. Re-Imagining Markets: The U.S. Consumer Movement and Federal Economists, 1920-1970, Thomas A. Stapleford, University of Notre Dame
2. What Doesn't Kill You Makes You Stronger: Patrons, Public Image, and Research in Economics, 1970-1985, Tiago Mata, University of Amsterdam
3. To Measure, Monitor, and Manage the Nation's Social Progress: U.S. Senator Walter Mondale's Initiative to Create a Council of Social Advisers, 1967-1974, *Mark Solovey, University of Toronto

Seeds of Change: Agricultural Production, Commercial Interests, and the Science of Breeding, 1850-1940

Alfred-Rouleau A (Level 4)

Chair and Commentator: Daniel Kevles, Yale University

1. Prolific: Valuing Proprietary Staple Varieties in 19th-Century America, Courtney Fullilove, Columbia University
2. From Farm to Can: The Canning Industry and Agricultural Production in the Early 20th Century, Anna Zeide, University of Wisconsin, Madison
3. Breeding the Roentgen Regal Lily: Agricultural and Horticultural Research at the General Electric Laboratory, 1930-1940, *Helen Anne Curry, Yale University

Seventeenth-Century Amsterdam as a Site of Knowledge

Alfred-Rouleau C (Level 4)

Chair and Commentator: Harold Cook, Brown University

1. Cultures of Collecting and Communities

of Discourse in 17th-Century Amsterdam, Eric Jorink, Huygens Institute (Royal Dutch Academy of Arts and Sciences)

2. Maths and the City. Positioning the Teaching of Elementary Mathematics in 17th-Century Amsterdam, Tim Nicolaije, University of Twente, the Netherlands
3. Mobilizing Learning for Urban Affairs in Golden Age Amsterdam, *Fokko Jan Dijksterhuis, University of Twente, the Netherlands

From Wartime Experience to “Big Science” in Asia (1931-) - Alfred-Rouleau B (Level 4)

Chair: Tae-ho Kim, D. Kim Foundation

Postdoctoral Fellow, Columbia University

1. Patriots' Pancake: War and Nutrition Science in Wartime China, 1931–1945, Seung-Joon Lee, National University of Singapore
2. Dependent on the Enemy's Path: Japanese Fertilizer Factories and Synthetic Fiber Industry in North Korea, Tae-ho Kim, D. Kim Foundation Postdoctoral Fellow, Columbia University
3. “Going Nuclear?”: From AERI to KAERI, 1955-1978, the South Korean Case of Nuclear Energy, *John DiMoia, National University of Singapore
4. A Space Science Virtuoso in Japan: The Historical Evolution of the Institute of Space and Astronautical Science, Yasushi Sato, National Graduate Institute for Policy Studies, Japan

Losing Arguments in Early Modern Science

Mont-Royal (Level 6)

Chair: James Byrne, Princeton University

1. Cure-All or Helpful Herb? Debates about the Panacea in Early Modern Europe, Alisha Rankin, Tufts University
2. The Sudden Death of the Burning Salamander, Nicholas Popper, College of William and Mary
3. ‘Trials about the Art of Flying in the Air’: The Possibility of Flight in the 17th Century, Natalie Kaoukji, University of Cambridge
4. Too Metaphysical or Too Naturalistic? Critiques of 17th-c. Aristotelianism, *Craig Martin, Oakland University

Episodes in Early Science

Été des Indiens (Level 6)

Chair: Pamela Long, Independent Scholar

1. Foundations of an Ancient Optical Textbook, Al-Bas 'ir F 'Ilm Al-Man zir, Comparing with Today's Textbooks and Major Books of Optics Before it, Maryam Farahmand, University of Tehran
2. Mechanics in the Aristotelian Physical Problems, Jean De Groot, Catholic University of America
3. Science and Instruments: Levi ben Gerson's (1288–1344) Pinhole Camera, Yaakov Zik, University of Haifa
4. "You Asked Me, Princess, how Thunder and Lightning Happen": Byzantine Science and Learning in the 11th and 12th Centuries, Anne-Laurence Caudano, University of Winnipeg
5. Determinism in Abu Ma'shar's Defense of Astrology, Teri Gee, University of Toronto

Darwin on Reason and Method

Salon des Arts (Level 6)

Chair: Robert Richards, University of Chicago

1. Charles Darwin and the Natural History of Reason, Kathryn Tabb, University of Pittsburgh
2. Darwinian Evolution: An Implication Regarding the Scientific Method Itself, G. Arthur Mihram, Princeton, NJ; Danielle Mihram, University of Southern California
3. Darwin and Wallace on Morals and Ethics: Two Different Views from Natural Selection, Rosaura Ruiz Gutierrez, School of Sciences, National Autonomous University of Mexico
4. Darwin's Rhetorical Use of Methodological Naturalism in *The Origin of Species*, Stephen C. Dille, St. Edward's University
5. The Rhetoric of Probability: How Darwin Overcame the Argument from Design, Daniel A. Newman, University of Toronto

Revisiting the Beginning of Modern Science

Hospitalité (Level 5)

Chair: Robert Westman, University of California, San Diego

1. The Scientific Revolution: The Master Narrative Replaced, H. Floris Cohen, University of Utrecht, the Netherlands
2. The Reception of Descartes' Machine Psychology in Medical Writers and Natural Philosophy, Gary Hatfield, University of Pennsylvania

3. Kepler's Notion of Empirical Value, Jonathan Regier, Université Paris 7
4. Thomas Hobbes on Simple Conceptions & the Nature of Science, Marcus P. Adams, University of Pittsburgh

Natural History, Bugs and Plants

Jeanne-Mance (Level 6)

Chair: Nicholas Dew, McGill University

1. Between Love and Science: Apicultural Research and Ethical Beekeeping in the British Isles, c. 1750-1850, Adam Ebert, Mount Mercy College
2. "A Treatise of Buggs": The Use and Re-Use of Natural History in 18th-Century England, Jennifer Steenshorne, Columbia University
3. Newtonian Vegetables and Perceptive Plants, Susannah Gibson, University of Cambridge

Saturday, 4:00 – 6:00 PM

Taming the Information Beast

Argenteuil (Level 5)

Chair: Staffan Müller-Wille, University of Exeter
Organizers: Isabelle Charmantier, University of Exeter, and Bruno Strasser, Yale University

1. Natural History and Information Overload: the Case of Linnaeus, *Isabelle Charmantier, University of Exeter
2. The Search for Order and the Order of Search: Archiving Species in Print circa 1900, Alex Csizar, Harvard University
3. Staying Afloat in the 'Flood of New Information:' Computers in America's Cold War Scientific Data Crisis, Joseph November, University of South Carolina

Industrial Food and the Biopolitics of

Nutrition Science

Picardie A (Level 5)

Chair and Organizer: Helen Veit, Michigan State University

Commentator: John Waller, Michigan State University

1. Electric Dairyland: Science, Technology and Milk Production in Britain, 1850-1940, Christopher Otter, Ohio State University
2. The Cultural Algebra of Nutrition: Rational Eating & Dietary Substitution in the Progressive Era, *Helen Veit, Michigan State University

3. **Killer Carbs? The Biopolitics of Amylophobia from Graham to Gluten-Free,** Aaron Bobrow-Strain, Whitman College

Saturday, 5:00 – 6:00 PM

Committee on Research and Profession Meeting

Touraine (Level 5)

Saturday, 6:00 – 7:00 PM

HSS Distinguished Lecture

Jeanne-Mance (Level 6)



Nancy Siraisi,
(Distinguished Professor Emerita in History at Hunter College and at the Graduate Center, City University of New York)

What Was Medicine 1450-1620 and What

Did It Have To Do with Science? Introduction by Ann Blair, Harvard University, Henry Charles Lea Professor of History

Saturday, 7:30 – 9:30 PM

HSS/PSA Joint Dinner – Complexe Desjardins (central fountain area off of level 4)

Wine for this dinner is provided by an anonymous donor in honor of Allan Rex Sandage, maven of the Hubble constant

The Complexe Desjardins in downtown Montréal houses the offices of several companies, including the Desjardins bank (the largest association of credit unions in North America, founded in 1900) and some branches of the Québec government. It also houses the Hyatt Regency Hotel, this year's HSS/PSA meeting location. Especially useful in winter, the Complexe is an important node in Montréal's underground city (RÉSO), the largest indoor "city" in the world. The large atrium built at the center of the Complexe, where the HSS/PSA dinner will be held, is used year round to host a variety of spectacles and exhibitions, record television shows, and launch music records from Québécois artists. Spacious, multifunctional, and well sunlit, this atrium has become over time a carrefour of Montréal's cultural and community life. We have chosen the Atrium because it is the

only venue close to the hotel that could fulfill the capacity requirements of the HSS-PSA for the Saturday-night event.

FALL BACKWARDS

(PLEASE NOTE: Montréal will switch back to EST time Sunday morning. Move your watches back one hour.)

SUNDAY, November 7, 2010

Sunday, 9:00 – 10:00 AM

HSS Business Meeting (Please see agenda on page 43) - Picardie B (Level 5)

Sunday, 10:00 – 12:00 PM

Opportunities and Challenges: Plants and Evolution (1920-1950)

Hospitalité (Level 5)

Chair and Commentator: Vassiliki (Betty) Smocovitis, University of Florida

1. Where Are the Plants? Simpson's 'Tempo and Mode,' Evolutionary Studies and Paleobotany, *Dawn M. Digrius, Stevens Institute of Technology
2. Systematics and the Origin of Species from Edgar Anderson's Viewpoint, Kim Kleinman, Webster University
3. The Sociology of Plants and Neo-Darwinism in the Twentieth Century, Adam Lawrence, University of California, Los Angeles

Medicine, Science, and the Stomach, 1540-1840

Salon des Arts (Level 6)

Chair and Organizer: Elizabeth Williams, Oklahoma State University

1. Fat, Dumb, Slow, and Prone to Sudden Death: Obesity in Early Modern Medicine, Michael Stolberg, University of Würzburg
2. The Ghastly Kitchen, Anita Guerrini, Oregon State University
3. Martyrs to the Stomach: Self-Experiment in the Science of Digestion of the Late 18th Century, *Elizabeth Williams, Oklahoma State University
4. The Burning Pleasures of Gastro-Chic: Modern Stimulants, Health, and the 'Nervous Temperament' from Lorry to Balzac, Anne C. Vila, University of Wisconsin, Madison

Gendering the Human Brain: Science, Language, and Sex Difference in the 19th and 20th Centuries - Été des Indiens (Level 6)

Chair and Commentator: Sarah S. Richardson, Harvard University

1. Woman, Know Thyself: Gender, Phrenology, and the Female Brain, Carla J. Bittel, Loyola Marymount University
2. Helen Hamilton Gardener's Brain: Contested Understandings of Brain Science and Feminist Applications of the Scientific Method, *Kimberly A. Hamlin, Miami University of Ohio
3. Silas Weir Mitchell's Nervous Malady and its Influence on the Rest Cure, Anne M. Stiles, Washington State University
4. Transgendered Cells: A History of Metaphors about Astrocytes, Meg Upchurch, Transylvania University

Once Bitten, Twice Shy? Early Modern Naturalists, Insects, and Animals

Jeanne-Mance (Level 6)

Chair and Commentator: Paula Findlen, Stanford University

1. The Body of the Animal: 'Hunting Epistemology' and the Study of Animals in Early Modern Europe, Massimo Petrozzi, The Johns Hopkins University
2. John Donne's Flea and Robert Hooke's Louse: What Vermin Meant in 17th-Century England, *Lisa T. Sarasohn, Oregon State University
3. Insect Theology: Friedrich Christian Lesser, Pierre Lyonet, and the Intersection of Enlightenment Natural History and Natural Theology, Brian Ogilvie, University of Massachusetts, Amherst

Computers as Scientific Instruments: Technologies, Scientific Practices, and Social Structures - Picardie A (Level 5)

Chair: Adelheid Voskuhl, Harvard University
Commentator: Andrew Russell, Stevens Institute of Technology

1. Recipes for Any Occasion. Computational Chemistry and the Desktop Computer, Johannes Lenhard, Bielefeld University, Germany
2. Splitting and Optimizing in Mathematics and Politics: The History of "Lions-Marchuk" Cooperation in Numerical Methods (1966-1993), Ksenia Tatarchenko, Princeton

University

3. A Not-so-Short History of Computational Science: Building a Scientific Discipline in the Digital Age, *Ann Johnson, University of South Carolina

Scientific Organizations and Research Practices in Nationalist Times - Argenteuil (Level 5)

Chair and Commentator: Jeffrey Johnson, Villanova University

1. Research Divisions in Imperial Germany, an Organizational Scheme for War and Peace, *Jeremiah James, Fritz Haber Institute
2. Materials, Methods, and Management: The Kaiser-Wilhelm-Institute for Physical Chemistry Under the National Socialists, Thomas Steinhauser, Fritz Haber Institute
3. Survey as Resource: The Geological Survey of China and Scientific Nationalism, 1928-1949, Grace Shen, Princeton University

Science, Identity and Race

Anjou A/B (Level 5)

Chair: John Carson, University of Michigan

1. Gender Conservatism and Racial Liberalism in US Psychiatry: Dr. Viola W. Bernard and the Community Service Society of Harlem, 1943-1945, Dennis A. Doyle, Mississippi State University
2. Personalized Medicine or Scientific Racism? The Persistence of the Genetic Theory of Race and its Modern Day Tuskegee, Andrea Patterson, California State University, Fullerton
3. We can't relocate the world: Activism and the Bravo Medical Program, Laura Harkevicz, University of California, San Diego

Expeditions, Imperialism and Science

Alfred-Rouleau A (Level 4)

Chair: Pnina G. Abir-Am, Brandeis University

1. "Botanical Monroe Doctrine" in Puerto Rico: Contours of American Imperial Scientific Expeditions and Research Stations, 1898-1933, Darryl E. Brock, Fordham University
2. Imperialism and Mathematics, Kevin Lambert, California State University, Fullerton
3. A School for Naturalist Voyagers in the Jardin des Plantes: Field Science During the "Golden Age" of French Natural History

(1796 – 1850), Antony Adler, University of Washington

4. Intersecting Worldviews: Ricci World Maps in China, Ying Jia Tan, Yale University

Knowledge and Politics of Climate in the Eighteenth and Nineteenth Centuries

Auteuil A/B (Level 5)

Chair: Miruna Achim, Universidad Autonoma de Mexico

Commentator: Jean-François Gauvin, McGill University

1. Climate, Biopolitics and the Environmental Reflexivity of Modernity (18th and 19th Centuries France), *Jean-Baptiste Fressoz, Harvard University
2. Hippocratism and Urban Reform: Mexico City and Lima, Late 18th Century, Miruna Achim, Universidad Autónoma Metropolitana
3. Deforestation, Climate Changes and the Environmental Heritage of the French Revolution, Fabien Locher, Centre national de la recherche scientifique, Paris