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Samples from the Curiosity Cabinet,
Courtesy of the Berlin Medical History
Museum. Photo: Jan Kaminski



Joint Activities

Research Network

History of Scientific Objects

MPIWG ORGANIZERS *Lorraine Daston, Jürgen Renn, Hans-Jörg Rheinberger*

Website: <http://scientificobjects.mpiwg-berlin.mpg.de>

The Max Planck International Research Network “History of Scientific Objects” was established in September 2005 with the participation of twelve leading institutions for the history of science in Europe and the U.S.A. The aim of this five-year collaboration is to explore scientific objects: as things, images, and as concepts. The research network concept goes back to an initiative by the Max Planck Society to fund co-operations between Max Planck Institutes and other research institutions on an ad-hoc basis with the aim of accelerating development in new and exceptionally promising areas of investigation. Exploring the material culture of the history of science, the network is pursuing an integrated interdisciplinary approach to the topic, involving junior and senior academics worldwide.

Network projects not only deal with the character of individual objects, but also with questions concerning the preservation, collection and representation of objects. To this end, the Network aims at inspiring collaboration between scholars based at museums and academic historians of science. The Network welcomes and supports different kinds of publications, such as joint articles, mini-exhibitions or object-galleries in websites.

The MPIWG continues to provide the organizational base of the Network. All three departments as well as the library and the it-group are supporting the various projects. As part of its input into the Network the MPIWG funds two post-doc fellowships every two years. Additionally the Institute hosts Network workshops, meetings of working groups. The Network supports visiting scholars at different ‘stations’ of the Network. For example, Carsten Reinhardt worked in Paris on “Boundary Values,” and Francesco de Ceglia pursued his research on the “Signs of Death” at the MPIWG. The input of the Network Members varies and includes privileged access to collections as well as co-organization of events.

2008 saw the second General Meeting of Network Members in Berlin, which provided an intra-network forum for retrospection as well as the discussion of future projects and on which the agenda for the second half of the Research Network was set.

Given the two main purposes of a research network—to facilitate exchange between scientific personnel and try out new formats of scientific exchange—it was generally agreed the network has been quite successful in experimenting with and creating new formats. The Wandering Seminar in particular created, and profited from, considerable synergy between its members and easily attracted co-operation-partners. As a follow-up, if on a much smaller scale, the Invisible Seminar was set up to bring junior and senior scholars together in experimenting with the concept of object-biography (s. below). Other successful formats such as the Research Colloquium on Epistemic Objects and the Hands-on Workshop on Microscope Slides were continued; collective publications are planned.

One of the members' resolutions was for the projects and the network to be made more visible as a whole. Consequently, the network website witnessed a complete relaunch in 2009 to bridge the diverse Network projects and provide scholars with privileged access to material such as specified bibliographies. 2010 will see a final event in co-operation with the Berlin Science Year.

Cooperation with project partners, especially scholars based at museums, intensified over the last two years. New partners, such as the Institute Pasteur, were won for individual projects.

Network Members

- *Prof. Günter Abel*, Technical University, Berlin
- *Prof. Jochen Brüning*, Humboldt University Berlin
- *Prof. Lorraine Daston*, MPIWG
- *Prof. John Forrester**, University of Cambridge
- *Prof. Peter Galison*, Harvard University, Cambridge
- *Prof. Paolo Galluzzi*, Institute and Museum of the History of Science, Florence
- *Prof. Michael Hagner*, ETH Zurich
- *Dr. Nick Hopwood*, University of Cambridge
- *Prof. Friedrich Kittler*, Humboldt University Berlin
- *Prof. Eberhard Knobloch*, Technical University, Berlin
- *Prof. Wolfgang Krohn***, University of Bielefeld
- *Prof. Thomas Macho*, Humboldt University Berlin
- *Prof. Everett Mendelsohn*, Harvard University, Cambridge
- *Prof. Dominique Pestre*, Ecole des Hautes Etudes en Sciences Sociales, Paris
- *Prof. Claudio Pogliano*, University of Pisa
- *Prof. Carsten Reinhardt***, University of Bielefeld
- *Prof. Jürgen Renn*, MPIWG
- *Prof. Hans-Jörg Rheinberger*, MPIWG
- *Prof. Simon Schaffer*, University of Cambridge
- *Dr. Christian Sichau*, Deutsches Museum, Munich
- *Prof. Jacob Tanner*, University of Zurich
- *Prof. Helmuth Trischler*, Deutsches Museum, Munich
- *Prof. Peter Weingart*, University of Bielefeld

* Professor John Forrester kindly took up the position after the death of Professor Peter Lipton in 2007.

** Professor Wolfgang Krohn having been awarded emeritus status, Professor Carsten Reinhardt was elected new network member in May 2008.

History of Scientific Objects

Working Groups**The Past of Science's Present and Future**

MEMBERS *Peter Galison* (Harvard University), *Wolfgang Krohn* (University of Bielefeld), *Carsten Reinhardt* (University of Bielefeld) *Dominique Pestre* (EHESS, Paris), *Simon Schaffer* (University of Cambridge), *Peter Weingart* (University of Bielefeld)

Right after the foundation of the Network Dominique Pestre was invited by the Science, Economy and Society Directorate of the European Commission's Research DG to organize an exploratory workshop "to tackle the questions of the interrelationships of sciences and politics through various historical situations." The aim of the workshop and its report to the Directorate was to give some input into policy making at EU level about science and/in society. Other Network Members involved in this workshop were Simon Schaffer, Peter Galison, Peter Weingart and Helmut Trischler. In the context of the Network the Working Group set up a series of workshops on the interface of science and governmentality, with one subgroup (mainly Dominique Pestre and Peter Weingart) focusing on neo-liberal forms of government today, and the other (Simon Schaffer, Peter Galison) taking a more historical approach. The first activity was an intense, international one-day discussion at the Centre Alexandre Koyré in Paris in June 2007, on the relation of politics to the history of science. In May 2008 an open discussion workshop was set up to document the forms of *Governance of and through Science* that recently developed (s. below). The working group aimed at building political and social genealogies of these concepts and tools, to consider where they come from, who promoted them, how they are/were concretely put into use, how they transform/ed social practices.

The group proposed to re-do this workshop in diverse settings and for different historical moments.

Images as Scientific Objects

MEMBERS *Lorraine Daston* (MPIWG), *Michael Hagner* (ETH Zurich), *Claudio Pogliano* (University of Pisa), *Hans-Jörg Rheinberger* (MPIWG), *Renato Mazzolini* (University of Trento)

Though scientific discourse on images is widely spread over several disciplines, with reference to images as scientific objects the working group found two areas of research still underdeveloped: the conditions of material production of images and the mode of visual thinking.

After an initial meeting with intense theoretical discussions the group decided to go on with two projects, one applying the biographical approach to the history of individual images and the other one putting visual thinking to the test by having the same image interpreted by scholars from different disciplines

The *Invisible Seminar* brought together ten junior scholars from various disciplines, chosen by Network members, who each develop and present the biography of a cho-

sen image. Between two meetings with members of the working group in Berlin and Pisa, the seminarians discussed their approaches virtually.

The Workshop on Visual Thinking as a mode of scientific reasoning is planned to take place in Castasegna in September 2010.

Epistemic Objects

MEMBERS *Günter Abel* (Technical University, Berlin), *Uljana Feest* (Technical University, Berlin), *Thomas Macho* (Humboldt University Berlin), *Jürgen Renn* (MPWIG), *Hans-Jörg Rheinberger* (MPIWG), *Claudio Roller* (Technical University, Berlin)

When something attracts our epistemic curiosity, we may refer to it as an epistemic object. In the sciences, epistemic objects are the fundamental objects of research. But what is the relationship between epistemic objects in the sciences and our pre-scientific notions of them? What is the difference between an epistemic and a scientific object, between an object and a thing? In order to provide a common discussion ground for historians of science as well as historians of art and philosophers, the group started by admitting and discussing several notions of “epistemic objects.” A series of research colloquia has been set up, the first of which dealt a. o. with the dynamics of *Epistemic Objects* as well as their relations to signs and modeling (s. below). A second colloquium on the concept of *Challenging Objects* is being planned for January 2010. The concluding event in autumn 2010 will focus the *On the Concept of the Thing*. A selection of lectures given at these workshops will be published in the series “Berlin Studies in Knowledge Research.”



Wallcharts in the Teaching Collection of the Zoological Institute, Humboldt University of Berlin. Photo: Jan Kaminski

Collections and Collecting

MEMBERS *Paolo Galluzzi, Helmuth Trischler* (Deutsches Museum, München), *Christian Sichau* (Deutsches Museum, München), *Friedrich Kittler* (Humboldt University, Berlin).

As a central project of the Network, an international conference on the topic *The Exhibition as Product and Generator of Scholarship* was set up in Munich November 2008, co-financed and co-organized by the Deutsches Museum. The basic hypothesis of the group was that exhibitions do more than merely visualize the results of research. They have the potential of stimulating scholarship and generating knowledge by posing new research questions. The conference investigated the exhibition not only as publication medium for a wider audience, but as forum to exchange scientific expertise. Organizationally, the group identified integrating scholars working at the museum as a major task of the Network, therefore one of the main aims of the conference was to get different communities, historians of art and science, curators and exhibitions makers, involved.



“Backstage”, Courtesy of the Natural History Museum, Berlin. Photo: Jan Kaminski

Projects 2008–09

Microscope Slides: Reassessing a neglected historical resource II

Website: <http://scientificobjects.mpiwg-berlin.mpg.de/scientificobjects/Slides>

Joint Workshop, 19–21 March 2009, Paris, Institut Pasteur

ORGANIZER *Ilana Loewy* (CERMES, Paris) and *Annick Opinel* (Institut Pasteur, Paris)

NETWORK MEMBERS INVOLVED *Hans-Jörg Rheinberger* (MPIWG)

The first Workshop in Berlin in 2007 had established microscope slides not only as a neglected resource in the history of science, but also as fascinating epistemic problem, due to their intermediary status: Slides are at the same time “things in themselves” (samples of biological material), “preparations” (artifacts), and “representations” (stabilized images of the studied objects). Similarly, collections play a key role in the uses of slides as depositories of existing scientific knowledge and as tools for the production of new knowledge. The second slide workshop was therefore dedicated to the collection, classification, conservation and circulation of slides. It discussed the origins of microscope slide collections, their architecture, material organization and links with other collections of biological materials, including the ethical questions that are raised by these collections. Participants also examined how slide collections connect numerous communities of practitioners and multiple social worlds. Collections of slides may be likened to Foucault’s ‘dispositif’: a network that links a heterogeneous assembly of discourses, practices, institutions, concepts and policies. These ‘dispositifs’ produced and continue to produce new ways to understand and modify living organisms, including humans.

The workshop was based on pre-circulated papers, and included discussion of papers by invited chairs, but also some ‘hands on’ activities such as visits to collections at the Pasteur Institute. A collective publication, intended to present slides and collections of slides as a resource for the study of the history of science, is planned; a preprint is in the making. As a first publication, a website for the project, *Slides in Context*, has been set up to present microscope slides as epistemic and aesthetically challenging objects and to provide a forum for collective material such as essays and links to collections.

MPIWG-Preprint in Preparation

Ilana Loewy (ed.): Microscope Slides—Reassessing a Neglected Historical Ressource

- *Brownyn C. Parry*: The Afterlife of the Slide—Exploring emotional attachment to artefactualised bodily traces
- *Flavio Braulin*: Variations of the Epistemic Status of “what is seen” in the Microscopic Preparation of Syphilis before and after the Invention of the Ultramicroscope of Reichert.
- *Oliver Gaycken*: “The Unseen World”— On the Circulation of Microscopic Slide Knowledge in 1903
- *Ilana Loewy*: Sex on a slide—Antoine Lacassagne and the Search for a Microscopic Definition of Masculinity and Femininity.

- *Maria Theresia Mayrhofer*: Biobanks in Practice—The Contingent Meaning of Collected Bodily Material
- *Naomi Pfeffer*: R slides us?
- *María Jesús Santesmases*: Samples, Cultures and Plates—Early Human Chromosomes
- *Jean-Paul Gaudillière*: Changing Scale—Slides and electron Microscopy at the Pasteur Institute Virus Laboratory
- *Paul Weindling*: From Scientific Object to Commemorated Victim—The Children of the Spiegelgrund

Governance of and through Science and Numbers: Notions, Categories and Tools

A project of the working group *The Past of Science's Present and Future*

Workshop, 26–27 May 2008, Paris, EHESS, Maison des Sciences de l'Homme

ORGANIZERS *Dominique Pestre* (EHESS, Paris), *Peter Weingart* (University of Bielefeld)

The idea for the workshop was two-fold. To be considered were both the forms of government—the new ‘dispositifs’ and discursive regimes in common use in today’s neoliberal ‘governance’ for which scientific knowledge of all kinds plays a decisive role—and the way universities and academics are ‘managed’ within that new order? This included considering theoretical works on ‘liberal governmentality’, starting with Foucault amongst others; considering examples of particular forms of government through types of ‘dispositifs’, of ‘technologies’ that are developed—benchmarking, the Open Method of Coordination, the redefinition of quality for (statistical) data or the ‘dispositifs’ that are elaborated to include ‘stakeholders’ or ‘civil society’ in decision processes; considering the way ‘ethics’ and ‘risk’ are made central for innovation and the government of people and markets around techno-products; considering the ‘technicisation of expertise’ and the making of ‘global experts;’ considering the new meaning given to certain notions and categories; and in particular how this all functions today in the management of higher education and research.

The central questions were defined as follows: how can we think about and describe today’s neo-liberal form of government—that is to say, the intricacy and the hierarchy of devices, tools and categories through which various agents try to govern, regulate and administrate (i) scientific institutions, knowledge or innovation, (ii) products and technologies made available through markets or public authorities, and (iii) the management of effects and consequences of all kinds that result from such innovations (in terms of public health or the environment, for example). The aim of the workshop was to study this regime by placing these questions in theoretical, historical, sociological and anthropological perspectives, and by presenting relevant cases from various fields.

Epistemic Objects

A project of the working group *Epistemic Objects*

Research Colloquium, 16–17 May 2008, Berlin, Technical University

ORGANIZERS *Hans-Jörg Rheinberger (MPIWG), Günter Abel, Uljana Feest and Claudio Roller (TU Berlin)*

What are the dynamics by which epistemic objects come into being? How are epistemic objects articulated linguistically? What role do empirical methods play in the constitution of epistemic objects? What is the relationship between the shifting status of epistemic objects and the supposedly a-temporal character of scientific results? epistemic objects are the fundamental subjects of scientific research. They attract the attention and interest of scientists as well as of historians and philosophers of science and knowledge. The first research colloquium aimed to place a particular emphasis on the following four aspects

1 The internal relations between linguistic as well as non-linguistic signs and epistemic objects:

Both the constitution of scientific objects and the communication of the results of scientific research are conditionally bound to description and articulation by means of signs and interpretation. There are no epistemic objects without signs and interpretation. This relationship has to be elucidated.

2 The relationship between modelling and epistemic objects:

Many—but not all—epistemic objects can be construed as models. In elaborating on this point, one has to distinguish between the objects of the history and philosophy of science and the objects of the sciences themselves as well as the objects in everyday life. One also has to stress the differences between the epistemic objects in the various sciences and in the arts and humanities. The character and detail of these differences have to be assessed.

3 The dynamics of epistemic objects:

In theory as well as in practice, epistemic objects are subject to changes, modifications, revisions, broadenings and restraints, in short: they have their own dynamics and temporal character. Both have to be elucidated and analyzed accompanied by a close analysis of historical cases.

4 The relationships between epistemic objects and scientific experience:

The notion of an epistemic object is internally linked to questions about scientific experience and epistemic justification. Issues surrounding the nature and status of the empirical in the constitution of epistemic objects need to be addressed. Likewise objects' convincing character and our 'adaptation' of judgment according to the properties and features of the epistemic objects calls for close analysis.

MPIWG-Preprint 374

Uljana Feest, Hans-Jörg Rheinberger, Günter Abel (eds.): Epistemic Objects

- *Michael Esfeld & Vincent Lam: Structures as the objects of fundamental physics*
- *Carl F. Craver: Experiments, Instruments, and Activity Realism: Reflections on Early 20th Century Electrophysiology*
- *Günter Abel: “Epistemische Objekte als Zeichen- und Interpretationskonstrukte”*
- *Claudio Roller: Colors as epistemic Objects*
- *Jim Bogen: Worldly Objects and Epistemic Things*
- *Uljana Feest: Phenomena as Explananda and Phenomena as Epistemic Objects*
- *Hans-Jörg Rheinberger: Epistemic Objects/Technical Objects*

The Biography of Ten Scientific Images: An Invisible Seminar

A project of the working group: *Images as Scientific Objects/Visuality*,

Co-financed by the University of Pisa

Invisible Seminar, 7 March 2008, MPIWG and 16–17 October 2008,

University of Pisa

ORGANIZERS *Claudio Pogliano* (University of Pisa), *Michael Hagner* (ETH Zurich),
Renato Mazzolini (University of Trento)

FURTHER NETWORK MEMBERS INVOLVED *Hans-Jörg Rheinberger*,
Lorraine Daston (MPIWG)

In the last few decades academics from very diverse disciplinary backgrounds have taken a growing interest in the complex issue of visual representation within science, exploring a broad range of types, aspects, and uses. The mass of studies produced has become increasingly wide and heterogeneous, now forming an impressive body of knowledge scattered throughout various journals and books. However there is no consensus about which questions and methods historians of science should apply to the investigation of visual records.

In the Invisible Seminar ten junior academics (PhD students or Post-docs) selected by network colleagues, were asked to write a paper on the ‘biography’ of a single meaningful scientific image, conforming to certain general guidelines. By following the ‘career’ of an individual image, the concept of object biography was put to the test. The network organized and financed two meetings as occasions for shared discussion with the senior academics involved, in between which the seminar participants work and discussed their projects ‘invisibly’ via mailing lists and file servers. The results of their work will be published in a special issue of *Nuncius* 2010.

Special Issue of Nuncius, 2010

Claudio Pogliano, Michael Hagner, Renato Mazzolini (eds.) The Invisible Seminar

- *Lorenzo Beltrame & Silvia Giovanetti: Extraction of stem cells from the inner cell mass of a human embryo? Biography and social life of an uncertain origin image*
- *Andrea Bernardoni: Biringuccio’s De la Pirotechnia*
- *Jan von Brevern: An erratic boulder in the Swiss Alps photographed by Aimé Civiale*

- *Mirjam Sarah Brusius*: A fundamental photograph by Fox Talbot for Assyriological research
- *Elena Canadelli*: Schiaparelli Canals on Mars and the Martians Controversy
- *Fabian Krämer*: The Two-Legged Centaur by Aldrovandi
- *Stefano Gattei*: Kepler's "School of Athens" for Astronomy: the frontispiece of *Tabulae Rudolphinae* (1627)
- *Omar W. Nasim*: An Image of a Nebula: Victorian Stellar Astronomy
- *Katrin Solhdju*: Lateral view of the hand taken by Henry Head in 1904

Scientific Objects and Seriality

II Seriality and scientific objects 1780–1848

Workshop, 16–17 June 2008, University of Cambridge

ORGANIZERS *Nick Hopwood, Simon Schaffer, Jim Secord* (University of Cambridge, U.K.)

Co-sponsored by the Network

For a workshop on seriality and scientific objects in Europe and beyond between 1780 and 1848, historians of science and others were invited to discuss the relationships between the practical construction of series as objects of scientific study and the technologies through which such objects were made visible and public.

The two-day workshop consisted of very brief presentations by authors and brief commentaries, followed by substantial discussion.

Our provisional hypothesis was that there is a fundamental connection between the communicative modes in which scientists convey their accounts of the world, and the pictures of the world they produce. It is often noted that the transformation of accounts of nature and society in the decades around 1800 coincided with the emergence of new forms of material production. One way of exploring this issue is through the category of the 'series', as seriality can describe both an organization of communication and an account of the contents of nature. The notion of seriality seems especially apt in the age of revolution, when it became a central category in fields ranging from zoology and political economy to periodical publication and newspaper journalism.

Three serial registers would seem, *prima facie*, related in this period: serial objects, serial images and serial publics.

Scientific Objects and Seriality

III Seriality and Scientific Objects 1848–1919

Workshop, 15–16 April 2009, University of Cambridge

ORGANIZERS *Simon Schaffer, Nick Hopwood* (Cambridge University, U.K.)

Co-sponsored by the Network

Papers for this final workshop on Seriality and scientific objects, 1848–1919 were invited on subjects related to the principal historiographic focus of the project: the relationships between the organization of communication and accounts of nature's

contents in serial form. This project juxtaposes the emergence and subsequent history of serial and developmental models of natural systems; the sequencing of images, artifacts and traces of scientific objects in organized and deliberately serial form; and the significance of the periodical and journalized forms of publishing and communication in this period. The conjuncture of the second industrial revolution, high imperialism and the ascent of the evolutionary sciences proved highly apposite for an examination of the relationship between the communication, performance and knowledge of scientific objects.

Papers from the three workshops (January 2007, June 2008 and April 2009) will be selected for joint publication in 2010. This will result in a major edited publication on the history of seriality and scientific objects between the eighteenth and twentieth centuries in fields drawn from across the sciences, to be accompanied by systematic historiographic and methodological reflection on the models of sequence and seriality at work in the formation of scientific objects as units of knowledge and analysis.

The Exhibition as a Product and Generator of Scholarship

A project by the working group *Collections and Collecting*,

Co-financed by the Research Network and the Deutsches Museum

Conference, 27–28 November 2008, München, Deutsches Museum

ORGANIZERS *Helmuth Trischler, Christian Sichau and Susanne Pickert*

(Deutsches Museum München)

FURTHER NETWORK MEMBERS INVOLVED *Lorraine Daston, Jürgen Renn,*

Hans-Jörg Rheinberger (MPIWG), Jochen Brüning (HU Berlin)

This conference aimed at providing a forum to reflect on delicate task to balance research activities with exhibition works. Recently, museums in Europe have witnessed a growing interest of political and scientific stakeholders in museums as places of research. It has been claimed: No exhibition without scholarship; object-based studies and the exploration of the cultural context of the object are prerequisites for an intelligible presentation. But exhibitions do more than merely visualize the results of research. They have the potential of stimulating scholarship by posing new research questions. How can researchers take advantage of this opportunity? In which way can scholarly arguments be translated into spatial arrangement and at the same time kept serviceable for reading and citing by later recipients? Unlike for printed texts, the traditional publication media of scholarship, common standards of terminology and argumentation for exhibitions have yet to emerge. What exactly is the role of the objects on display? How do the objects unfold their epistemic properties in being staged for exhibition purposes?

The conference brought together curators, museum experts, designers, artists, experts in cultural studies and historians of science and technology to engage in a discussion about their experiences and expectations of the exhibition as product and generator of scholarship. A collective publication is planned; a preprint is in the making.

MPIWG-Preprint in Preparation

Susanne Lehmann-Brauns, Christian Sichau, Helmuth Trischler (eds.):

The Exhibition as Product and Generator of Scholarship

- *Susanne Lehmann-Brauns, Christian Sichau, Helmuth Trischler:* The Exhibition as Product and Generator of Scholarship—An Introduction
- *Hans-Jörg Rheinberger:* Making Visible. Visualization in the Sciences—and in Exhibitions?
- *Jochen Brüning:* Exhibitions vs. Publications. On Scientific Achievements and their Evaluation
- *Robert Bud:* Power, Belief and Trust. A Context for Scholarly Priorities in the History of Science
- *Martha Fleming:* Thinking Through Objects
- *Walter Hauser:* Exhibition Making as Knowledge Production, or: Struggling with Artefacts, Visuals and Topographies
- *Ad Maas:* The Storyteller and the Altar. Museum Boerhave and its Objects.
- *Ulrich Raulff:* Old Answers, new Questions: What do Exhibitions really generate?
- *Uwe Brückner:* Scenography—Opera as Model for Integrative Design
- *Thomas Söderqvist and Adam Bencard:* Do things talk?
- *Thomas Schnalke:* Arguing with Objects. The Exhibitions as a Scientific Format of Publication

Network Fellows 2008–10

With her project on models, Kelly Whitmer is working with Dept. II and III; Arie Krampf's investigation of the central bank is part of the globalization project of Dept. I.

Arie Krampf

Central Banking as Scientific Object—Transfer and localization of economic knowledge in the Twentieth century

The twentieth century was a period during which the logic of the nation state was extended and a large number of new states joined the community of nations. This process was accompanied by diffusion of knowledge and practices and convergences of state structure. In recent years a growing body of knowledge has attempted to capture the way by which transfer of knowledge has also brought about divergences and emergence of differences between states in the international system. This approach emphasizes the fact that when knowledge is transferred it is also translated and localized.

In his work Arie Krampf combines approaches of political economy with those of science studies to study the encounter between “deterritorialized,” “universal” and theoretical economic knowledge, on the one hand, and differences between countries in the context of policy making. It is shown that this encounter brings to existence local economic rationalities and packages of knowledge, which are bounded in local contexts of policy making.

The project focuses on two key areas in which such local economic rationalities are manifested: practices of central banking and categories of econometric (statistical) systems. The study examines how central banks, and the discourse surrounding them, have produced epistemic scientific objects, which mediate between transnational knowledge and domestic political-economic conditions, thereby contributing to processes of state-formation. The aim of the research is to map central banking practices and econometric technologies of representation within time and space throughout the 20th century. The outcome of the research would be an epistemological map that would enhance the understanding of the dynamic of transfer and localization of economic knowledge in a non-homogenous world.

Kelly J. Whitmer

Models of Solomon's Temple as Objects of Scientific Inquiry—

Models and the Middle Way: Performing Philanthropy in the Early Enlightenment

Gottfried Wilhelm Leibniz linked philanthropy to the cultivation of ethical techniques for producing knowledge about the world. Leibniz participated in an ambitious philanthropic program articulated in many Central European cities between 1700 and 1750, one involving the most eminent philosophers, theologians, mathematicians and physicians of the era. In the early years of the eighteenth century, Halle's orphanage commune, founded by a minister and Berlin Academy of Sciences member, became a key site for making philanthropy visible. Largely inside of this space and others modeled after it, practitioners worked to improve the intensive regimens of moral education and mission for which their institutions became famous. They forged links between spiritual exercises, observation, instruments for measuring and improving "inclination," and the characteristics of a divinely sanctioned, princely authority.

The project explores the status of models, and the techniques of model building, for early practitioners of philanthropy. It concentrates on the very large wooden model of Solomon's Temple that was innovatively used in the city of Halle as a visual encyclopedia by 1718. The Temple model became a tool for facilitating an intuitive, assimilatory grasping of relationships between parts and wholes, even competing points of view, through sustained and collective observation.

The first phase of this project involved studying the arrangement of the space of the Halle Temple model—a very large wooden model of Solomon's Temple that was innovatively used in the city of Halle as a visual encyclopedia by 1718—, including how it was built, relative to other Temple models exhibited at the time. The second phase has involved comparative analysis of the pedagogical uses of models, especially of machines, in several eighteenth-century German cities.

Upcoming Projects for 2010

Challenging Objects in the History of Science

A project by the working group *Epistemic Objects, in co-operation with the TU Berlin Workshop*, 21–23 January 2010, MPIWG

ORGANIZERS *Jochen Büttner, Jürgen Renn* (MPIWG)

FURTHER NETWORK MEMBERS INVOLVED Günter Abel

Recent history of science has paid increasing attention to the role of objects in the formation of scientific knowledge. It is acknowledged that prior to any theoretical reflections objects bear knowledge, likewise it is understood that objects, as bearers of knowledge, tend to play an important role in the transmission of knowledge, both diachronically and synchronically. Objects are preserved over time and can travel in space. When in this kind of transmission the context of an object changes, the knowledge associated with it is often transformed. Likewise the objects themselves as epistemic entities are altered when the knowledge connected to them evolves. Drawing on the wealth of insights that has originated from recent object-centered approaches in the history of science, the workshop aims to explore and elaborate a historiographical approach to the role that a particular type of object played in a particular period for the development of a particular body of knowledge—the *challenging objects of early modern mechanics*. This approach to the challenging objects of early modern mechanics has provided the basis for two recent case studies, one concerning the role of the pendulum, the other the role of fly-wheels for the development of early modern mechanical thinking. The aim of the workshop is twofold: On the one hand it aims to refine and extend the approach developed so far; on the other hand it aims to probe this approach by contrasting it with alternative explanatory schemes and by comparing it with the insights that have been gained in other object-centered studies in the history of science.

→ see also p. 34

Scientific Images as Objects of Research

A project of the working group *Images as Objects/Visuality*,

co-financed by the Research Network and the ETH Zurich

Workshop, 17–20 September 2010, Villa Garbald, Castasegna, Bergell

ORGANIZER *Michael Hagner* (ETH Zurich)

The remarkable increase in studying scientific images has led to a fascinating Babylonian charivari, and this is not restricted to those situations when image producers from science and technology meet image interpreters from the humanities. If we consider those disciplines which are active in the business of understanding images after the iconic turn—art history, media studies, cultural studies, history and sociology of science, philosophy, literary theory etcetera—it seems that they look at images in very different ways. The idea for the workshop is to approach this diversity in the way images are understood by putting the rule to the test. What happens if an art historian, a philosopher and a historian of science all interpret the same image? What are their respective interests, their respective strategies when determining the meaning of the

image? What kind of visual thinking is behind such an interpretation? What kind of experience, judgement and intuition are at play? Do we apply the same criteria used to talk about an eighteenth century botanical image to the visualisation of an e-cell? The meeting will bring together between twelve and fifteen participants including members of the network, those who attended the first meeting as well as colleagues coming from fields not yet represented within the group. The aim of the meeting within the MPI Network is to gain some clarity on the issue of what we are doing when we focus on images as objects of research.

On the Concept of “Thing:” Philosophical, Historical, Social, and Cultural Investigations

A project of the working group *Epistemic Objects*

Workshop, MPIWG/TU Berlin, Autumn 2010

ORGANIZERS *Günter Abel* (TU Berlin), *Hans-Jörg Rheinberger* (MPIWG), *Friedrich Steinle* (TU Berlin)

Since Michel Foucault’s *Les mots et les choses* (1966), the concept of “thing” (Ding, chose) has gained new currency in philosophical, historical, social, and cultural studies of science and of knowledge. The turn to the material side of science, the “scientific real” (Bachelard), in its many guises, is the focus of this workshop. Specifically, it asks for and intends to analyze the peculiar role of the concept of “thing” as compared to the more common notion of scientific, or knowledge, “object”. To this end, it tries to bring together philosophers, historians, sociologists, and literary and cultural critics in a common reflection on past and present uses of the concept of “thing” for the study of knowledge phenomena.

Ways of Voyaging Through the Human Body.

A project by the working Group *Images as Scientific Objects/Visuality*

Multimedia Seminar, January and November 2010, MPIWG and University of Pisa

ORGANIZERS *Claudio Pogliano* (University of Pisa), *Francesco de Ceglia* (University of Bari)

FURTHER NETWORK MEMBERS INVOLVED *Hans-Jörg Rheinberger*

The Seminar will focus on the leitmotiv of the *Voyage through the human body*, which has often been played in the last few decades from different viewpoints, with various aims and outcomes. As for the beginning—although a ‘prehistory’ should be traced in medical writings and in generale literature—1966 is apparently the crucial year. A science fiction film (*Fantastic Voyage*) was then directed by Richard Fleischer; the movie holds the distinction of being the first to deal with the concept of “inner space:” in doing so, it created a new sub-genre. It inspired, among other things, parodies, an animated TV series, a painting by Salvador Dalí, and a double novelization made by Isaac Asimov, up to 1987. The frequent and growing exploitation of the leitmotiv by literature, art, cinema, television, museums, advertising, has been going along with the various attempts made by technoscience to scan interior body regions and to give

a visual rendering of them. It is likely that a circular process, involving various kinds of actors, has been producing a series of scientific and cultural artifacts which might be collected, compared, and studied. Within the MPI Network a number of young scholars will be selected, willing to approach the topic of the *Voyage through the Human Body* as a scientific object, entangled in webs of material practices, cultural significance, theoretical and social implications.

The World Knowledge—of Things. Scientific Objects in Dialogue

Final Symposium, 4–5 October 2010, Berlin, Martin Gropius Bau,
in co-operation with the Berlin Science Year 2010 and the Exhibition “Weltwissen”

The planned symposium will make use of the opportunity of the setting of the celebration and discuss the role of objects in the production of “World knowledge,” on the example of Science in Berlin, in the context of the Exhibition. Objects of the exhibition will be singled out for closer attention in form of a scientific dialogue between the disciplines: the perspective of an art historian meeting the perspective of a scientist, an exhibition maker talking to a historian of science ...

The discussants will ask not only for the objects’ widespread uses and the hi/stories inscribed in an object, but also analyse the history of its preservation, its role in collections and exhibitions. They will ask for the objects’ specific historical moments, how and when they became charged with significance, and what they meant to Science in Berlin.

Drawing on the work of the Research Network, which over the last five years has researched not only the concepts and qualities of various kinds of (forgotten) objects, but also the interrelations between object and text, object and collection, and on the expertise of the MPIWG in the history of science and exhibition making, the planned conference will create an extra room for scientific comments on the “Weltwissen”—of Things.



Historical Instruments for Eye Surgery,
Courtesy of the Berlin Medical History
Museum. Photo: Jan Kaminski

Workshop

Scholarly Publishing and the Issues of Cultural Heritage, Fair Use, Reproduction Fees, and Copyrights

Berlin, Januar 11, 2008

ORGANIZERS *Christine von Oertzen* (MPIWG), *Kelley Wilder* (MPIWG, De Montfort University, Leicester, U.K.)

The purpose of this workshop was to bring together leading representatives from key universities, research institutes, libraries, museums, government agencies, commercial image providers and academic publishing houses to provide an opportunity to discuss experiences in working with and publishing visual images and cultural heritage items in academic contexts, especially in the humanities.

As science publishing moves forward into an increasingly fluid, international e-publishing model, the humanities scholars, especially those studying visual images, are being left farther and farther behind. They are constrained not only by restrictions to print and web publishing of images, but also by the confusion arising from conflicts of national, regional, and institutional policies concerning picture reproduction and cultural heritage citation. This is not only a question of copyright, but also a question of access, whether open or free, and to uncopyrighted information, as well as a question of reproduction fees and the politics of cultural heritage.

The Max Planck Institute for the History of Science saw an urgent need to address these problems and to communicate them, in order to find ways to ensure the continued quality of research and scholarship. More and more scholars, especially in the history of science, are using images for their work, but frequently their choice of subject matter is unduly influenced by availability or affordability of key sources. As an internationally renowned institution that devotes its funds and energy to fostering innovative research in the humanities, the Max Planck Institute for the History of Science initiated this dialogue to yield a better understanding of and a broader subscription to fair practices of access that are acceptable to scholars, museums, libraries, publishers and research institutes alike.

Participants at the workshop agreed that access to unique historic objects, images, or texts—cultural heritage—is only rarely a copyright issue. Access to cultural heritage is first and foremost a contractual matter. As such, access to cultural heritage is inherently negotiable. When repositories impose excessive fees on scholars, with reference to copyright they may not be operating within the boundaries of the law. In any event, by restricting access and use they are limiting in unforeseen ways the scholarly

potential of digital cultural media. The curators at the workshop emphasized that financial and legal considerations are not the only reasons museums and collections restrict access to digitized cultural heritage. Fear of abuse and theft also factor in how they make decisions about access and use. Digitalization simplifies the distribution of reproductions, opening the floodgates to forgery and incorrect attribution, a potential threat to the painstaking work of image curators. If an object can no longer be identified, it loses its value – not only to cultural organizations, but to scholars as well. As the trustees of cultural heritage, curators in museums and collections must guard against such abuse.

The participants also discussed that some museums and libraries are demonstrating a renewed willingness to take into account the particular needs of scholars, exploring new ways to reconcile scholarship with stewardship. Several institutions presented at the workshop have recently begun to provide researchers free-of-charge access to some of their digitized collections. The Victoria and Albert Museum in London, for example, offers scholars this service from the museum's home page, while the Metropolitan Museum of Art in New York is cooperating with scholars through ARTstor, a non-commercial digital library. Via the database Images for Academic Publishing (IAP), high-resolution images from the Metropolitan Museum of Art's collections are made available for scholarly use. These initiatives were seen as encouraging signs that other repositories will follow such important examples.



Rembrandt van Rijn (1606–1669),
Aristotle with a bust of Homer, 1653.
Image displayed free of charge with the
kind permission of the Metropolitan
Museum of New York (MET)

Following the January 2008 gathering of experts, our Institute, with input from all participants, drew up a set of recommendations to improve scholars' access to digital media. This document calls upon curators and scholars to enter into a new relationship to promote mutual trust and common interests. The aim of this compact is to address the pressing challenges raised by our digital present and future. We request that curators refrain from arbitrarily restricting the public domain. We further ask our colleagues in libraries, museums, and other repositories to accommodate the needs of scholars for freely accessible, high-resolution digital images. This request concerns not only print publications, but also new forms of electronic publishing. We exhort scholars in the humanities to respect the special custodial responsibility of museums, libraries, and other image repositories. In particular, we insist that careful attention to attribution must become part of each scholar's contribution to a relationship based on trust and mutual benefit.

The Best Practices Recommendations as well as a detailed report of the workshop can be found on our website

<http://www.mpiwg-berlin.mpg.de/PDF/MPIWGBestPracticesRecommendations.pdf>;

<http://www.mpiwg-berlin.mpg.de/PDF/MPIWGWorkshop1-2008Report.pdf>

Participants

- *Mitchell Ash* (University of Vienna)
- *Susan Bielstein* (University of Chicago Press, Chicago, U.S.A.)
- *Lorraine Daston* (MPIWG)
- *Carole Ann Fabian* (ARTstor, New York, U.S.A.)
- *Annette Godefroid* (Bridgeman Art Library, Berlin Office, Germany)
- *Hans Rupprecht Goette* (German Archaeological Institute Berlin, Germany)
- *André Gunthert* (EHESS Paris, France)
- *Kenneth Hamma* (J. Paul Getty Trust, Los Angeles, U.S.A.)
- *Frank James* (The Royal Institution, London)
- *Volker Kitz* (Max Planck Institute for Intellectual Property, Competition and Tax Law, Munich, Germany)
- *Norbert Lossau* (State and University Library Göttingen, Germany)
- *Catriona MacCallum* (Public Library of the Sciences)
- *Christine von Oertzen* (MPIWG)
- *Doralynn Pines* (Metropolitan Museum of Art, New York, U.S.A.)
- *Jürgen Renn* (MPIWG)
- *Hans-Jörg Rheinberger* (MPIWG)
- *Simone Rieger* (MPIWG)
- *Urs Schoepflin* (MPIWG)
- *Alan Seal* (Victoria & Albert Museum, London, U.K.)
- *Wolfgang Schieder* (University of Cologne, Germany)
- *Cristina Steingräber* (Hatje Cantz Publishers, Berlin, Germany)
- *Theudel von Wallmoden* (Wallstein Publishers, Göttingen, Germany)
- *Kelley Wilder* (MPIWG/De Montfort University, Leicester, U.K.)

Information Technology

Overview

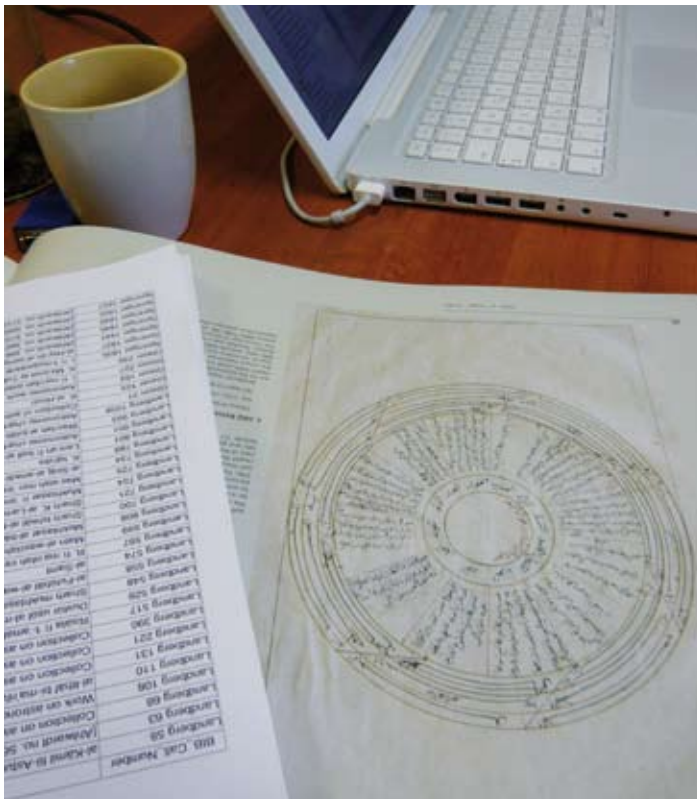
The *Information Technology Group* at the MPIWG aims to provide an optimal infrastructure for operating digital resources, tools, and publication channels. The specific task is to develop instruments adapted to exploit the promising potential of the digital world both for research and for academic publishing.

The IT group develops software solutions according to the needs of the institute's projects and maintains an infrastructure for publishing primary and secondary sources on the web. Hence the focus is on new innovative solutions based on open source software but also on stabilizing the existing infrastructure to provide access to Internet sources as part of an increasing demand from inside and outside the institute.

Web presentations have become an integral part of research in all departments and independent research groups. These research web sites are jointly maintained by the researchers and the IT group; the sites give access to material relevant to their research interests and are part of their dissemination strategies of research results. Currently, 11 research sites are available online: European Cultural Heritage Online (ECHO), The Virtual Laboratory (VLP), History and Foundation of Quantum Physics, Virtual Einstein Exhibition, Cuneiform Digital Library Initiative (CDLI), The Archimedes Project, Database of Mechanical Drawings, Islamic Scientific Manuscript Initiative (ISMI), Drawing with Optical Instruments (Vision), Research Network "history of

scientific objects," Knowledge in the Making, The Virtual Einstein Exhibition in Pavia, "Wunderforschung," Planck Exhibition, and History of Science in a Garden (Pratolino). Thus the institute's web representation is one of the largest in the Max Planck Society.

The IT group also provides a comprehensive computing service, i. e. providing the most current IT infrastructure, desktop computers, conference technologies, data backup and printing services. The email service and high-speed internet connection is provided in cooperation with the *Joint Network Center (GNZ) of the Berlin-Brandenburg Max-Planck Institutions at the Fritz-Haber-Institut der MPG.*



IT Projects for innovative research

The basic infrastructure—developed originally in the context of the European Cultural Heritage Online Project (ECHO)—is constantly improved to face the challenges of a perpetually increasing demand. The current infrastructure is based on a highly modular set of extensions of the content management system and applications server ZOPE. All developments are, wherever possible, based on existing open source solutions, so that they can be adopted by other institutions.

In 2008 and 2009 new elements of this infrastructure have been developed; on the basis of an open source optical recognition software (OCR) software package, all scanned books of the library have been OCR-ed (totaling 2,500,000 pages). Experimental full-text search is available on these texts and can be accessed over the ECHO, VLP and Quantum History websites. Internally, the digital collection of the institute's library can now be searched online. Search results are displayed utilizing the marking functionality of the institute's image display server Digilib. Although the OCR texts have only been processed with low recognition rates and still need improvement, these full text searches already make it possible to find quickly occurrences of concepts and terms in documents of well defined corpora, which was not possible before. In the future, it is planned to improve the search results through data-mining and natural language technologies, and using the self-learning abilities of the OCR software to improve the accuracy of the results. → p. 226

This work complements the endeavors of the XML group to develop a workflow for the transcription of books into an semantically structured format. While the OCR project aims to give a rough overview over a corpus, the XML project makes it possible to analyze and annotate documents which are relevant to a specific research question in full detail. In the further development of both projects, the detailed analysis of selected documents, carefully transcribed and annotated in XML, will help to improve the search functionalities in the corpus treated by OCR by identifying important concepts and terms, which then can be specially searched in the OCR-ed text corpus. The IT group also closely cooperates with the GIS project of Dagmar Schäfer's independent research group. The goal is to make tools for spatial annotation useful to the researchers at the institute, e. g. to investigate the transmission of knowledge over time and space. Further applications will be developed for the globalization project and the ISMI project. All these projects are planned as starting points for building working ontologies that will help to structure and organize electronically accessible knowledge. These work tools will be made accessible to researchers in the context of a collaborative working environment. → p. 63

Another focus of the development work of the group was the improvement of publication tools for databases. In particular, a web interface of the database of the Kant project was created, allowing searching and concept browsing. Systematizing the experiences made by designing the web presentation and backend for the different database projects (CDLI, DMD, Kant) a prototype of a new database system, OpenMind, has been developed and finds its first application in the database of the ISMI project. It will be extended for use by the GIS projects. The leading idea for the new system is that a database as research tool has to be as flexible as possible; one reason why software such as *FileMaker* is successful as a research tool at the institute. In par-

ticular, if new properties have to be added to an object or existing objects have to be re-combined into new objects, it should be possible to change easily the underlying data models without re-entering data and re-designing interfaces. Existing relational databases like *MySQL* and *Postgres* allow this only by programming scripts and need the intervention of a programmer, other solutions like *FileMaker* run into difficulties if they have to deal with large datasets.

Another challenge in particular for electronic publications on the history of modern physics and early modern science is the historically adequate representation of mathematical formulas on the web. To tackle this problem the IT group has started to evaluate different publication strategies of formulas based on established tools for the transformation from *FrameMaker* or *LaTeX* in XML. Extensions and adaptations of XML standards as well as existing transformation tools to the needs of historical formulas will be explored in cooperation with *The Newton Project* at the University of Sussex.

Since 2008 the institute has acquired state-of-the-art 3D scanning equipment. This is part of its endeavor to provide digital representations of artifacts. A model workflow showing how to scan and present 3D sources as part of academic publication is currently under development as part of the CDLI project. The Institute cooperates with other institutions working in the humanities within and outside the Max Planck Society, e. g. the **KHI Florence** and the *Istituto di Scienza e Tecnologie dell' Informazione "A. Faedo," Pisa* in order to open up a broad field of applications.

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Preparing for the future

The existing infrastructure has reached the limits which can be maintained by a relatively small IT group. Moreover, there is the need to extend the use of existing resources for multiple purposes, such as viewing text and images not only in a web browser but also with more interactive tools such as *Arboreal* or data-mining software, or software for the spatial connection of objects, as developed in Department I (*VirtualSpaces*). In addition, the amount of openly accessible sources in the internet useful for research in the history of science has increased significantly in the last few years. Therefore a new infrastructure has to make these resources accessible to researchers at the institute. This challenge is two-fold: both social and technological. Socially the content providers and users have to agree on an interchangeable repository structure; technically such an infrastructure has to be developed and maintained. A stricter division between content and presentation is needed than the current infrastructure can provide. Therefore major efforts were put into preparing the migration of the existing infrastructure of the MPIWG into an infrastructure based on the *eSciDoc* project. *eSciDoc* is a basic infrastructure for storing and managing digital objects in shared repositories developed jointly by the Max Planck Digital Library and FIZ Karlsruhe. The IT group organized a workshop in December 2009 bringing together five Max Planck Institutes in the GSHS and the MPDL to consolidate the modules needed for the humanities, and to define priorities for the development of this infrastructure. The aim is to migrate all digital objects provided by the institute into the new system to render them more interoperable and easier to maintain. The involvement of the IT

group in the formation of a Digital HPS consortium is also part of this strategy. The IT cooperates here with institutions in the US, such as the Marine Biological Laboratory in Woods Hole, Arizona State University and Harvard University.

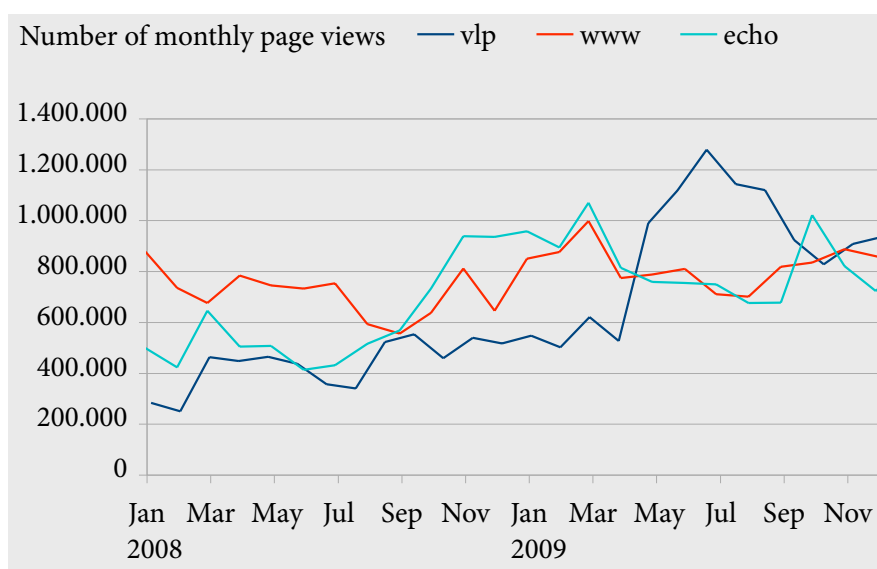
The IT group is actively involved in evaluating and adapting the existing *eSciDoc* solution for the needs of the institute, therefore the institute is running its own *eSciDoc*-server and an adopted *PubMan* server, where *PubMan* is an application based on *eSciDoc* for managing digital publications. Currently the migration of the institute's bibliography is under preparation. As a test case for the use of the new system as research tool, the shared bibliography of the quantum history project is provided by the institute's *PubMan* server.

Services for cooperation and dissemination

As part of its standard services, the IT group offers Webmail, VPN, experimental Jabber and WLAN to all researchers at the institute. The IT supports up to 150 scholarly users, i. e. research scholars, guests, post-docs and pre-docs, in using the IT infrastructure at the institute, which includes the help with standard problems in electronic work but also the maintenance of web sites and the creation of research databases. The preparation of print publications is also growing in importance since publishers increasingly request the submission of camera-ready copy.

On the institute's web-site, multimedia content can be published using a standardized *Mediathek* which also can be included into project specific websites. IT provides support and a standard workflow for creating these content. In addition, the IT supports the documentation of workshops by audio and video recording. The group supports the creation of websites for workshops and projects. In close cooperation with Hansjakob Ziemer (Public Outreach and Cooperation) the IT group maintains and develops the Institute's website with up-to-date information about the research projects of the institute.

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Library

by *Urs Schoepflin*, Library Head

Introduction

The Library's mission is to provide the best possible information services to the research groups of the Institute and to create optimal access to both print and electronic resources. It aims to develop effective services and infrastructures for research in history of science by exploiting the potential of traditional and new media for scholarly work and for disseminating research results.

To meet the evolving needs of the existing research groups at the Institute and to integrate new groups, particular attention was given to the following key areas: 1) further development of the collections, content provision, and services; 2) enhanced acquisition of and access to digital content and sources; 3) support of scholarly publication and dissemination activities by copyright clearing services and additional publication aids including the implementation of the Max Planck Society's open access policy; and 4) extension of the collaborative network of the Library.

Thus, the Library continues to develop into a universal information instrument covering the widespread needs of a multidisciplinary research area and is prepared to flexibly master new bodies of knowledge as new research directions and themes appear.

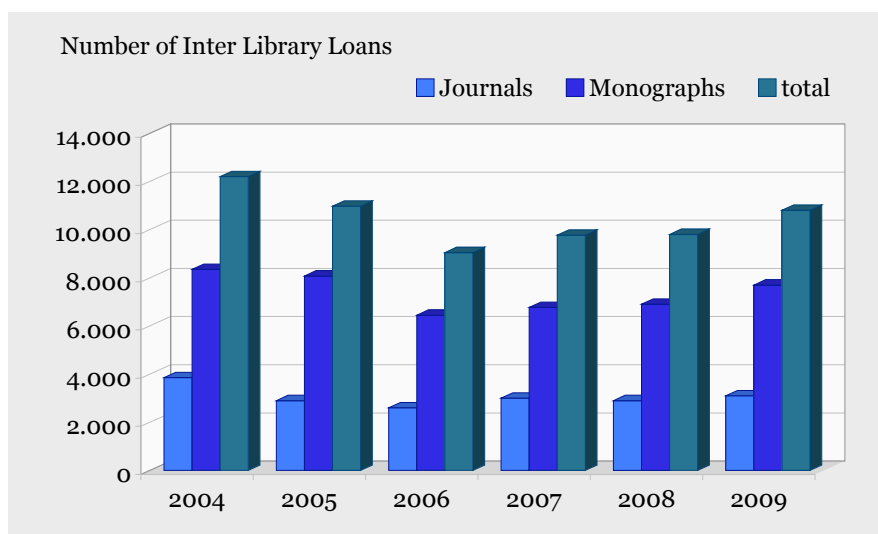
The Library's collections and services

The Library collections currently hold 65,000 volumes in print in addition to over 25,000 historic works and materials in microform. Besides the systematic collection building policy in line with scholarly needs, the print collection has also benefited from special book collections entrusted to the Library, in particular, the Erwin Hiebert collection, the Max Born collection, the Assyrological collection of Blahoslav Hruška, the books donated by the Chinese Academy of Science commemorating the 30th anniversary of cooperation with the MPG, and, most recently, the offprints collected by the late Laszlo Tiszan. These unique collections are all of particular interest since they reflect the special approach of the collector or the collecting body to specific thematic areas relevant to the Institute's research.

In addition, original archival resources contain some 10,000 items mainly including papers of physicists of the first half of the 20th century (Gehrke collection, Rupp correspondence, Einstein letters), the majority of which have been made available in digital form.

Access to electronic resources has again been substantially enhanced to include over 30,000 electronic journals, more than 200 full-text and reference databases, as well as a number of e-book collections, largely as a result of the basic information provision of the Max Planck Digital Library (MPDL) and of the ongoing National Licensing Program of the German Research Foundation (DFG).

Complementing these holdings and resources, the interlibrary loan service has been in high demand and has maintained a level between 10,000 and 12,000 loans p. a. This particular service priority of the Library allows for rapid document delivery providing books and articles from a wide network of national and international research libraries within days of a scholar's request and responding flexibly to new thematic user needs. Thus, the Library represents a central node of an information network—which currently extends to the holdings of 451 individual libraries worldwide—, bringing together information from a wide range of relevant sources and making them available to the scholars at the Institute and at its collaborative research centers.



Digital Research Library and enhanced acquisition of digital content and sources

Access to digital sources and other materials has become crucial for research in history of science. To address this issue, the Library has unfolded a multi-layer strategy to enhance acquisition and access to digital content and sources. The strategy includes several elements.

The special program for digitizing and presenting sources in history of science in high quality color facsimiles from the Library's rare books collection and in grey-scale images from the microform archive has been further developed. All digitized materials are accessible via a web-based Digital Research Library. The program includes the establishment of a special digitization group within the Library which is equipped and qualified to digitize material at a high professional standard at a rate of 500,000 pages p. a. The workflow comprises procedures to upload the resulting images to the online presentation environment of the Digital Research Library and to securely archive the master files. The service is designed to react flexibly to new demands in the short term. The program is working closely with the research groups at the Institute who present their research on the Internet and who can immediately integrate the digitized sources into their presentations (ECHO Project, Archimedes Project, Virtual Laboratory, Epistemic History of Architecture, History of Mechanical Knowledge in China, Jesuit Sciences, Early Modern Engineering Drawings, Vision Project, History of Quantum Mechanics Project, Pratolino Project). The ECHO open access infrastructure (European Cultural Heritage Online) is a key instrument for uploading and openly presenting sources on the Internet and at the same time for providing scholars with appropriate tools to work with the digital sources.

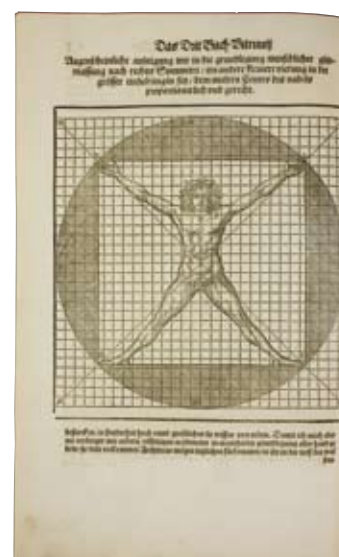
The Library has invested in professional mobile digitization equipment and expertise for systematically digitizing also on remote sites. As a further element, dedicated digitization campaigns have been conducted to acquire source materials in institutions or in private collections, for example: the Giusti collection of rare mathematical books in Florence (in cooperation with the Art History Institute); the Vitruvius collection at the Werner Oechslin Library Foundation in Einsiedeln, Switzerland; the Hilprecht Archive and Cuneiform collection at Jena University (using also 3D scanning, in cooperation with Jena University and Dept. I); the collection of Arabic manuscripts at the Berlin State Library (in cooperation with the ISMI project at McGill University, Montreal).

To expand the scope of the available digital sources even further, the Library has negotiated several cooperation contracts with institutions holding relevant material and commissioned its digitization. A key issue in the negotiations is to obtain permission to use the digitized materials freely and openly on the Internet for scholarly purposes. Digitization contracts for the following source corpora have been concluded and digitization is ongoing: Adanson Botanical Illustrations, Hunt Institute for Botanical Documentation, Pittsburgh; Humboldt-Herbaria, Botanical Museum, Berlin; Francis G. Benedict Papers, Harvard University Library; and Harriot Manuscripts, British Library.

- ECHO Project, p. 62
- Virtual Laboratory, p. 125
- Epistemic History of Architecture, p. 20
- History of Mechanical Knowledge in China, p. 159
- Jesuit Sciences, p. 36
- Early Modern Engineering Drawings p. 33
- History of Quantum Mechanics Project p. 38
- Pratolino Project p. 32
- Werner Oechslin Library Foundation, p. 60
- Hilprecht Archive, p. 27
- ISMI Project, p. 104

The Library has continued to acquire and make available archival materials as major research resources and thus represents an innovative model on how to make archival materials immediately accessible to the research groups at the Institute and to their international cooperation partners. The ongoing digitization of the complete microfilms of the Archive for the History of Quantum Physics has for the first time enabled web-based finding aids and full electronic access to the materials of the archive. It constitutes a decisive scholarly resource for the international project group on the History of Quantum Mechanics and has been presented on a visit to the American Institute of Physics by the head of the Library.

The expansion of the scope of the Digital Research Library is continued by the Library's involvement with establishing the workflow of primary text acquisition and XML structuring to support XML annotations and lexical analyses performed on historical texts, e. g. on mechanics. This work is performed in cooperation with the IT-group and the XML-Workflow project, a group funded by the MPDL and hosted at the MPIWG. The Library has commissioned transcriptions of texts to two Chinese companies specializing in converting texts both from old western prints as well as classic Chinese.



Ryff, Walther Hermann [ed.], *Vitruvius Teutsch. Erstmals verteutschet, vnd in Truck verordnet Durch D. Gualtherum H. Riium Medi. & Math.* 1548

→ p. 63

Support of the scholarly publication and alternative dissemination process

The research results of MPIWG members are disseminated in print as well as in electronic form.

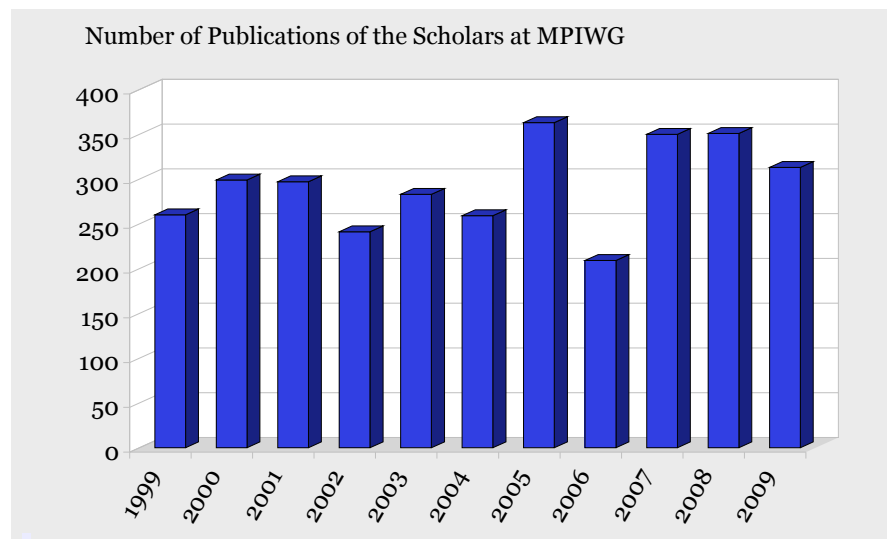
To give our authors adequate support in dealing with copyright issues, transfer agreements and publishing contracts, the Library has established a copyright clearing service and offers advice to authors on contracts and copyright transfer agreements.

From opening up new fields of research to covering topics from a comparative perspective—challenges that invite collective rather than individual scholarship—, many MPIWG research projects publish their principal results in form of a collaborative Working Group Book.

The limitations and rising costs of the traditional channels of disseminating results with commercial publishers are felt more and more, and novel ways that are more adequate to research needs are sought. The Max Planck Society is committed to the principle that the results of fundamental research should be accessible to all. The Society has publicly demonstrated its commitment to Open Access by initiating “The Berlin Declaration on Open Access to Knowledge in the Sciences and the Humanities” in 2003 (see <<http://oa.mpg.de/openaccess-berlin/berlindeclaration.html>>). Recently, the Harvard Faculty of Arts and Sciences adopted a similar open access requirement. Following up on this policy to make available as many research results as possible on the Internet, the Library took responsibility for uploading the Institute's bibliography and publication output (metadata and documents) to the MPG's central electronic repository for the documented research output of all institutes, the eDoc server. On this server, the searchable bibliographic data and—depending on the individual authors' agreements—the full text of the research results, presentations etc. are made

available for either internal or open use. To foster the awareness and the acceptance of open access publishing, the Library is preparing guidelines for MPWIG scholars with information about the open access process, electronic publishing in repositories, legal issues, copyright transfer agreements, and recommendations of what rights to retain. Alternative publication possibilities involving the combination of a technical platform to publish on the Internet with a book-on-demand service are under consideration.

The head of the Library follows up closely on the international implementation of open access and is actively involved in the annual “Berlin Process” conferences of the signatories of the Berlin Declaration.



Outreach

The Library was involved in several collaborative projects. The two main aims of cooperating with research and cultural institutions is on the one hand the sharing of rare and manuscript materials to enhance access to these resources for research purposes and on the other hand the transfer of skills by sharing the expertise in maintaining digital projects to make these resources available on the internet. At the MPG level, the ongoing cooperation with both the Bibliotheca Hertziana—MPI for Art History in Rome and with the Art History Institute—MPI in Florence is particularly relevant in these respects.

In a number of international cooperations the Library’s expertise was involved in digitizing and making available cultural heritage materials on the Internet. The Library is working intensively with the MPIWG’s partner group at the Institute for the History Natural Sciences at the Chinese Academy of the Sciences in Beijing to digitize a collection of historic Chinese mathematical texts and to bring them to the Internet. The cooperation includes advisory meetings and training sessions in Beijing as well as in Berlin.

In the framework of several delegation visits to Mongolia on behalf of the MPG, the Library has further explored and prepared the creation of a Competence Center for Digitizing Cultural Heritage in Ulaabaatar. The necessary infrastructure was determined and a selection of materials to be digitized in the pilot phase was made. The Library will offer advisory meetings and training sessions for the Mongolian scholars in Ulaanbaatar and in Berlin. → p.25

Together with “The Collegium for the Advanced Study of Picture Act and Embodiment” at Humboldt University the head of the Library was involved in consulting the digitization of the Edgar Wind papers at Oxford University.

The Library’s key concepts are advertised in several ways. In particular, the basic ideas could be conveyed during several expert visits from Germany and from abroad, and at a conference of the Max Planck librarians of the Humanities’ section held at the MPIWG.

Also in library education the Library assumes a special responsibility: it successfully offers internships for students in library and information science to prepare for a career in modern library management. This has proved to be an efficient means of transferring the concepts into library education, a fact which is reflected in subsequent master and diploma theses. In addition, the head of the Library regularly gives lectures at the Humboldt University, the University of Applied Sciences in Potsdam, and at the Berlin State Library.

Most recently, the head of the Library was appointed to the expert advisory task force of the planned German Digital Library.

Finally, the Library is actively involved in discussions on the concept of the Max Planck Digital Library (MPDL), which has now consolidated the central information management services of the MPG and hosts the eSciDoc infrastructure project, to which the MPIWG information services provided by the Library form a model counterpart at the level of the MPG Institutes. The strategic cooperation with the MPDL will provide the necessary support for further generalizing and maintaining the services developed at the Institute, integrate new services and secure the long-term availability and archiving of scholarly results in a reliable environment.



Digitization campaign in Beijing

Library Team. Left to right:
Sabine Bertram, Ralf Hinrichsen,
Ellen Garske, Matthias Schwerdt,
Urte Brauckmann, Urs Schoepflin,
Beate MacPhail, Monika Sommerer,
Anke Pietzke. Absent: Ruth Kessentini



Cooperation and Outreach



→ Other projects participating in the Network, p. 110, p. 121

Dr. Hansjakob Ziemer has been a new research fellow at the MPIWG since January 2008. As detailed below, he manages the MPIWG's cooperation with the Berlin universities and coordinates the general outreach activities of the MPIWG. Ziemer's own research focuses on two main projects: one on the cultural history of journalistic knowledge and a second on the cultural history of music. In 2008 he published a book-length study on the cultural history of concert life in the beginning of the 20th century in Frankfurt am Main (*Die Moderne hören: Das Konzert als urbanes Forum, 1890–1940*, Campus Verlag). The book shows how the concert hall of the last century served as a site where society struggled to come to terms with the cultural and social consequences of modernity. From a microhistorical perspective, the study connects listening practices in the concert hall, the contemporary discourse on the social meaning of music and the institutional organization of performances. In connection with this research, Hansjakob Ziemer is a founding participant in the Berlin Network for the History of Listening which was created in 2009 as a forum for scholars from the MPIWG, HU, FU and other universities working on the history of listening to discuss their work from different disciplinary and methodological perspectives. His current research on journalistic knowledge in the 19th and 20th centuries further develops his interest in phenomena of the public sphere. In that project he studies the establishment of journalistic practices as cognitive tools to describe, reflect and transform social and cultural knowledge of the everyday.

1. Toward an International Center for the History of Knowledge in Berlin: Present State and Future Perspectives

In 2007, the MPIWG entered a formal cooperation agreement involving the Max Planck Society, the Humboldt University, and the Free University, with the aim of establishing an international center for the history of knowledge. This new center strengthens the history of science in Berlin's universities and research institutions. Specifically, as a forum for historians of science, it pursues three interrelated objectives: interdisciplinary dialogue toward a comprehensive cultural history of knowledge; the cultivation of relations between the natural sciences on the one hand and the humanities and social sciences on the other; and the forging of networks among historically-oriented humanities and social science disciplines. The history of knowledge serves as a node among these disciplines.

The agreement yielded initial results in 2008 and 2009, including new staff hires and the strengthening of ties among those scholars working on the history of science in Berlin. The Max Planck Society has initiated two new research groups, and, together with its university partners, successfully concluded two search committees resulting in formal job offers. While one candidate, Professor Joachim Kurtz, was appointed a W3-Professor at Heidelberg University shortly after accepting the offer of the Max Planck Society, Dr. Veronika Lipphardt successfully launched her research group on *Historicizing Knowledge About Human Biological Diversity in the 20th Century* this

past fall. Dr. Lipphardt is expected to be appointed S-Professor for the History of Life Sciences at the Free University in 2010, allowing Dr. Lipphardt to assume her teaching obligations in that partner university's history department. A joint search committee of the Free University and the Max Planck Society will soon name a second research group director. Two additional appointments deserve mention in this context: The Free University has appointed Professor Mark Geller in the TOPOI excellence cluster as a new W3-Professor for the History of Knowledge. The Humboldt University will soon appoint a new Junior Professor for the History of the Human Sciences.

The partners' goal remains to create dual appointments—at both the MPIWG and respective partner universities—enabling scholars to define future research. In 2010, the agreement will be expanded to include Berlin's Technical University. The Technical University Berlin has one of the oldest chairs in the history of science in Germany, and the university has recently placed new emphasis on our field with the establishment of its *Innovation Center for the Study of Knowledge*. These developments were actively supported by the Berlin Center's cooperation council, established in 2007 and consisting of scholars in relevant disciplines from all partners in Berlin. The advisory board also includes representatives from other institutions with an abiding interest in the history of knowledge, including the Prussian Cultural Heritage Foundation and the Center for Human and Health Sciences at the Charité, the medical school for both the Humboldt University and the Free University.

The initial hires made possible by the 2007 agreement have occurred amid both heightened interest and dynamic changes in the history of science in Berlin. The research field received further impulses via new projects and positions set in motion at the Humboldt University and the TU Berlin. The partners have also begun to coordinate research-oriented teaching. Together, they seek to make the wealth of themes and methods developed in the history of science relevant to many different university departments and disciplines. To this end, the cooperation partners will soon issue a first joint course reading list. Further initiatives for 2010 and 2011 include a website underscoring the commitment of Berlin's institutions to the history of science. The partners also plan to hold joint events to mark each new academic semester, including a new workshop for assistant professors in Berlin.



Freie Universität Berlin, Henry-Ford-Bau.
Photo: Reinhard Görner, FU Berlin

Humboldt-Universität zu Berlin.
Photo: Heike Zappe, HU Berlin

Technische Universität Berlin,
Photo: Ulrich Dahl, TU Berlin

Members of the Cooperation Council

Regular Members

- Prof. Dr. Rüdiger vom Bruch, Humboldt-University
- Prof. Dr. Christof Rapp, Humboldt-University
- Prof. Dr. Hartmut Böhme, Humboldt-University
- Prof. Dr. Herfried Münkler, Humboldt-University
- Prof. Dr. Erika Fischer-Lichte, Free University
- Prof. Dr. Julia Müller-Tamm, Free University
- Prof. Dr. Christine Keitel-Kreidt, Free University
- Prof. Dr. Wilhelm Schmidt-Biggemann, Free University
- Prof. Dr. Jürgen Renn, MPIWG
- Prof. Dr. Lorraine Daston, MPIWG
- Prof. Dr. Hans-Jörg Rheinberger, MPIWG
- Prof. Dr. Peter Hammerstein, Humboldt-University
(representative of the MPIWG-advisory board)

Guest Members

- Prof. Dr. Volker Hess, Humboldt University
- Prof. Dr. Hermann Parzinger,
The Prussian Cultural Heritage Foundation
- Prof. Dr. Gerhard Wolf, Kunsthistorisches
Institut in Florence-MPI
- Prof. Dr. Günter Abel, Technical University

2. Outreach Activities of the Institute



Public Events

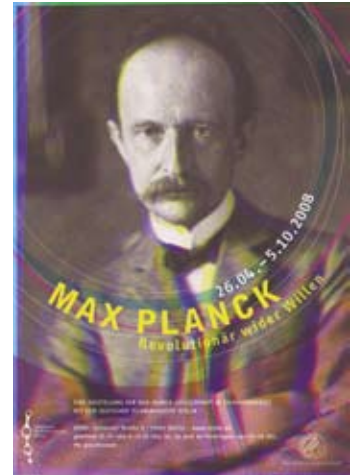
Left: Poster announcing the two panel discussions with Marcel Beyer, who was the “writer-in-residence” at the MPIWG in May 2008. The two events with him focused on the relationships of literature and biological knowledge and consisted first of a reading by Marcel Beyer followed by a discussion with Hans-Jörg Rheinberger and Safia Azzouni on “*Naturkunde: Poetisches trifft biologisches Wissen.*” The second event was a discussion of Marcel Beyer with Peter Berz and Christoph Hoffmann on “*Poetische treffen biologische Sprachen.*” Both events were coordinated by Safia Azzouni and Christoph Hoffmann as part of the project “Knowledge in the Making.”

→ p. 136

Right: Poster announcing a panel discussion that formed part of the Darwin Year 2009 and convened historians of art, science and literature at the MPIWG on “*Survival of the Prettiest. Evolution, Kunst und Ästhetik nach Darwin.*” (“Survival of the Prettiest. Evolution, Art and Aesthetics after Darwin”). Discussants were Peter Berz (University Vienna), Pamela Kort (curator-in-residence at the MPIWG and curator of the exhibition “*Darwin. Art and the Search for Origins.*”), Winfried Menninghaus (Freie Universität Berlin), Hans-Jörg Rheinberger (MPIWG) and Barbara Wittmann (MPIWG), who also coordinated the event as part of the project “Knowledge in the Making.”

The Quantum History Project contributed the texts to the spring 2008 exhibition “Max Planck: Revolutionär wider Willen” (“Max Planck: Reluctant Revolutionary”) organized by the Max Planck Society at the Deutsches Technik Museum in honor of the 150th birthday of Max Planck. These texts were published in a special issue of the popular science journal *Spektrum der Wissenschaft*.

→ Quantum Physics Project, p. 38



Physiology of the Piano: Lectures and Concerts on the Common History of Science and Music, II and III

Since 2006 MPIWG historians of science, musicians, and musicologists have analyzed the issue how and why piano playing has been a paradigm for the investigation of human physiology and psychology since the 19th century. In 15 concerts and lectures, they explored historicity and mutability of musical tuning in the sciences and in performance practice. Some of the results of those evenings were published in the MPIWG preprint series (No. 366). This series was coordinated by Julia Kursell. It is part of the project “Experimentalization of Life” that investigates the emergence of experimental cultures after 19th century physiology had introduced experimentation as its basic methodology. In this process, piano playing was considered to be a rich topic for the investigation of cognitive and motor skills, sensory perception and emotion. Pianists were invited into the scientists’ laboratories as experimental subjects and collaborators. The series centered on such examples of collaboration, which continue to this day: they asked for the feedback between science and aesthetics, and explored the possibility not only to talk about performance and sound, but to make them accessible to a broader audience.

→ Experimentalization of Life, p. 120



In 2007/2008 and 2009, the following events took place:

October 24, 2007: Composer Bernhard Lang, pianist Heather O'Donnell, and philosophers Hans-Jörg Rheinberger (MPIWG) and Joseph Vogl (professor for German Literature at Humboldt University) discussed the topic of repetition in music and scientific experimentation. Their point of departure was Lang's cycle of composition "*Differenz und Wiederholung*" ("*Difference and Repetition*"), which was performed by Heather O'Donnell.

January 23, 2008: Ernst Surberg, piano and keyboard, performed music by Sebastian Claren, Reinhard Febel and Enno Poppe. Composers Claren and Poppe discussed two of their compositions that challenge the motor skills of the pianist. Claren's *Alkan* is a collage from 19th-century virtuoso Charles Valentin Alkan's fiendishly difficult music; Poppe reprogrammed a keyboard instrument, forcing the pianist to 'reprogram' the internal scheme of finger use.

March 6, 2008: An evening devoted to the relationships of music and space. Xenia Hu, piano, performed the sound installation *Mount Blanc* for piano and sound projection (2002) as well as further compositions by Bernhard Gál. Thomas Ertelt, director of the State Institute for Music Research, discussed with the two artists about this piece, which was especially designed for the institute's concert hall.

April 9, 2008: Martin Zenck's lecture on the concepts of taste and touch in 18th-century was juxtaposed to Johann Sebastian Bach's Goldberg Variations. After playing Bach's cycle of variations in its entirety, Natalia Solotych introduced the audience to the various national styles of 18th-century keyboard music.

June 11, 2008: Florian Hoelscher, pianist in residence at the MPIWG, performed music by Luigi Nono, Oliver Schneller, Jonathan Harvey and Marco Stroppa for piano and electronics. Following the concert, he and the composers Stroppa and Schneller discussed the extension of instrumental music by live electronics.

May 13, 2009: Major figures in the history of physics such as Galilei, Kepler, Helmholtz, and Max Planck have been involved in the question that was discussed on this evening: the search for the ideal key board tuning system. Wolfgang Auhagen, the leading specialist on this topic, gave an introductory lecture, followed by a concert featuring the tuning systems invented by composer Edu Haubensak from Zurich. Tomas Bächli, piano, performed his pieces "Suite" and "Halo" for scordatura piano.

June 10, 2009: Hans-Christian Jabusch, professor at the Department of Music Medicine (IMM) at Dresden's Hochschule für Musik Carl Maria von Weber and pianist Ragna Schirmer gave two lectures about practicing the piano. Jabusch introduced the audience to the neurological processes accompanying successful practicing. Schirmer discussed the practical aspects of practicing, accompanied by performances of Chopin's Etudes and Liszt's Hungarian Rhapsodies.

Feature Stories online

As part of the MPIWG website relaunch in 2008, the institute started to establish a new format of feature stories as a portal to ongoing research activities at the MPIWG. Research fellows frequently present individual contributions of one relevant aspect of their research, or regarding a central aspect of the institute's research agenda at the front page of the institute's website. This format makes use of the opportunities of the Internet to make the latest research easily available and to offer links to sources, databases, audio-visual material, publications, authors and partner institutions. In 2010, these feature stories will be republished in a printed version.



Feature 1 **What (Good) is Historical Epistemology?** Reflections on a Conference at the MPIWG, July 2008 (by Thomas Sturm)



Feature 2 **Microscope Slides: An Object of the History of Science?** The Rediscovery of a Historical Resource (by Hannah Lotte Lund)



Feature 3 **Telling Instruments.** The Material Culture of Hugo Münsterberg's Laboratories in Freiburg and at Harvard (by Henning Schmidgen)



Feature 4 **New Ways of Using Digital Images.** Recommendations Concerning the Free Use of Visual Media for Scholarly Purposes (by Christine von Oertzen)



Feature 5 **Numbering Bees—A History of the Bee Language.** Karl von Frisch, the Honeybee Dances, and Twentieth-Century Sciences of Communication (by Tania Munz)



Feature 6 **The Physiology of the Piano—Keystroke Experiments During the 1920s.** The Moscow Neurophysiologist Nikolai Bernstein Brought Piano Virtuosos into the Laboratory (by Julia Kursell)



Feature 7 **Who Were Einstein's Opponents?** Popular Opposition to the Theory of Relativity in the 1920s (by Milena Wazeck)



Feature 8 **Dreaming in and of Neurophilosophy.** An Anthropological Investigation of Brain Research and Philosophy in the Sleep Laboratory (by Nicolas Langlitz)



Feature 9 **Historicizing Knowledge about Human Biodiversity.** An Independent Research Group Is Investigating the History of the Biosciences during the Twentieth Century (by Veronika Lipphardt)



Feature 10 **Galileo and the Others—Background to a Revolution in Astronomy.** To mark the anniversary of Galileo's discovery of Jupiter's moons *Sterne und Weltraum* will publish a special issue (by Matteo Valleriani, Jakob Staude and Jürgen Renn)

Overviews

Researchers and Guests

Oscar João Abdounur, Ph. D., Professor Associado, Universidade de São Paulo, Brazil (Visiting Scholar, February 1, 2008–January 31, 2009 and December 12, 2009–January 9, 2010): The Effect of Epistemological Principles in the Historical Development of Mathematical Ideas

Naamah Akavia, University of California, Los Angeles, U.S.A. (Predoctoral Research Fellow, January 1, 2008–March 31, 2008 and October 2008–December 2008, funded by UCLA and MPIWG): The Aesthetics of Psychotherapeutic Dynamics

Gadi Algazi, Ph. D., Associate Professor for History at Tel Aviv University, Israel (Visiting Scholar, July 1–August 31, 2009): Households of Knowledge: Reshaping the Scholarly Habitus, 1300–1600

Kirsti Andersen, Dr., Professor at the Department of Science Studies, Aarhus University, Denmark (Visiting Scholar, August 3–October 28, 2009, funded by the Aarhus University, Denmark): The Early History of the Logarithms

Daniel Andersson, Ph. D. (Postdoctoral Research Fellow, September 1, 2007–August 31, 2010): Styles of Observation and Experience in Renaissance Aristotelianism

Lígia Arantes Sad, Dr., Professor of the History of Mathematics at the Federal University of Espírito Santo, Brazil (Visiting Scholar, October 15–December 14, 2008): Mathematics Education in an Intercultural Perspective for Native Brazilians (Indians) in the State of Espírito Santo

Mitchell G. Ash, Ph. D., Ordentlicher Universitätsprofessor für Geschichte der Neuzeit, Universität Wien, Austria (Visiting Scholar, June 2–July 24, 2009, funded by the Universität Wien, Austria): Scientific and Political Changes in 20th-Century Germany and Austria—1918, 1933/38, 1945, 1989/90

Safia Azzouni, Dr. (Karl Schädler Postdoctoral Research Fellow, October 1, 2008 – June 30, 2010, funded by the Liechtenstein Fonds for the History of Science): The Popular Science Book: A New Genre between Literature and Science in the Late Nineteenth and Early Twentieth Centuries

Nikolaus Bacht, Dr. (Emmy Noether Research Group Director, October 1, 2008 – September 30, 2011, funded by the Deutsche Forschungsgemeinschaft): Philosophy and History of Listening

Massimiliano Badino, Ph. D. (Postdoctoral Research Fellow, June 1, 2005 – September 30, 2011): Thermodynamics and Statistical Mechanics from Boltzmann to Planck

Manuela Bauche, Leipzig University, Germany (Predoctoral Research Fellow, January 1 – March 31, 2010): Science, Metropole and Colony: The Medical Discourse on Malaria between Germany and Africa, ca. 1880–1920

Susanne Bauer, Dr. (Research Scholar, September 1, 2009 – August 31, 2012): Micropolitics of Difference: Soviet/Russian Biomedical Sciences from the Atomic Age to Genomics

Antonio Becchi, Dr.-Ing. (Visiting Scholar (intermittent), May 15, 2002 – September 30, 2010): Epistemic History of Architecture

Viola van Beek, Humboldt-Universität zu Berlin, Germany (Predoctoral Research Fellow, July 1, 2007 – June 30, 2009): Codes of Experimenting and Experimental Spaces around 1900

Domenico Bertoloni-Meli, Ph. D., Professor of History and Philosophy of Science, Indiana University, Bloomington, U.S.A. (Visiting Scholar, May 1 – June 30, 2009): Observing Life Processes: Vivisection from Colombo to Haller

Peter Beurton, Dr. (Research Scholar, September 1, 1994 – March 31, 2006, associated): Research Strategies in Biological Evolutionary Theory; Modern Darwinism and the Philosophy of Science

Marcel Beyer, (Author in Residence, April 21 – May 31, 2008): Explorations and the Nature of Language: Research as a Process

Charlotte Bigg, Ph. D., Centre Alexandre Koyré/CNRS, Paris, France (Visiting Scholar, January 1 – April 30, 2009): Brownian Motion Research c. 1900

Estelle Blaschke, E.H.E.S.S./Université Paris I—Sorbonne, France (Predoctoral Research Fellow, November 1, 2009 – September 30, 2010): From the Picture Archive to the Image Bank: Commercializing the Visual through Photography

David Bloor, Ph. D., Professor of Sociology of Science at the University of Edinburgh, U.K. (Visiting Scholar, April 1–June 30, 2008): Rival Theories of Aerofoil, 1904–1926

Hans Erich Bödeker, Dr. (Research Scholar, December 1, 2006–November 30, 2009): The Emergence of the Modern Social and Human Sciences

Bernhard Bolech, Universität Wien, Austria (Predoctoral Research Fellow, May 1–June 30, 2009, funded by the Universität Wien, Austria): Brain Research and the Human Sciences in Vienna around 1900

Stefan Borchers, Dr. des. (Karl Schädler Postdoctoral Research Fellow, March 1, 2009–February 28, 2011, funded by the Liechtenstein Fonds for the History of Science): Propagation of the Soul—Inheritance of the Sin

Francesca Bordogna, Ph. D., Associate Professor, Northwestern University, U.S.A. (Visiting Scholar, October 1, 2009–May 31, 2010): The Pragmatist Hotel: Psychology as a Way of Life

Arianna Borrelli, Dr. (Visiting Scholar, September 1, 2005–January 31, 2010, funded by the Fritz-Haber-Institut der Max-Planck-Gesellschaft): The Role of Molecules in the Development of Quantum Mechanics, with a Special Regard for the Contribution of Michael Polanyi and Eugene Wigner

Henk Bos, Ph. D., Prof. em. Aarhus University, Denmark and University of Utrecht, The Netherlands (Visiting Scholar, August 3–October 28, 2009, funded by the Aarhus University, Denmark): The Early Modern Tradition of Geometrical Problem Solving

Adam Bostanci, PHG Foundation Lecturer in Social Sciences, University of Cambridge, U.K. (Visiting Scholar, June 1–August 31, 2009): Social Dimensions of Human Genomics, and of (Non-Invasive) Prenatal Diagnosis

Marie-Noëlle Bourguet, Dr., Professeur d'histoire moderne, Université Paris 7, France (Visiting Scholar, February 1–June 30, 2009): À la vue des choses: The Scientific Traveller's Notebook (18th–19th Century)

Robert Brain, Ph. D., Assistant Professor, Department of History, University of British Columbia, Canada (Visiting Scholar, October 1–October 31, 2009): The Pulse of Modernism: Experimental Phonetics and the Invention of Free Verse and All-Sound Performance

Katharina Brandenberger, Universität Zürich, Switzerland (Predoctoral Research Fellow, November 1, 2009–April 30, 2010, funded by the Schweizerischer Nationalfonds): Psychotropic Drugs in Clinics and Society, 1950–1970

Thomas Brandstetter, Dr. (Visiting Scholar, August 1–August 31, 2008): Knowledge and Imitation. Mimetic Experiments in the Sciences around 1900

Christina Brandt, Dr. (Research Scholar, June 1, 2003–January 31, 2011, funded by the Minerva Program of the Max Planck Society): Reproduction in Biology. Configurations between Science and Culture, 1900–2000

Jean-François Braunstein, Ph. D., Professor of Philosophy at the University of Paris 1, France (Visiting Scholar, June 1–July 31, 2008): The History of Historical Epistemology in the French Context.

Francesca Bray, Ph. D., Professor of Social Anthropology, University of Edinburgh, U.K. (Visiting Scholar, October 15–November 30, 2009): Significant Technologies: Rethinking Technology as a Heuristic in Chinese History

Marco Bresadola, Ph. D., Assistant Professor at the University of Ferrara, Italy (Visiting Scholar, May 1–June 30, 2008): Practices of Observation in Italian Anatomy and Life Sciences, ca. 1660–1720.

Charlotte Brives, Ph. D., Université Victor Segalen, Bordeaux II, France (Visiting Scholar, June 15–September 15, 2008): Yeast *Saccharomyces Cerevisiae* as a Model Organism: Co-emergence of a Natural Entity and an Epistemic Community

Mirjam Sarah Brusius, M.A., Ph. D. Candidate, University of Cambridge, U.K. (Predoctoral Research Fellow, April 1, 2009–June 30, 2010, funded by the Gerda Henkel Stiftung, AHRC, Cambridge Trust): Preserving the Forgotten—William Henry Fox Talbot, Photography and the Antique

Jochen Büttner, Dipl. Phys. (Research Scholar, July 1, 2004–December 31, 2012, funded by the Deutsche Forschungsgemeinschaft): Early Modern Mechanics

Raúl Cabello, Universidad Autónoma de Madrid, Spain (Predoctoral Research Fellow, February 4–April 25, 2008 and May 2–July 27, 2009, funded by the Gobierno Vasco/Basque Government, Spain): Science-War Relations in Wilhelminian Germany.

Silvia Caianiello, L'Istituto per la Storia del Pensiero Filosofico e Scientifico Moderno (ISPF), Napoli, Italy (Visiting Scholar, August 27, 2007–July 31, 2008, funded by the Consiglio Nazionale delle Ricerche, Italy): History and Philosophy of the Notion of Modularity in the Life Sciences

Luis Campos, Ph. D. (Postdoctoral Research Fellow, October 1, 2007–September 30, 2008): Synthetic Biology: Engineering Life in the Test Tube

Jimena Canales, Ph. D., Assistant Professor of the History of Science, Harvard University, U.S.A. (Visiting Scholar, June 1–June 30, 2009): Individual Differences in Observation and Reaction

John Carson, Ph. D., Associate Professor for History at the University of Michigan, U.S.A. (Visiting Scholar, January 5–July 31, 2009): Mental Ability and the Birth of Medical Jurisprudence

Giuseppe Castagnetti, (Research Scholar, April 1, 2003–September 30, 2011): History of Institutions of Physics in the 20th Century; Political and Social Context of Albert Einstein’s Activities in Berlin.

Robert Casties, Dr. (Research Scholar since January 1, 2002): Information Technology Group

Francesco Paolo de Ceglia, Ph. D. (Visiting Scholar, October 1–December 31, 2009): Signs of Death

Grégoire Chamayou, Ph. D. (Research Scholar, September 1, 2009–August 31, 2012): The History and Philosophy of “Traceability”

Yue CHEN, Institute for the History of Natural Sciences, Chinese Academy of Sciences, Beijing, China (Predoctoral Research Fellow, April 1–September 30, 2008)

Tobias Cheung, PD Dr. (Visiting Scholar, April 1–December 31, 2009, funded by the Deutsche Forschungsgemeinschaft—Heisenberg Programm): Stimulus-Reaction-Schemes in Psychologies, Anthropologies, Urban Systems, and the Life Sciences 1830–1950.

Suparna Choudhury, Ph. D. (Research Scholar, September 1, 2008–August 31, 2014, funded by the Minerva Program of the Max Planck Society): Constructions of the Brain: Critical Neuroscience and the Adolescent Brain

Pingyi CHU, Ph. D., Associate Research Fellow, Institute of History & Philology, Academia Sinica, Taipei, Taiwan (Visiting Scholar, September 1–October 15, 2009): Construction of Disease and Narrating the Pain

Alix Cooper, Ph. D., Associate Professor of History at the State University of New York at Stony Brook, U.S.A. (Visiting Scholar, September 1–November 30, 2008, funded by the SUNY-Stony Brook): Domestic Matters: Family, Household, and the Labors of Observation in Early Modern Europe

Jacob Lebovitch Dahl, Ph. D., Lecturer of Oriental Studies at the University of Oxford, U.K. (Research Scholar, October 1, 2005–September 30, 2008): Sumerian, Pre-classical Socio-economic History, and Early Near Eastern Writing Systems

Peter Damerow, PD Dr. (Research Scholar, January 1, 1997–December 31, 2005, associated): History of Science and Education, Individual and Historical Development of Cognition, Genesis of Writing and Arithmetic, History of Mathematics and Physics in Ancient and Early Modern Period

Lorraine Daston, Ph. D., Professor, Committee on Social Thought, University of Chicago, U.S.A., Honorarprofessorin für Wissenschaftsgeschichte an der Humboldt-Universität zu Berlin, Germany (Director at the MPIWG since July 15, 1995): History of Scientific Observation, Cognitive Practices of Science

Didier Debaise, Ph. D. (Postdoctoral Research Fellow, October 1, 2008–January 31, 2011, funded by the Alexander-von-Humboldt-Stiftung): Pragmatism and the Life Sciences. The Emergence of an Evolutionary Philosophy

Elisabeth Decultot, Dr., Directrice de recherche au Centre national de la recherche scientifique, Paris, France (Visiting Scholar, May 1–May 31, 2008, funded by the Alexander-von-Humboldt-Stiftung): Aesthetics and History of Art in the Eighteenth Century (particularity Winckelmann, Sulzer)

Tamás Demeter, Ph. D. (Lorenz Krüger Postdoctoral Research Fellow, June 1, 2008–October 31, 2010): Hume and the Ideology of the Scientific Revolution

Emmanuel Didier, Ph. D., Research Fellow at the French National Center for Scientific Research, France (Postdoctoral Research Fellow, March 23–August 8, 2008): US Survey Statistics during the Interwar Period

Otniel E. Dror, MD, Ph. D., Senior Lecturer at the Hebrew University Jerusalem, Israel (Visiting Scholar, August 30–September 19, 2009): The Adrenaline Century, 1900–2000

Stéphanie Dupouy, Ph. D., Institut d'histoire et de philosophie de sciences et des techniques, Université Paris 1, France (Visiting Scholar, February 1–March 31, 2009): History of Experimentation in Psychology, 19th–20th Century

Maarten van Dyck, Dr. (Visiting Scholar, September 1, 2007–February 29, 2008, funded by the Research Foundation–Flanders): Early Modern Mechanics from Guidobaldo del Monte to Christiaan Huygens

Elizabeth Edwards, Professor and Senior Research Fellow at the University of the Arts London, U.K. (Visiting Scholar, February 19–March 28, 2008): Camera as Historian: Photography, Survey, and the Construction of an Historical Topography. 1885–1918

Miki Elazar, (Postdoctoral Research Fellow, September 1, 2009–December 31, 2010): Jesuit Science in the 17th Century

Eric J. Engstrom, Ph. D., Research Associate, Department of History, Humboldt-Universität zu Berlin, Germany (Visiting Scholar, November 1, 2009–January 31, 2010): Emil Kraepelin's Research on Native and African American Psychiatric Patients and his Trip to the United States in 1925

Rand B. Evans, Ph. D., Professor at the Department of Psychology, East Carolina University, U.S.A. (Visiting Scholar, May 1–May 31, 2009): Wilhelm Wundt and the Astronomers: Stellar Transits and the Measurement of Prior Entry in the Beginning of Experimental Psychology

Aude Fauvel, Ph. D. (Postdoctoral Research Fellow, September 1, 2009 – August 31, 2010): Women, Madness, and Psychiatry in France. From ‘Insane Females’ to Women Doctores

Andrew M. Fearnley, Cambridge University, U.K. (Predoctoral Research Fellow, September 1, 2009 – February 28, 2010): Methods to Madness: Race, Knowledge and American Psychiatry, 1880–2000

Johannes Fehr, Dr. phil., Titularprofessor, Leiter des Ludwik Fleck Zentrums am Collegium Helveticum der ETH Zürich, Switzerland (Visiting Scholar, February 15–May 15, 2009): The Role of Language in Fleck’s Thinking on Science and Cognition

Rivka Feldhay, Ph. D., Associate Professor at the Cohn Institute for the History and Philosophy of Science and Ideas at Tel Aviv University, Israel (Visiting Scholar, July 22–August 31, 2008 and August 1–September 1, 2009): Jesuits on Statics, Dynamics, Mathematics, and Astronomy between Galileo and Newton

Jiren FENG, Ph. D., School of Languages and Cultures, Victoria University of Wellington, New Zealand (Postdoctoral Research Fellow, October 1, 2006–September 30, 2008): History of Chinese Art and Architecture—Cultural Traditions of Architectural Technology as Reflected in Chinese Building Manuals of the 15th to 19th Century

Erna Fiorentini, Dr. Dr. (Visiting Scholar, January 1, 2003 – December 31, 2008, funded by the Freie Universität Berlin): Vision and Representation between Aesthetic Experience and Scientific Objectivity

Maja Fjaestad, Royal Institute of Technology, Sweden (Predoctoral Research Fellow, September 12, 2008 – September 1, 2010, funded by the Bank of Sweden, Tercentenary Foundation): Nuclear Power History. Utopian Aspects of the Swedish Nuclear Breeder Program

Ragnar Fjelland, Ph. D., Professor of Theory of Science at the University of Bergen, Norway (Visiting Scholar, July 1–July 31, 2008): 1. On the Lifeworld Foundation of Science: Einstein and the Special Theory of Relativity 2. Newton and Goethe on Reality and Scientific Method

Martha Fleming, Ph. D., Natural History Museum/King’s College London, U.K. (Visiting Scholar, January 1–February 29, 2008): Intermittence and Inspiration: Flicker, Pulse, Scintillate

Fabio Freitas, Universidade Estadual de Feira de Santana, Brazil (Predoctoral Research Fellow, June 30–July 30, 2008 and December 1, 2009–February 28, 2010): The Emergence of Decoherence: The Many Ways of a Physical Phenomenon

Gideon Freudenthal, Dr., Professor of Philosophy at the Tel Aviv University, Israel (Visiting Scholar, August 25–September 25, 2008 and September 1–September 30, 2009): “Ars Inveniendi” in the 18th Century

Vivette García Deister (Predoctoral Research Fellow, March 16–April 12, 2009, funded by the CONACyT)

Rodolphe Gasché, Ph. D., Distinguished Professor & Eugenio Donato Chair of Comparative Literature, University at Buffalo, The State University of New York, U.S.A. (Visiting Scholar, June 15–July 30, 2009): The Concept of Process in Alfred N. Whitehead and Hannah Arendt

Bernd Gausemeier, Dr. (Research Scholar, October 1, 2004–May 31, 2010): Genealogy and Human Heredity from the 18th to the Early 20th Century

Oliver Gaycken, Ph. D., Assistant Professor at Temple University, Philadelphia, U.S.A. (Visiting Scholar, January 1–June 30, 2009, funded by the Temple University, Philadelphia): Popular Scientific Cinema 1890–1918

Florentina Badalanova Geller, Ph. D. (Visiting Scholar, December 17, 2007–January 16, 2008; June 23–September 10, 2008 and June 25–September 25, 2009): Oral Tradition and Holy Writ: The Folk Bible

Mark Geller, Ph. D., Professor of Hebrew and Jewish Studies at the University College London, U.K. (Visiting Scholar, December 17, 2007–January 16, 2008; June 23–September 10, 2008 and June 25–September 25, 2009): Babylonian Astral Medicine and Melothesia

Hannah Ginsborg, Ph. D., Professor of Philosophy at the University of California, Berkeley, U.S.A. (Visiting Scholar, June 1–August 16, 2008, funded by the University of California, Berkeley): Primitive Normativity and Rule-Following

Amanda Jo Goldstein, Department of Comparative Literature, University of California, Berkeley, U.S.A. (Predoctoral Research Fellow, November 1–November 30, 2009, funded by the Deutscher Akademischer Austauschdienst): Tender Empiricism and Improper Bildung: Goethe’s Counter-Disciplinary Morphology

Michael Gordin, Ph. D., Professor of History at Princeton University, U.S.A. (Visiting Scholar, September 1, 2007–August 15, 2008): International History of the Atomic Monopoly, 1945–1949

Jean-Baptiste Gouyon, Ph. D. (Postdoctoral Research Fellow, September 1, 2009–August 31, 2010): Archiving the Doomed. Fashioning a Public Science of Conservation

Mathias Grote, Dr. (Postdoctoral Research Fellow, January 1–December 31, 2009): Transformations of Scientific Objects: Cells, Membranes, and Molecules (1970–1990)

Angela Grünberg, D. Phil. (Oxon), University of Sheffield, U.K. (Postdoctoral Research Fellow, September 1–December 31, 2009): Virtues as Sensibilities: The Tone of the German Language

Katja Guenther, Ph. D., Princeton University, U.S.A. (Postdoctoral Research Fellow, June 29–July 17, 2009): A Body Made of Nerves—Reflexes, Body Maps and the Limits of the Self in Modern German Medicine

Nils Güttler, Humboldt-Universität zu Berlin, Germany (Predoctoral Research Fellow, November 1, 2008–December 31, 2010, funded by the Studienstiftung des Deutschen Volkes): The Role of Maps in 19th Century Plant Geography

David Gugerli, Dr., Professor für Technikgeschichte an der ETH Zürich, Switzerland (Visiting Scholar, June 1–July 31, 2009, funded by the ETH Zürich): Dealing with Human Capital 1950–2000

Ximo Guillem-Llobat, Ph. D. (Postdoctoral Research Fellow, October 1, 2009–March 31, 2010): New Concepts of Food Quality and Safety in the Late Nineteenth and Early Twentieth Century. Artificial Sweeteners, Municipal Laboratories, and the Search for International Standards

Fuxiang GUO, Ph. D., Department of the Court History, The Palace Museum, Beijing, China (Visiting Scholar, July 1–August 31, 2008 and July 8–September 30, 2009): History and Art of the Court in the Ming and Quing Dynasty. The Clocks and Watches in the Quing Dynasty

Michael Hagner, Dr., Professor für Wissenschaftsforschung an der ETH Zürich, Switzerland (Visiting Scholar, February 1–June 30, 2009): What is Dippoldism? On Sexuality, Criminality and Media around 1900

Carmen Hammer (Research Scholar, April 1, 2008–September 30, 2011): Scientific Supervision of Research Infrastructures Used within Projects: Development and Coordination of Archive Material

Yi HAN, Ph. D., Institute for the History of Natural Science, Chinese Acedemy of Sciences, Beijing, China (Visiting Scholar, April 10–June 8, 2008): Silk Production, Geographical Distribution and Technology Transfer in the Song Dynasty

Jonathan Harwood, Ph. D., Professor in the History of Science and Technology at the University of Manchester, U.K. (Visiting Scholar, September 1, 2007–April 30, 2008, funded by the Leverhulme Trust): Europe's Green Revolution: the Rise and Fall of Peasant-Friendly Plant-Breeding in Central Europe, 1890–1945

Gary Hatfield, Ph. D., Professor of Philosophy at the University of Pennsylvania, U.S.A. (Visiting Scholar, May 25–June 24, 2009): Crisis in Psychology; Internal Senses in Descartes; Diagram from Descartes' Dioptrique.

Juan HE, Ph. D., Institute for the History of Natural Science, Chinese Academy of Sciences, Beijing, China (Visiting Scholar, July 7–August 31, 2008): The Manipulation of Fire in Chinese Alchemy

Daniela Helbig, Harvard University, U.S.A. (Predoctoral Research Fellow, September 1–December 31, 2009): Turbulence in Flight and Fluid Dynamics between the World Wars

Ina Heumann, Universität Wien, Austria (Predoctoral Research Fellow (intermittent), July 1, 2009–December 31, 2010): Styles of Science Communication. German-American Transfer Histories, 1945/1964

Philipp von Hilgers, Dr. phil. (Postdoctoral Research Fellow, February 1, 2006–April 30, 2008): Mapping the Field of Vision. From Experimental Investigations of Reading to Pattern Recognition, 1860–1960

Florian Hoelscher (Pianist in Residence, April 15–June 15, 2008): Electro-acoustic Expansions of Piano Sound

Christoph Hoffmann, PD Dr. (Research Scholar, November 1, 2004–February 28, 2010): Epistemic Writings

Dieter Hoffmann, Dr., Außerordentlicher Professor an der Humboldt Universität zu Berlin, Germany (Research Scholar since December 1, 1995): History of Physics in the 19th and 20th Centuries, esp. Institutional History of Quantum Theory and Modern Metrology; History of Science in the GDR.

Martin Hofmann, Dr. (Postdoctoral Research Fellow, June 1, 2007–August 31, 2009): Philology of Master Craftsmen

Anna Holterhoff, Humboldt-Universität zu Berlin, Germany (Predoctoral Research Fellow, June 1, 2009–May 31, 2011, funded by the Excellence Cluster TOPOI): The Establishment and Reconstruction of Copernicanism from the 16th to the 18th Century

Giora Hon, Ph. D., Professor for Philosophy and History of Science at the University of Haifa, Israel (Visiting Scholar, September 1–September 30, 2008 and Summer

2009): 1. On Magnification; 2. Dissymmetry and Polarization in Biot and Pasteur. A Tale of Conceptual Analysis

Thierry Hoquet, Dr., Maître de Conférences. Université Paris 10, France (Visiting Scholar, April 15–May 15, 2008 and April 14–May 11, 2009): Sexual Selection. The Long Century of Absence, 1871–1972

Brad Hume, Ph.D., Assistant Professor, Department of History, University of Dayton, U.S.A. (Visiting Scholar, September 1–November 15, 2009): Heredity and the Temporality of the Body

Ludmila Hyman, Ph.D. (Postdoctoral Research Fellow, September 1, 2007–August 31, 2010): The Role of Concepts in Scientific Reasoning

Malcolm Hyman, Ph.D. (Research Scholar, 2004–2009): Text Processing, General Linguistics, Dissemination of New Research Methods

Anja Skaar Jacobsen, Ph.D. (Postdoctoral Research Fellow, November 15, 2008–January 31, 2009): Foundations of Quantum Theory and Marxism: Bohm versus Rosenfeld

Michel Janssen, Ph.D., Associate Professor for the History of Science at the University of Minnesota, U.S.A. (Visiting Scholar, June 1, 2008–May 31, 2009): History of the Relativity and Quantum Revolutions in Physics

Christian Joas, Dr. (Research Scholar, February 15, 2007–October 15, 2010, funded by the Fritz-Haber-Institut der Max-Planck-Gesellschaft): The Origins of Wave Mechanics: Schrödinger's Notebooks; the Advent of Quantum Field Theoretical Methods in Solid State Physics; the History of Computational Materials Science

Marta Jordi, University of Barcelona, Spain (Predoctoral Research Fellow, March 1–October 31, 2008 and February 1–December 31, 2011, funded by the Regional Government of Catalonia (Spain), the Deutscher Akademischer Austauschdienst, and the Institute): History of Optical Dispersion, from Classical to Quantum Physics

Edward Jurkowitz, Ph.D. (Visiting Scholar, June 15, 2008–June 15, 2010, funded by the Fritz-Haber-Institut der Max-Planck-Gesellschaft): The Role of Computation in Solid-state Physics

Stephan Kammer, Dr. (Visiting Scholar, March 1, 2008–December 31, 2009, funded by the Deutsche Forschungsgemeinschaft): Strokes and Expressions: The History of Graphological Knowledge (1750–1950)

Hyo Yoon KANG, Ph.D. (Postdoctoral Research Fellow, October 1, 2006–June 30, 2009): Patent Classification and Scientific Taxonomies: Law as a Space of History of Science?

Horst Kant, Dr. (Research Scholar since October 1, 1995): History of Physics in the 19th and 20th Centuries (esp. Atomic Physics and Institutional and Social Aspects)

Shaul Katzir, Ph. D. (Visiting Scholar, August 1, 2008–July 31, 2010, funded by the Alexander-von-Humboldt-Stiftung): The Transformations of Scientific Research Towards and Following Technological Application: Piezoelectricity during the First World War and its Aftermath

Doris Kaufmann, Dr., Professorin für Geschichte an der Universität Bremen, Germany (Visiting Scholar, September 1–December 31, 2008, funded by the Deutsche Forschungsgemeinschaft): ‘Extending Understanding Beyond Existing Borders’: The Discourse on Primitivism in the Cultural Sciences 1880–1930

Theresa M. Kelley, Ph.D., Professor of English at the University of Wisconsin-Madison, U.S.A. (Visiting Scholar, October 1–December 15, 2009, funded by the University of Wisconsin at Madison): Color Theory, Color Systems and the Status of Color in Taxonomic Systems and Botanical Illustration

Hartmut Kern, M.A. (Research Scholar since December 1, 2001): Project: Visualization and Publishing Scientific Content with Internet Technologies

Andreas Killen, Ph.D., Associate Professor of History at the City College of New York, U.S.A. (Visiting Scholar, June 15–July 15, 2008): The History of Early Cinema as a Discourse of Hypnosis and Suggestion

Philip Kitcher, Ph. D., Professor of Philosophy of Science at the Columbia University New York, U.S.A. (Visiting Scholar, October 1, 2007–May 31, 2008, funded by the Columbia University): Evolution, Altruism and Ethics

Stefanie Klamm, Humboldt-Universität zu Berlin, Germany (Predoctoral Research Fellow, May 1, 2006–September 30, 2009, funded by the MPIWG and the Gerda-Henkel-Stiftung): Strategies of Visualization in German Archaeology, 19th–20th c. As of October 2009: Predoctoral Fellow, The Getty Museum Research Institute, Los Angeles, U.S.A.

Ursula Klein, Dr., Außerordentliche Professorin an der Universität Konstanz, Germany (Research Scholar since July 1, 1998): Technoscience avant la lettre—Science and Technology in Prussia

Falk-Juri Knauff, Dr. forest. Dipl.-Forstwirt (Research Scholar, September 1, 2008–August 31, 2010): Geo Information System

Fabian Krämer, Ludwig-Maximilians-Universität München, Germany (Predoctoral Research Fellow, September 1, 2006–May 5, 2010, as of December 2009 funded by the FAZIT-Stiftung, Germany): Reference Structures in the Study of Nature

Arie Krampf, Ph. D. (Postdoctoral Research Fellow, July 1, 2008–June 30, 2010, funded by the Research Network “History of Scientific Objects”): Translation of Economic Knowledge to Developing Countries and History of Central Banking

Karin Krauthausen, Dr. des. (Postdoctoral Research Fellow, April 1, 2008–January 31, 2011): Valéry’s Cahiers (1984–1945)—Drawing and Writing as a Practice of Thought

Manfred Krebernik, Dr., Professor für Altorientalistik an der Friedrich-Schiller-Universität Jena, Germany (Visiting Scholar, April 1–December 31, 2008, funded by the Excellence Cluster TOPOI): Edition of the Lexical Texts from Fára in Connection with CDLI

Maria E. Kronfeldner, Dr. phil. (Karl Schädler Postdoctoral Research Fellow, March 1, 2006–September 30, 2008, funded by the Liechtenstein Fonds for the History of Science): The Anthropological Concept of Culture in the Context of Evolutionary Debates

Julia Kursell, Dr. phil. (Research Scholar, April 1, 2004–October 31, 2011, funded by the Initiative Pro Geisteswissenschaften): Historical Epistemology of Hearing (1850–2000)

Joachim Kurtz, Dr., Professor at the Ruprecht-Karls-Universität Heidelberg, Germany (Research Group Director, January 1–June 30, 2009): Rhetoric of Innovation in Late Imperial Chinese Texts

Nicolas Langlitz, Dr. med., Ph. D. (Postdoctoral Research Fellow, September 1, 2007–December 31, 2009): Neurophilosophers, Neuroscientists, and the Dreaming Brain

Manfred Laubichler, Ph. D., Professor of Theoretical Biology and History of Biology at the Arizona State University, U.S.A. (Visiting Scholar, April 1–July 31, 2008, funded by the Arizona State University, U.S.A.): Regulation and the Origin of Theoretical Biology

Mike Laufenberg, Technische Universität Berlin, Germany (Predoctoral Research Fellow, August 5–October 31, 2009 and December 1, 2009–March 31, 2010, funded by the Hans Böckler Stiftung/MPIWG): The Government of Sexuality: Subjectivity, Truth, and Power in the Age of Biology

Wolfgang Lefèvre, Dr., Außerordentlicher Professor an der Freien Universität Berlin, Germany (Research Scholar, July 1, 1994–February 28, 2006, associated): History of Science in Connection with History of Philosophy on the Basis of Social History; Sciences in Greek Antiquity; Early Modern Physics and Chemistry; History of Biology (15th–18th Centuries)

Christoph Lehner, Ph. D. (Research Scholar, January 1, 2004–September 30, 2011): History and Philosophy of Modern Physics

Daryn Lehoux, Ph. D., Associate Professor for the History and Philosophy of Science and Technology at the Queen's University, Canada (Visiting Scholar, August 1, 2007–July 31, 2008): Ancient Science. The Roles of Observation in Theory Formation and Epistemology

Xiaojuan LI, Institute for the History of Natural Science, Chinese Academy of Sciences, Beijing, China (Visiting Scholar, May 1–May 18, 2008): Visual Library and Digitization of Chinese Texts

Yuqun LIAO, Professor, Director of the Institute for the History of Natural Science, Beijing, China (Visiting Scholar, May 1–May 18, 2008): History of Traditional Chinese Medicine

Harry Liebersohn, Ph.D., Professor of History at the University of Illinois, U.S.A. (Visiting Scholar, May 19–June 27, 2008): Observing the Gift: the Making of a Social Scientific Category

Claudia Linhares Sanz, Universidade Federal Fluminense, Rio de Janeiro, Brazil (Predoctoral Research Fellow, September 4–December 28, 2008, funded by the Deutscher Akademischer Austauschdienst): The History of Scientific Photography and Current Historical and Sociological Research on Neuroimages

Veronika Lipphardt, Dr. (Research Group Director, March 1, 2009–August 31, 2014): Historicizing Knowledge about Human Biological Diversity in the 20th Century

William Lockhart, Humboldt-Universität zu Berlin, Germany (Predoctoral Research Fellow, October 1, 2008–September 30, 2010): Listening and Musical Analysis during the 19th Century

Pablo Lorenzano, Dr. phil., Professor for the Philosophy of Science at the National University of Quilmes, Argentina (Visiting Scholar, January 1–February 28, 2009): Theoretical Incommensurability and Empirical Comparability in the History of Genetics

Hannah Lotte Lund, (Research Scholar, September 1, 2005–August 31, 2010): Berlin Jewish Salons, Coordination of the “Network History of Scientific Objects”

Wenhua LUO, Ph. D., Department of the Court History, The Palace Museum, Beijing, China (Visiting Scholar, July 1–September 30, 2009): Technical Exchange between Qing Court and Tibet

Xingbo LUO, Institute for the History of Natural Science, Chinese Academy of Sciences, Beijing, China (Visiting Scholar, May 1–May 18, 2008): Data Entry Specifications and Digitization of Chinese Texts

Rui Magone, Ph. D. (Postdoctoral Research Fellow, March 1, 2009–April 30, 2010): Late Imperial China: The Relevance of Archival Practices to the Genesis and Evolution of Knowledge

Costas Mannouris, University of Athens, Greece (Predoctoral Research Fellow, September 1–September 30, 2009, funded by the Deutscher Akademischer Austauschdienst): Darwin’s Eight-Year Study of Barnacles: Rethinking the “Long Wait”

Silvia Manzo, Ph. D., Professor of History of Early-Modern Philosophy, Universidad Nacional de La Plata; Research Scholar CONICET, Argentina (Visiting Scholar, September 1–December 31, 2009): Probability and Certainty in Francis Bacon

José Ramon Marcaida, Institute of History, CISC, Madrid, Spain (Predoctoral Research Fellow, September 1–October 31, 2009, funded by the Spanish National Research Council): Nature, Art and Knowledge in Seventeenth-Century Spain

Claudia Mareis, Berner Fachhochschule—Hochschule der Künste Bern, Switzerland (Predoctoral Research Fellow, February 1–July 31, 2009, funded by the Schweizerischer Nationalfonds): Interferences between Discourses of Design and Knowledge

Lydia Marinelli, Dr., Sigmund Freud Museum Wien, Austria (Visiting Scholar, May 1–July 31, 2008): The Couch: From a Living Room Furnishing to a Site of Observation of the Unconscious

Alexander John Marr, Ph. D. (Visiting Scholar, February 4–May 4, 2008): Mathematics and Material Culture in Late Renaissance Italy

Brendan Matz, Yale University, New Haven, U.S.A. (Predoctoral Research Fellow, September 8–December 31, 2008, funded by the Deutscher Akademischer Austauschdienst): Animal Breeding and the Study of Heredity in Germany and the United States, 1850–1929

Andreas Mayer, Dr. (Research Scholar, March 1, 2007–October 31, 2010): History of Modern Dream Research and its Epistemic Values

Peter McLaughlin, Dr. phil., Professor für Philosophie, Universität Heidelberg, Germany (Visiting Scholar, July 1–October 31, 2008 and July 1–October 31, 2009): History of Mechanics. Aristotle’s “Mechanical Questions” in 16th and 17th Century Mechanics

Gordon R. McOuat, Ph. D., Associate Professor for the History of Science and Technology at the University of King's College/Dalhousie University, Canada (Visiting Scholar, January 12–March 8, 2009, funded by the Social Sciences and Humanities of Canada Research Grant): *Rewriting the History of Essentialism: Logic, Kinds and Place*

Marietta Meier, Dr. phil., University of Zurich and Collegium Helveticum, Switzerland (Visiting Scholar, August 18–September 12, 2008): *“The Emotional Sting”—Psychosurgery after the Second World War*

Maurizio Meloni, Ph. D., Università degli Studi di Roma *La Sapienza*, Italy (Postdoctoral Research Fellow, March 1–May 31, 2008): *Molecular “Dasein.” Living and Thinking in a Neurobiological Era*

Erika Milam, Ph. D. (Postdoctoral Research Fellow, September 1, 2007–December 31, 2008): *Animal Models of Behavior: Anthropomorphism, Zoomorphism, and Cultures of Observations*

Gregg Mitman, Ph. D., Professor of History of Science, Medical History & Bioethics, and Science and Technology Studies at the University of Wisconsin-Madison, U.S.A. (Visiting Scholar, January 1–June 30, 2008, funded by the Alexander-von-Humboldt-Stiftung): *American Rubber Empire*

Daniela Monaldi, Ph. D. (Postdoctoral Research Fellow, April 25, 2006–March 31, 2009): *The Early History of Bose-Einstein Statistics*

Amos Morris-Reich, Ph. D., University of Haifa, Israel (Visiting Scholar, January 18–February 25, 2008 and September 1–September 30, 2008, funded by the Van Leer Foundation Israel): *Race and Humanism: The Epistemology of Arthur Ruppin*

Annette Mülberger, Ph. D., Professor for History of Psychology, Universitat Autònoma de Barcelona, Spain (Visiting Scholar, August 12–September 12, 2008, April 5–April 12 and June 1–July 20, 2009, funded by the Universitat Autònoma de Barcelona, Spain): *Discussions about Crisis in Psychology in the Early Decade of the 20th Century*

Kathrin Müller, Dr., Kunsthistorisches Institut Florenz, Italy (Visiting Scholar, July 16–August 8, 2008, funded by the KHI Florenz): *Diagram and Ornament in Boethius’ “De institutione arithmetica”*

Staffan Müller-Wille, Dr. phil., Senior Lecturer, University of Exeter, U.K. (Visiting Scholar, August 1–August 31, 2009): *The Dark Side of Evolution: Caprice, Deceit, Redundancy*

Tania Munz, Ph. D. (Research Scholar, August 1, 2007–July 31, 2010): *The Dancing Bees: Karl von Frisch, the Honeybee Dance, and 20th Century Sciences of Communication*

Omar W. Nasim, Ph. D. (Postdoctoral Research Fellow, April 1, 2007– March 31, 2008): Constructing the Heavens: Drawings of Nebulae in Victorian Science

Jaume Navarro, Ph. D. (Visiting Scholar, January 1, 2009 – June 30, 2010, funded by the Alexander-von-Humboldt-Stiftung): Early Quantum Physics in Britain

Elio Nenci, Dr. phil. (Visiting Scholar, March, 27– August 7, 2008 and July 1, 2009 – December 31, 2010): The Relationship between Scientific Reflection and Practical Knowledge during the Renaissance and the First Decades of the 17th Century: The Case of Hydraulic Machines

Elizabeth Neswald, Ph. D., Associate Professor of History of Science and Technology, Brock University, St. Catherines, Canada (Visiting Scholar, January 1 – March 31, 2009, funded by the Canadian Institute of Health Research): Engineering the Body. Thermodynamics, Social Technologies and the Practice of Nutrition in the Late Nineteenth and Early Twentieth Centuries

Winifred Elyse Newman, Harvard University, U.S.A. (Predoctoral Research Fellow, September 1 – December 31, 2008): History and Philosophy of Aesthetics, Psychology and Perception

Kärin Nickelsen, Dr. phil.-nat., Assistenzprofessorin für Wissenschaftstheorie und -geschichte an der Universität Bern, Switzerland (Visiting Scholar, September 1 – December 31, 2008, funded by the Universität Bern): Of Light and Darkness: Modelling Photosynthesis 1840 – 1960

Sybilla Nikolow, PD Dr. (Research Scholar, April 1 – September 30, 2009): “Words Divide, Pictures Unite.” Otto Neurath’s Pictorial Statistics in Historical Context

Horst Nowacki, Dr.-Ing., Dr.h.c., Prof. em. of Ship Design (Visiting Scholar since August 1, 2001): Publications on the History of Ship Theory and Ship Design (Archimedes, Euler, Bouguer)

Christine von Oertzen, PD Dr. (Research Scholar since June 15, 2005): Gender, Science, Internationalism: A Transnational History of Female Academic Networking

Kathryn Olesko, Ph. D., Associate Professor for History at the Georgetown University, U.S.A. (Visiting Scholar, December 12 – December 22, 2008, funded by the Georgetown University): Prussian Precision, 1648 – 1947

Federico D’ Onofrio, Universiteit van Amsterdam, The Netherlands (Predoctoral Research Fellow, May 1 – June 30, 2009, funded by the University of Amsterdam, Netherlands): Political Economy in Eighteenth-Century Naples

Javier Ordóñez Rodríguez, Ph. D., Professor of History of Science at the Faculty of Philosophy and Letters of the Autonomous University of Madrid, Spain (Visiting

Scholar, February 1, 2009–February 1, 2010): *Studies on War and Science. Consequences of the Standardization in the German Science and Industry between 1880 and 1914 in Subsequents War in Europe*

Francisco Javier Guerrero Ortega, Dr. phil., Professor at the Institute for Social Medicine, State University of Rio de Janeiro, Brazil (Visiting Scholar, January 1–January 31 and July 1–July 31, 2009): *History of the Body, History of the Self*

Ernst-Wilhelm Osthues, Dr. (Research Scholar, December 1, 2005–December 31, 2009): *Epistemic History of Architecture*

Laura Otis, Ph. D., Professor at the Emory University Atlanta, U.S.A. (Visiting Scholar, July 1, 2007–August 14, 2008, December 15, 2008–January 15, 2009, May 1–August 15, 2009 and December 9, 2009–January 12, 2010, funded by the Alexander-von-Humboldt-Stiftung): *Thinking with Images, Thinking with Words. Expressing Sensation in Language*

José M. Pacheco, Ph. D., Professor for Applied Mathematics at the University of Las Palmas de Gran Canaria (Visiting Scholar, March 1–August 31, 2008 and July 5–August 30, 2009): *The Study of 19th Century Spanish Mathematics*

Cathleen Paethe, Freie Universität Berlin, Germany (Predoctoral Research Fellow, October 15, 2008–September 30, 2009): *The Bibliophile Qi Chenghan: Book Consumption and Commercialization in Late Ming China*

Claudia Passos Ferreira, Dr., Universidade do Estado do Rio de Janeiro, Brazil (Visiting Scholar, January 1–January 31, 2008, funded by the Deutscher Akademischer Austauschdienst): *Moral Psychology. The Impact of the Discovery of Mirror Neurons in Developmental Psychology Study of Morality*

Manolis Patiniotis, Ph. D., Assistant Professor in History of Science at the Department of Philosophy and History of Science, Athens University, Greece (Visiting Scholar, September 1, 2007–February 29, 2008): *Periphery Reassessed: Greek Science in the Eighteenth Century*

Trevor Pearce, University of Chicago, U.S.A. (Predoctoral Research Fellow, January 1–March 31, 2008): *Nature as Technology: A Philosophical Investigation of Biomechanics*

Dario Perinetti, Dr., Professeur agrégé, Université du Québec à Montréal, Canada (Visiting Scholar, June 15–August 15, 2008): *Moral Certainty and Empirical Knowledge in Early-modern Philosophy*

Anna Perlina, Excellence Cluster 264 “TOPOI” (Predoctoral Research Fellow, September 1, 2008–August 31, 2010): *The Role of Language in the History of Transmission and Transformation of Psychological Concepts*

Trevor Pinch, Ph. D., Professor, Department of Science and Technology Studies and Department of Sociology, Cornell University, U.S.A. (Visiting Scholar, June 1–June 30, 2009): Sound Studies and the Digitization of Audio

Christopher Plumb, University of Manchester, U.K. (Predoctoral Research Fellow, September 1, 2009 – February 28, 2010): Exotic Animals in Eighteenth-Century Britain

Irina Podgorny, Ph. D. (Research Scholar, October 1, 2009–September 30, 2010): America's Mighty Skeletons

Gianna Pomata, Ph. D., Professor, Institute for the History of Medicine, Johns Hopkins University, Baltimore, U.S.A. (Visiting Scholar, September 15–December 31, 2009): Medical Observation in Early Modern Europe

Theodore M. Porter, Ph. D., Professor for the History of Science at the University of California, Los Angeles, U.S.A. (Visiting Scholar, June 16–July 31, 2008): How Le Play Defined Scientific Observation as a Tool of Conservative Social Reform

Daniel T. Potts, Ph. D., Professor of Middle Eastern Archaeology at the University of Sydney, Australia (Visiting Scholar, June 27–July 27, 2008): Proto-Elamite and Linear Elamite Texts of Southwestern Iran

Sandra Pravica, Freie Universität Berlin, Germany (Predoctoral Research Fellow, July 1, 2007–June 30, 2010): Tentative Transgressions. Gaston Bachelard's Experimental Epistemology

Albert Presas i Puig, Dr. (Research Scholar, August 12, 2008 – March 17, 2010): Scientific Relationship between Germany and Spain: Science, Technological Transfer, and International Policy in the 20th Century

Michael Puett, Ph. D., Professor of Chinese History at Harvard University, U.S.A. (Visiting Scholar, February 16–March 16, 2009): Changing Conceptions of Knowledge and Expertise in Early Medieval China

Valentina Pugliano, University of Oxford (Mansfield College), U.K. (Predoctoral Research Fellow, August 25 – October 12, 2008): Practical Botanisers and Experienced Observers: Apothecaries and the Study of Nature in Venice and London, 1550 – 1630

Dhruv Raina, Ph. D., Professor at the Jawaharlal Nehru University in New Delhi, India (Visiting Scholar, June 1–June 30, 2009): Historiography of Non-Western Mathematics. Social Theory of Science

Vincent Ramillon, Ph. D., Assistant Professor in History of Science at the Department of Philosophy and History of Science, Athens University, Greece

(Postdoctoral Research Fellow, November 1, 2006–October 31, 2008): Norms and Practices in Genomic Research, ca. 1985–2003

Matteo Realdi, University of Padova, Italy (Predoctoral Research Fellow, March 24–May 4, 2008, funded by the University of Padova, Italy): History of Early Relativistic Cosmology

Christian Reiß, Friedrich-Schiller-Universität Jena, Germany (Predoctoral Research Fellow, July 1, 2007–June 30, 2010): The Way into the Laboratory—the Mexican Axolotl’s Long History as an Experimental Animal

Jürgen Renn, Executive Director since July 2009, Dr., Honorarprofessor für Wissenschaftsgeschichte an der Humboldt-Universität zu Berlin, Germany, Adjunct Professor for Philosophy and Physics at the Boston University, U.S.A. (Director at the MPIWG since March 1, 1994): History of Early Modern Mechanics, History of Relativity Theory; Interaction between Cognitive and Contextual Factors in the History of Science

Maria Rentetzi, Ph. D., Assistant Professor in Sociology of Science at the National Technical University of Athens, Greece (Visiting Scholar, June 23 – August 8, 2008 and February 17–March 3, 2009): Cultures of Evidence in Physics: Visualizing the Subatomic World

Hans-Jörg Rheinberger, Executive Director up to June 2009, Dr., Honorarprofessor für Wissenschaftsgeschichte an der Technischen Universität Berlin, Germany (Director at the MPIWG since January 1, 1997): 1. History and Epistemology of Experimentation 2. History of Heredity

Simone Rieger (Academic Officer, March 1, 2008 – February 28, 2013, funded by the MPG): Press and Public Relations of the Max Planck Society; Open Access Initiative “European Cultural Heritage Online” (ECHO)

Harriet Ritvo, Ph. D., Professor of History at the Massachusetts Institute of Technology, U.S.A. (Visiting Scholar, November 1–November 30, 2009): Making Animals Wild

Raja Rosenhagen, Zentrum für Logik, Wissenschaftstheorie und Wissenschaftsgeschichte, Universität Rostock, Germany (Predoctoral Research Fellow, October 1, 2009–June 30, 2010): Individual Experience and its Role in the Transformation of Knowledge Systems

Sophie Roux, Dr., Maitre de conférences, Université Grenoble II, France (Visiting Scholar, January 19–April 25, 2009, funded by the Institut universitaire de France): Edition of Galileo’s *Mechanica*

Bruce Rusk, Ph.D., Assistant Professor of Chinese Literature at Cornell University (Visiting Scholar, January 1–June 30, 2010): Making things in Ming (1368–1644) and Qing (1644–1911) China

Donald Salisbury, Ph.D., Associate Professor of Physics, Austin College, Texas, U.S.A. (Visiting Scholar, January 12–August 15, 2008 and June 1–July 30, 2009): Max and Peter Bergmann plus the History of Quantum Field Theory

Imad Samir, Dr., Professor at the Damascus University, Syria (Visiting Scholar, August 1–September 30, 2008): Editing of Group of Economic Texts from Ebla-Archive L.2769

Nina Samuel, NCCR Iconic Criticism, Basel, Switzerland and Humboldt University Berlin, Germany (Predoctoral Research Fellow, February 15–May 31, 2009): Shaping Chaos. Otto Rössler's Drawings

Helga Satzinger, Dr. rer. nat., Wellcome Trust for the History of Medicine at University College London, U.K. (Visiting Scholar, July 1–August 29, 2008, funded by the WTCHOM at UCL): Heredity and Difference: Gender Orders in Genetics and Hormone Research, 1890–1950

Tilman Sauer, PD Dr. (Visiting Scholar, June 15–August 31, 2009): Einstein's Work on Quantum Theory

Dagmar Schäfer, PD Dr. (Research Group Director, May 1, 2006–September 30, 2011): The Concepts and Modalities of Practical Knowledge Transmission: the culturally specific traits that drive alternative trajectories in the history of scientific and technological thinking, 10th–18th century China

Matthias Schemmel, Dr. (TOPOI Research Group Director (Excellence Cluster 264), April 1, 2008–October 31, 2012): Long-term Development of Spatial Cognition; History of Early Modern Mechanics; History of Modern Physics and Astronomy; History of Chinese Science

Jutta Schickore, Dr., Department of History and Philosophy of Science, Indiana University, Bloomington, U.S.A. (Visiting Scholar, May 15–June 15, 2009): Vipers, Venom, and the Vagaries of Experimentation

Wulf Schiefelhövel, Dr., Prof. em., Human Ethology Group, MPI for Ornithology (Visiting Scholar, March 1–May 31, 2009, funded by the Excellence Cluster TOPOI): Spatial Practices and Languages in Non-literate Societies: A Comparison between EIPO and DENE

Arne Schirrmacher, Dr. (Visiting Scholar, September 1, 2007–August 31, 2008 and December 23, 2008–May 31, 2009, Research Scholar December 1, 2009–November 30, 2010): History of 20th Century Science Communication; History of Quantum Physics

Wolfgang Schivelbusch, Ph. D. (Visiting Scholar, August 1–August 31, 2008 and July 1–August 31, 2009, funded by the Deutsche Forschungsgemeinschaft):
Historicizing Concepts of Air

Oliver Schlaudt, Philosophisches Seminar, Universität Heidelberg, Germany (Predoctoral Research Fellow, April 15–September 30, 2008): Measurement as Concrete Activity. Investigations on the Formation of Quantitative Concepts in the Natural Sciences

Thomas Schlich, Dr. med., Associate Professor at McGill University, Canada (Visiting Scholar, September 1, 2009–August 31, 2010, funded by the McGill University): The Perfect Machine: The Body and Modernist Surgery in Early Twentieth Century Vienna

Henning Schmidgen, Dr. phil. (Research Scholar, July 1, 2006–January 31, 2011):
Machines and Bodies without Organs in the History of Science

Wolfgang Schmidle, Dr. (Research Scholar, September 1, 2008 – August 31, 2010):
Max Planck Digital Library

Urs Schoepflin, Dipl. Soz. (Head of the Library since September 1, 1994): Scientific Information Systems, Scientific Communication, Sociology and History of Science, Scientometrics

Peter Schöttler, Dr. phil., Directeur de recherche, CNRS, Institut d'histoire du temps présent, Paris, France; Honorarprofessor für Neuere Geschichte an der Freien Universität Berlin, Germany (Visiting Scholar, June 1, 2008 – May 31, 2010):
Marc Bloch and Scientism

Volkmar Schüller, Dr. (Research Scholar since September 15, 1994): History of Mathematics and Physics (16th and 17th Centuries)

Jeffrey Schwegman, Ph. D. (Postdoctoral Research Fellow, October 1, 2008 – September 30, 2010): Metaphysics for an Enlightened Age: Condillac and the Construction of the Eighteenth-Century Human Sciences

Alexander von Schwerin, Dr. (Research Scholar, November 1, 2008 – March 31, 2009): Making Mutations: Objects, Practices, Contexts

Zur Shalev, Ph. D., Lecturer at the University of Haifa, Israel (Visiting Scholar, September 1 – September 30, 2009, funded by the University of Haifa):
Learned Travel in the Early Modern Levant

Grace Yen SHEN, Ph. D. (Postdoctoral Research Fellow, August 1, 2009–July 31, 2011): Song to Mid-Qing Coal Culture: Cultural Identity and Innovation

H. Otto Sibum, Dr., Hans Rausing Professor of History of Science & Director, Office for History of Science, Uppsala University, Sweden (Visiting Scholar, June 15 – August 31, 2009): Developmental History, Theoretical Cinematographs, and Physicist's Practices of Theorizing around 1900

Martina Siebert, Dr. (Research Scholar, October 1, 2006 – November 15, 2009): Data Entry Specifications and Digitization of Chinese Texts

Marcel Sigrist, Ph. D., Professeur à l'École Biblique et Archéologique Française, Jerusalem, Israel (Visiting Scholar, April 19 – July 19, 2009): List of Year Names in Southern Mesopotamia

Skúli Sigurdsson, Ph. D. (Rathenau Senior Fellow since April 1, 2007): History of Science after 1800: Mathematics, Physics, Philosophy

Circe Mary Silva da Silva Dynnikov, Ph. D., Professor at the Universidade Federal do Espírito Santo, Brazil (Visiting Scholar, October 15 – December 14, 2008): Mathematics Education in an Intercultural Perspective for Native Brazilians (Indians) in the State of Espírito Santo

Ana Simões, Ph. D., Assistant Professor for the History of Science at the University of Lisboa, Portugal (Visiting Scholar, January 21 – March 31, 2008): Revisiting the History of Quantum Chemistry from an Historiographical Perspective

Robyn Smith, Ph. D. (Postdoctoral Research Fellow, October 1, 2007 – April 30, 2009, funded by the Social Sciences and Humanities Council of Canada): Encountering Hermes in the Unknown: Exploring Experimental Vitamin Research during World War I

Lingping SONG, Ph. D., Department of the Court History, The Palace Museum, Beijing, China (Visiting Scholar, July 15 – August 22, 2009): Ritual Objects and Vessels of the Qing Dynasty

Max Stadler, Imperial College London, U.K. (Predoctoral Research Fellow, November 1, 2008 – February 12, 2009, Postdoctoral Research Fellow, October 1 – June 30, 2010): Assembling Life. Models, the Cell, and the Reformations of Biological Science, 1920 – 1960

Kai Stalmann, Dr. (Research Scholar, March 5, 2007 – May 31, 2008): Semantic Cluster Project

Ida Harmina Stamhuis, Dr., Faculty of Science, Vrije Universiteit, Amsterdam, The Netherlands (Visiting Scholar, September 29 – October 24, 2008 and May 3 – May 15, 2009): Women Investigators at the Institute for Heredity Research in Berlin

Thomas Sturm, Dr. phil. (Research Scholar, October 1, 2005–September 30, 2009): Rationality in Philosophy and Psychology; Perceptual Illusions; Crisis Debates in Psychology; Kant and the Human Sciences

Edna Maria Suárez Díaz, Dr., Professor for the History of Biology and the Philosophy of Technology at the National Autonomous University of Mexico, Mexico (Visiting Scholar, August 1, 2005–July 31, 2008, funded by the National University of Mexico): Representation and the Construction of Knowledge in Molecular Evolution

Xiaochun SUN, Ph. D., Professor for History of Science at the Chinese Academy of Science, Beijing, China (Visiting Scholar, May 1–May 18, 2008 and January 3–February 28, 2009): History of Astronomy, History and Sociology of Science

Andrej Svorencik, Universiteit van Amsterdam, The Netherlands (Predoctoral Research Fellow, May 1–June 30, 2009, funded by the University of Amsterdam): History of Observational Practices in Economics, Particular Experimental Economics

Mary Terrall, Ph. D., Associate Professor of the History of Science at the University of California, Los Angeles, U.S.A. (Visiting Scholar, June 1–July 30, 2008): The Practice of Natural History in the 18th Century

Martin Thiering, Ph. D., TOPOI Research Group E II, Excellence Cluster 264 (Visiting Scholar, September 14, 2008–October 14, 2010): Cognitive- and Psycholinguistics, Spatial Language and Concepts of Space, Topological Relations, Semiotics, History of Linguistics, Philosophy of Language, Linguistic Relativity

Georg Christoph Tholen, Dr., Professor für Medienwissenschaften an der Universität Basel, Switzerland (Visiting Scholar, October 1, 2009–January 31, 2010): Imagination and the Imaginary. Epistemological Studies on Concepts of Aesthetics and Mediality

Miao TIAN, Ph. D., Professor at the Chinese Academy of Sciences, Beijing, China (Visiting Scholar, February 1–August 15, 2009, funded by the Excellence Cluster TOPOI)

Margareta Tillberg, Dr., Associate Professor for History and Theory of Art and Design at the University of Växjö, Sweden (Visiting Scholar, April 21, 2006–December 31, 2010, funded by the Swedish Research Council): Observer and Observed in Soviet State Design Institutes 1960's–1990's

Magaly Tornay, Universität Zürich, Switzerland (Predoctoral Research Fellow, November 1, 2009–April 30, 2010, funded by the Schweizerischer Nationalfonds): History of Psychoactive Drugs: Psychoactive Drugs and Personality Concepts in Switzerland (1950–1990)

John Tresch, Ph. D., Assistant Professor at the University of Pennsylvania, U.S.A. (Visiting Scholar, December 1–December 31, 2009): *The Romantic Machine: Technology and Metamorphosis in France, 1820 – 1851*

Stefan Trzeciok, Freie Universität Berlin, Germany (Predoctoral Research Fellow, October 1, 2008 – September 30, 2010): *Knowledge Transfer in the Renaissance: Thomas Alvarus, Natural Philosophy and the Artist's Faculty*

Christina Tsouparopoulou, Ph. D. (Postdoctoral Research Fellow, December 1, 2008 – March 31, 2011, funded by the Mellon Foundation): *Establishment of a Database for Ancient Near Eastern Seals, Sealings, and Seal Impressions for the CDLI*

Irina Tupikova, Ph. D. (Research Scholar, September 15, 2008 – September 14, 2010): *The Impact of Geographical Knowledge on the Generalization of Spatial Concepts*

Sophia Vackimes, Ph. D. (Postdoctoral Research Fellow, April 18, 2006 – May 31, 2008 and January 2 – February 28, 2009): *Genetic Engineering in Cinema*

Matteo Valleriani, (Research Scholar, October 15, 1998 – December 31, 2012, funded by the Deutsche Forschungsgemeinschaft): *Relation between Practical and Theoretical Mechanics from Antiquity to the Early Modern Period*

Fernando Vidal, PD Dr. (Research Scholar since September 1, 1999): *The Cerebral Subject: Brain, Self and Body in History and Contemporary Culture*

Annette Vogt, Dr. (Research Scholar since September 15, 1994): *History of Mathematics and Science in the 19th and 20th Centuries, esp. in Germany; Gender Studies*

Roy Wagner, Ph. D., Tel Aviv University, Israel (Visiting Scholar, September 1, 2008 – January 31, 2009): *Semiotics of Mathematical Language*

Bettina Wahrig, Dr., Professorin für Geschichte der Naturwissenschaften und Pharmaziegeschichte an der Technischen Universität Braunschweig, Germany (Visiting Scholar, May 1–July 31, 2008): *Poisons, Toxicologies, and the Figurations of the Abject, 1700 – 1900*

Renate Wahsner, Dr., Professorin für Wissenschaftsgeschichte (Research Scholar, October 1, 1995 – March 31, 2003, associated): *History of Philosophy in Connection with History of Science; Epistemological Fundamentals and Problems of Physics; German Idealism; Classical Natural Philosophy*

Silvia Waisse Priven, Ph. D. (Visiting Scholar, July 1–July 31, 2009): *From Signs to Remedies: Medical Ways of Knowing in the Eighteenth Century*

Sonja Walch, Universität Wien, Austria (Predoctoral Research Fellow, January 1–April 30, 2008, funded by the Universität Wien, Austria): Sex Hormones in Laboratory Practice: Eugen Steinach's Development of a Sex Hormone Theory, his Experimental Methodology and his Cooperation with Schering (1910–1938)

Guangyao WANG, Ph. D., Department of the Court History, The Palace Museum, Beijing, China (Visiting Scholar, June 4–August 31, 2008 and July 15–September 30, 2009): The History and Art of Porcelain and Ceramics, Bronze Vessels, the History of the Ancient Court. The Tinctorial Kilns during Quianlong and Jiaging Reign of Qing Dynasty

Jinyu WANG, Researcher of the Conservation Institute of the Dunhuang Academy, China (Visiting Scholar, March 1–March 31, 2009)

Daniel Warren, Ph. D., Associate Professor of Philosophy at the University of California, Berkeley, U.S.A. (Visiting Scholar, May 19–August 17, 2008)

Eric Watkins, Ph. D., Associate Professor of Philosophy, University of California, San Diego, U.S.A. (Visiting Scholar, August 5–September 5, 2009): Immanuel Kant: Natural Philosophy

Cecelia Watson, University of Chicago, U.S.A. (Predoctoral Research Fellow, April 1–June 30, 2008 and September 1, 2008–March 31, 2009): A Historical Treatment of the Artist and Art Critic John La Farge's Impact on William James's Intellectual Development, Considered in the Context of Late 19th and Early 20th Century Exchanges between Art and Science

Milena Wazeck, Dr. (Research Scholar, February 15, 2004–December 31, 2010): Opposition to the Theory of Relativity in the 1920s: History of Science Policy

Mai Wegener, Dr. (Visiting Scholar, October 1, 2008–March 31, 2009): Three Undiscovered Epistemologists: Paul Valéry, Kurt Goldstein, Jacques Lacan

Christina Wessely, Ph. D. (Postdoctoral Research Fellow, March 1, 2009–August 31, 2010): Welteis. Science, Pseudoscience and the Limits of Cosmological Knowledge 1894–1945

Kelly J. Whitmer, Ph. D. (Postdoctoral Research Fellow, June 1, 2008–May 31, 2010): Models and the Middle Way: Performing Philanthropy in the Early Enlightenment

Alexandra Widmer, Ph. D. (Postdoctoral Research Fellow, September 1, 2009–August 31, 2011): Human Bio-diversity, Colonial Relations, and the Sociality of Science: Indigenous and Scientific Knowledge of Heredity and Fertility in Vanuatu

Kelley E. Wilder, Ph. D., De Montfort University, Leicester, U.K. (Visiting Scholar, July 21–August 31, 2009): The Nature of Photographic Evidence

Josef Willenborg, Dr. (Research Scholar, September 1, 2008 –August 31, 2010): Max Planck Digital Library

Lambert Williams, Harvard University, U.S.A. (Predoctoral Research Fellow, September 15, 2008 –March 15, 2009): Historical and Philosophical Issues in Complex Systems: Models and Simulations

Christof Windgätter, Dr. (Postdoctoral Research Fellow, April 1, 2007– June 30, 2009): Knowledge through Print. Layout-Strategies and Book-Design in Scientific Publishing

Dirk Wintergrün, Dipl. Phys. (Research Scholar since January 1, 2000): Head of Information Technology Group

M. Norton Wise, Ph. D., Ph. D., Professor of History at the University of California, Los Angeles, U.S.A. (Visiting Scholar, July 12 –August 15, 2008)

Barbara Wittmann, Dr. (Research Scholar, November 1, 2003 – October 31, 2005 and May 1, 2006 –January 31, 2011): Meaningful Scribbles. Children’s Drawings as Psychological Instruments, 1880 –1950

Charles T. Wolfe, Ph. D. (Postdoctoral Research Fellow, December 1, 2007–January 31, 2008): History and Philosophy of the Concept of Organism, 1650 –1950

Monika Wulz, Dr. phil. (Postdoctoral Research Fellow, October 1, 2008 –December 31, 2010): Collective Theories of Knowledge around 1930: Edgar Zilsel’s Epistemology of Mass Phenomena

Barbara Wurm, Mag. phil., IFK Wien, Austria (Visiting Scholar, June 1 –September 15, 2009, funded by the IFK Wien): Beyond the Film Strip. Numerical-graphical Notation Procedures of the Medium Film

Xiaodong XU, Ph.D., Department of the Court History, The Palace Museum, Beijing, China (Visiting Scholar, June 4 –August 31, 2008 and July 1 –September 13, 2009): Ancient Chinese Jades, Gold and Silvers, Ambers, Enamels. History of Exchange of Craft Techniques between the Imperial Court and the Folk

Xiaodong YIN, (Postdoctoral Research Fellow, October 1, 2007– September 30, 2008): Quantum Mechanics in West and Development of Mechanical Knowledge in China

Sebastian Zacharias, University of Rostock, Germany (Predoctoral Research Fellow, September 1, 2009 – October 31, 2010, funded by the Stiftung der Deutschen Wirtschaft): The Structure of Scientific Theories

Karin Zachmann, Dr. rer. oec., Professorin für Geschichte der Technik an der Technischen Universität München, Germany (Visiting Scholar, February 16–March 14, 2009, funded by the Technische Universität München): Atomic Food for Peace? Materializing a Radiant Idea in a Transnational Network of Research and Development

Gábor Áron Zemplén, Ph. D., Hungarian Academy of Science, Budapest, Hungary (Visiting Scholar, October 1, 2009–January 31, 2010): Scientific Debates around the Modificationist Theories of Colour

Baichun ZHANG, Ph. D., Professor, Chinese Academy of Sciences, Beijing, China (Visiting Scholar, September 3–September 30, 2008, funded by the Technische Universität Berlin): History of Mechanics. History of Technology. Project: Development of Mechanical Knowledge in China and its Interaction with other Cultural Traditions

Qiong ZHANG, Ph. D., Department of the Court History, The Palace Museum, Beijing, China (Visiting Scholar, June 4–August 31, 2008 and July 1–September 30, 2009): Textile History—The Court Costume and Textile Technology in Qing Dynasty

Shuxian ZHANG, Ph. D., Department of the Court History, The Palace Museum, Beijing, China (Visiting Scholar, June 4–August 31, 2008 and July 1–September 30, 2009): History and Art of Chinese Architecture during the Ming and Qing Dynasty. History of Exchange of Craft Techniques between the Imperial Court and the Folk

Joseph Ziegler, Ph. D., Haifa University, Israel (Visiting Scholar, September 1, 2008–February 28, 2009, funded by the Yad Hanadiv Foundation): Medieval and Early Renaissance Physiognomy

Hansjakob Ziemer, Dr. (Research Scholar since January 1, 2008): Outreach and Cooperation, Cultural History of Music

Anne Ziemke, Max-Planck-Institut für demografische Forschung, Rostock, Germany (Predoctoral Research Fellow, July 1, 2008–March 31, 2010): Aging Research in 19th Century Biology

Rafaela Zorzanelli, Dr., Universidade do Estado do Rio de Janeiro, Brazil (Postdoctoral Research Fellow, September 1–September 30, 2008, funded by the CAPES (Brazilian Agency for the Advanced Training of University Personnel): The Impact of Neurosciences in the Psychosomatic Field

Collaborations and Other External Activities

Memberships

The Institute is member of the Agricola-Gesellschaft, the Gesellschaft für Wissenschaftsgeschichte and the Deutsche Gesellschaft für Geschichte der Medizin, Naturwissenschaft und Technik.

Professorships

Lorraine Daston is honorary professor at the Humboldt-Universität zu Berlin,

Dieter Hoffmann is außerplanmäßiger Professor at the Humboldt-Universität zu Berlin,

Ursula Klein is außerplanmäßige Professorin at the Universität Konstanz,

Wolfgang Lefèvre is außerplanmäßiger Professor at the Freie Universität Berlin,

Jürgen Renn is adjunct professor at Boston University and honorary professor at the Humboldt-Universität zu Berlin,

Hans-Jörg Rheinberger is honorary professor at the Technische Universität Berlin.

Cooperation Partners

American Council of Learned Societies, U.S.A.

Berliner Medizinhistorisches Museum der Charité

Bibliotheca Hertziana—Max-Planck-Institut für Kunstgeschichte, Rome, Italy

Biblioteca Nacional de Portugal

Centre Alexandre Koyré, Paris, France

The Cohn Institute for the History and Philosophy of Science and Ideas, Tel Aviv University, Israel

Comenius Garten, Berlin

Consejo Superior de Investigaciones Científicas, Spain

Deutsche Physikalische Gesellschaft

Deutsches Technikmuseum, Berlin

Excellence Cluster 264, TOPOI: The Formation and Transformation of Space and Knowledge in Ancient Civilizations

Fakultät Medien, Bauhaus-Universität Weimar

First National Archive, Beijing, China

Freie Universität Berlin

Friedrich-Schiller-Universität Jena

Fritz-Haber-Institut der Max-Planck-Gesellschaft, Berlin

Humboldt-Universität zu Berlin

Indiana University Bloomington, U.S.A.

Institut für Wissenschaft und Kunst, Wien, Austria

Institute for the History of Natural Sciences, Chinese Academy of Sciences, Beijing, China

Kunsthistorisches Institut in Florenz, Max-Planck-Institut, Italy
Max-Planck-Institut für ausländisches öffentliches Recht und Völkerrecht, Heidelberg
Max-Planck-Institut für Astronomie, Heidelberg
McGill University, Montreal, Canada
Monash University, Melbourne, Australia
Mongolian Academy of Science, Ulan Bator, Mongolia
Moritz-Schlick-Forschungsstelle, Universität Rostock
Museum für Naturkunde, Berlin
The Newton Project at the University of Sussex, U.K.
Opera di Santa Maria del Fiore, Florence, Italy
Palace Museum, Beijing, China
Staatsbibliothek zu Berlin-Preußischer Kulturbesitz
Stiftung Bibliothek Werner Oechslin, Einsiedeln, Switzerland
Technische Universität Berlin
Universidad Nacional Autónoma de México
Universidade do Estado do Rio de Janeiro, Brazil
Universidade Federal da Bahia, Brazil
Universiteit van Amsterdam, Netherlands
University of California at Los Angeles, U.S.A.
University of Chicago, U.S.A.
Zentrum für Literatur- und Kulturforschung, Berlin

Hosted Scholars

The institutions listed below funded 44 scholars in 2008 and 54 scholars in 2009.
The average duration of their stay was 5 months.

Aarhus University, Denmark
Alexander-von-Humboldt-Stiftung
Bank of Sweden, Tercentenary Foundation
Cambridge European Trust
Canadian Institute of Health Research
CAPES (Brazilian agency for the advanced training of university personnel)
Columbia University, New York, U.S.A.
Consejo Nacional de Ciencia y Tecnología, Mexico
Consiglio Nazionale delle Ricerche, Italy
Deutsche Forschungsgemeinschaft
Deutscher Akademischer Austauschdienst
Excellence Cluster Topoi, Berlin
Freie Universität Berlin
Fritz-Haber-Institut der Max-Planck-Gesellschaft
Fritz-Thyssen-Stiftung
Georgetown University, U.S.A.
Gerda Henkel Stiftung
German-Israeli Foundation for Scientific Research and Development

Gobierno Vasco (Basque Government), Spain
 Hans-Böckler-Stiftung
 Hans Rausing Scholarship
 Internationales Forschungszentrum Kulturwissenschaften, Wien, Austria
 Institut universitaire de France
 Kunsthistorisches Institut in Florenz
 Leverhulme Trust, U.K.
 Liechtenstein Fonds for the History of Science
 Minerva Foundation
 Princeton Bicentennial Preceptorship, U.S.A.
 Regional Government of Catalonia, Spain
 Research Foundation—Flanders (FWO)
 Schweizerischer Nationalfonds
 Social Sciences and Humanities Research Council of Canada
 Spanish National Research Council
 State University of New York at Stony Brook, U.S.A.
 Stiftung der Deutschen Wirtschaft
 Studienstiftung des Deutschen Volkes
 Technische Universität Berlin
 Technische Universität München
 Swedish Research Council
 Università degli Studi di Padova, Italy
 Universitat Autònoma de Barcelona, Spain
 Universität Wien, Austria
 Universiteit van Amsterdam, Netherlands
 University of California at Berkeley, U.S.A.
 University of California at Los Angeles, U.S.A.
 University of Haifa
 University of Wisconsin–Madison, U.S.A.
 Van Leer Institute, Jerusalem, Israel
 VolkswagenStiftung

Teaching Activities

Winter 2007/2008

Christina Brandt: Lebenswissenschaften um 1800 (together with Prof. Dr. Bettina Wahrig), (Seminar, Technische Universität Braunschweig)
Christoph Hoffmann: Erzählen als Problem. Einführung in das BA-Modul Literaturwissenschaft. (Seminar, Europa-Universität Viadrina, Frankfurt/Oder)
Ursula Klein: Francis Bacon's Philosophy (Seminar, Universität Konstanz)
Dagmar Schäfer: Foreign Kings, Remote Emperors: Legitimation in Imperial rulership (Seminar, Universität Würzburg)
Stefan Trzeciok: Nelio oder der Geschmack des Windes (Lehrwerkstatt Theater, Fachhochschule Fulda)

Annette Vogt: Von der Preußischen Friedrich-Wilhelms-Universität zu Berlin zur Humboldt-Universität zu Berlin: Wissenschaft und Politik in drei Systemen (1932/33-1961). (Proseminar mit PhD Peter Th. Walther, Humboldt-Universität zu Berlin)

Summer 2008

Christina Brandt: Von der Zelltheorie zur Vererbung: Zur Kulturgeschichte bio-wissenschaftlicher Konzepte im 19. Jahrhundert (Seminar, Technische Universität Braunschweig)

Christina Brandt: Geschichte und Wissenschaftstheorie der Biologie (together with Dr. Bernd Gausemeier) (Lecture and Seminar, Freie Universität Braunschweig)

Lorraine Daston: Lives of the Mind (Seminar, University of Chicago)

Bernd Gausemeier: Geschichte und Wissenschaftstheorie der Biologie (mit Christina Brandt), (Vorlesung und Seminar, Freie Universität Berlin)

Christian Joas: Geschichte der Quantentheorie, (Seminar mit Jürgen Renn und Christoph Lehner), Freie Universität Berlin)

Ursula Klein: Philosophy of Science: Toulmin, Kuhn, Feyerabend (Seminar, Universität Konstanz)

Jürgen Renn: Geschichte der Quantentheorie (Seminar, Freie Universität Berlin)

Henning Schmidgen: Probleme der Akteur-Netzwerk-Theorie (Seminar, Bauhaus Universität Weimar)

Dagmar Schäfer: Eigenständige Tradition und Wissenstransfer: Die Geschichte der Wissenschaft in China, (together with Matthias Schemmel) (Seminar, Humboldt-Universität zu Berlin)

Dagmar Schäfer: Tourism: Traditions within New Cultures of Interaction (Seminar, Universität Würzburg)

Annette Vogt: Berlin als Wissenschaftsstadt und Wissenschaftslandschaft—Orte, Räume, Disziplinen (1810 – 2000) (Proseminar mit PhD Peter Th. Walther, Humboldt-Universität zu Berlin)

Winter 2008/2009

Hans Erich Bödeker: Science, Liberalism, and the Brothers Humboldt (Vorlesung und Seminar ab September 2008, Theodor Heuss Gastprofessur an der CIDE, Mexico City)

Arianna Borrelli: Uhren und Zeit: Zeitvorstellungen und Zeitdarstellungen gestern und heute (Seminar/Übung, Technische Universität Braunschweig)

Christina Brandt: Theorien der Wissenschaftsgeschichte: Eine Einführung in klassische Texte (Seminar, Technische Universität Braunschweig)

Christoph Hoffmann: History of Science & Literary Theory (Seminar, Columbia University, New York)

Ursula Klein: History and Philosophy of the Experimental Sciences I (Seminar, Universität Konstanz)

Dagmar Schäfer: Einführung in die Technikgeschichte Chinas seit der Ming Zeit: Denken, Handeln, Schreiben I (Seminar, Technische Universität Berlin)

Arne Schirrmacher: Von der Wissenschaftspopularisierung zur Wissensgesellschaft. Zum Wandel des Verhältnisses zwischen Wissenschaft und Öffentlichkeit im 19. und 20. Jahrhundert (Seminar, Humboldt-Universität zu Berlin)

Peter Schöttler: Französische Geschichtswissenschaft im 20. Jahrhundert (Seminar, Freie Universität Berlin)

Thomas Sturm: Early Modern Philosophy of Mind and Psychology (Master Course in History of Science, Universitat Autònoma de Barcelona)

Thomas Sturm: Naturalized Epistemology and the Psychology of Rationality (Master Course in Philosophy of Science, Universitat Autònoma de Barcelona)

Thomas Sturm: Introduction to Medical Ethics: Ronald Dworkin on Euthanasia and Abortion (Erasmus Master Course on “Dynamics in Health and Welfare,” Universitat Autònoma de Barcelona)

Stefan Trzeciok: Das große Ganze (Lehrwerkstatt Theater, Fachhochschule Fulda)

Annette Vogt: Heimkehr in die Fremde?—Remigranten aus Wissenschaft, Kultur und Politik nach Ost- und Westdeutschland (Proseminar mit PhD Peter Th. Walther, Humboldt-Universität zu Berlin)

Annette Vogt: What is Statistics?—From the Historical Perspective (Seminar, Humboldt-Universität zu Berlin)

Milena Wazeck: Wissenschaftspopularisierung im 19. Jahrhundert (Proseminar, Humboldt-Universität zu Berlin)

Summer 2009

Safia Azzouni: Prosa und Drama des Naturalismus (Seminar, Humboldt-Universität zu Berlin)

Arianna Borrelli: Wind und Wetter: Beobachten, Erklären, Voraussagen (Seminar/Übung, Technische Universität Braunschweig)

Christina Brandt: Geschichte der Evolution (together with Prof. Dr. Norbert Käufer, Prof. Dr. Bettina Wahrig), (Seminar, Technische Universität Braunschweig)

Christina Brandt: Geschichte und Wissenschaftstheorie der Biologie (together with Dr. Bernd Gausemeier), (Lecture and Seminar, Freie Universität Berlin)

Christina Brandt: Reproduction, Replication, and Reprogramming: Cloning in 20th Century Life Sciences (Lecture, Zoological Station, Naples, 11th Ischia Summer School on the History of Life Sciences)

Lorraine Daston: The Passions: A Philosophical History (Seminar, University of Chicago)

Bernd Gausemeier: Geschichte und Wissenschaftstheorie der Biologie (mit Christina Brandt), (Vorlesung und Seminar, Freie Universität Berlin)

Ursula Klein: History and Philosophy of the Experimental Sciences II (Seminar, Universität Konstanz)

Hannah Lotte Lund: DER Markt, DIE Frau, DAS Buch. Geschlechterrollen auf dem deutschen Buchmarkt um 1800 (Pro-Seminar Gender Studies/Geschichtswissenschaften, Humboldt-Universität zu Berlin)

Christine von Oertzen: Studieren im “Dritten Reich”. Going to University During the ‘Third Reich’ (Seminar, Technische Universität Braunschweig)

Dagmar Schäfer: Einführung in die Technikgeschichte Chinas seit der Ming Zeit: Denken, Handeln, Schreiben II (Seminar, Technische Universität Berlin)

Arne Schirrmacher: The American Way of Wissenschaft. Entstehung und Durchsetzung einer neuen Wissenschaftskultur, 1865 – 2000 (Seminar, Humboldt-Universität zu Berlin)

Sonja Walch: Wissenschaft, Kultur und Geschlecht in der Moderne (seminar: contribution with regards to content and guest-lecture, Universität Wien)

Sebastian Zacharias: Einführung in wissenschaftliche Methoden und Arbeitstechnik (Seminar, Freie Universität Berlin)

Winter 2009/2010

Arianna Borrelli: Bilder aus der Maschine: Von Spiegelbild zum Kino (Seminar/ Übung, Technische Universität Braunschweig)

Christina Brandt: On the History of Cloning. Concepts and Practices in 20th Century Life Science and Culture (Seminar, Indiana University, Bloomington (August – October)

Christina Brandt: Geschichte der Reproduktionswissenschaften. Perspektiven der Gender Studies (Lecture, Technische Universität Braunschweig; as Maria Goeppert Mayer Visiting Professor for International Gender Studies)

Christina Brandt: Darwin, biologisches Geschlecht und Gender: Evolutionstheorien des 19. und 20. Jahrhunderts im kulturellen Kontext (Seminar, TU Braunschweig, as Maria Goeppert Mayer Visiting Professor for International Gender Studies)

Christina Brandt: Die Geschichte des Klonens zwischen Fakt und Fiktion: Ein historischer Streifzug durch Biowissenschaft und Literatur (Seminar, TU Braunschweig, Maria Goeppert Mayer Visiting Professor for International Gender Studies)

Christoph Hoffmann: Wissenschaftsforschung (Lecture, Universität Luzern)

Christoph Hoffmann: Biologisches Denken 1 (1800 – 1900) (Seminar, Universität Luzern)

Ursula Klein: Philosophy of Science in Historical Context (Seminar, Universität Konstanz)

Julia Kursell: Musik und Medien. Eine Einführung. (Seminar, Universität Basel, Herbstsemester 2009)

Hannah Lotte Lund: The Politics of Gender: Yesterday Today and Tomorrow (Seminar, IES Abroad Berlin)

Christine von Oertzen: Die Archivierung der Welt. Archiving the World (Seminar, Technische Universität Braunschweig)

Hans-Jörg Rheinberger: Literatur zum Darwin-Jahr: Eine Bestandsaufnahme (Hauptseminar, Technische Universität Berlin)

Arne Schirrmacher: Politik der Exzellenz. Die naturwissenschaftlichen Nobelpreise und ihre politische Rolle im 20. Jahrhundert (Seminar, Humboldt-Universität zu Berlin)

Peter Schöttler: Deutsch–französisches Kolloquium (mit Anne Kwaschik) (Seminar, Freie Universität Berlin)

Martin Thiering: Vom Gebrauch der Zeichen (Proseminar Semiotik und Sprechakttheorie, Humboldt-Universität zu Berlin)

Milena Wazeck: Wissenschaft und Weltanschauung im 19. Jahrhundert (Übung, Humboldt-Universität zu Berlin)

Sebastian Zacharias: Einführung in wissenschaftliche Methoden und Arbeitstechnik (Seminar, Freie Universität Berlin)

Sebastian Zacharias: Erschaffen oder entwickelt? Eine Analyse der Debatte um Evolution und Kreation mit einem Fokus auf wissenschaftliche Arbeitstechniken (Seminar, Humboldt-Universität zu Berlin)

Conferences, Workshops, and Colloquia

Workshops and Conferences

11 January 2008: Scholarly Publishing and the Issues of Cultural Heritage, Fair Use, Reproduction Fees and Copyrights

21–24 February 2008: The Educated Eye: Photographic Evidence in Scientific Observation

28–29 February 2008, 2–3 March 2009: Jesuit Mechanics and Preclassical Mechanics

3–4 March 2008: Giordano Bruno Colloquium: Turning Traditions Upside Down. Rethinking Giordano Bruno's Enlightenment

6 March 2008: History of Science/History of Knowledge: Interdisciplinary Perspectives of Young Researchers

7 March 2008 (Berlin), 16–17 October 2008 (Pisa): The Biography of Ten Scientific Images: An Invisible Seminar

27–29 March 2008: Foreign Scientists under Hitler. Workshop organized with the Union College, Schenectady, NY and the University of Göttingen

28–29 March 2008: History of Plant-Breeding since 1880

16–17 May 2008: Epistemic Objects

26–27 May 2008: Governance of and through Science and Numbers: Notions, Categories and Tools

29–31 May 2008: Living Properties: Making Knowledge and Controlling Ownership in the History of Biology

31 May 2008: History of Quantum Theory. Satellite meeting at the University of Sydney.

10 June 2008: Nachlese/Afterthoughts 2: "Schreibszenen"/"Writing scenes"

11–15 June 2008: Graphic Genes, Cells and Embryos

12–14 June 2008: Cultures of Seeing 3D and Beyond

16–17 June 2008: Scientific Objects and Seriality II: Seriality and scientific objects 1780–1848

7–9 July 2008: History of Scientific Observation

- 11–13 July 2008:** Animal Subjects Under Observation
- 17 July 2008:** Nachlese/Afterthoughts 3: “Kritzeln und Schnipseln”/“Scrips and Scribbles”
- 24–26 July 2008:** What (Good) Is Historical Epistemology?
- 29 August 2008:** Women and Gender in the History of Science, Medicine, and Technology: State of the Arts and Future Perspectives
- 9–11 October 2008:** Müller’s Vision. Das wissenschaftliche Vermächtnis des Naturforschers Johannes Müller
- 10–12 October 2008:** Crisis Debates in Psychology
- 29–31 October 2008:** Writing the History of Genomics
- 5 November 2008:** Einstein revisits Humboldt. Ceremonial event organized by the Humboldt Universität, the Hebrew Universität and the MPIWG
- 5 November 2008:** History of Scientific Observation
- 13–15 November 2008:** Animal Cultures—Human Natures: Participant Observation in the History of the Natural and Social Sciences
- 13–15 November 2008:** Materialprobe 3: “Notes—Sketches—Scribbles: Writing and Drawing as Creative Tools”
- 26 November 2008:** Forgery and the Production of Luxury Commodities in Late-Ming China
- 27–28 November 2008:** The Exhibition as Product and Generator of Scholarship. Co-organized with Deutsches Museum München
- 29 November–1 December 2008, 11–12 May and 28–30 September 2009:** Workshops with the Bibliothek Werner Oechslin, Einsiedeln
- 12 December 2008:** Wissen im Druck: Zur Epistemologie der Buchgestaltung zwischen 1850 und 1950
- 13–15 January 2009:** Workshop on 3D-scanning in Jena
- 9 January 2009:** Traditions—Transmission—Circulation of Knowledge
- 13–15 January 2009:** Making Mutations: Objects, Practices, Contexts
- 31 January 2009:** The Emergence of New Sciences
- 12–14 February 2009:** Darwin als Erzieher: Die Popularisierungsgeschichte der Evolutionstheorie für Kinder und Jugendliche
- 20–22 February 2009:** Neurocultures
- 7 March 2009:** The Knowledge of Doing
- 12–13 March 2009:** Experts and Expertise
- 20–21 March 2009:** The Tenacity of the Nature/Nurture Divide
- 15–16 April 2009:** Scientific Objects and Seriality III: Seriality and Scientific Objects 1848–1919
- 27–28 April 2009:** Observation, Evidence and Reason in Early Modern England: The Arts Course from the Reformation to Newton
- 30 April–2 May 2009:** Writing and The Transmission of Knowledge
- 5–6 June 2009:** Origins: The Historical Sciences in the Age of Darwin
- 19 June 2009:** Nachlese/Afterthoughts 4: “Erschriebene Denkräume”
- 28 June–5 July 2009:** From Generation to Reproduction: Knowledge and Techniques from the Renaissance to the Present Day
- 17 July 2009:** Zwischenräume: Disorders
- 23–25 July 2009:** Epistemic Vehicles in the Human Sciences: A Conference in Memory of Lydia Marinelli

- 4 – 5 September 2009:** Status and Skills: The Portrayal of Individuals in Chinese Historiography, 10th – 18th Century
- 12 – 19 November 2009:** Darwin in Latin America
- 12 – 13 November 2009:** Materialprobe 4: Die Materialität der Konstruktion. Graphische Verfahren der Welterzeugung
- 26 November 2009:** Kolloquium für Hans Erich Bödeker
- 3 – 6 December 2009:** Performing Voices: Between Embodiment and Mediation. Organized with the American Academy in Rome
- 7 – 8 December 2009:** Workshop with the MPG Humanities Section on the Max Planck Digital Library Project
- 14 – 15 December 2009:** Multilingualism, Linguae Francae, and the Global History of Concepts

The Institute's Colloquia

- 30 January 2008** *Lissa Roberts* Discussion on the book “Materials in eighteenth century science” by Ursula Klein and Wolfgang Lefèvre
- 13 February 2008** *John Pickstone* Practices and Disciplines in the History of Science, Technology, and Medicine
- 5 March 2008** *Ruth Leys* How to Do the History of the Emotions
- 19 March 2008** *Lissa Roberts* The Mindful Hand Goes to Japan: Dutch-Japanese Trade During the Eighteenth-century
- 2 July 2008** Project Presentation of the Department 2
- 23 July 2008** Project Presentation of the Department. 3
- 30 July 2008** *Lorraine Daston and Ted Porter* “Objectivity: A Debate”
- 27 August 2008** Project Presentation of the Department. 1
- 15 October 2008** *Gary Hatfield* Descartes' Mechanization of the Sensitive Soul
- 21 January 2009** *Nikolaus Bacht* Presentation of the new Emmy Noether Research Group
- 8 July 2009** *Allan Young* Pro Patria Mori: New light on the Moral Life of Slime Mold
- 30 September 2009** *Zur Shalev* Quantification and the Pilgrim Experience
- 4 November 2009** *Harriet Ritvo* The Animals' Turn?
- 16 December 2009** *John Tresch* La Technésthétique: A Physico-Spiritualist Conception of the Arts in French Romanticism

Scholars' Forum

In cooperation with partner institutions, the Max Planck Institute for the History of Science organizes scholars' forums for doctoral candidates and postdoctoral fellows:

Studenttag Wissenschaftsgeschichte: April 13, 2007 and May 16, 2008

Studenttag Literatur und Wissenschaftsgeschichte: July 19, 2008 and June 13, 2009

ZwischenRäume: April 18, 2008 and February 20, 2009

Reading Groups

Reading groups are a substantial part of the academic life at the MPIWG. They are independently organized by scholars from different departments and focus on one particular theme in the history of science. In 2008 and 2009, reading groups worked on topics such as animals, communicating knowledge, neuroscience and culture, note-taking, ontology, sciences of the senses, re-reading the classics, or quantum history.

Academic Achievements and Scientific Awards

Completed Dissertations

Beat Bächli (ETH Zürich), at the Institute 2006/07; *Björn Brüschi* (see Research Report 2006/07) *Jochen Büttner* (see p. 34); *Christina Ratmoko* (Universität Zürich), at the Institute 2005; *Oliver Schlaudt* (Universität Heidelberg), (see p. 155), *Max Stadler* (see p. 113), *Matteo Valleriani* (see p. 32), *Hansjakob Ziemer* (see p. 230), *Rafaëla Zorzanelli* (see p. 113)

Habilitations

Erna Fiorentini received her *venia legendi* in Kunstgeschichte from the Freie Universität Berlin in November 2009.

Sabine Höhler (at the Institute 1999/2002) received her *venia legendi* in Wissenschafts-, Technik- und Umweltgeschichte from the Technische Universität Darmstadt in January 2010

Christine von Oertzen received her *venia legendi* in Neuere Geschichte from the Technische Universität Braunschweig in January 2010.

Iris Schröder (at the Institute 2000/02) received her *venia legendi* in Neuere und Neueste Geschichte from the Humboldt Universität zu Berlin in June 2009.

Appointments

Viola van Beek (Predoctoral Research Fellow July 1, 2007–June 30, 2009) was appointed as fellow at the art, science & business program of Akademie Schloss Solitude, Germany.

Bernhard Bolech (Predoctoral Research Fellow May 1–June 30, 2009) was appointed as Kollegiat at the Initiativkolleg Naturwissenschaften im historischen Kontext, Universität Wien, Austria.

Luis Campos (Postdoctoral Research Fellow October 1, 2007–September 30, 2008) was appointed as Assistant Professor at the Drew University, Madison, New Jersey, U.S.A.

Jacob Lebovitch Dahl (Research Scholar October 1, 2005–September 30, 2008) was appointed as University Lecturer at the Oxford University, U.K.

Jiren FENG (Postdoctoral Research Fellow October 1, 2006–September 30, 2008) was appointed as Lecturer at the Victoria University of Wellington, New Zealand.

Vivette Garcia Deister (Predoctoral Research Fellow March 16–April 12, 2009) was appointed as Research Associate at the School of Social Anthropology of the University of Manchester, U.K.

Amanda Jo Goldstein (Predoctoral Research Fellow November 1–November 30, 2009) was appointed as Predoctoral Fellow at the Department of Comparative Literature at the University of California at Berkeley, U.S.A.

Mathias Grote (Postdoctoral Research Fellow January 1–December 31, 2009) was appointed as Postdoctoral Research Fellow at the ESRC Research Centre for Genomics in Society (Egenis), University of Exeter, U.K.

Ina Heumann (Predoctoral Research Fellow July 1–October 31, 2009) was appointed as Predoctoral Fellow at the Universität Wien, Austria.

Martin Hofmann (Postdoctoral Research Fellow/Visiting Scholar October 1, 2008–August 31, 2009) was appointed as Research Scholar at the Ruprecht-Karls-Universität, Heidelberg, Germany.

Anja Skaar Jacobsen (Postdoctoral Research Fellow November 15, 2008–January 31, 2009) was appointed as Senior Researcher at the Niels Bohr Archive, Copenhagen, Denmark.

Hyo Yoon KANG (Postdoctoral Research Fellow October 1, 2006–June 30, 2009) was appointed as Oberassistentin at the Universität Luzern, Switzerland.

Stefanie Klamm (Predoctoral Research Fellow May 1, 2006–September 30, 2009) was appointed as Predoctoral Fellow at the Getty Museum Research Institute, Los Angeles, U.S.A.

Maria E. Kronfeldner (Karl Schädler Postdoctoral Research Fellow March 1, 2006–September 30, 2008) was appointed as Research Scholar at the Universität Bielefeld, Germany.

Joachim Kurtz (Research Group Director January 1–June 30, 2009) was appointed as Professor at the Ruprecht-Karls-Universität, Heidelberg, Germany.

Nicolas Langlitz (Postdoctoral Research Fellow September 1, 2007–December 31, 2009) was appointed as Assistant Professor at the New School for Social Research, New York City, U.S.A.

Costas Mannouris (Predoctoral Research Fellow September 1–September 30, 2009) was appointed as Predoctoral Research Fellow and Assistant Editor of *Meta Science* at the University of Athens, Greece.

Claudia Mareis (Predoctoral Research Fellow February 1–July 31, 2009) was appointed as Forschungsdozentin at the Hochschule der Künste Bern, Switzerland.

Brendan Matz (Predoctoral Research Fellow September 8–December 31, 2008) was appointed as Graduate Student at the Yale School of Medicine, Yale University, U.S.A.

Erika Milam (Postdoctoral Research Fellow September 1, 2007–December 31, 2008) was appointed as Assistant Professor at the University of Maryland, U.S.A.

Sybilla Nikolow (Research Scholar April 1–September 30, 2009) was appointed as Research Scholar at the Institut für Wissenschafts- und Technikforschung, Universität Bielefeld, Germany.

Nina Samuel (Predoctoral Research Fellow February 15–May 31, 2009) was appointed as Research Scholar at the Institut für Philosophie, Freie Universität Berlin, Germany.

Oliver Schlaudt (Predoctoral Research Fellow April 15–September 30, 2008) was appointed as Akademischer Rat a. Z. at the Philosophisches Seminar, University of Heidelberg, Germany.

Alexander von Schwerin (Research Scholar November 1, 2008–March 31, 2009) was appointed as Research Scholar at the Technische Universität Braunschweig, Germany.

Martina Siebert (Research Scholar October 1, 2006–November 15, 2009) was appointed as Research Scholar at the Ostasienabteilung, Staatsbibliothek Berlin, Germany.

Robyn Smith (Postdoctoral Research Fellow October 1, 2007–April 30, 2009) was appointed as Assistant Professor at the University of Alberta, Canada.

Thomas Sturm (Research Scholar October 1, 2005–September 30, 2009) was appointed as Faculty Member at the Universitat Autònoma de Barcelona, Spain.

Sonja Walch (Predoctoral Research Fellow January 1–April 30, 2008) was appointed as Predoctoral Fellow at the Institut für Zeitgeschichte, Universität Wien, Austria.

Christof Windgätter (Postdoctoral Research Fellow April 1, 2007–June 30, 2009) was appointed as Postdoctoral Research Fellow at the Kulturabteilung der Stadt Wien, Referat Wissenschafts- und Forschungsförderung, Austria.

Charles Wolfe (Postdoctoral Research Fellow December 1, 2007–January 31, 2008) was appointed as Research Fellow at the Unit for History and Philosophy of Science, University of Sydney, Australia.

Awards

Julia Damerow received a *special award* from the Heinz-Billing-Foundation of the Max Planck Society for her diploma thesis “Entwicklung eines MDD-Tools für eine virtuelle Ausstellung.”

Tamás Demeter won the 2009 *Talentum Prize* by the Hungarian Academy of Sciences.

Miki Elazar won the 2009 *Funkenstein Prize* of the Tel Aviv University for his doctoral dissertation “Honoré Fabri and the Concept of Impetus: A Bridge between Paradigms.”

Together with *Susan Neiman* and *Iris Nachum*, *Peter McLaughlin* was awarded the 2009 *Margherita-von-Brentano-Preis* for the comprehensive edition and publication of the Nachlass of Margherita-von-Brentano.

Arne Schirrmacher was awarded the 2007 *Publikationspreis des Deutschen Museums* for his article “Der lange Weg zum neuen Bild des Atoms. Zum Vermittlungssystem der Naturwissenschaften zwischen Jahrhundertwende und Weimarer Republik.”

Henning Schmidgen was awarded the 2010 *Paul-Bunge-Preis* of the Gesellschaft Deutscher Chemiker for his book “Die Helmholtz-Kurven. Auf der Spur der verlorenen Zeit” and his significant contributions to the internet project “Virtual Laboratory.”

Milena Wazeck was awarded the 2009 *Georg-Uschmann-Preis für Wissenschaftsgeschichte* from the German Academy of Sciences, Leopoldina for her thesis on Einstein’s adversaries.

Publications

This bibliography comprises the publications of the Institute's members and guests during the period 2008–2009. Book reviews are not listed.

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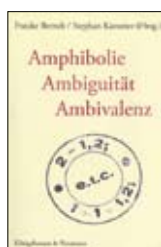
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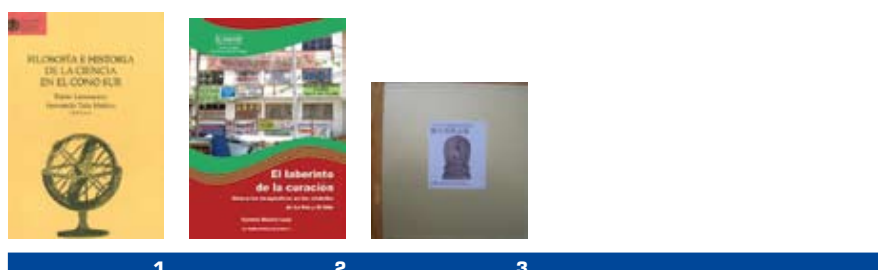
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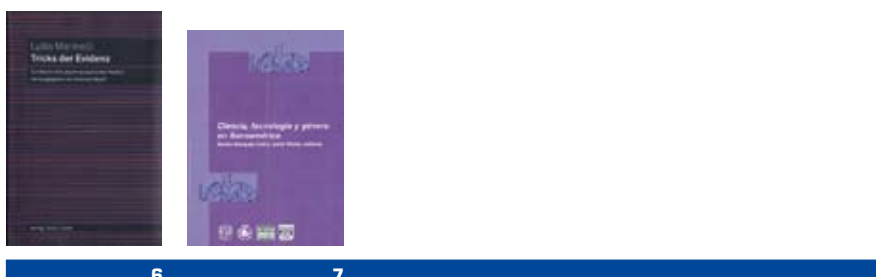
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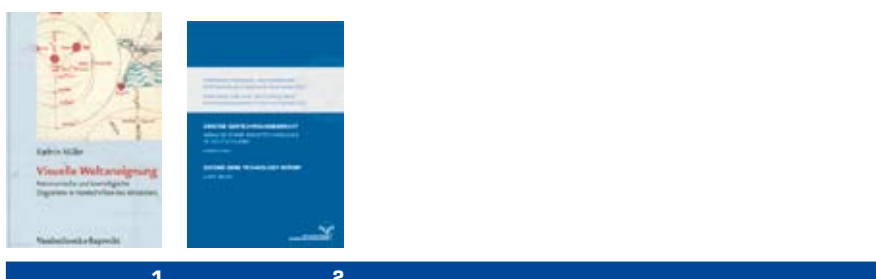
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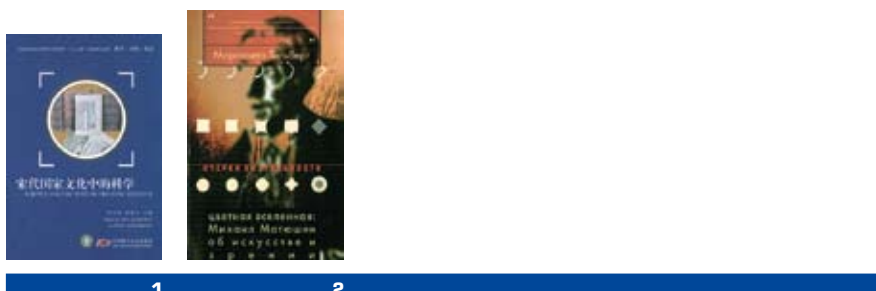
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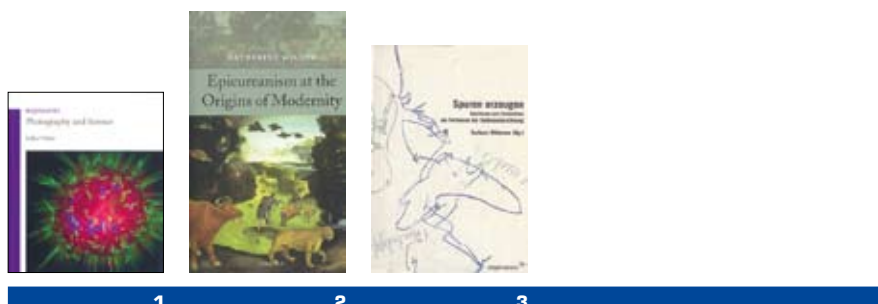
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