Science, Technology, and Medicine in East Asia: Policy, Practice, and Implications in a Global Context

October 7–9, 2011
The Ohio State University
Conference Background

For more than thirty years, James Bartholomew has been leading the field of the history of Japanese science. His award-winning monograph, *The Formation of Science in Japan: Building a Research Tradition*, laid the groundwork for countless subsequent studies of Japanese science. Since arriving at The Ohio State University in 1971, he has directly supervised ten graduate students, not to mention countless others whom he has helped along the way. For Dr. Bartholomew, research and teaching have been at the core of his mission at Ohio State. An indefatigable and internationally recognized scholar, Jim is also the winner of the College of Arts and Sciences Outstanding Teacher Award.

To celebrate and honor Dr. Bartholomew’s distinguished career and dedication to training the next generation of scholars and teachers, we believe that there can be no better tribute to our mentor than a conference that recognizes his life’s work. “Science, Technology, and Medicine in East Asia: Policy, Practice, and Implications in a Global Context” does just that.

Dr. Bartholomew has trained scholars in the history of Japanese science, technology, medicine, and business. Some focus primarily on Japan, others have adopted a trans-national approach or have moved beyond the “traditional boundaries” of science, technology, or medicine incorporating political, military, and cultural history in their STM scholarship. In short, this conference not only honors Dr. Bartholomew’s career, it is a reflection of it.

The special exhibit is the work of Jim’s wife, Maureen Donovan, Associate Professor of Special Collections and Area Studies and Japanese Studies Librarian at The Ohio State University.
An endeavor of this magnitude could not be possible without the commitment of many individuals and institutions. Dr. Bartholomew’s former graduate students, lovingly known as “the cabal” form the majority of the conference committee. They are:

David Blaylock (Eastern Kentucky University)
Walter Grunden (Bowling Green State University)
Christienne Hinz (Southern Illinois University-Edwardsville)
Norihito Mizuno (Akita International University)
Takashi Nishiyama (State University of New York at Brockport)
Sumiko Otsubo (Metropolitan State University)
Roberto Padilla (University of Toledo)
David Wittner (Utica College)

An invaluable member of the conference committee, Jim’s friend and colleague, Professor Philip C. Brown, has been tireless in his contributions to this conference. Beyond being our “man on the ground,” his experience, input, and drive have made this conference a success.

We would also like to thank the following people who have also contributed in various ways to the conference Chris Burton, Candice Ossowski, Chris Aldridge, Mitchell Shelton, Connie Fiveash, Joni Pulliam, Courtney Sanders, Cathy Becker, Janet Stucky Smith, and the graduate students: Will Chou, Kevin Fujitani, Craig Nelson, Ryan Schultz, Daniel Curzon, Frank Blazich.
Conference Program

Friday, October 7
5:00-8:00 p.m.*

Conference Registration
and
Welcome Reception

The Barrister Club*
Moritz College of Law
25 West 11th Avenue
Columbus, OH 43201

Saturday, October 8
7:30—8:15 a.m.

Registration: Mershon Center

Conference Venue

Mershon Center for International Security Studies
1501 Neil Ave.
Columbus, OH 43201

Panels will be held in rooms 120, 204, and 320
Plenary Address is in Room 120

*Note Different Location
Panel 1a. Medicine in East Asia (Mershon 120)
Chair: Christiennne Hinz, Southern Illinois University Edwardsville

Norihito Mizuno, Akita International University

“The Politics of Manic-Depression in Colonial Japan”
Janice Matsumura, Simon Fraser University

“Threat of Crowds and Blocked Waterways: Epidemics and Cities in Song China (960-1279)”
Yun-ju Chen, Oxford University

Discussant: Yuki Terazawa, Hofstra University

Panel 1b. Science and Technology in War and Peace (Mershon 204)
Chair: Walter Grunden, Bowling Green State University

“The Emperor’s Chemist at War and in Peacetime: Joji Sakurai during the Russo-Japanese and First World Wars”
Yoshiyuki Kikuchi, Harvard University

“Germany and the Development of Japan’s Aviation in the Interwar Period”
Jurgen Melzer, Princeton University

“Quiet War at Home: Inter-service Rivalry in the Japanese Military, 1919-42”
Takashi Nishiyama, State University of New York at Brockport

Discussant: Walter Grunden, Bowling Green State University

Chair: David Blaylock, Eastern Kentucky University

“Freedom of the Press at a Time of War: Taishō Democracy and the Influenza Pandemic of 1918”
Sumiko Otsubo, Metropolitan State University

“When Precision Obscures: Disease Categories Related to Cholera during the Sino-Japanese War”
Roberto Padilla, University of Toledo

“Cholera and Buddhism in Meiji Japan”
William Johnston, Wesleyan University

Discussant: Kevin Doak, Georgetown University
Panel 2a. East Met West: Japan at the Turn of the 20th Century (Mershon 120)
Chair: Takashi Nishiyama, State University of New York at Brockport

“Class and Identity in Engineering Education: A Case of the Imperial College of Engineering in Tokyo, 1871-1886”
Masanori Wada, Tokyo Institute of Technology

“La Science, Mon Garcon, Est Faite d’Erreurs’: Suzuki Umetaro and His Career in Agricultural Chemistry”
Kevin Fujitani, The Ohio State University

“Learning the New Time: Reading Western Clocks in Bakumatsu Japan”
Yulia Frumer, Princeton University

Panel 2b. Help or Hindrance? State, Society, and Technology in Meiji Industrialization (Mershon 204)
Chair: David Blaylock, Eastern Kentucky University

“The March Forward: The Mechanization of Shoe Production in Meiji Japan”
Martha Chaiklin, University of Pittsburgh

“Technique or System? Assessing Technology Transfer in Japan’s Textile Industry”
David Wittner, Utica College

“Academic-Industry Relations: Interpreting the Role of Nagai Nagayoshi in the Development of New Businesses in the Meiji Period and Beyond”
Julia Yongue, Hosei University

Panel 2c. Science, Technology, Medicine, and Empire (Mershon 320)
Chair: Lisa Onaga, University of California-Berkeley

“Coke, Christ, and the Japanese Empire”
Aleksandra Majstorac-Kobiljski, Centre National de la Recherche Scientifique

“Science and Politics of Physiological Genetics in Wartime Japan”
Kaori Iida, Sokendai

John DiMoia, National University of Singapore
Panel 3a. Creating Scientific and Medical Knowledge in East Asia (Mershon 204)
Chair: Norihito Mizuno, Akita International University

“Contesting a New Medical Gaze on the Body”
Shin Kwon Kim, University of Oxford - Wellcome Unit

“A Study of Experimental Technology and Scientific Technology Exemplified by Chinese and Western Medicine”
Song Tian, Beijing Normal University

“Malt, Amylo and Koji: Scientific Traditions in Modern Japanese Alcohol Manufacture”
Victoria Lee, Princeton University

Panel 3b. Medicine, Bodies, Empire, War and Its Aftermath (Mershon 120)
Chair: Sumiko Otsubo, Metropolitan State University

“Bottoms and Bathrooms: Hemorrhoids, Medicine, and Toilet Construction in Japanese History, 984-1965”
Alexander Bay, Chapman University

“War, Democracy, and the Historiography of the Health Centre in Modern Japan, c. 1930-1950”
Akihito Suzuki, Keio University

“A Colony or a Sanitarium? A Comparative History of Segregation Politics of Hansen’s Disease in Modern Japan”
Waka Hirokawa, Osaka University

Discussant: Brett Walker, Montana State University
Panel 3c. Science and Medicine in Modern Japan (Mershon 320)
Chair: Christienne Hinz, Southern Illinois University Edwardsville

“The Mongolian Spot of Dr. Baelz: German Medicine and its Contributions to the Racial Discourse in Meiji Japan”
Rotem Kowner, University of Haifa

“They are not Human’: Medical and Literary Interventions into Hansen’s Disease Patient Writing”
Kathryn Tanaka, University of Chicago

“New Polity and New Survey: Statisticians’ Discussion on the Census in Meiji Japan”
Akiko Ishii, Cornell University

“TechNation: The Postwar Development of a ‘New Japan’”
Jessamyn Abel, Pennsylvania State University

Japanese Science, Technology and Medicine:
Visual Resources for History in Collections of The Ohio State University Libraries
Thompson Library*

Dr. Sharon Traweek
University of California-Los Angeles

“Japanese Scientists and Global Science Policies: Building Trust, Commons, and Civil Society”
The Ohio State University Faculty Club*
181 S. Oval Mall

*Note Different Location
4a. Science, Technology, and the Environment (Mershon 204)

Chair: Christienne Hinz, Southern Illinois University Edwardsville

“Brute Force Technologies in Early Modern Japan: The Case of Flood Hazard Amelioration”
Philip Brown, The Ohio State University

“Japanese Answers to Global Climate Questions”
Julia Adeney Thomas, University of Notre Dame

“The Domestic Turn in Japanese Environmental Writing”
Christine Marran, University of Minnesota


Chair: Roberto Padilla, University of Toledo

“The World through the School Experiment Room: The 1910s Science Education Movement in Japan”
Hiromi Mizuno, University of Minnesota

“Scientific Domesticity and Cold War Militarism in the U.S. Occupation of Okinawa, 1945-1972”
Mire Koikari, University of Hawaii

Aya Homei, University of Manchester

Panel 4c. Nuclear Japan: Research and 3/11 Crisis (Mershon 120)

Chair: David Wittner, Utica College

“Building a Research Tradition in Japanese Physics”
Kenji Ito, Sokendai

“From Atomic Bombs to Fukushima: Japanese Experiences of Atomic Radiation on Humans”
Tomoko Steen, Library of Congress

“The Interplay of Knowledge and Power in the History of Nuclear Power Plant Accidents in Japan and the Fukushima Disaster”
Yuki Terazawa, Hofstra University
Participants

Jessamyn Abel, Session: 3c
Pennsylvania State University

Alexander R Bay, Session: 3b
Chapman University

James R. Bartholomew, Plenary Session
The Ohio State University

David W. Blaylock, Sessions: 1c, 2b
Eastern Kentucky University

Philip C. Brown, Session: 4a
The Ohio State University

Wung Seok Cha, Session:
Kyung Hee University, Korea

Martha Chaiklin, Session: 2a
University of Pittsburgh

Yun Ju Chen, Session: 1a
Oxford University

John P. DiMoia, Session: 2c
National University of Singapore

Kevin M. Doak, Session: 1c
Georgetown University

Yulia Frumer, Session: 2a
Princeton University

Kevin Fujitani, Session: 2a
The Ohio State University

Walter Grunden, Session: 1b
Bowling Green State University

Christienne Hinz, Sessions: 1a, 3c, 4a
Southern Illinois University Edwardsville

Aya Homei, Session: 4b
University of Manchester

Waka Hirokawa, Session: 3b
Osaka University

Kaori Iida, Session: 2c
Graduate University for Advanced Studies (Sokendai)

Akiko Ishii, Session: 3c
Cornell University

Kenji Ito, Session: 4c
Sokendai

William Johnston, Session: 1c
Wesleyan University

Yoshiyuki Kikuchi, Session: 1b
Harvard University

Shin Kwon Kim, Session: 3a
University of Oxford – Wellcome Unit

Mire Koikari, Session: 4b
University of Hawaii at Manoa

Rotem Kowner, Session: 3c
University of Haifa

Victoria Lee, Session: 3a
Princeton University

Aleksandra Majstorac-Kobiljski, Session: 2c
Centre National de la Recherche Scientifique

Christine Marran, Session: 4a
University of Minnesota

Janice Matsumura, Session: 1a
Simon Fraser University

Juergen Melzer, Session: 1b
Princeton University
Hiromi Mizuno, Session: 4b  
University of Minnesota, Twin Cities

Norihito Mizuno, Session: 1a, 3a  
Akita International University

Takashi Nishiyama, Sessions: 1b, 2a  
State University of New York, Brockport

Lisa Onaga, Session: 2c  
UCLA

Sumiko Otsubo, Sessions: 1c, 3b  
Metropolitan State University

Roberto Padilla, Sessions: 1c, 4b  
University of Toledo

Tomoko Steen, Session: 4c  
The Library of Congress

Akihito Suzuki, Session: 3b  
Keio University

Kathryn Tanaka, Session: 3c  
University of Chicago

Yuki Terazawa, Sessions: 1a, 4c  
Hofstra University

Julia Adeney Thomas, Session: 4a  
University of Notre Dame

Song Tian, Session: 3a  
Beijing Normal University

Sharon Traweek, Keynote Address  
University of California- Los Angeles

Masanori Wada, Session: 2a  
Tokyo Institute of Technology

Brett Walker, Session: 3b  
Montana State University, Bozeman

David Wittner, Sessions: 2a, 4c  
Utica College

Julia Yongue, Session: 2a  
Hosei University

The committee wishes to thank everyone at OSU in the History Department, the Mershon Center and the Institute for Japanese Studies who have worked very hard during the planning stages and throughout the weekend to ensure the success of this conference.

David Blaylock  
Walter Grunden  
Christienne Hinz  
Norihito Mizuno  
Takashi Nishiyama  
Sumiko Otsubo  
Roberto Padilla  
David Wittner
This conference has received generous support from many institutions, all of whom we thank.

Association for Asian Studies - North East Asia Council
The Mershon Center for International Security Studies - The Ohio State University
East Asian Studies Center/Institute for Japanese Studies - The Ohio State University
Office of International Affairs - The Ohio State University
College of Arts and Humanities - The Ohio State University
Department of History - The Ohio State University
Department of History - Eastern Kentucky University
Office of Institutional Advancement - Utica College

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Keynote Address and Conference Dinner
Faculty Club
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