International Society for the History, Philosophy, and Social Studies of Biology NEWSLETTER

Spring 2003 Twenty-seventh Issue Volume 15, No. 1

Vienna Welcomes ISHPSSB

Werner Callebaut and Astrid Jütte

Some useful local navigation tips from your local hosts

Arriving at the airport

Most of you will fly in on Wednesday, July 16. A local arrangements person, carrying a clearly visible "ISHPSSB" sign, will be present at the airport meeting point (beyond Customs) from 9 a.m. until 7 p.m., to assist incoming participants. Maps of Vienna as well as Vienna week cards (see below) will be available from this person.

Airport - City transportation

There are two cheap and convenient ways to enter the city

from Vienna International Airport: by train and by bus. Both services are frequent, reliable, comfortable, and quick (approximately 20 minutes). There is little point in using a taxi service: you will gain only a few minutes at best, and it will be much more expensive.

Train: There is a new "Schnellbahn" connection that currently runs approximately every half an hour (possibly every 15 minutes by July), taking you directly to WIEN MITTE station, where you can continue to your hotel or to the conference

Book Your Hotel in Vienna Today

Ten hotels -- from 1 to 5 stars -- located around the conference location, provide reserved rooms for ISHPSSB participants. More information is available online by following the link from the ISHPSSB website or by contacting the agent, Mr. Bernhard Schloegel, who is assisting our local arrangements chairs. To get the discount, book your reservation through Mr. Schloegel rather than with the hotels directly. In the hotel list on the next page, you will find prices along with the latest dates to book for this price.

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The "Narrenturm" and one of its inhabitants.

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Enclosed: ISHPSSB Officer Ballot

Hotel Hilton Vienna Plaza***** (Schottenring 11) single EUR190
Hotel Rathauspark ***** (Rathausstrasse 17) single EUR120 [30th April]
Hotel Regina ***** (Rooseveltplatz 15) single EUR150 [16th May]
Hotel Alexander **** (Augasse 15) single EUR92 [30th April]
Hotel Am Schottenpoint **** (Währingerstrasse 22) single EUR79 [30th April]
Hotel Alpha **** (Buchfeldgasse 8) single EUR75 [15th April]
Hotel Graf Stadion **** (Buchfeldgasse 5) single EUR72 [30th April]
Pension Bleckmann **** (Währingerstrasse 15) single EUR72 / double EUR92 [15th April]
Pension Franz *** (Währingerstrasse 12) single EUR57 [30th April]
Porzellaneum * (Porzellang 30) single EUR21 / double EUR40 (without breakfast)

Use the form below or register using an online form. See the ISHPSSB website for details.

Mr. Bernhard Schloegel of *EuroCongress Conference Management* will handle your hotel reservations. Please indicate "ISHPSSB 2003" in your request. Please also indicate special demands (air condition, wheel chair accessibility, etc.). email: bernhard.schloegel@eurocongress.org. Phone: +43-1-867 49 44-26. Fax: +43-1-867 49 44 9

ISHPSSB MEETING 2003

INTERNATIONAL SOCIETY FOR THE HISTORY, PHILOSOPHY AND SOCIAL STUDIES OF BIOLOGY

July 16 – 20, 2003

Vienna, Austria

ISHPSSB ACCOMMODATION FORM

You will find this form online by following the links from the ISHPSSB website. Register online or send or fax this form. Please use one form to reserve one room. You may photocopy this form to reserve additional rooms. Reservation forms must be returned to EuroCongress, best by end of March. All reservation requests are subject to space availability.

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| Please note any Special | Accommodations required: | | | |
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Please return completed Accommodation Form as soon as possible, to Bernhard Schloegel at:

 $\textbf{E} uro \textbf{C} ongress \ Veranstaltungs GmbH$

Mariahilfer Strasse 133/2/6 A-1150 Wien, Austria

Phone: 0043-1-867-49 44 26, Fax: 0043-1-867-49 44 9, Email: office@eurocongress.org

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reception desk by taxi or public transportation (see below). Once you have passed through Customs, look for the train logo and take the elevator down to the train platform level. Tickets can be purchased there. The fare is EUR 2,91; if you wish to continue your travel beyond WIEN MITTE by public transportation, add EUR 1,53. The train schedule is available at http://english.viennaairport.com/pdf/bahn.pdf. At WIEN MITTE train station, you can conveniently board subway trains (U3, Orange Line; U4, Green Line); the subway station there is called LANDSTRASSE.

Bus: A shuttle bus, which runs every 20 minutes, connects the airport and the CITY AIR TERMINAL (schedule at http://english.viennaairport.com/pdf/bus1.pdf). Once you have passed through Customs, you will see several boards announcing bus departure times. The fare, which includes three pieces of luggage, is EUR 5,80 for a single ride (one way) and EUR 10,90 for a roundtrip. Tickets can be purchased either from a vending machine at the bus stop or on the bus. From the CITY AIR TERMINAL you can take a taxi to your hotel or, if you prefer to use the "Oeffis" (public transport system), you can walk to the subway station LANDSTRASSE, which is only one block away. There is another shuttle that connects the airport, SÜDBAHNHOF, and WESTBAHNHOF. It operates every 30 minutes and the trip to WESTBAHNHOF takes about

Floridsdorf Heiligenstadt Ottakring Praterstern (Wien Nord) edenplatz Landstraße City Air Terminal Stephansplatz ien Mitte) Westbahnhol Volkstheater Hütteldorf Karlsplatz Längen**f**eldgasse Bus Rennweg Meidling. Südtiroler Simmering Südbahnho Reumannplatz Siebenhirten

35 minutes. The fare is the same as above. Some of the hotels may be quicker to reach from WESTBAHNHOF than from WIEN MITTE/LANDSTRASSE. We advise you to check where in Vienna your hotel is located before deciding which bus to take.

Vienna week card

Most of you will want to use the excellent public transportation during your stay in Vienna. A "Wochenkarte" (week card), valid from Monday until the following Monday, 9 a.m., costs only EUR 12,50. It allows you to use all subways, trams (streetcars), and buses (including night lines), and S-trains ("Schnellbahn") in the large "Zone 100" area. We strongly recommend you to buy such a card (see registration form). Week cards can be picked up on Wednesday, either from our local arrangements person at the airport or at the reception desk at the conference site.

Conference registration

The Vienna University Campus (if you ask the Viennese for directions, refer to it as "Altes AKH") is within walking distance from many hotels where participants will be staying as well as from subway lines U2 (Purple Line, SCHOTTENTOR stop) and U6 (Brown Line, ALSERSTRASSE stop). It can be reached directly by tram 5 along Spitalgasse, by trams 43 and 44 along

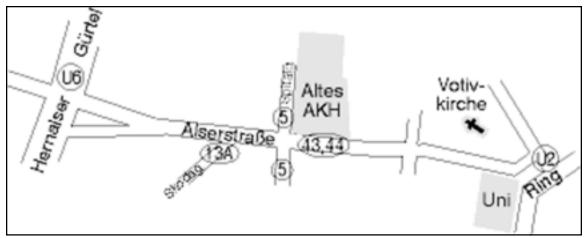
ALSERSTRASSE, and by bus 13A from SÜDBAHNHOF (see map on page 4).

Conference registration will be in the AULA. On Wednesday, the conference registration desk will be open from 2 until 10 p.m.

Evening events

On Wednesday afternoon and evening most people will want to stay on campus to meet old and make new friends. A number of tables have been held for us at a beer garden near the AULA. Vouchers for a limited number of complimentary drinks offered by our host, the KLI, will be handed out to participants when they register. The beer gardens on the campus quads also serve a variety of food (at participants' own expenses).

On *Thursday* evening, 8 p.m., there will be a reception at Town Hall, offered by Michael Häupl, the Mayor of Vienna, who is also a biologist. Town Hall is within walking distance from campus. Alternatively, you can take trams 43 or 44 to SCHOTTENTOR (end stop) and change



Routes to the Meeting Site.

Welcome, continued from page 3

to trams 2 or D (direction SÜDBAHNHOF) there.

A number of parallel activities are planned for *Friday* night. Two groups of thirty people each can register for a guided tour of the NATURAL HISTORY MUSEUM http://www.nhm-wien.ac.at/d/engvorschau.html which starts at 7 p.m. The museum is located on Burgring (trams 2 and D from SCHOTTENTOR). Two groups of twenty attendees can participate in a guided tour of the NARRENTURM on

Spitalgasse, which houses the FEDERAL PATHOLOGIC-ANATOMICAL MUSEUM. These tours also start at 7 p.m.; Spitalgasse is adjacent to the university campus.

Twenty conference attendees can participate in a guided night tour of the SCHÖNBRUNN ZOO <http:// www.zoovienna.at/old/e_index.html>, which starts at 10 p.m. The zoo can conveniently be reached from campus by subway: U6 (station ALSERSTRASSE) to LANGENFELDGASSE, then U4 to Schönbrunn. As this newsletter goes into print, the local organizers are still working on other plans for Friday night as well. Please check the ISHPSSB website for updates. Detailed information will be available at the ISH03 registration desk, where participants can register on a first come first serve basis.

A visit of Vienna would be incomplete without a night of wining and dining (hopefully followed by singing) at a "Heurigen" wine garden restaurant. *Saturday* night will be the night! The

Heurigen we selected, SCHÜBEL-AUER (Kahlenbergerstrasse 22, 1190 Wien) can be easily reached by tram D (direction NUSSDORF), for instance, from

SCHOTTENTOR: it is located next to the D line's end stop.

Post-conference tours

Post-conference tours have been planned to the Konrad Lorenz Institute for Evolution and C o g n i t i o n

Research (KLI) in Altenberg near Vienna on Sunday afternoon http://www.kli.ac.at, to the idyllic Konrad Lorenz Research Station in Grünau on Sunday and Monday http://www.univie.ac.at/zoology/nbs/gruenau/, and to the Mendelianum in Brno, Czech Republic, on Tuesday.

Participants are kindly but firmly asked to register for post-conference tours as soon as possible (see http://www.kli.ac.at/stuff/ishpssb/information.html#tour). The local organizers cannot guarantee that late bookings will still be receivable.



The Mendelianum in Brno.

Visit the Society website for the latest on meeting updates:

www.phil.vt.edu/ishpssb/

Use the Enclosed Ballot to Vote for Candidates

Read the brief biographies below to familiarize yourself with the nominees.

Return the Enclosed ballot by June 13 to Dick Burian at the address on the back side of the card.

Instruction on the Presidential Vote:

Following previous ISHPSSB precedent, we will use a preferential voting system in the presidential election. This system should ensure that the winning candidate has majority support. Voters will designate their first and (if they so choose) second and third choices for president. If, after the first preferences are tallied, no candidate has 50 percent or more of the votes, the ballots of the candidate with the lowest total will be reallocated to the second-preferred candidate on the reallocated ballots. In a three-person race, such as we now have, this procedure should yield a majority vote for the winning candidate.

For President-Elect (vote for one):

Garland E. Allen is Professor of Biology at Washington University in St. Louis, a position he has held since 1967. In addition to teaching introductory courses for majors and pre-meds, and occasionally for non-majors, he also teaches courses on the Darwinian Revolution, the Scientific Revolution, heredity and modern society (eugenics), and a graduate seminar on Darwin, Marx and Wagner. His main research interests have centered around the history of genetics, evolution, and development in the late nineteenth and twentieth centuries. He is currently coeditor of the Journal of the History of Biology, and has served on numerous committees for HSS. He is currently a member of the Education Committee of ISHPSSB.

Philip J. Pauly is a professor of history at Rutgers University and teaches in the graduate program in history of technology, environment, and health. His current project is on horticultural improvement, plant introduction, and pest exclusion in North America during the last 250 years. His most recent book, *Biologists and the Promise of American Life*, appeared in 2000. He has also written about the history of experimental biology, alcohol research, psychology, and science popularization. He has served on the councils of ISHPSSB and the History of Science Society, and have been an associate editor of the *Journal of the History of Biology*.

Polly (Mary Pickard) Winsor has been on the faculty of the Institute for the History and Philosophy of Science and Technology at the University of Toronto since 1969; she served as its director for 6 years. Although she is an historian, she has published one paper in *Biology and Philosophy* and a second will be in the next issue. She is a past president of the Canadian Society for the History and Philosophy of Science. She took part in ISHPSSB meetings in Brandeis, London (Ontario), Leuven, and Oaxaca, and has organized a session for Vienna.

For Council (vote for three):

Joe Cain is Lecturer in History and Philosophy of Biology at University College London with research interests in 20thC evolutionary studies, especially the synthesis period. Bibliographic details are: http://www.ucl.ac.uk/sts/ cain/>. Recent examples are: "Co-opting colleagues: appropriating Dobzhansky's 1936 lectures at Columbia," (2002) and "A matter of perspective: multiple readings of George Gaylord Simpson's Tempo and mode in evolution," (2003). Recent collaborative projects include a study of Julian Huxley's period as Secretary of the Zoological Society of London and an analysis of assessment techniques in history of science undergraduate courses. Joe also is associate editor of Archives of Natural History and serves as an officer in the Society for the History of Natural History. Joe joined the ISHPSSB at its start and served as its first (he thinks) Student Representative. Joe comments: "I like the scale and range of services provided in the ISHPSSB. I also like its international, collaborative, and interdisciplinary spirits. It occupies a special niche within our combined specialties."

Nathaniel Comfort is in the history department at The George Washington University, where he teaches the history of science and serves as deputy director of the Center for History of Recent Science. In 2002-2003, he has been a visiting professor in the Institute of the History of Medicine at the Johns Hopkins Medical Institutions. His research is on twentieth-century biomedicine, especially genetics and molecular biology. In 2001, he published *The* Tangled Field, a biographical study of the geneticist Barbara McClintock, with Harvard's press. He has published in scholarly journals such as the Journal of the History of Biology and Science, and in popular venues such as Natural History and the New York Times Book Review. Currently, he is working on the history of human genetics. When he mounts his soapbox, it is usually to address some combination of genetic determinism, the need for scholars to communicate more effectively with the public, graduate education, and the value of history of science outside the ivied walls and hallowed halls of academe.

Kathy J. Cooke had just been promoted to Professor of History at Quinnipiac University. Her research is organized around themes "breeding" and "race improvement" in the history of the United States. Specifically, Kathy studies agricultural breeding and the impact of genetic technology and theory as well as specific efforts to "breed" better people through the American eugenics movement. She has published articles in *Isis*, the *Journal of the History of Biology, Endeavour, Mount Sinai Journal of Medicine*, and *Agricultural History*. In her current

book project she is assessing late nineteenth and early twentieth century ideas about human breeding and "race improvement" in the progressive era, using the life and thought of Edwin Grant Conklin as the unifying thread for various aspects of Progressive reform.

Karin Matchett is a postdoctoral associate in the History of Science and Medicine at Yale University. She is currently at work on a book based on her dissertation on the history of agricultural science and corn improvement in Mexico and the United States, and is author of "Debates sobre el Método de Maíz Híbrido en Estados Unidos y su Traducción en México," forthcoming in Ciencias Agrícolas y Cultura Científica en América Latina. She also researches issues in the history of intellectual property rights and the life sciences, and is leading a travel seminar to Mexico in January 2004 that will focus on the international political, scientific, and cultural issues surrounding agriculture and corn cultivation. During 1997-1999, she was the graduate student representative on the ISHPSSB Executive Council. Currently, she is on the Executive Committee of the Earth and Environment Forum of the History of Science Society.

Jason Scott Robert is an Assistant Professor and Canadian Institutes of Health Research (CIHR) New Investigator in the Department of Philosophy at Dalhousie University, Halifax, Canada. His research focuses primarily on developmental biology, especially in relation to evolution, genetics, ethics, and the etiology of complex disease. He was recently admitted as an investigator to the Stem Cell Network (a member of the Networks of Centres of Excellence), but most of his research funding is from the CIHR and the CIHR Institute of Genetics. Publications include Embryology, Epigenesis, and Evolution: Taking Development Seriously (forthcoming from Cambridge University Press), as well as articles in such journals as Biology & Philosophy, Evolution & Development, BioEssays, Bioethics, and Theoretical Medicine & Bioethics. He serves on the Membership Development Committee of ISHPSSB, the Voluntary Health Organizations Working Group of the CIHR Institute of Genetics, and is a local coordinator for the 2003 meeting of the Canadian Philosophical Association.

Phillip Sloan is Professor in the Program in History and Philosophy of Science and Chair of the Program of Liberal Studies at the University of Notre Dame. Originally trained in biological oceanography with work on deep-sea biology, he has specialized in the history and philosophy of the life sciences. His research area is the history and philosophy of the life sciences in the modern period. He is the coauthor of From Natural History to the History of Nature: Readings from Buffon and His Critics (with John Lyon) (1981), and the author of Richard Owen's Hunterian Lectures: May-June 1837 (1992). Most recently he edited and contributed to the volume Controlling Our Destinies: Historical, Philosophical, Ethical, and Theological Perspectives on the Human Genome Project (2000). Recent articles and chapters include: "A Sense of Sublimity: Darwin on Nature and Divinity" (2001); "Preforming the Categories: Kant, Categories, and 18th C. Generation Theory" (2002); "Reflections on the Species Problem: What Marjorie Grene Can Teach Us About a Perennial Problem" (2003). He is the President Elect for Section L (History and Philosophy of Science) of the AAAS.

For Program Chair (vote for one):

Lynn K. Nyhart is an associate professor and outgoing chair of the Department of the History of Science at the University of Wisconsin-Madison. Following her first book, Biology Takes Form: Animal Morphology and the German Universities, 1800-1900 (Chicago, 1995), she is now completing a book on civic zoology in Germany at the end of the nineteenth century, which examines the ecological and geographically oriented approaches to nature and science developed in German schools, zoos, and museums. She has served on the ISHPSSB nominating committee (1989-1991) and program committee (1997-1999), and served as program co-chair for the History of Science Society annual meeting in 2000. She writes, "I have been coming to ISHPSSB meetings since they began, and it remains the most intellectually stimulating meeting I regularly attend. I look forward to helping maintain and even increase the fruitful interdisciplinary exchange characteristic of this group's biennial meetings."

For Treasurer (vote for one):

Keith R. Benson is Program Officer for Science and Technology Studies at the National Science Foundation (Washington, DC). Before, he served as Professor in the Program in History and Philosophy of Science at the University of Washington, where he taught courses in the history of the life sciences. He is co-editor of *The* Development of American Biology and The American Expansion of Biology, edited the recent translation of Jacques Roger's classic book, The Life Sciences in Eighteenth-century France, and is co-editor of a work on the history of modern oceanography. He has written extensively on the history of American biology, particularly examining the early development of biology at Johns Hopkins University and the history of marine biology institutions on the east coast and west coast of the United States. He recently completed a six-year term as Executive Secretary of the History of Science Society and is currently Treasurer of ISHPSSB. In addition, he enjoys an active speaking schedule, especially addressing the social application of biology and the use of history of science in science teaching. He lives on Vashon Island in Puget Sound (Washington state) and in Washington (DC).

For Secretary (vote for one):

Chris Young is Assistant Professor in the Department of Biology at Alverno College, a liberal arts college for women in Milwaukee, Wisconsin. He teaches introductory science courses for non-science majors, an environmental studies

President's Semiannual Report

March 2003

Plans are being finalized for the ISHPSSB 2003 meeting in Vienna, Austria, July 16-20. An exciting program and activities are being planned. If you haven't already done so, make your travel plans now. Vienna is a busy place in the summer; do not delay in making your hotel reservations. See the ISHPSSB web site for relevant links, including information about site seeing, after conference tours, visa requirements, and more.

Rob Skipper, Program Chair, and the Program Committee have organized a rich and exciting program. It is important that those whose papers are accepted preregister, in order to be included in the final printed program. This procedure is needed because in the past some people sent abstracts but were unable to attend the meeting and entire sessions collapsed, so please preregister now.

Continued on next page.

Nominee bios, continued.

course, and a range of biology courses. His book, In the Absence of Predators appeared in 2002 (Nebraska). He received his Ph.D. in History of Science and Technology at the University of Minnesota, where he took courses in history and philosophy of biology as well as behavioral biology. He has a B.A. in biology from Hamline University in St. Paul, Minnesota. Chris has served ISHPSSB as newsletter editor, secretary, listsery creator and moderator, student representative, and as a member of several committees.

Lindley's Vienna

"Ah, Vienna, City of Dreams! There's no place like Vienna!"

Madman in Robert Musil's The Man Without Qualities Quoted in Janik and Toulmin (1973) Wittgenstein's Vienna, p. 33

Vienna is a grand city with its elegant Baroque buildings, an asymmetric Gothic cathedral, convenient trams, and—my favorite—musical cafes with delicious chocolate, whipped cream, and coffee. I visited Vienna in July 2002, after attending a workshop at the elegant Konrad Lorenz family home, a tour of which is one of the after conference tour options for ISH03. It is in Altenberg, about half an hour outside of Vienna, along the banks of the Danube. The Konrad Lorenz Institute for Evolution and Cognition Research, ISH03 local hosts, are located there.

Conference site: The ISH03 meeting will be held in a section of the University of Vienna in the city, just outside the inner ring road. This section of the University (unlike some of the older buildings) is like a college campus, with linked courtyards, trees, grass, benches. This complex used to be a hospital; some signs still carry its old name: "Altes AKH." However, it has been refurbished into an attractive series of older and newer buildings with one of the courtyards containing a small supermarket/deli and several beer garden restaurants—something not found on U.S. campuses! The whole complex is enclosed inside a wall, with occasional entrances; an easy way to get in is via Spital Gasse or Alser Strasse (see map). It will be a pleasant place to have sessions, meet with friends, have something to eat and drink. The Wednesday evening reception will take place at one of the beer garden restaurants in the courtyard, with the registration room nearby.

Hotels: Ideally, you have by now already booked your hotel, as indicated on the ISH email list in March. Vienna is a busy tourist city. Otherwise, don't delay. There is a link on the ISH web page to the agent who is handling booking, as well as links to webs sites of hotels near the conference site. In July 2002, I booked an Austrian Airlines vacation package that included airfare direct from Washington, DC Dulles airport to Vienna and three days hotel. The hotel was not very close to the conference site, but any hotel near a subway will mean you can get to the conference site.

Weather: I was in Vienna for two weeks, at the same time of year as the ISH03 meeting will be. The weather was extremely hot for about three days and I wished I had brought more shorts with me. If heat really bothers you, then look for one of the few air conditioned hotels (e.g., the Hilton). A small battery-powered fan was very useful. It rained a couple of days, so a raincoat and umbrella are good to have. Otherwise, it was delightful (70s F; 20s C), perfect for sitting outside.

Getting around: You'll want a card that allows unlimited travel on trams and the subway. Indicate on the registration form if you want to purchase one to pick up at the airport on Wednesday or at the registration desk, as our local hosts have kindly made this an option. Once one learns what number of tram to take, listed on some city maps, one can get around easily. A good way to see the city is to take Tram 1 or 2 that go around in opposite directions on the "Ring" that was built where the oldest city wall stood. I had no problems walking alone at night in the neighborhood of the university. Many places didn't accept credit cards. I needed more euros that I expected and had to pay a high exchange rate one weekend at an exchange office near St. Stephens Cathedral. I'll change more at a bank on my next visit.

Lindley's Vienna, continued from page 7

Tourist attractions: There is much to see and do in Vienna as a tourist. My time there was too short. I missed the grand art museum, which is closed on Mondays. But the Natural History Museum is open on Mondays (closed on Tuesdays). I especially enjoyed the anthropology/archeology section, which has a 35,000 year old, tiny figure of a woman in a dance pose, as well as one of the chubby Venus statues. There is a pleasant cafe (as there is almost everywhere one goes in Vienna) where one can sip coffee while monkeys, rather than cherubs, look down from the molding.

A video to rent before the trip is *The Third Man*, a movie with Orson Welles, set in Vienna. Tours will take tourists to sites used in the filming or it's easy to visit just the Prater, the amusement park with the huge old style Ferris wheel. I took a ride in a large carriage, like the one where Welles threatened Joseph Cotton. The views of the city and surrounds are spectacular, as the carriage slowly rotates. A good guide book to read before going is Insight Guide Vienna, which provides history and many colored pictures. A useful guide to carry is Fodor's Austria. I've bought a new small German dictionary, as I wore out my old paperback one. Two books that philosophers might enjoy reading before the trip are Wittgenstein's Poker and Wittgenstein's Vienna. In Wittgenstein's Poker, two journalists recount an episode between Wittgenstein and Popper that took place in Cambridge and is remembered differently by those present. The book recounts their biographies, both of whom grew up in Vienna, but with a "great gulf of wealth and influence between them." (p. 4) Wittgenstein's Vienna was written by a philosopher (Toulmin) and a historian (Janik) and places Wittgenstein's philosophical work into the context of Vienna of his time. A possible visit is to see the house that Wittgenstein designed that now houses the Bulgarian Cultural Institute at Kundmanngasse 19. When I was there it was closed, but one can walk around the outside. This visit can be coupled with a visit to the whimsical colorful house, Hundertwasserhaus, that reminds one of Gaudi's work in Spain. I noted playful architectural details while sipping coffee with whipped cream, in a pleasant outdoor cafe.

Eating and drinking: To continue my theme, my favorite thing to do in Vienna is to sit in a cafe, drinking and eating something with whipped cream, reading the *Herald Tribune*, listening to a piano, and watching people go by. Two especially nice spots: the Cafe Weimar (Währinger Strasse 68) near the conference site and the Cafe Schwarzenberg on the Ring. Somewhat surprisingly, if a basket of rolls is provided, you are charged for the number that you eat. Guidebooks list some more famous cafes that I didn't have time to visit. While I was there, chanterelle mushrooms were in season. They are yellow and funnel shaped and delicious in a cream sauce or an omelet. Several of us had a delightful evening, visiting the wine garden restaurant where the Saturday evening banquet will be. Instead of suburbs, Vienna is surrounded by vineyards, so we took a tram out to the edge of the city to the "Heurigen." That is a place that sells the light new white wine produced the previous year, along with plenty of hearty food, in a garden setting at long tables. The wine went down all too easily! I'm eagerly anticipating our banquet there.

Trips: Several after conference tours are being planned, so that participants can continue discussions while enjoying nearby sites. Please indicate your interest on the registration form. One trip will be to the Konrad Lorenz home in Altenberg, with its pleasant gardens. Another is a overnight mountain trip to the Konrad Lorenz Research Station in the mountains at Grünau. I've never been and I plan to take this tour. The third is a trip to Brno to the Mendel Museum. I took the train there from Vienna (about 4 hours away), but if enough people are interested a bus tour is planned. Some citizens need visas to visit the Czech Republic, but as a U. S. citizen I didn't (but Canadians do; see the ISH web page for visa information). The monastery has a large statue of Mendel, the site of his garden and a small museum that houses such items as Mendel's copy of Darwin's *Origin*. Walking the streets of the old medieval city and visiting a second Mendel exhibit in the museum in the main square was a pleasant way to spend the afternoon.

Other things to consider doing on one's own: a trip to Salzburg, with all its Mozart sites (I've been there and it is well worth a visit) or a trip on the Danube to Budapest (I've never been but I'd like to).

President's Report, continued from page 7

The striking colored poster advertising the Vienna meeting arrived with the fall 2002 newsletter. Thanks to Konrad Lorenz Institute for Evolution and Cognition Research (KLI, our Vienna hosts) for designing and printing the poster and thanks to Chris Young for all his work in preparing the newsletter and stuffing the envelopes to include the poster with the last Newsletter. (A few copies of the poster remain. If you did not receive one, contact Chris.)

Thanks to Todd Grantham, Chair, and members of the new Membership Development Committee for designing a membership flyer, making it available on the web site, and arranging for it to be distributed at various professional meetings.

The Council held a breakfast meeting in Milwaukee at the PSA/HSS meeting, November 2002 discussed various business matters. Terry Sullivan arranged for students to staff the ISHPSSB table where ISH03 posters membership flyers were distributed. Thanks to Chris Young and Jay Malone, the Executive Director of the History of Science Society, for their help with these arrangements.

The Council approved the Nominations Committee: Dick Burian, Chair, Marilia

Continued on page eleven.

ISHPSSB Vienna 2003 Preliminary Program

After a flurry of activity I've managed to go through all of the proposals for ISHPSSB 2003 in Vienna. A preliminary program has been sketched, including scheduled sessions with papers and titles, but without special events like receptions (see the article "Welcome to Vienna" for more details on these). The preliminary program is subject to minor changes, but is worth looking at to get a flavor of what you'll see at the conference — and there is certainly a lot to see. The preliminary program is available at http:// www.phil.vt.edu/ishpssb. The full program, abstracts, special events, and all, will be posted on May 1. Participants and, well, everybody, should register by June 15, and book hotels, in most cases, by the end of April (see the first page of this Newsletter for more details on hotels).

You'll especially like the Presidential Plenary our President Lindley Darden has organized, laying the land for where history, philosophy, and social studies of biology are and where they're going. You'll also like the Evening Plenary, a tribute to Stephen J. Gould, which Betty Smocovitis has organized. See you in Vienna, July 16-20.

Rob Skipper, ISH03 Program Chair

The program begins on Wednesday, July 16 with a workshop on education (see below) and continues through Sunday, July 20. Participants are also encourged to stay and participate in tours that will occupy Sunday, Monday, and Tuesday.

Continued on next page.

ISHPSSB Pre-Conference Workshop

"Biology and Society' Programs: Preparing Students for

In a variety of critical, global issues, including environmental quality, agriculture, health care, biotechnology, and international relations, the biological sciences are interwoven with social, economic, and political concerns. Traditional

day.)

Biology in Social Context"

Wednesday, July 16, 2003 9:00 am - 3:00 pm University of Vienna (Room location to be announced)

students to analyze biology in social context. A discussion that includes sharing of teaching experiences and strategies will follow these activities. In the afternoon, we will turn to the

and society programs to encourage

undergraduate biology programs fail to critically address the social contexts of science; and degrees in the history, philosophy, or social studies of biology may not support adequate understandings of biology subject matter. Are 'biology and society' programs a promising way to prepare further policy-makers, educators, biologists, and citizens to understand and constructively influence the complex issues of biology in social context? To explore this question, the ISHPSSB Education Committee will sponsor a preconference workshop on Wednesday, July 16, 2003 from 9:00 am - 3:00 pm, at the University of Vienna conference

In this interactive workshop, participants will examine ways to conceive of goals, course topics, and instructional approaches in biology and society programs. We will begin with an instructional perspective: What kinds of learning activities help students develop skills and understandings needed to investigate the intersections of biology and society? Workshop participants, in the role of students, will work together on activities used by biology

site. (A general reception opens the conference later that

evening, and regular conference sessions begin the next

broader issues of program goals and design. What can biology and society programs accomplish that existing approaches in biology, history, philosophy, and social studies of science fail to do? How can biology and society programs engage traditional disciplines, while also exceeding them? What should a biology and society curriculum look like? What does it take to start a program?

To guide and enrich our discussions, representatives from biology and society programs will describe their approaches, not as models to be duplicated, but as enticements to creative thinking. Workshop presenters include Jane Maienschein, Jim Collins, and Manfred Laubichler, from the Biology and Society Program in the Biology Department at Arizona State University (see: < http://lsvl.la.asu.edu/biosoc/>).

The workshop is free, but space is limited. Please contact Steve Fifield (fifield@udel.edu), Chair of the ISHPSSB Education Committee, if you plan to attend. The location of the workshop on the University of Vienna campus will be announced soon.

Preliminary Program: Subject to Change

Wednesday, July 16

9-3 PM

Teaching Workshop

Thursday, July 17

9-10:30 AM

Presidential Plenary

History, Philosophy, and Social Studies of Biology: Where Are We and Were Are We Going?

Opening Remarks, **Lindley Darden**, ISHPSSB 2001-2003 President, U of Maryland, USA

The Double Face of Janus: Bringing Together History of Medicine and History of Biology, **Bernardino Fantini**, Editor of *History and Philosophy of the Life Sciences*, Geneva Medical School, Switzerland

History of Biology Today, **Jane Maienschein**, Co-editor of *Journal of the History of Biology*, Arizona State U, USA

Philosophy of Biology Tomorrow, **Peter Godfrey-Smith**, Associate Editor of Biology and Philosophy, Stanford U, USA

Social Studies of Biology Today, **Michael Lynch**, Editor, *Social Studies of Science*, Cornell U, USA

History of the Life Sciences at the Max Planck Institute for the History of Science, **Hans-Jörg Rheinberger**, Director, Max Planck Institute for the History of Science, Germany

Evo-Devo at the Konrad Lorenz Institute, **Gerd B. Müller**, U of Vienna, Chairman, Konrad Lorenz Institute for Evolution and Cognition Research, Austria

Where Do We Go Now? Themes in the ISH03 Program, **Rob Skipper**, ISHPSSB 2003 Program Chair, U of Cincinnati, USA

11-12:30 PM

SESSION I

Interpreting Evolutionary Theory, Organizer: **Thomas Kane**

TBA, **Rob Skipper**, U of Cincinnati, USA TBA, **Thomas Kane**, U of Cincinnati, USA

TBA, Robert C. Richardson, U of Cincinnati, USA

SESSION II

Biologists in Policy-Making, Organizer: **Heather Douglas** How Can Biologists Contribute to Public Policy? **Carl Cranor**, U of California, Riverside, USA

Ecological Indicators: Science and Policy Intertwined in the Classification and Evaluation of Nature, **Esther Turnhout**, Alterra Natuurplanbureau, The Netherlands

Electromagnetic Field Effects and the Governance of Risk: The Precautionary Principle and the Interaction of Regulatory and Biological Models in the Context of Policy-Making, **Justus Lensch**, Institute for Science and Technology Studies, Beilefeld U, Germany

Biology and Disease Causation, **Douglas L. Weed**, National Cancer Institute, USA

SESSION III

Biological Information, Contributed Papers

Information Theory and Immunology, **Andrea Grignolio** The 'Arbitrariness' of the Genetic Code, **Ulrich Steggman**, King's College, London, UK

Semiotic Models, the Design of Molecular Structures, and the Function of DNA, **Ulrich Krohs**, U of Hamburg, Germany

SESSION IV

Reconfiguring Knowledge: Intersections Between Physiology and Philosophy in the last Quarter of the Nineteenth Century, Organizer: Francesca Bordogna

Physiological Reconfigurations of Mind and Knowledge: Hermann von Helmholtz, Ernst Mach on the Unity of Knowledge, **Edward Jurkowitz**, U of Illinois, Chicago, USA

Psychology Between Philosophy and Physiology: Demarcation and Discipline Formation in Late Nineteenth Century France, **Daniela Barberis**, U of Chicago, USA

The Disputed Boundaries: William James, Philosophy, and the Naturalistic 'Science of Man,' **Francesca Bordogna**, Northwestern U, USA

SESSION V

Biology and Gender, Organizer: Smilla Ebeling

The Gendered Brain, **Sigrid Schmitz**, U of Freiburg, Germany

The Gendered Genes? **Baerbel Mauss**, Humboldt U, Berlin, Germany

Biological Theories about Sex and Reproduction as Mirror of Ideas of Human Sex and Gender Issues, **Smilla Ebeling**, U of Oldenburg, Switzerland

SESSION VI

Zoos in Central Europe, Organizer: Mitchell Ash

A Venue of Social Pleasures: The Establishment of the Zoological Garden of Frankfurt am Main, **Ayako Sakurai**, Cambridge U, UK

The Nature of the City: Zoos as Spaces of Urban Culture, **Christina Wessely**, U of Vienna, Austria

Between Education and Environment: The Public Shoenbrunn Menagerie in the 19th and Early 20th Century, **Oliver Hochadel**, U of Vienna, Austria

SESSION VII

Making Sense of Interlevel Causation, Organizer: Carl F. Craver

Explaining (Away) Interlevel Causes I: A Field Guide to Levels, Carl Craver, Washington U of St. Louis, USA

Explaining (Away) Interlevel Causes II: Mechanistically Mediated Effects, **Bill Bechtel**, U of California, San Diego, USA

Top-Down Causation and Mechanistic Explanation, **Gregory Mikkelson**, McGill U, Canada

Realization, Mechanism, and Cause, **Thomas W. Polger**, U of Cincinnati, USA

SESSION VIII

Fifty Years of the Molecular Biology of Behavior, Organizer: C.U.M. Smith

DNA and the Origins of a Molecular Neuroscience, **C.U.M. Smith**, Aston U, UK

Neurodevelopmental Complexities in Worms and Flies: Strategies for Representation and Explanation, **Kenneth F. Schaffner**, George Washington U, USA

Neurobiology and a Renaissance in Psychoanalysis? A. E. Manier, U of Notre Dame, USA

President's Report, continued from page 8

Coutinho, Ron Rainger, Eli Gerson, Jane Camerini, and Jane Maienschein. The committee prepared a slate and issued a call for any additional nominations on the ISH email list. The final slate is included here. Thanks to the committee and to all who have agreed to run for office. Please cast your vote for ISH 2003-2005 officers and new council members. Your ballot is to be mailed to Dick Burian, as indicated.

Mike Dietrich, Chair, and the Operations Committee drafted a time-line for ISH activities of the Council and officers. This timeline will help to preserve institutional memory and aid those newly elected in the future.

ISHPSSB is grateful to Jay Malone, the Executive Director of the History of Science Society, and George Gale, the Executive Secretary of the Philosophy of Science Association, for arranging with John Perhonis of the National Science Foundation, for some travel funds for U.S. graduate students who will be presenting papers at the ISH03 Vienna meeting. Thanks to Bruce Seely for suggesting to me that I contact them about this possibility. Both U.S. and non-U.S. students should apply for travel funds to Keith Benson, the ISH Treasurer, who will forward appropriate applications to Jay Malone. Nonetheless, funds are limited and travel for those not living near Vienna is quite expensive. Please contribute to the ISH travel fund.

The Site Selection Committee for ISH07 (Mike Dietrich, Chair, Jane Maienschein, and Jessica Pfeifer) solicited invitations and worked with Exeter University to produce an excellent proposal that has been approved by the Council. So, think about travel plans to England in 2007.

David Castle has finalized the dates for ISH05: July 13-17, 2005, Guelph, Ontario, Canada. Mark your calendars.

Members with items for the agenda of the Council or business meetings in Vienna should send them to me no later than June 1.

See you in Vienna.

SESSION IX

Role of Representations in Biology, Contributed Papers

Natural History as a Social Phenomenon: Illustrations of Naturalists (1700-2000), **Robert Hendrick**, St. John's U, USA

The Biologist as Artist: The Botanical Illustrations of Agnes Arber, Maura C. Flannery, St. John's U, USA

Pictorial Evidence in Biology, **Laura Perini**, Virginia Tech U, USA Satellite-DNA Revisited: A Tale of Scientific Representation, **Edna Suarez**, UNAM, Mexico

SESSION X

History of Genetics: Mendel, Bateson, Dobzhansky, Contributed Papers

Mendel Finds a Home: Disciplinary Momentum in the American Reception of Mendel, 1900-1910, **Barbara Kimmelman**, Philadelphia U, USA

Did Bateson Reject the Mendelian Chromosome Theory? Lilian Al-Chueyr Pereira Martins

The Role Played by Theodosius Dobzhansky in the Emergence and Institutionalization of Genetics in Mexico, **Ana Barahona** and **Francisco Ayala**, UNAM, Mexico

2-3:30 PM

SESSION I

Experiments in Experimentalism I, Organizer: Sander Gliboff
Paul Kammerer and the Vivarium, Sander Gliboff, Indiana U, USA
The Inheritance of Acquired Sexual Diversity: The SteinachKammerer Collaboration, Cheryl Logan, U of North Carolina,
Greensboro, USA

Experimental Ecology in Soil Science: The Reception of Sergei Vinogradski's "Direct Method," 1920s-1930s, **Lloyd Ackert**, Johns Hopkins U, USA

SESSION II

History and Philosophy of Neuroscience, Contributed Papers The Units of Neural Selectionism, **Anthony Landreth**, U of Cincinnati, USA

Rat Pups and Robots, **Jeff Schank**, U of California, Davis, USA Dynamics in Laterality Research, **Ruth A. Byrne** and **Michael Kuba**, KLI, Austria

On the Uses of Strychnine: J.G. Dusser de Barenne and Cerebral Localization, 1916-1940, **Tara Abraham**, Max Planck Institute for the History of Science, Germany

SESSION III

A Cultural History of Heredity I, Organizers: **Staffan Müller-Wille** and **Hans Jörg Rheinberger**

Elements of Hybridism 1759-1875, **Staffan Müller-Wille**, Max Planck Institute for the History of Science, Germany

Heredity and Adaptation in Kant, **Peter McLaughlin**, Max Planck Institute for the History of Science, Germany

Contagion and Diseases as Causes, **Laure Cartron**, U of Paris I – Sorbonne, France

French and British Conceptions of Hereditary Transmission in the 19th Century: The Conflicts Between Galton and Ribot, and Galton and de Candolle, **Carlos Lopez Beltran**, UNAM, Mexico

SESSION IV

Picturing Eggs, Embryos, and Embryology I: Eggs and Embryos *in Situ*, Organizer: **Sabine Brauckmann**

The First Drawings of the Human Egg, **Erki Tammiksaar**, Baer Museum, Tartu

What Made Haeckel's Drawings of Eggs Controversial? **Nick Hopwood**, Cambridge U, UK

The Political Embryo: Representing the Human Embryo at 6-7 Weeks, **Scott F. Gilbert**, Swarthmore College, USA Commentary, **Helga Satzinger**, Technical U of Berlin,

Germany

SESSION V

Complexity: What is it Good For? I, Organizer: Lien Van Speybroeck

Complexity Science to Understand Living Organisms: Kant and Beyond, **Lien Van Speybroeck** and **Gertrudis Van de Vijver**, Ghent U, Belgium

What is Life? Is Complexity the Answer? **Michel Morange**, Ecole Normale Superieure, France

Irreducible Complexity in Biology, **John Collier**, U of Natal, South Africa

SESSION VI

Konrad Lorenz and Company, Organizer: Richard W. Burkhardt, Jr.

Konrad Lorenz as a Student of Karl Bühler, **Veronika Hofer**, U of Vienna, Austria

"Howling with the Wolf Pack": Konrad Lorenz and National Socialism Revisited, **Benedikt Föger** and **Klaus Taschwer**, U of Vienna, Austria

Konrad Lorenz and Niko Tinbergen: Complementarities and Conflicts Between the Co-founders of Ethology, **Richard W. Burkhardt, Jr.**, U of Illinois, Urbana-Champaign, USA

SESSION VII

Genetics and Policy-making, Organizer: **Heather Douglas** Public Health Genomics, **Ted Everson**, U of Toronto, Canada

From Recombinant DNA to Stem Cells: Genetics, Cultural Authority, and Public Policy, **John S. Emrich**, George Washington U, USA

Human Molecular Genetics: Two Different Approaches, **Adelaida Ambrogi**, Universitat de les liles Balears, Spain

SESSION VIII

The Extended Phenotype Revisited I, Organizers: **Kim Sterelny** and **Matteo Mameli**

The Implications of Niche Construction for Evolution, **Kevin N. Laland**, U of St. Andrews, Scotland

The Implications of Niche Construction for Ecology, **John Odling-Smee**, U of Oxford, UK

Extended Genotypes, Extended Phenotypes and the Nature of Inheritance, **Matteo Mameli**, London School of Economics, UK

SESSION IX

Biological Modeling I, Contributed Papers

Tradeoffs in Biological Model Building, **Michael Weisberg**, U of Pennsylvania, USA

Understanding the Usefulness of Biological Models, Sabina Leonelli, Vrije Universiteit Amsterdam, The Netherlands On Middle-Range Theories, **Pablo Lorenzano**, Universidad Nacional de Quilmes, Argentina

The Evolution of Germ and Soma: An Evaluation of the Models, **Grant Yamashita**, U of California, Davis, USA

SESSION X

History of 20th Century Biology, Contributed Papers Wright's Shifting Balances, **Jonathan Hodge**, U of Leeds, UK

From Autarky to Eugenics: The Rex Rabbit as a Mirror of the Healthy Nation: The Emergence of Pathologic Objects and the Beginnings of Comparing Medical Genetics in Germany Around 1930, **Alexander v. Schwerin**

Emile Zuckerkandl: His Early Life and the Molecular Clock Hypothesis, **Tomoko Steen**, Library of Congress, USA

4-5:30 PM

SESSION I

Experiments in Experimentalism II, Organizer: Sander Gliboff

The Biologist's Sommerfrische: Science at an Alpine Summer Home, **Deborah Coen**, Harvard U, USA

Experimentation without Limits: Herbert Spencer Jennings and Pragmatism at the Zoological Laboratory of Johns Hopkins, **Judy Johns Schloegel**, Indiana U, USA

SESSION II

Contingency and Explanation, Organizer: **Stuart Glennan** Robustness and Idealizations in Ecological Explanations, **Jay Odenbaugh**, U of California, San Diego, USA

Generative Entrenchment, William C. Wimsatt, U of Chicago, USA

Mechanisms and Contingency, **Stuart Glennan**, Butler U, USA

SESSION III

A Cultural History of Heredity II, Organizer: **Staffan Müller-Wille**

Genealogical Tools and the Notion of Heredity: The Development and Use of Family Trees in the Case of Hereditary Chorea, **Yoshio Nukaga**, Max Plank Institute for the History of Science, Germany

Producing Vaccines, Producing Variation: Agronomy, Race and Empire in the Science of Micro-organisms, **Andrew Mendelsohn**, Imperial College, UK

Color, Artifice, and Seeing the Physical Basis of Heredity, Nancy Anderson, Max Planck Institute for the History of Science, Germany

Commentary, **Hans-Jörg Rheinberger**, Max Planck Institute for the History of Science, Germany

SESSION IV

Picturing Eggs, Embryos, and Embryology II: Cells and Tissues in Motion, Organizer: **Sabine Brauckmann**

The Plant Embryo and the History of its Terminology, **Hans Werner Ingensiep**, Medical U of Lübeck, Germany

Egg Membranes as Media: Visualizing Influenza Virus on the Developing Chick Embryo, 1935-40, **Michael Bresalier**, Cambridge U, UK

On the Dynamics of Contact and Motion, **Sabine Brauckmann**, U of Utah School of Medicine, USA and KLI, and Austria

SESSION V

Complexity: What is it Good For? II, Organizer: Lien Van Speybroeck

Increase in Complexity, **Eörs Szathmary**, Collegium Budapest, Hungary

Complexity and Fragility, Michael Susko, Independent Scholar, USA

Some Explorations on Species as Complex Systems, Thomas Reydon, Leiden U, The Netherlands

SESSION VI

Conceptual Issues in Paleobiology, Organizer: **Todd Grantham**

Biomechanical Laws in Paleontology, **Derek Turner**, Connecticut College, USA

Null and Neutral Models in Paleobiology, **John Huss**, Reed College, USA

The Diversity of Questions About Biodiversity: Theoretical Pluralism and its Limits, **Todd Grantham**, College of Charleston, USA

SESSION VII

Women in Early Genetics, Organizer: **Ida H. Stamhuis** Muriel Wheldale Onslow and Biochemical Genetics, **Marsha Richmond**, Wayne State U, USA

Beyond the "Boss and the Boys," Michael Dietrich, Dartmouth College, USA

Women in Early Genetics in Russia, **Elena A. Aronova**, Institute for History of Science and Technology, Russian Academy of Sciences, Russia

Successful Women in Genetics, **Ida Stamhuis**, Vrije Universiteit Amsterdam, The Netherlands

SESSION VIII

The Extended Phenotype Revisited I, Organizer: **Kim Sterelny** and **Matteo Mameli**

Extended Phenotypes, Extended Organisms: A Physiological Perspective on Evolution, Natural Selection and Adaptation, J. Scott Turner, SUNY College of Environmental Science and Forestry, USA

Embodied Cognition and the Extended Phenotype, **Kim Sterelny**, Australian National U, Australia

Round Table Discussion

SESSION IX

Biological Modeling II, Contributed Papers

Biological and Cultural Evolution, Mark Bedau, Reed College, USA

Biological Possibilities, **Jason Zinser**, Florida State U, USA The Good, The Bad, and The Impossible, **James Maclaurin**, U of Otago, New Zealand

SESSION X

History and Philosophy of Anthropology, Contributed Papers

Montagu and Boaz on The Concept of Race, **Koffi Maglo**, Dibner Institute, MIT and U of Cincinnati, USA

French Race Theory and the Parisian Society of Anthropology: The Debate over 'La Force noire', 1909-1912, **Joe Lunn**, U of Michigan, Dearborne, USA

Rudolf Virchow: Darwinism, Anthropology and Heredity in the Second Half of the 19th Century, **Dirk Backenköhler**, U of Tübingen, Germany

Friday, July 18

9-10:30 AM SESSION I

Radiobiology in the Atomic Age, Organizer: **Angela N. H. Creager**, Chair: **Hans Jörg Rheinberger**, Max Planck Institute for the History of Science, Germany

Mice and the Reactor: The 'Genetics Project' and Atomic Politics in 1950s Britain, **Soraya de Chaderavian**, Cambridge U, UK

Alexander Hollaender's Vision of Radiobiology at Oak Ridge and Beyond, **Karen Rader**, Sarah Lawrence College, USA

The Radioisotope Distribution Program of the U.S. Atomic Energy Commission, 1946-1960, **Angela N. H. Creager**, Princeton U, USA

Nuclear Policy and Biomedical Experimentation in Spain: The Introduction of Radioisotopes, **Maria Jesús Santesmases**, Consejo Superio de Investigaciones Científicas

SESSION II

Evolution and Development I, Contributed Papers

The Influence of Development in Evolution: The View of Pere Alberch, **Tomás Garcia-Azkonobieta** and **Arantza Etxeberria**, U of the Basque Country, Spain

A View to a Failure? Part-Based and Kind-Based Science in Evolutionary Developmental Biology, **Rasmus Winther**, Indiana U, USA

Holism in Biological Development, **Jesse Love Hendrikse**, U of Calgary, Canada

Genetic Causality and the Organism, **Pieter Lemmens**, U of Lijmegen, The Netherlands

SESSION III

Philosophy of Cognitive Science I, Contributed Papers Objectivity Applied to Subjectivity: A Sequel to the Cognitive Revolution, **Andrzej Elzanowski**, U of Wroclaw, Poland

The Miscued Mind: Psychopathology and the Neglected Role of Developmental Cues, **Brian Garvey**, Trinity College, Ireland

Words That Alter Brains: A Shift in Neuro-cognitive Research? **Simona Ginsburg**, The Open U of Israel Folk Psychology and the Theory of Mind Module, **Matthew Ratcliffe**, U of Durham, UK

SESSION IV

Modes of Research in Biology, Organizer: **Eli Gerson**Between Philosophy and Experiment, **Manfred D. Laubichler**, Arizona State U, USA

Alternative Modes of Biological Research, **Elihu M. Gerson**, Tremont Research Institute, USA

Theoretical Biology at the Beginning of the 21st Century, **Peter Hammerstein**, Humboldt U, Germany

SESSION V

Animal Communication, Organizer: Georgina Hoptroff and Tania Munz

Carpenter's Tools Revised: Gibbon Vocalizations, Recording Equipment, and the Conception of Primate Communication as a "Homeostatic" Feedback System, **Georgina Hoptroff**, U of Minnesota, USA

The Primate Playback Experiment, **Gregory Radick**, U of Leeds, UK

Dancing Bees and Bickering Scientists: Karl von Frisch's Work on Bee Communication and the Dance Language Controversy, **Tania Munz**, Princeton U, USA

Commentary, Robert J. Richards, U of Chicago, USA

SESSION VI

Metaphor and Communication I, Organizer: **Brendon** Larson

The War on Invasive Species, **Brendon Larson**, U of California, Santa Barbara, USA

Variability and Biodiversity, **Elena Gagliasso**, U of Roma, Italy

On the Use of the 'Good Genes' Metaphor, **Viorel Paslaru**, U of Cincinnati, USA

SESSION VII

Genes, Genomes, and Genetic Elements I: Conceptualizing New Developments in Molecular Genetics, Organizer: **Karola Stotz**, Chair: **Paul E. Griffiths**, U of Pittsburgh, USA

Representing Genes: Testing Competing Philosophical Analyses of the Gene Concept in Contemporary Molecular Biology, **Karola Stotz**, U of Pittsburgh, USA

When Conceptual Analysis is No Longer Protected From the Methodology of Social Science, **C. Kenneth Waters**, U of Minnesota, USA

Pleiotropy and Environment, **Richard M. Burian**, Virginia Tech U, USA

Commentary, **Kenneth F. Schaffner**, George Washington U, USA

SESSION VIII

Functions and Teleological Explanation I, Contributed Papers

Functional Properties and Causal Relevance, **Mark Couch**, Columbia U, USA

Teleological Explanation: Shaping Contingency into Scientific Practices, Sergio F. Martinez, UNAM, Mexico

Adaptation as Selection-based Teleology: Darwin's Response to Gray on "Bringing Teleology Back" to Biology, **Scott Thomson**, Virginia Tech U, USA

SESSION IX

Biology and Ethics/Epistemology I, Contributed Papers Normative Turn of Evolutionary Ethics: The Invisible Evolutionary Ethics? **Tomislav Braconovic**, U of Zagreb, Croatia

Evolution and Moral Realism, **Kevin Brosnan**, U of Wisconsin, USA

Does the Fact of Human Evolution Undermine the Facts of Morality? **John Mizzoni**, Neumann College, USA

The History of Evolutionary Ethics, Fritz Alhoff, U of California, Santa Barbara, USA

11-12:30 PM

SESSION I

Karl Pearson, Ronald Fisher, and the Statistical Roots of Biology, Organizer: **Nancy S. Hall**

The Development of Pearsonian Statistics vis-à-vis Biological Populations of Species, **Eileen Magnello**, U College London, UK

Ronald Fisher and the Development of Statistics for Biological Research, **Nancy S. Hall**, U of Maryland and U of Delaware, USA

Commentary, Peter J. Bowler, Queen's U, UK

SESSION II

Evolution and Development II, Contributed Papers

The Problem of Innovation and Novelty, **Alan C. Love**, Indiana U and U of Pittsburgh, USA

Toward a Philosophy of Evo-Devo, **Werner Callebaut**, KLI, Austria and Limburgs Universitair, Belgium

Why Developmental Biology Outsmarted the DST, **Vivette Garcia-Deister**, UNAM, Mexico

The Primacy of Genes in Development, **Sang Wook Yi**, Hanyang U, South Korea

SESSION III

Philosophy of Cognitive Science II, Contributed Papers Mozart Effect: Can Creativity be Enhanced? **Felix T. Hong**, Wayne State U, USA

Baldwin Again and Again, **Barbara Continenza**, U of Rome, Italy

I Play, Therefore What Am I? Michael Kuba, KLI, Austria

SESSION IV

Endangered Species, Threatened Paradigms: A Fresh Look at the Recovery of Vanishing Wildlife, Organizer: **Mark V. Barrow**, **Ir.**, Chair: **Matt Chew**, Arizona State U, USA

A Passion of Peregrines: Captive Breeding of Endangered Falcons in the USA, **Helen Macdonald**, Cambridge U, UK

"Dragons in Distress": Annals of the American Alligator, Mark V. Barrow, Jr., Virginia Tech U, USA

Condortroversy: An Unnatural History of the California Condor, **Mark Madison**, U.S. Fisher and Wildlife Service, USA

SESSION V

Recent Work on Pluralism and the Levels of Selection, Organizer: **Rob Wilson**

The 'Averaging Fallacy' and the Levels of Selection, **Samir Okasha**, U of York, UK

Collections or Collectives? Perspectives, Parameterization and Pluralism in the Levels of Selection Debate, **Ben Kerr**, U of Minnnesota, USA

Pluralism, Entwinement, and the Levels of Selection, **Rob Wilson**, U of Alberta, Canada

SESSION VI

Metaphor and Communication II, Organizer: **Brendon Larson**

Metaphors and the Dynamics of Knowledge: "Genetic Code" and "Information" in German Molecular Biology During the 1950s and 1960s, **Christina Brandt**, Zentrum fuer Literaturforschung, Germany

Anthropomorphism in Cladograms, Hanno Sandvik, U of Tromsø

Natural Selection in Cosmology, **Zachary Myers**, U of Maryland, USA

SESSION VII

Genes, Genomes, and Genetic Elements II: Evolutionary Implications of New Developments in Molecular Genetics, Organizer and Chair: **Karola Stotz**, U of Pittsburgh, USA

The Evolutionary Significance of Alternative Splicing, **Stephen M. Downes**, U of Utah, USA

"The Gene is Dead, Long Live the Genome," or Isn't It? Raphael Falk, The Hebrew U, Israel

Commentary, Lenny Moss, U of Notre Dame, USA

SESSION VIII

Functions and Teleological Explanation II, Contributed Papers

Function and Accidental Doubles, **Yuichi Amitani** Modules as Mechanisms, **Stefan Linquist**, Duke U, USA Revisiting Bohr and Delbruck, **Daniel J. McKaughan**

SESSION IX

Biology and Ethics/Epistemology I, Contributed Papers Developmental Systems Theory and the Evolution of Morality, Luke Russell, U of Sydney, Australia

Sociobiological Imperialism and the State of Epistemology and Ethics, **Michael Bradie**, Bowling Green State U, USA The Normative Demand in Evolutionary Epistemology,

Paola Hernández Cháves

SESSION X

History, Philosophy, and Social Studies of 18th-19th Century Biology I, Contributed Papers

The Behemoth of the Pampas, Irina Podgorny, CONICET, Argentina and Fernando Ramirez, CNRS, France

The French Death of Species, Mauro Capocci

Science or Poetry: Vernacular Plant Names and Education in Sweden c. 1900, **Jenny Beckman**, Uppsala U, Sweden

The Dutch Debate on the Doctrine of Bacteriology, 1875-1900, **A. de Knecht-van Eekelen**

Knowledge and Innovation in an Agricultural Context: Commercial Plant Breeding in Germany in the Second Half of the 19th Century, **Thomas Weiland**, Munich Centre for the History of Science, Technology, and Medicine, Germany

2-3:30 PM

SESSION I

Biology and Anthropology I, Organizer: Mathias Gutmann

Technique as the Form of Human Action: Humans as Selfdeveloping and Self-conceptualizing Entities, **Mathias Gutmann**, U of Marburg, Germany

Early Hominids as Tool-users, **Christine Hertler**, Goethe U, Germany, and Friedemann Schrenk,, Senckberg Institute, Germany

What is a "Human Being?" **Eva M. Neumann-Held**, U of Marburg, Germany

SESSION II

The Mutual Shaping of Science and Science Education I: Classroom Perspectives and Practices, Organizer: **Steve Fifield**

Eugenics On-line Archive as an Educational Research Tool, Garland E. Allen, Harvard U, USA

ISHKABIBBLE in Teaching "Molecular and Cell Biology," Muriel Lederman, Virginia Tech U, USA

Teaching Climate Change Theory From the Point of View of Biological Education: An Interdisciplinarsy Approach, **Marcia Cristina Espineira Dias**, Cidade Universitária, Rio de Janeiro

Instructor's Practices In, and Attitudes Towards, Teaching Ethics in the Genetics Classroom, **Jinnie Garrett** and **Joan Booth**, Hamilton College, USA

SESSION III

Visual Zoology on Wall Charts, Organizer: **Helmut** Zacharias

Leukart's Zoological Wall Charts Recovered at Pavia U, **Ernesto Capanna**, Roma U La Sapienza, Italy

Contributors from Vienna to Leukart's Zoological Wall Charts, **Helmut Zacharias**, Pavia U, Italy

SESSION IV

Biology, Biotechnology and Policy, Organizer: **David Castle**

Adoption and Governance of Biotechnology in Democracies, **Keith Culver**, U of New Brunswick, Canada

Bioremediation and the Ecology of Fakes, **David Castle**, U of Guelph, Canada

The Object in Risk Assessment, **Bill Hannah**, U of Guelph, Canada

SESSION V

Evolution and Politics I, Organizer: Naomi Beck

Chair and Commentator: **Paul Weindling**, Oxford Brookes U, UK

The Politics of French Evolution Theories, 1790-1810, **Pietro Corsi**, U of Paris, France

The Battle Over Evolution in Germany: Ernst Haeckel's Struggles with the Religious Right and Political Left, Robert J. Richards, U of Chicago, USA

Scientific Socialism: A Case Study in the Diffusion of Spencerism in Late Nineteenth Century Italy, **Naomi Beck**, U of Paris, France, U of Chicago, USA

SESSION VI

Lorenz' Concept of Instinct, Organizer: Richard W. Burkhardt, Jr.

Lorenz on Innate Behavior and Phylogenetic Information, **Derek Browne**, U of Cantebury, New Zealand

Instinct in the '50s, **Paul E. Griffiths**, U of Pittsburgh, USA The Instinct Concept of the Early Konrad Lorenz, **Ingo Brigandt**, U of Pittsburgh, USA

SESSION VII

Life, Metaphysics, and Biosemiotics I: Biology and Metaphysics, Organizer: Naomi Dar

What's Going On: Mapping the Central Issues in the Emergence Debate, **Charbel Nino El-Hani**, Federal U of Bahia, Brazil

Replication and Metabolism: Means to an End? Searching for Another Definition of Life, **Naomi Dar**, The Hebrew U of Jerusalem, Israel

What is Dialectical Biology? **Terence Sullivan**, U of Wisconsin, USA

Emergence, Nonlinearity, and Living Systems: A Metaphysical Lecture from Biology? **Slobodan Perovic**

SESSION VIII

Developmental Regulation I, Organizer: Carl Bumba "Triggering" is the Wrong Metaphor, Jason Scott Robert, Dalhousie U, Canada

"Accommodation" in Evolutionary Developmental Biology, **Julio Tuma**, U of Chicago, USA

The Evolution of Higher Order Developmental Control, Carl Bumba, U of Vienna, Austria

SESSION IX

Fitness, Drift, Evolutionary Theory, Contributed Papers Tautology, Probability and Drift, **Frederic Bouchard**, Duke U, USA

The Real Problem with the Propensity Account of Fitness, **Jessica Pfeifer**, U of Maryland, Baltimore County, USA What Fixes Fitness? **Grant Ramsey**, Duke U, USA

SESSION X

History, Philosophy, and Sociology of 18th-19th Century Biology II, Contributed Papers

The Taxonomist's Regress, **Anna Maerker**, Cornell U, USA Our Protist Ancestors, **Andrew Reynolds**, U College of Cape Breto, Canada

Differentiation in Von Baer, Silvia Caianiello, ISPF, CNR, Italy

4-5:30 PM

SESSION I

Biology and Anthropology II, Organizer: Mathias Gutmann

From Biology to Anthropotechnics, **Jerome Goffette**, U of Claude Bernard, Lyon, France

The Human vs. Animal Distinction as Part of Man's Construction of "Nature": New Perspectives, **Mathias Brochhausen**, Johannes Gutenberg U, Germany

Let's Face Our Expressions, **Michael Bölker**, U of Marburg, Germany

SESSION II

The Mutual Shaping of Science and Science Education II: Historical and Philosophical Studies, Organizer: **Steve Fifield**

Messages Missing From Science Education: Who Does Science Can Make a Difference, **Cecily Cannan Selby**, Independent Scholar, USA

The Gene Concept as an Example of Content in Science and Science Education, **Veronica Flodin**, Stockholm, U, Sweden

"A Skilled and Trained Eye Brain Behind It": Teaching in the Cambridge School of Zoology, **Helen Blackman**, Cambridge U, UK

SESSION III

Exhibiting Humans and Animals, Organizer: **Tatjana Buklijas**

Darwin in the Cage: Changing Perceptions of Primates in the Late nineteenth-century Viennese Menagerie at Schoenbrunn, **Oliver Hochadel**, U of Vienna, Austria

Public Anatomy in Vienna, **Tatjana Buklijas**, Cambridge U. UK

Bodies that Matter: On Popular Displays of Anthropological Knowledge in Vienna Between 1900-1940, **Klaus Taschwer**, U of Vienna, Austria

Commentary, Lynn K. Nyhart, U of Wisconsin, USA

SESSION IV

Digital History of Biology: The Virtual Lab and the Encyclopedia of the History of Biology, Organizer: Manfred Laubichler

A demonstration by: **Janet Browne**; **Richard M. Burian**, Virginia Tech U, USA; **Manfred Laubichler**, Arizona State U, USA; **Ilana Löwy**; **Hans-Jörg Rheinberger**, Max Planck Institute for the History of Science, Germany; **Henning Schmidgen**

SESSION V

Evolution and Politics II, Organizer: **Naomi Beck**, Chair and Commentator: **Paul Weindling**, Oxford Brookes U, UK

The Disputed Political Boundary: William James, Philosophy, and the Evolutionary Science of Man, Francesca Bordogna, Northwestern U, USA

The Politics and Biology of Virtue, **Abigail Lustig**, Dibner Institute, MIT, USA

Human Nature, the Genetic Fallacy and the Politics of Development: Philosophical Anthropology as Critical Theory, **Lenny Moss**, U of Notre Dame, USA

SESSION VI

Philosophy and Ecology, Contributed Papers

Computational Models in Ecology, **Steven Peck**, Brigham Young U, USA

Invasion Biology and its Critics, **Matthew Haber**, U of California, Davis, USA

The Politics of Biodiversity, **Uta Eser**, Fachhochschule Nürtingen, Germany

SESSION VII

Life, Metaphysics, and Biosemiotics II: Biosemiotics, Organizer: Naomi Dar

An Agentive Hypothesis: A Biological Approach to Mind, **Pamela Lyon**, The Australian National U, Australia

Towards a Personalist Biology, **Konstantin S. Khroutski**,, Novgorod State U, Russia

Metaphysics in Physics and Biology, **Guenther Witzany**Panel Discussion: Is Biology More than a Sophisticated
Chemistry? What Does the Metaphysics of Biology Look
Like?

SESSION VIII

Developmental Regulation II, Organizer: **Carl Bumba** Redundancy and the Connectionist Theory of Gene Control Networks, **Roger Sansom**, Texas A&M U, USA

Developmental Modules as Units of Selection? **Gerhard Schlosser**, U of Bremen, Germany

From Molecules to Ecologies: Biology Becomes the Science of Sensing, Luis Emilio Bruni, U of Copenhagen, Denmark

SESSION IX

Science in its Social Context, Contributed Papers

How to be a Successful Fraud, **Roberto de Andrade Martins**, State U of Campinas, Brazil

Baltimore and Feynman: Integrity and Method in Science, **Arthur Zucker**, Ohio U, USA

Sociobiology in the Germane Press: The Media Reception of a Controversial Theory, **Sebastian Linke**

The Uncertain and the Unruly, **Joao Arriscado Nunes**, Center for Social Studies, Portugal

SESSION X

Metascience from a Biological Point of View, Contributed Papers

Mach's Biological Origin, Purpose, and Nature of Science, **Paul Pojman**, Towson U, USA

Charles Lyell's Experimental Historical Science, **Alessandro Pajewski**, U of Chicago, USA

Larry Laudan, Richard Dawkins, and the Solution to Problems in Sociobiology, **Julio Munoz-Rubio**, UNAM, Mexico

Saturday, July 19

9-10:30 AM

SESSION I

Issues in Sociocultural Evolution I, Organizer: Marion Blute and Sigrid Glenn

Units of Interaction in Cultural Selection, **Sigrid S. Glenn**, U of North Texas, USA

The Gap Between Cultural Selection Theory and Sociology, **Agner Fog**

Is Cultural Evolution Lamarckian? Maria E. Kronfeldner, U of Regensburg, Germany

SESSION II

Biology of Human Behavior I, Contributed Papers

An Evolutionary Account of Self Deception, **Bobby Robinson**, Florida State U, USA

Can Evolution Explain Insanity? **Dominic Murphy**, California Institute of Technology, USA

Behaviorism, Ethology, and Evolutionary Biology: Forms of Behaviors and Their Relation to the Biological Sciences, 1950-1960, **Bradley A. Kelley**, Virginia Tech U, USA

SESSION III

Challenging the Essentialist Story about the History of Taxonomy I, Organizer: **Mary P. Winsor**

Iterative Aspects of Systematics, **Sara Scharf**, U of Toronto, Canada

The Functions of Myth: Essentialism as the Foe of 20th Century Evolution Theory, **Ron Amundson**, U of Hawaii, USA

SESSION IV

Indeterminism and Evolution, Organizer and Chair: Frederic Bouchard, Duke U, USA

Individual Fitness as the Source of Probability in the Theory of Natural Selection, **Robert Brandon**, Duke U, USA

Populations, Probability, and Natural Selection, **Roberta L. Millstein**, California State U, Hayward, USA

On the Interpretation of Probability in the Theory of Genetic Drift, **Marcel Weber**, U of Hannover, Germany

SESSION V

European Roots of Evolutionary Psychology, Organizer: Werner Callebaut

Chair and Introduction: **Werner Callebaut**, KLI, Austria and Limburgs Universitair, Belgium

European Roots of Evolutionary Psychology, Franz M. Wuketits, U of Vienna, Austria

Senorimotor Schemes and Conceptual Integration: Piagetian Themes in Fauconnier and Turner's Evolutionary-Psychological Blends, **Marc De Mey**, Ghent U, Belgium

SESSION VI

Biology and Education I, Organizers: **Charbel El-Hani** and **Steve Fifield**

Telling the Truth About Science, Cecily Cannan Selby, Independent Scholar, USA

Socializing our View, **Karen Kastenhofer**, IFF Vienna and U of Vienna, Austria

21st Century Biology General Education, **Cheryl A. Kerfeld**, UCLA, USA

SESSION VII

Trajectories of Drugs, Organizer: **Jean-Paul Gaudilliere** Drugs and Chronic Disease, **Carston Timmerman**, U of Manchester, UK

From "Inner Disinfection" to Antitoxin: Developing the Serum Therapy: 1885-1895, **Volker Hess**, Institute for the History of Medicine, Germany

Penicillin: Chemical/Biological? **Jean-Paul Gaudilleire**, Cermes-Inserm, France

SESSION VIII

Topographies of Knowledge Production in Aquatic Ecology: The German-speaking World, 1870-1940 I, Organizer: **Thomas Potthast**

Topologies of Topology: Spaces of Research, Spirit of Place, and the Classification of Lakes, **Thomas Potthast**, U of Tuebingen, Germany

Swiss Connections in Early Aquatic Ecology: In the Midst of Border Crossings, **Astrid E Schwarz**, Technical U of Darmstad, Germany

Commentary and General Discussion

SESSION IX

William Bateson and the Suppression of Epigenetic Biology, Organizers: **Gerd B. Müller** and **Stuart Newman**

Diminishing Returns: William Bateson's Influence on 20th Century Evolutionary Biology, **R.G.B. Reid**, U of Victoria, Canada

William Bateson's Physicalist Ideas, **Stuart A, Newman**, New York Medical College, USA

William Bateson's Strife with the Vivarium Institute, **Gerd B. Müller**, U of Vienna and KLI, Austria

11-12:30 PM

SESSION I

Issues in Sociocultural Evolution II, Organizers: Marion Blute and Sigrid Glenn

Repeated Assembly, **Linnda R. Caporael**, Rensselaer Polytechnic Institute, USA

Sociality as a Response to the Upper-Limits Problem, **James Phelps**, U of Connecticut, USA

Fitness in Explanations of Economic and Social Evolution, **Thorbjoern Knudsen**, U of Southern Denmark

SESSION II

Biology of Human Behavior II, Contributed Papers

The Politics of Group Versus Individual Differences in Behavioral Genetics, **Lisa Gannett**, California State U, Chico, USA

What are Natural Inequalities? **Tim Lewens**, Cambridge U. UK

Evolutionary Psychology and Behavior Genetics, **Marko Barendregt**, Vrije Universiteit, Amsterdam, The
Netherlands

SESSION III

Challenging the Essentialist Story about the History of Taxonomy II, Organizer: Mary P. Winsor

The Essentialism Story as an Historical Phenomenon, Mary P. Winsor, U of Toronto, Canada

John Ray, Joseph Tournefort and Essences: The 'Species Problem' in the 17th Century, **Susan McMahon**, Max Planck Institute for the History of Science, Germany

Overcoming Essentialism, **Gordon McOuat**, U of King's College, Canada

SESSION IV

Perspectives on Population I, Organizer: Michael R. Dietrich

Rehabilitating a Democratic Eugenics in the Postwar United States: Its Implications for Relations Between Social and Biological Scientists of Human Populations, Edmund Ramsden, Independent Scholar, UK

Whatever Happened to the Unity of the Genotype? **Anya Plutynski**, U of Utah, USA

Theoretical Articulation in Population Ecology: From Spreading the Risk to Metapopulation Dynamics, **Greg Cooper**, Washington and Lee U, USA

SESSION V

Microbial Challenges, Organizer: **Robert I. Krasner** The Sociobiology of Vaccination, **Peter Nicholls**, U of Essex, UK

Interpreting the Plague After Yersin: Germ Theory and the Writing of History, **Richard Keller**, U of Wisconsin, USA

Public Health Advances of the 20th Century in Infectious Disease Control, **Robert I. Krasner**, Providence College, USA

SESSION VI

Biology and Education II, Organizers: **Charbel El-Hani** and **Steve Fifield**

Philosophical Contribution to a Better Clarification of the Conceptual Context and Goals of Environmental Education, **Kostas Korfiatis**, U of Cyprus

Natural History in Russia, 18th-19th Century, **Alexei Kouprianov**, European U at St. Petersburg, Russia

SESSION VII

Bioinformatics and the Transformation of Biomedical Research, Organizers: **Joan Fujimura** and **Bruno Strasser** TENTATIVE

SESSION VIII

Topographies of Knowledge Production in Aquatic Ecology: The German-speaking World, 1870-1940 II, Organizer: **Thomas Potthast**

Exploring the Topography of the Living Sea Floor: The Community Concepts of Karl August Moebius and C.G.J. Petersen, **Kurt Jax**

Marine Ecology in the Natural History Museum, 1890-1925, Lynn K. Nyhart, U of Wisconsin, USA

Commentary and General Discussion

SESSION IX

Biology and Metaphysics I, Contributed Papers Metaphysical and Scientific Trends in the Italian Debate About Theoretical Biology and Life Sciences at the Beginning of the 20th Century, **Massimo Stanzione** Living Matters, **Jeremy Kirby**, Florida State U, USA Muscular Psychophysics Continuum, **Jorge de Barros Pires**, UNOPAR, Brazil

Towards a Post Mechanistic Nature? Biotechnology and the Contemporary Body, **Marko Monteiro**

2-3:30 PM

SESSION I

The Romantic Conception of Life, Organizer: **Phillip Sloan**, Chair: **Manfred Laubichler**, Arizona State U, USA

Romantic Biology and British Life Science: Does Darwin Belong in this World? **Phillip Sloan**, U of Notre Dame, USA

Why Bob Richards is Completely Wrong in Making Darwin into an Ersatz German, **Michael Ruse**, Florida State U, USA

Response to Warranted and Unwarrented Criticisms of "The Romantic Conception of Life," **Robert J. Richards**, U of Chicago, USA

SESSION II

Ecology and Environmental Values, Organizer: **Heather Douglas**

Invasion Ecology: Bates or Elton? **Matt Chew**, Arizona State U, USA

Environmental Protection in a Value-neutral World, Laura Landen, Providence College, USA

Ecology and Other Values in Dutch Nature Conservation, Henny van der Windt, U of Groningen, The Netherlands

SESSION III

Inheritance and Evolution, Organizer: Peter Godfrey-Smith

The Benefits of Infidelity, **Eva Jablonka**, Tel Aviv U, Israel Mechanisms of Heredity and Evolutionary Theory, **Patrick Forber**, Stanford U, USA

Inheritance and Evolution, **Peter Godfrey-Smith**, Stanford U, USA

SESSION IV

Perspectives on Population II, Organizer: Michael R. Dietrich

Looking for a Few Good Males: The History of Sexual Selection, **Erika Milam**, U of Wisconsin, USA

The Measurement of Biological Diversity, **John M. Drake**, U of Notre Dame, USA

The Justification of Balance, **Christian Haak**, Dalhousie U, Canada

SESSION V

Naples as an Evolutionary Niche, Organizer: Christiane Groeben

Catalyzing Science: The SZN as a "Hotel of Science," Christiane Groeben, Stazione Zoologica Anton Dohrn, Italy

The Role of the SZN for the Introduction and Spreading of (Classical) Genetics in Italy, **Alessandro Volpone**, Stazione Zoologica Anton Dohrn, Italy

The SZN as a Special Place for Researchers, **Ariane Dröscher**, Stazione Zoologica Anton Dohrn, Italy

The Neapolitan Biological Research Center, **Fabio De Sio**, Stazione Zoologica Anton Dohrn, Italy

SESSION VI

Beyond Lorenz, Organizer: Richard W. Burkhardt, Jr. "The Father of Ethology and the Foster-Mother of Ducks": Ethology and Parental Behavior, 1950-1970, Marga Vicedo, Harvard U, USA

Ethograms and Epideictic Behavior, **Mark Borello**, Michigan State U, USA

Does Animal Learning Belong to the History of Ethology? A Case Study from France, **Marion Thomas**, U of Manchester, UK

SESSION VII

Sex, Gender, and Immunology, Organizer: **Moira Howes** Gender and Autoimmunity, **Bernice Noble**, The State U of New York at Buffalo, USA

Modeling the Maternal-Fetal Immunological Relationship, Moira Howes, Trent U

Artificial Insemination and Sperm Banks in USA, **Alicia Villela** G., UNAM, Mexico

Is The "Self/Nonself" Model Of The Immune System At Odds with Feminist Epistemic Virtues In The Philosophy Of Science? **Charissa Varma**, KLI, Austria

SESSION VIII

Emergence and Mechanisms in Biochemical Networks, Organizer and Chair: **Robert C. Richardson**, U of Cincinnati, USA

Broad Emergence, **Achim Stephan**, U of Osnabrück, Germany

Emergence In Biochemical Networks: The Role Played of 'Systemic' Properties of Components in Complex Systems, **Frank J. Bruggeman**, Vrije Universiteit, Amsterdam, The Netherlands

Towards a Mechanistic Explanation of the 'Live' State Through a System Biological Approach, Fred C. Boogerd, Vrije Universiteit, Amsterdam, The Netherlands

Commentary, **Marcel Weber**, Universität Hannover, Germany

SESSION IX

Biology and Metaphysics II, Contributed Papers

Colonial Medicine and Semiotics, **Jayanta Bhattacharya**, Independent Scholar, India

Pure Forms in Biology, **N. Milkov**, Bielefeld U, Germany Biology: Unity and Disunity, **Andrew Hamilton**, U of California, San Diego, USA

4-5:30 PM

Evening Plenary: Stephen J. Gould's, "The Structure of Evolutionary Theory," Organizer: Vassiliki Betty Smocovitis

Introduction to the Session: **Lindley Darden**, U of Maryland, USA

Introductory Remarks and Tribute to Gould, Vassiliki Betty Smocovitis, U of Florida, USA

Moderator: **Richard M. Burian**, Virginia Tech U, USA

Panel: **Jean Gayon**, Université de Bourgogne, France; **Elisabeth Lloyd**, Indiana U, USA; **Robert J. Richards**, U of Chicago, USA; **Michael Ruse**, Floridate State U, USA; **Kim Sterelny**, Australian National U, Australia

Sunday, July 20

9-10:30 AM

SESSION I

Darwin, Contributed Papers

Functional in Darwin's Theory of Descent with Modification, Juan Carlos Zamora, UNAM, Mexico

Darwin and Inheritance, Ricardo Noguera and Rosaura Ruiz, UNAM, Mexico

The Vestiges of Creation: The Phrenological Connection to Evolutionary Theory, **Sherrie Lyons**, Empire State College, USA

Progress and Degeneration: Romanes, Lankester, Spencer, Wallace, **Daniel Becquemont**

SESSION II

Biohistory—Neo-Darwinism's Last Frontier, Organizer: Robert S. McElvaine

Is the Sexual Arena A Battlefield or a Marketplace? **Marion Blute**, U of Toronto, Canada

The Evolution and Ecological Variations of Sex Differences, **Bobbi S. Low**, U of Michigan, USA

Sex as the Basis of Biohistory, **Robert S. McElvaine**, Millsaps College, USA

SESSION III

Alternative Evolutionary Theories I, Organizers: **George Levit** and **Uwe Hossfeld**

Some Remarks on Lysenkoism at Jena University, **Uwe Hossfeld** and **Lennart Olsson**, Jena U, Germany

Alternatives to Darwinism in Sweden, **Lennart Olsson**, Jena U, Germany

The Concepts of Directed Evolution, **Igor Popov**, Russian Academy of Sciences, Russia

SESSION IV

Autonomy: A Key Concept I, Organizers: **Alvaro Moreno** and **Kepa Ruiz**

Biological and Cognitive Autonomy as an Interplay Between Population and Individuals, **Bernd Müller** and **Andreas E. Kilian**, Fraunhofer Institute AIS, Germany

Autonomoy in Dynamical Adaptive Systems: Towards a Naturalized and Biologically Inspired Definition of Cognition and Adaptive Behavior, **Xabier Barandiaran**, U of the Basque Country, Spain

Autonomy and Functional Change, **Wayne Christiansen**, KLI, Austria

SESSION V

'Race' in Theories of Human Origins and Diversity, from the 17th Century to the Present, Organizer: **Marianne Sommer**

"Ancient Hunters and Their Modern Representatives": Evolutionary Racism, Imperialism, and War, **Marianne Sommer**, Pennsylvania State U, USA

Black Skin and the Origin of Physical Anthropology, 1640-1850, **Renato G. Mazzolini**, Universitá di Trento, Italy

The Odd History of Human Paleontology, **Jeffrey H. Schwartz**, U of Pittsburgh, USA

Commentary, Claudine Cohen, École des Hautes Études en Sciences Sociales, France

SESSION VI

Science and Policy: International Perspectives I, Contributed Papers

Brazilian Biotech and IPR, **Marilia Coutinho**, U of São Paulo, Brazil

Urban Ecology in Action: The Baltimore Rat-Control Program, 1942-1945, **Christine Keiner**, Rochester Institute of Technology, USA

Biomedical Research in the USSR, **Oxana Klimkova**, Central European U, Hungary

SESSION VII

Dimensions of Genomics, Organizer: Jane Calvert

Sequencing Human Genomes, **Adam Bostanci**, U of Exeter, UK Negotiating and Interpreting the Science/Technology Boundary in Genomics, **Jane Calvert**, U of Exeter, UK

Genomics and International Agricultural Research: A Dialogue of the Deaf? **David Reece**, U of Exeter, UK

Claims to Knowledge in Behavioural Genetics: The Problem of Mapping the Field, **Richard Holdsworth**, U of Exeter, UK

SESSION VIII

Biology and Meaning I, Contributed Papers

Semiogenic Scaffolding in Living Agents, **Jesper Hoffmeyer**, U of Copenhagen, Denmark

Where Does Pattee's "How Does a Molecule Become a Message?" Belong in the History of Biosemiotics? **Jon Umerez**, U of the Basque Country, Spain

Biolinguistics and the Causal Theory of Reference, **Wolfram Hinzen**, U of Regensburg, Germany

SESSION IX

Biological Hierarchies I, Contributed Papers

Evolutionary Processes Among Replicators, Interactors, and Transactors, **Donato Bergandi**, Florida State U, USA

Is Replication a Philosophical Interesting Concept? **Bence Nanay**, U of California, Berkeley, USA

Does the Theory of Cultural Evolution Need the Replicator-Interactor Distinction? **Jean Lachapelle**, Champlain Regional College, Canada, **Luc Faucher**, U of Quebec, Canada, and **Pierre Poirier**, U of Quebec, Canada

11-12:30 PM

SESSION I

Boundaries in Biomedicine, Organizer: **Paula Saukko** Troubling Risk. **Paula Saako**, U of Exeter, UK Facts and Values, **Christine Haukseller**, U of Exeter, UK Changing Diseases, **Sara Melendro-Oliver**, U of Exeter, UK

SESSION II

Scientific Change from a Biological Point of View, Contributed Papers

The İmpact of the Debate about the Interpretation of Quantum Mechanics on the Problem of Science as Revolutionary of Evolutionary, **Sheldon Richmond**, http://askthephilosopher.cjb.net, Canada

An Evolutionary Analysis of Scientific Change: The Case of Genomics, **Maureen O'Malley**, Dalhousie U, Canada Evolution and the Historical Sciences, **Aviezer Tucker**

SESSION III

Alternative Evolutionary Theories II, Organizers: **George Levit** and **Uwe Hossfeld**

"The Nomogenesis," George Levit, Jena U, Germany

Engineering Morphology for the Evolutionary Theory, **Michael Gudo**, Frankfurt U, Germany

Bryozoan Individuals and Bryozoan Individualization, **Joachim Scholz**, Research Institute Senckenberg, Germany, George Levit, Jena U, Germany

SESSION IV

Autonomy: A Key Concept II, Organizers: **Alvaro Moreno** and **Kepa Ruiz**

Chemical Autonomy and Stoichiometric Freedom: Toward a General Theory of Genetic Information, **James Griesemer**, U of California, Davis, USA

Steps Towards Life: A Perspective on Basic Autonomy, **Kepa Ruiz-Mirazo**

Autonomy and Information: Two Fundamental Principles in Biological Organization, **Alvaro Moreno**, U of the Basque Country, Spain

SESSION V

Is There a Kantian Tradition in Biology? Organizer: **Phillippe Huneman**

Functions' Succession and Classification in *Naturphilosophie*, **Stéphane Schmitt**, CNRS, France

Caspar Friedrich Wolff's *De Formatione Intestinorum*, 1768-1769, or the Beginnings of Modern Embryology, **Jean-Claude Dupont**, CNRS, France

Naturalizing Purpose: From Comparative Anatomy to the Adventures of Reason, Phillippe Huneman, CNRS, France

SESSION VI

Science and Policy: International Perspectives II, Contributed Papers

Postwar Conservation Management in British East and Central Africa: A Tale of Science, Law, Capitalism, and Development, Patricia A. Bunner, West Virginia U, USA

Early Wadden Sea Research in Germany: Application-oriented Biologists Lost Contact to New Theoretical Approaches in Marine Ecology, **Hauke Bietz**

Where Rivers Fail to Fulfill Their "Natural Functions," Susie Fisher, The Open U of Israel

SESSION VII

Between Gender, Politics, and Biology, Contributed Papers Feminist Politics Improving Biology: Where is the Objectivity? Carla Fehr, Iowa State U, USA

The Thwarting of a Promising Project: A Joint Laboratory Between the Institute for Radiobiology and the Vivarium in Vienna, **Maria Rentetzi**, Virginia Tech U, USA

'Fitra' (Created Nature): Premodern Concepts of Gender Biology in Current Popular Islam, **Amy Bix** and **Tander Edis**, Iowa State U, USA

From Thelyplasm to Theology: The Biological Basis of Weininger's Sexology and Its Reception in Russia, **Joanna Trzeciak**, U of Chicago, USA

SESSION VIII

Biology and Meaning II, Contributed Papers

The Semiotic Dynamics of Societies, **Edwina Taborsky**, Bishop's U and U of Toronto, Canada

Memetics, Memecology, and Memevolution, **Kastytis Beitas**, Vilnius U, Lithuania

The Genetic Nature of Culture, Adolf Heschl, KLI, Austria

SESSION IX

Biological Hierarchies II, Contributed Papers

On the Compatibility of Neo-Clementsian and Neo-Gleasonian Approaches to Ecological Succession, **Kevin de Laplante**, Iowa State U, USA

Synchronic and Diachronic Hierarchies of Entities in Living Systems, **Toshiyuki Nakajima**, Ehime U, Japan

Group Selection in a Changing Selective Environment, **Alex Dajkovic**, U of Kansas, USA

Gene Expression and Phylogenetic Inference, **Sohrab Aghabozorgy**, Institute of Molecular Biology, Iran

2004 ISHPSSB Workshops: Call for Proposals

The International Society for the History, Philosophy, and Social Studies of Biology (ISHPSSB) will authorize workshops in even-numbered years (the off-years for the Society's regular biennial meetings), on an ad hoc basis, with a clear application and approval process available on request from Off Year Workshop Committee Chair Chris Young or on the Society webpage. These workshops must be thematic in nature, which will distinguish them from the regular ISHPSSB meetings. They must be interdisciplinary, and meet all the requirements of Society meetings concerning accessibility.

All members must be eligible to attend, although the selection process for speakers can be determined by

clearly indicated processes that differ from those employed in ISHPSSB meetings. The Society will not provide funding or other substantive assistance in preparing the program, but the Society will provide a copy of the Society's mailing list of members and publicity about the meeting through the appropriate Society resources (e.g., email list, Web page).

The Society expects such meetings to rotate geographically, insofar as there are multiple proposals.

Deadline for submission of proposals for 2004 ISHPSSB Workshops: October 10, 2003.

Contact: Chris Young (see page 24 of this Newsletter).

Local Arrangements Chairs Request Additional Information

The meeting will be hosted by *Werner Callebaut* and *Gerd Müller*, who are the scientific manager and the chair of the Board of the *Konrad Lorenz Institute for Evolution and Cognition Research* (KLI).

Astrid Juette, the executive manager of the KLI, is responsible for local arrangements (and this information page). She can be contacted at the KLI: astrid.juette@kli.ac.at

KLI, Adolf Lorenz Gasse 2, A-3422 Altenberg, AUSTRIA Tel.: +43-2242-32390 Fax: +43-2242-323904

Local Transportation Fees

Arrangements are being made for a pre-paid transportation pass (available for purchase at the meeting) for transportation throughout Vienna. At the present time, the proposed rate is \$12.50, but the price may change by the meeting date due to fluctuations in the value of the dollar and/or euro. Please indicate (no payment or obligation is involved) if you are interested in purchasing this reduced fare for local transportation at the meeting.

€ I am interested in purchasing this reduced fare for local transportation

Post-ConferenceTours

Depending on the interest in the different locations, trips to fascinating and topic-related places nearby Vienna will be arranged. So far there are three options. Registration and payment for the tours should be made at the registration desk on-site (in Euro). Costs will also depend on the number of participants.

Konrad Lorenz Research Station Grünau. The Konrad Lorenz Research Station, located in a picturesque valley in Upper Austria, still harbors the descendants of Lorenz´ flock of greylag geese. Expect a beautiful landscape, lively history of science, and modern ethological research on a number of fascinating animal species. A two-days trip (Sunday and Monday). Costs will include the bus and one night's stay at a local hotel.

Gregor Mendel Museum in Brno, Czech Republic. Gregor Mendel conducted his experiments in the Augustinian monastery's garden in Brno, where the Mendel Museum of Genetics is located today. A one-day trip, either on Sunday or on Tuesday (the museum is closed on Mondays). There are certain **Visa requirements** that you may want to check online. Costs include the bus and the admission charge for the museum.

Konrad Lorenz Institute for Evolution and Cognition Research (KLI). The KLI is located in Konrad Lorenz's fascinating turn-of-the-century family mansion in Greifenstein near the River Danube and only half an hour North-West of Vienna. A half-day trip on Sunday afternoon. Costs will include the bus.

Tour preference:

Lindley Darden, *President*Department of Philosophy
University of Maryland, College Park
College Park, MD 20742 USA
(301) 405-5699
darden@carnap.umd.edu

Michael Dietrich, *President-Elect* Department of Biological Sciences Dartmouth College Hanover, NH 03755 USA (603) 646-1389 michael.dietrich@dartmouth.edu

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