

NOTES FROM THE DIRECTOR



Jim Lennox

The completion of my second (and final!) term as Center Director rapidly approaches. During that second term I worked closely with two of our former Visiting Fellows to forge Agreements of Cooperation between their Universities and the University of Pittsburgh. As I have previously reported, these formal agreements have now been signed with the Università di Catania in Sicily and the Universidad de A Coruña in Spain, thanks in no small measure to the hard work of former Fellows Giovanni Camardi and Wenceslao Gonzalez respectively. This past spring saw conferences commemorating these agreements: A conference organized by Professor Gonzalez on current approaches to Evolution on the Ferrol campus of Universidad de A Coruña, March 10-11; and one organized by Professor Camardi on the concept of function in biology and language at the Università di Catania, May 20-

22. It was a great pleasure for me to be involved in both.

During my eight years as Center Director I have had the great pleasure of working with Gereon Wolters of Konstanz and Peter Machamer of Pittsburgh (and their committees) on four Pittsburgh-Konstanz Colloquia. May 26-30, 2005 was our seventh, held in Konstanz, as is fitting, given that one of the architects of this warm, multi-faceted cooperative venture, Jürgen Mittelstrass, retires this year. For the first time the event was staged in the historic heart of Konstanz, in the city's Cultural Center. Every aspect of the conference, from the quality of the papers and discussion through the wonderful cruise down to Stein am Rhein, was a true pleasure. It came as a total surprise to me that Gereon Wolters had planned the conference banquet, at a superb restaurant in the countryside near Konstanz, in my honor. The menu was entitled "Jim Lennox's Last PK Supper," and on the back, around the words "Thank You Jim," all those in attendance signed their names, including Galileo Galilei, who apparently had taken Paolo Palmieri's place at dinner! This is a keepsake that I will always cherish. More details about the Seventh Pittsburgh-Konstanz Colloquium can be found on p. 18.

During the past year the Center staff has been very busy. One event, which the Center co-sponsored, held special meaning for me. Robert Bolton (of

Rutgers University) and I joined forces to organize a conference October 1-3 celebrating the contributions of our dear friend Allan Gotthelf to the understanding of the philosophy and science of classical Greece. The program and pictures of the event can be found on the Center's web site among the Archived Events. Allan is currently Visiting Professor of History and Philosophy of Science thanks to a fellowship provided by the Anthem Foundation for the Study of Objectivism.

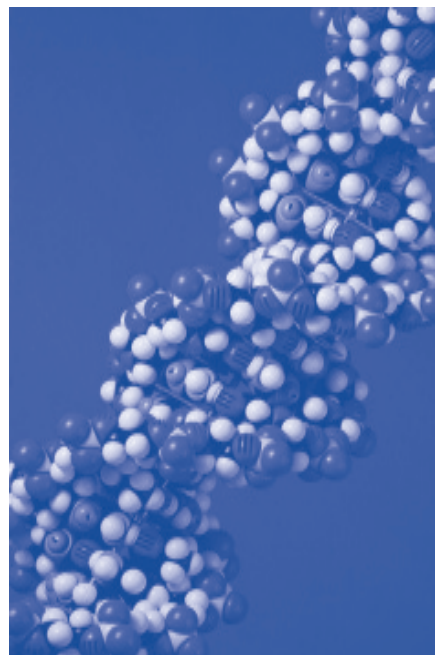
October 12-14 we once again co-sponsored the Nagel Lectures, organized every two years by the Philosophy Department of Carnegie Mellon University. This year Professor Terrance Sejnowski, director of the Computational Neurobiology Laboratory at the Salk Institute for Biological Studies in San Diego, presented three lectures on recent developments in the neurosciences, drawing out implications from these developments for the concept of 'self.' As always, the Center was honored to be involved in sponsoring this event. Capping off the month, October 29-30 we helped John Earman host a workshop at which some of the world's leading philosophers of physics gathered to discuss their contributions to a forthcoming volume on the foundations of quantum mechanics.

Sometime during the summer, I began receiving emails from two former Fellows, George Gale and Fred Kronz, floating the idea of a Former Center

BULLETIN

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Fellows Reunion Dinner at the Philosophy of Science Association meetings in November in Austin, Texas. I immediately liked the idea and Fred agreed to take on the role of local organizer. Virtually every Fellow in attendance at the meetings came to the dinner, at Carmelo's Ristorante Italiano—over 30 in attendance! I have urged upon my successor, the esteemed Einstein Scholar and all around bon vivant John Norton, that this should be a tradition, and thus we need a local host for 2006 in Vancouver. Alas, we have no former Fellows in Vancouver, but rumor has it Keith Benson is willing to become an honorary former Fellow for the weekend!

On February 12th, Pittsburgh became one of the first of many places to host a centenary celebration of Einstein's three ground-breaking 1905 papers that, with hindsight, set the agenda for much of 20th century physics. John Norton and the stellar team of philosophers of physics at the University of Pittsburgh worked with the Center staff to put together a wonderful one-day workshop devoted to Einstein's *annus mirabilis*. The program can be viewed on our web site at: www.pitt.edu/~pittcentr/Events/Upcoming_Special_Events/Einstein. A brief report of the day's events can be found on page 16.

While I was in Spain giving two lectures on thought experiments in evolutionary biology as part of our cooperation with Universidad de A Coruña, the Center was helping Center Co-

chair Nicholas Rescher host, as Society President, the annual meeting of the Metaphysical Society of America (March 11-13)—appropriately on the theme of metaphysics and science. The program for this event may be viewed on page 17. And looking forward, the program committee for the next Athens-Pittsburgh Symposium is already moving ahead with plans to host a conference in June of 2006 on the topic of Atomism in—where else?—the city of Abdera, Democritus' home town.

Pittsburgh-Konstanz VII was the last official Center event of my 8 years as Center Director. On August 31, I will walk out the doors of 817 Cathedral of Learning to begin a year of research leave. On September 1, John Earman will walk in as Interim Director for the remainder of 2005. And on January 1, 2006, John Norton will begin his first term as Director of the Center for Philosophy of Science. It gives me very great pleasure to know that the institution that means so much to me will be in such good hands.



MISSION OF THE CENTER

The Center for Philosophy of Science exists to promote scholarship and research, to encourage scholarly exchanges, and to foster publications in the philosophy of science as well as in philosophically informed history of science and related fields. The Center is dedicated to bridging the gulf between the sciences and the humanities, and to helping to develop and disseminate a philosophical understanding and appreciation of the sciences. The Center pursues its mission not only locally and regionally, but also nationally and internationally.

Like other centers at the University of Pittsburgh, the Center for Philosophy of Science is a unit for research rather than teaching. Nevertheless, through its many undertakings and initiatives, the Center substantially enriches the graduate programs in the Department of History and Philosophy of Science and in the Department of Philosophy. Some of these Center activities also enrich the undergraduate programs of the University.

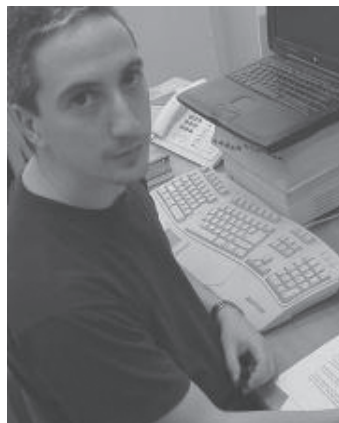
2004–2005 VISITING FELLOWS AND SCHOLARS



Radu Dudau

Radu Dudau (PhD, Konstanz, 2002) is lecturer in philosophy at Al. I. Cuza University of Iasi (Romania). He works on philosophy of science and philosophy of language. While visiting the Center from September 2004 to February 2005 as a Fulbright scholar, his research topic was the ontology of social entities - that is, of things and facts depending for their existence on human collective intentionality. Those results are central to a broader research theme he is currently engaged in: naturalizing culture. He hopes to provide fairly soon the whole picture in a book currently in progress.

Radu was very impressed with Pittsburgh's musical scene. He enjoyed excellent jazz and rock. On Pittsburgh's South Side he discovered math rock – ask for Don Caballero if you're intrigued – probably a contamination of the local arts with the Center's rigor.



Jason Grossman

Jason Grossman specializes in contemporary scientific methodology, concentrating on two related areas: philosophy of statistics, and the meanings and uses of evidence in health policy. He is also interested in other aspects of philosophy of mathematics, philosophy of science more generally, and epistemology. In the future he intends to become more interested in philosophy of physics and history of philosophy.

Jason is also active in politics and music, two of the only areas in which it is even more difficult to make a career than in philosophy.

Jason is a qualified member of the Yorkshire Association of Change Ringers (lapsed).



Pawel Kawalec

Having identified the pitfalls of Carnap's immense attempt at a formal construction of epistemology of science in his book *Structural Reliabilism*, Pawel Kawalec is now focused on the nature of causal discovery and modeling. A close study of paradigmatic cases of actual causal discovery in nonexperimental research (esp. the causes of cholera in the 19th c. and smoking as a cause of lung cancer around the first half of the 20th) led him to elaborate procedural criteria which constrain kinds of data supporting causal conclusions. In the monograph *Modeling Causality*—the writing of which consumed most of his academic year while visiting the Center – Pawel subsumes all causal models prevailing in non-experimental research under the procedural criteria, which leads to a new model of explanation tailored for the social sciences. While in Pittsburgh he has combined this interest with family explorations of the Pennsylvania railway system and Native American trails. When his book gets published he will recall the wit and decency of persons met here in occasional aquarelles.



Dominic Murphy

Dominic Murphy is an assistant professor of philosophy at the California Institute of Technology, before which he was a postdoctoral fellow in the Philosophy-Neuroscience-Psychology program at Washington University, St. Louis. His work concentrates on the fallout from collisions between our unscientific understanding of human nature and the various biological, cognitive, and social sciences. He is the author of *Psychiatry in the Scientific Image* (MIT Press 2005), which bemoans the conceptual underpinnings of contemporary psychiatry and argues for a theory of psychiatric explanation borrowed from the cognitive neurosciences. While at the Center, he began a new project which aims to critique philosophical theories of introspection in the light of theories of introspection which actually have some facts in them. Dominic is married to an Egyptologist, has one small child, and enjoys living in Southern California because he likes being able to look at ugly buildings, sit in traffic jams, and complain about the heat all at the same time.

Text and photo unavailable for Visiting Fellow, Jos Uffink.



Laura Perini

Laura Perini's research focuses on scientific images, like diagrams, graphs, and electron micrographs. These visual representations seem to play distinctively epistemic roles in scientific reasoning, such as providing evidential support or conveying explanatory content. Her goal is to clarify what they contribute to scientific reasoning and explain how they do so.

While she was at the Center she focused on a particular kind of image: naturalistic, highly detailed pictures made from image-making techniques like electron microscopy. Her aim was to explain how they function as evidence; this resulted in a paper now under review. She also started a new project, instigated by discussions at the Center: a study of abstraction in biological images.

Laura's stay at the Center was especially productive. She got engaged while she was here and capped off the semester with a trip to Hawaii to get married!



Tomasz Placek

While a visitor at the Center, Tomasz worked on Nuel Belnap's theory of branching space-times; in particular, he used this theory to analyze some quantum phenomena, like EPR correlations and quantum interference. He also learned the theory of consistent quantum histories from Robert Griffiths at CMU.

He came to Pittsburgh with his wife Katarzyna, also a philosopher, who was affiliated with the Department of Philosophy. Their two daughters, Aleksandra (14) and Alicja (3) were also in Pittsburgh. The older attended Frick International Academy, where she was on the volleyball team, whereas the younger collected rich experiences (and learned English) at a local child care. In their spare time, the four traveled extensively.

Tomasz is the author of *Intuitionism and Intersubjectivity*, which is a result of his earlier interest in philosophy of mathematics, and especially Dutch intuitionism. He has also written *Is Nature Deterministic? A Branching Perspective on EPR Phenomena*. Tomasz's visit to Pittsburgh was partly sponsored by the Fulbright Program.



Oron Shagrir

Oron Shagrir teaches philosophy and chairs the Cognitive Science department at the Hebrew University, Jerusalem. His education includes B.Sc. in math and computer science and MA in philosophy of science, both from the Hebrew University. He took his PhD in philosophy and cognitive science at University of California, San Diego. His professional interests are history and philosophy of computing and philosophy of mind/cognitive science. He has published in *Mind*, *Philosophy and Phenomenological Research*, *Philosophical Studies*, *The Monist*, *Synthese*, *Minds and Machines*; and more. He used to play for the Hebrew University basketball team, and he currently swims, works out, and plays basketball for fun with his two teen boys.



Daniel Steel

Dan's interests revolve around problems of causal inference and inductive inference generally, with a special focus on the social sciences and, to a lesser extent, biology. While at the Center in spring 2005, he completed the first draft of a book manuscript titled, *Causality and Heterogeneity: Extrapolation in Biology and Social Science*. The book deals with the challenge of extrapolating causal conclusions from one population to another when (as is typically the case in biology and social science) the populations in question are heterogeneous with regard to factors that matter to the causal relationship. He examines the underlying premises and potential scope of the proposal that knowledge of mechanisms and things capable of interfering with them facilitate such extrapolations, and explores the implications of these issues for more familiar topics in philosophy of biology and social science.

When not thinking about philosophy, Dan enjoys running, playing guitar, baking muffins, reading novels in French, and hiking in the Canadian Rockies with his life-partner Megan Delehanty.



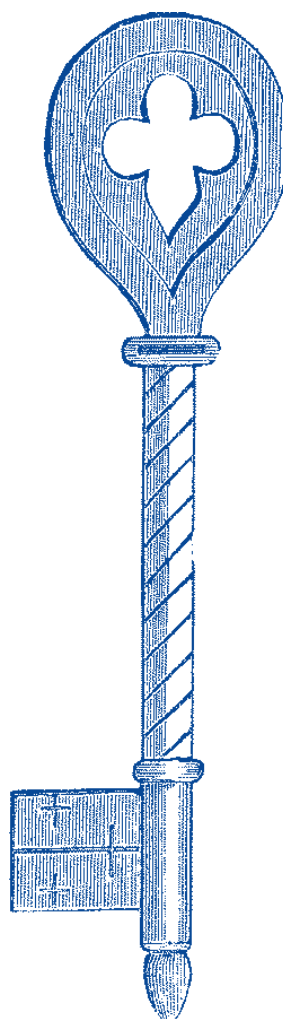
Martin Thomson-Jones

Martin has two main research projects underway. The first is concerned with a variety of metaphysical questions which arise in connection with the interpretation of quantum theory - questions about part-whole relations, dispositions, properties, causation, the identity and individuation of physical objects, and indeterminacy. The second brings together a critique of the semantic view of theory structure, an attempt to clarify philosophical talk about models, and an exploration of some questions about idealization. Martin got his PhD at Stanford University, and was an Assistant Professor at Princeton University and U.C. Berkeley before arriving at Oberlin College, where he is currently Associate Professor and Chair of the Philosophy Department. He used to be Martin Jones, until, in the summer of 2004, he married Kate Thomson, an aesthetician, in a heavy-handed attempt to bring Snow's two cultures together. When not doing philosophy or watching movies, he enjoys playing the Gibson SG. Kate got him for his birthday (which, by a remarkable piece of good fortune, comes with headphones).



António Zilhão

António Zilhão is Professor of Logic and Philosophy at the University of Lisbon in Portugal. He earned his PhD degree at King's College London. He has published on different topics, including logic, Frege's conception of number, the nature of language and thought, decision theory and folk-psychology, radical translation and radical interpretation, the Vienna Circle and Wittgenstein. He is currently pursuing another of his interests, namely, the study of rationality assumptions underlying different models of action explanation. In the course of this study, he became interested in fast and frugal heuristics and adaptive toolboxes. He has been attempting to provide an account of the so-called 'problem of weakness of the will' within this framework. At the same time, he is also working on ways to reconcile the concept of scientific explanation with actual psychological explanation. Outside of philosophy, he has been raising a family and playing soccer every Saturday morning for the last 15 years. He also enjoys driving out of town and finding nice places for walking, swimming, and eating.



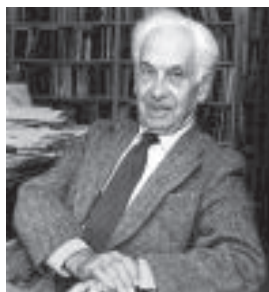
Visiting Fellows Fund

We are deeply grateful and pleased to acknowledge the following people who have contributed to the Visiting Fellows Fund in the past year. Each dollar of each donation goes directly toward supporting the Visiting Fellows Program to ensure its continued growth and stability. Support of the Center's programs by members of its Fellowship is essential to maintaining the Center's position as a preeminent nexus of research in issues in the philosophy of science.

- John Forge
- James and Patricia Lennox
- Peter Michael
- Robert Olby
- Warren Schmaus

This year's pledge card is enclosed in the Bulletin along with a return envelope. All donations are tax deductible. Any donor wishing to remain anonymous may so indicate on their pledge. To those of you who have donated, not only this year but in years past, we wish to express our profound appreciation for your generosity and support.

IN MEMORIAM: ERNST MAYR, 1904–2005



In 1993 Gereon Wolters and I were asked by then Center Director Gerald Massey to co-chair the program committee for the second Pittsburgh-Konstanz Colloquium, which was to be on the philosophy of biology. Among the attendees was a spry and feisty 88 year old named Ernst Mayr. This icon of evolutionary biology and prolific contributor to the historical and philosophical foundations of his subject was there for a special reason. The Center had decided to appoint Mayr as its second Fellow Honoris Causa (Carl Hempel was our first). It was not hard to imagine, as I watched him in animated debate with speaker after speaker, that he would still be writing me hand-written notes on philosophical topics a decade later. Alas, I will not be receiving any more of those precious letters, for Ernst Mayr died, aged 100, on February 3, 2005. He will be greatly missed.

Ernst Walter Mayr was born on July 5, 1904 at Kepten, Bavaria. Under the influence of his father he became a passionate bird-watcher, a passion he continued to pursue during medical school. As a result, in 1923 he was summoned to Berlin to report on his sighting of a rare

species of bird to Professor Erwin Stresemann, an ornithologist and curator of the city's Natural History Museum. Under Stresemann's influence Mayr soon abandoned medicine and in less than two years had earned a Ph.D. in ornithology. In 1927-28 he did extensive field studies in New Guinea and the Solomon Islands, the latter for the American Museum of Natural History, and in 1931 Mayr joined the Museum as a research associate in ornithology. He became an American citizen in 1932. In 1935 he married Margarete Simon, who died in 1990.

Interpreting the results of his research in the Pacific placed him in the center of debates over the mechanisms of speciation and the concept of species, where he remained for the rest of his life. Along with paleontologist George G. Simpson and geneticist Theodosius Dobzhansky, Ernst Mayr emerged as one of the central figures in forging the so-called 'evolutionary' or 'neo-Darwinian synthesis': the integration of developments in genetics, systematics, paleontology, and the theory of evolution by natural selection. The first edition of Mayr's contribution to this synthesis, *Systematics and the Origin of Species*, was recently republished in the 'Columbia Classics in Evolution' series with an introduction discussing its historical importance. In 1946 he helped found the Society for the Study of Evolution and was founding editor of the society's journal, *Evolution*.

In 1953, he moved from curator to professor at Harvard University, where he was Alexander Agassiz Professor of Zoology until 1975 and director of the Museum of Comparative Zoology from 1961 to 1970. With the move to Harvard he began to make important contributions to the history and philosophy of biology. As one of modern evolutionary biology's founders, Mayr invented or redefined key concepts in biology in order to give the 'new synthesis' conceptual consistency and to reflect its new understanding of populations and evolutionary processes--the 'biological species concept,' the 'founder effect,' and many others. And though many of the founders of modern evolutionary theory were philosophical in one sense or another, Ernst Mayr became the philosophical spokesman for the synthesis, and over the last fifty years has been as potent a force in the history and philosophy of biology as he has in evolutionary biology itself. His contributions include new analyses of teleology, biological causation, and the species concept, to select a few at random. A glance through a collection of his philosophically oriented papers, "Toward a New Philosophy of Biology" (1989) will give one a sense of the breadth and depth of his philosophical talent. A staunch opponent of reductionism and defender of the role of the field naturalist in evolutionary studies, he spoke out against a gene-centered vision of selection. His last book, *What Makes Biology Unique?*, published a

month after his 100th birthday, is largely a philosophical defense of biology's autonomy. At the time of his death, he was said to be preparing an attack on the creationist doctrine of "intelligent design."

Equally influential was his work in the history of biology, through countless articles that reflect original historical inquiry, and through his monumental "The Growth of Biological Thought" (Harvard 1982). It is not surprising, therefore, that when Harvard decided to reprint the first edition of Charles Darwin's *On the Origin of Species*, it was Ernst Mayr who was asked to write an historical introduction for it.

Mayr received numerous honors for his work, including the Balzan Prize (1983), the International Prize for Biology (1994), the Crafoord Prize of the Royal Swedish Academy of Sciences (1999), and the Royal Society's Darwin Medal (1984). He is survived by two daughters, Christa Menzel and Susanne Harrison, five grandchildren, and ten great-grandchildren.

It was a great pleasure and honor to have known him and to have helped in the process of making him an honorary Fellow of the Center for Philosophy of Science. We will miss him.

VISITING FELLOW PROFILE: ANJAN CHAKRAVARTTY

Project: Foundations of Scientific Realism: Structuralism, Causation, Laws, and Kinds



It somehow seems appropriate that my last Profile of a Visiting Fellow concerns a young man who was, as I was much earlier, born and raised in Southern Ontario. Anjan Chakravartty was born a year after his parents moved from Assam, India to Peterborough, Ontario, Canada. (When I was growing up in Toronto in the 1950s, I thought of Peterborough as the last outpost of civilization before entering a vast wilderness of lakes and forests filled with cabins, canoes, and largemouth bass.) Genes and environment conspired to insure that Anjan developed an abiding curiosity about puzzling questions. “My father was a professor of mathematics and my mother worked in early childhood education,” he explained. “Needless to say, strange facts about number theory played a formative role in my early days!” Though his parents had both grown up in India, Anjan describes his up-

bringing as “very liberal,” so that he grew up thinking of himself as Canadian. He now teaches philosophy at the University of Toronto.

Though born in Canada and raised as a Canadian, he has not turned his back on the sub-continent. During his college years he spent two years in Calcutta as part of a medical relief operation for the urban destitute and rural poor. “This,” he explained, “gradually evolved into a more general project, encompassing schools to help reintegrate children from slum areas into the formal education system, vocational training programs, and the training of local health workers.” He has remained involved in these projects to this day.

Because it is an unfamiliar and somewhat esoteric field, I am always curious about how people ended up pursuing the philosophy of science as a ca-

reer. Anjan's answer was simple: “I have a hard time giving things up.” Throughout high school and his undergraduate years he looked for ways to avoid choosing between the humanities and the sciences, both of which he loved. While majoring in biophysics, a hybrid field combining physics, chemistry, and biology, he was simultaneously quietly pursuing a major in philosophy. “In various of my science classes,” he explained,

“I found myself most fascinated by foundational questions. Why did the laboratory experiments we performed rarely yield the results predicted by the theories we were taught? Are these theories all equally believable?” Philosophers of science, he discovered, actually spend their lives thinking about things like this. “I realized that being a philosopher of science would allow me to integrate and pursue my previously separate interests, and the rest, as they say, is history.” After obtaining an MA in philosophy, he enrolled in Cambridge University's renowned Department of History and Philosophy of Science, from which in due course he earned an MPhil and PhD.

And now that he finds himself back in his native Southern Ontario being paid not to make a choice between science and humanities, what, exactly, is he doing? He continues to worry about our grounds for believing

in those scientific theories we are all taught in high school and college. “People rarely question the widespread assumption that the sciences are our best means of investigating the nature of the world, and that they typically succeed, yielding descriptions of the world that ever more closely resemble the way the world is. They take it on faith that the sciences offer us an increasingly accurate glimpse into the hidden world of particles and forces, genes and development, quasars and black holes--and the powerful and transformative effects of technologies linked to these sciences only serve to reinforce this intuition.”

Though Chakravartty finds this picture of science worthy of defense, he points out that those who treat the assumptions upon which it rests as articles of faith are highly vulnerable to serious sceptical arguments that undermine it. “I've been delighted to find that, although most people have never thought to worry about such questions, they are immediately fascinated once confronted with them.” One of the most powerful sceptical arguments rests on the historical observation that the sciences are constantly changing. “Our scientific past contains an impressive graveyard of theories. The greatest scientific minds of the day claimed to have discovered entities and processes that no one believes in any longer.” Should this not make us sceptics about the claims of our current sciences? Will they not reside in the same graveyard in

Continued on page 23

IN MEMORIAM: EDUARDO H. FLICHMAN



Those of you who attended the International Fellows Conference in San Carlos de Bariloche in 2000 were able to get to know Eduardo Flichman, who with Victor Rodriguez and Oscar Nudler, worked so hard to organize that event, the Center's first south of the Equator. Less than two years ago Eduardo was diagnosed with cancer, and sadly he died on June 13, 2005. Eduardo was a gentle man of warmth and quiet dignity, and we at the Center for Philosophy of Science remember him with deep affection. The following remembrance was composed by Professors Hernán Miguel and Horacio Abeledo, longtime friends and colleagues of Eduardo Flichman's. We are reprinting it in his honor.

The loss of a friend is one of the greatest pains that can affect our spirits. A part of us leaves with him. Last June 13 we suffered the death of Eduardo H. Flichman: the

grief is even deeper since he was not only our friend, but also our guide and our master. We shall miss his advice and his unselfish sharing of every success and every failure along our paths.

For over a year he had known about his illness, but kept working with enviable energy, without altering his pace. His wishes in the face of adversity were to go on living as he had always lived: studying, directing his group, researching, writing, attending congresses. This decision did not ensue from a denial of the finitude of life but was rather the result of wisdom applied even in the harshest of conditions. Free will (one of his pet research subjects of recent years, but present in his meditations long before, even when he started studying physics as a first conscious step on his way to become a philosopher of science) prevailed over the paralysis which could have followed despair.

In the 1960's Eduardo found in the Facultad de Ciencias Exactas y Naturales of the Buenos Aires University a fertile ground for developing his irrepresible teaching vocation. With the team of teachers he

formed and coached he devised teaching strategies and technologies that were revolutionary at the time. Important physicists still recall the feat. The irruption of de facto regimes in that and the following decade brought about for the University the loss of many valuable teachers and researchers; among them was Eduardo Flichman. With the return of democracy in the 80's the University was reorganized and Eduardo organized again the introductory courses for the Facultad, and then, in 1985, the Department of Mathematics and Natural Sciences in the newly created Ciclo Básico Común of the University of Buenos Aires (the first year of studies for all students of the University).

In 1987 a few physicists, biologists and historians asked him to teach and direct a study group on themes of philosophy of science. That group was the seed of the research group that was formed in 1990s, with the continuous addition of new members.

Eduardo's interest in research work did not diminish his commitment to the instruction of teachers. For that reason he formed in several universities of Argentina, from southernmost Patagonia to the Northwest, teaching teams capable of doing research, developing teaching techniques and coaching new teachers. He understood always that a teacher's role is developing new teachers. And he made of this selfless integration to the continu-

ity of teaching cycles, his life philosophy.

In 1995-96 he was Fellow at the Center for Philosophy of Science of the University of Pittsburgh. This experience impressed him greatly and left indelible marks. During his sojourn in Pittsburgh he made new friendships with philosophers from the world over and especially with those of the Center, with whom he kept in permanent contact. He subsequently attended the meetings of Fellows in 1996, 1998, and 2004, and took an active part in organizing the Bariloche meeting of 2000.

While in Pittsburgh he continued directing his Buenos Aires group and publishing papers, some of them with his collaborators. He was also a visiting professor in the Instituto de Investigaciones Filosóficas of the Universidad Nacional Autónoma de México.

Eduardo's far-reaching traces in our cultural and educational world branch and diversify to the point of influencing anonymously thousands of university students. His production as a philosopher and his writings on education raised new questions and new ways of approaching old disputes, allowing us to perceive that much is still undone, and that the human enterprise of reflection is worth our while. He taught us to stand without his physical presence; that is our challenge today. The honor of having met him and the affection he poured over us will permit us to carry on in spite of our grief.

NEWS FROM PAST VISITING FELLOWS

March 2004 to March 2005

Jeffrey BARRETT

University of California, Irvine
Articles: "Relativistic Quantum Mechanics Through Frame-Dependent Constructions," *Philosophy of Science*, 2004; with W. Aitken, "Computer Implication and the Curry Paradox," *Journal of Philosophical Logic*, 2004; "The Preferred Basis Problem and the Quantum Mechanics of Everything," *BJPS*, 2004

Werner DIEDERICH

University of Hamburg
Current project: *Kepler's cosmology*: Continuing work on a book with focus on Kepler's *Harmonice Mundi*

Philip EHRlich

Ohio University
Articles: "The Rise of non-Archimedean Mathematics and the Roots of a Misconception I: the Emergence of Non-Archimedean Grössensysteme," *Archive for History of Exact Sciences* (Forthcoming).

Presentations: "The Absolute Arithmetic Continuum and the Unification of All Numbers Great and Small," The Continuum in Mathematics and Philosophy (sponsored by The Danish Research School in Philosophy, the History of Ideas, and the History of Science), The Carlsberg Academy, Copenhagen, Denmark, 25-27 November 2004; "The Rise of non-Archimedean Mathematics and the Roots of a Misconception I: the Emergence of Non-Archimedean Grössensysteme," Logic Colloquium 2004, Turino, Italy, 25 July-1 August 2004; "The Rise of Non-Archimedean Mathematics and the Roots of a Misconception," Sixth International Fellows' Conference, Rytro, Poland, 25 May-1 June 2004
Current project: "Continuity": A lengthy article on the subject for the forthcoming Second Edition of the *Encyclopedia of Philosophy*.

John ERPENBECK

QUEM, Berlin
Books: With Volker Heyse, *Kompetenztraining. 64 Informations- und Trainingsprogramme*, Schäffer & Poeschel Verlag, Stuttgart, 2004; with Volker Heyse

and Horst Max, *Kompetenzen erkennen, bilanzieren und entwickeln*, Waxmann-Verlag, Münster, 2004

Current project: *Competence concepts of big corporations*

Eduardo FLICHMAN

National University of Generalissimo Sarmiento

Article: "Presentation: Portrait of a Gentleman Master," *Philosophy of Science and Psychoanalysis, Vol. I: Problems in Philosophy of Science*, Gregorio Klimovsky, Ediciones Biebel - ADEP, 2004; *Epistemology and History of Science - Selection of Presentations at the XIV Conference (2003)*, Vol. 10 (published in 2004), ed. P. Garcia and P. Morey, Faculty of Philosophy and Humanities, Natl. U. of Cordoba (Argentina), 2004; "Length in classical physics," *Electronic Proceedings of the III Meeting of Philosophy and History of Science of the South Cone*, 2002 (published in 2004); ed. AFHIC, AFHIC Electronic Book published in Campinas, Sao Paulo, Brazil, 2004

Presentations: "Randomness vs.

arbitrariness in classical statistical mechanics," IV Meeting of Philosophy and History of Science of the South Cone, Buenos Aires, 22-25 March, AFHIC; "Free Will and Determinism in the Vienna Circle," 5th Quadrennial International Fellows Conference, University of Pittsburgh Center for Philosophy of Science, Rytro, Poland, 26-30 May; with Guillermo Boido, "The Tragedy of Reductionist Mechanism in XIX Century," Seventh International Bariloche Colloquium of Philosophy 2004, Bariloche Foundation, Bariloche, Argentina, 22-24 September
Awards: Grant from the National Agency of Scientific and Technological Research, Argentina, obtained for 2004, 2005 and 2006; appointed "Consultant Professor," National University of Generalissimo Sarmiento, Argentina
Current project: *Causality, Determinism and Free Will*

Maria Carla GALAVOTTI

University of Bologna
Books: *Philosophical Introduction to Probability*, CSLI, Stanford, January 2005

Presentations: "A tribute to Janina Hosiasson-Lindenbaum: A Philosopher Victim of the Holocaust," workshop on "The Migration of Ideas," Bologna, 25-27 September 2004

Current project: *The origins and functions of causal thinking*: This project is carried on with the Centre for Time of the University of Sydney and a number of researchers operating in various places, including James Woodward and Christopher Hitchcock of Cal Tech. A first workshop was organized in Venice (13-14 May 2004). There will follow other workshops at Cal Tech and Sydney.

Wenceslao GONZALEZ

University of A Coruna
Books: Editor, *Analysis of Thomas Kuhn: Scientific Revolutions*, Trotta, Madrid, 2004; editor, *Karl Popper: Revision of his Legacy*, Unión Editorial, Madrid, 2004
Articles: "The Many Faces of Popper's Methodological Approach to Prediction," *Karl Popper: Critical Appraisals*, eds. Catton and Macdonald, Routledge, London, 2004; "Scientific Revolutions and



the Evolution of Thomas S. Kuhn," *Analysis of Thomas Kuhn: Scientific Revolutions*, Gonzalez, ed., Trotta, Madrid, 2004; "The Evolution of Popper's Thought," Gonzalez, ed., Unión Editorial, Madrid, 2004

Presentations: "The Evolution of Lakatos's Influence on the Methodology of Economics," International Fellows Conference, Rytro, May 2004

Current project: *Bounded Rationality and Design Sciences: The Role of Prediction and Prescription*: This project has a main aim: to clarify the role of prediction and prescription when the "designs" are made in the sciences of artificial. The models of those sciences, especially, if they are applied sciences, require prediction about their viability and prescription about what should be done to resolve the concrete problem. In both cases, prediction and prescription, there is a need of deepening in the epistemologico-methodological base of bounded rationality, instead of focusing towards a maximizing rationality (like it is done in the mainstream in applied sciences).

Mitchell GREEN

University of Virginia

Books: Editor with John Williams, *Moore's Paradox: New Essays on Belief, Rationality and the First Person*, Oxford University Press, 2006

Current project: *Self-Expression*, under contract with Oxford University Press

Stephan HARTMANN

London School of Economics

Books: Ed. with L. Bovens, *Bayesian Epistemology*, Oxford University Press, 2004

Articles: "Artificial Intelligence and its Methodological Implications," *Induction and Deduction in the Sciences*, F. Stadler, ed., Kluwer, 2004; with L. Fahrback, "Der Bayesianismus und die Herausforderung durch den Partikularismus," *Deskriptive oder normative Wissenschaftstheorie*, B. Gesang, ed., ontos-Verlag, 2004; "Transdisziplinarität - Eine Herausforderung für die Wissenschaftstheorie," *Homo Sa-*

piens und Homo Faber, M. Carrier and G. Wolters, eds., de Gruyter, 2005

Presentations: "Probabilistic Modeling in Philosophy," Conference on Formal Epistemology, Berkeley, CA, May 2004; "Modeling High-Temperature Superconductivity: Correspondence at Bay?" Conference on Rethinking the Comparative Evaluation of Scientific Theories: Stabilities, Ruptures, Incommensurabilities?, Nancy, France, June 2004; "The Formalist and the Historicist Should be Friends," Conference on Formal vs. Historical Accounts of Scientific Theory Change, Paris, France, December 2004



Awards: With Nancy Cartwright, research grant for the project "Contingency and Dissent in Science," The Arts and Humanities Research Council, UK, 2005-2008

Current project: *Subjective Probabilities in Quantum Mechanics*: I investigate the prospects of the subjectivist interpretation of quantum probabilities that is currently quite popular in the quantum information community.

Giora HON

University of Haifa

Articles: With Bernard R. Goldstein, "Symmetry in Copernicus and Galileo," *Journal for the History of Astronomy*, 35, 2004; with Bernard R. Goldstein, "Legendre's Revolution (1794):

The Definition of Symmetry in Solid Geometry," *Archive for the History of Exact Sciences*, 59, 2005; with Bernard R. Goldstein, "From Proportion to Balance: the background to symmetry in science," *Studies in History and Philosophy of Science*, 36, 2005

Presentations: "Cellular automata vs. the living system," HSS/PSA 2004, Austin, November 2004

Awards: Senior Dibner Fellowship, Dibner Institute, MIT, MA, 2004-2005

Current project: *A history of the concept of symmetry* (together with Professor Bernard R. Goldstein)

Paul HOYNINGEN-HUENE

University of Hannover

Books: Ed., *Formal Logic: A Philosophical Approach*, Translator: Alex Levine, Pittsburgh University Press, August 2004

Presentations: "On the Nature of Science," Various locations in Estonia, Finland, Germany, U.S., U.K, and Belgium

Current project: *Systematicity as the core of the concept of science*

Gürol IRZIK

Bogazici University

Books: With R. Nola, *Philosophy, Science, Education, and Culture*, Springer, forthcoming in 2005; ed. with G. Irzik, *Turkish Studies in the History and Philosophy of Science*, Springer, 2005; ed. with D. Ceylan, *Human Rights Issues in Textbooks: The Turkish Case*, History Foundation of Turkey Publications, 2004

Articles: "Popper's Piecemeal Engineering: What is Good for Science is Not Always Good for Society," *Karl Popper: Critical Assessments of Leading Philosophers*, A. O'Hear, ed., Routledge, 2004

Awards: Member of Turkish Academy of Sciences, elected in 2004

Patrick MAHER

University of Illinois

Articles: "Bayesianism and Irrelevant Conjunction," *Philosophy of Science*, vol. 71 no. 4, October 2004

Presentations: "A Conception of Inductive Logic," Philosophy of Science Association meetings, Austin, Texas, 18 November 2004

Current project: *Explication of the concept of physical probability*

Klaus MAINZER

University of Augsburg

Books: *Time. From the Beginning to Computational Time*, C.H. Beck: Munich, 2005

Articles: "Time in Dynamical Systems," *Horizons of Time in Science*, Dieter Simon, ed., De Gruyter: Berlin, 2004; "Symmetry and Symmetry Breaking," *Form, Number, Order. Studies in History of Science and Technics*, R. Seising, M. Folkerts, U. Hashagen, eds., Franz Steiner Verlag: Wiesbaden, 2004; "Evolution of Virtual Life," *Cosmology. Aspects of Evolution and Eschatology of the World*, H.A. Müller, ed., Vandenhoeck & Ruprecht: Göttingen, 2004

Presentations: "Self-Organization of Complex Dynamical Systems," invitation by the Russian Academy of Science, Moscow, 16-17 June 2004; "Interdisciplinary Perspectives of Organic Computing," invited Key-Lecture of the Annual Meeting of the German Society of Computer Science, Ulm, 24 September 2004; "Symmetry and Complexity in Dynamical Systems," Conference of the European Academy of Science on Symmetry, London, 14 January 2005

Current project: Preparation of a book on "Symmetry and Complexity: The Spirit and Beauty of Non-linear Science" for the series "Nonlinear Science" of World Scientific Publishing, Singapore forthcoming 2005

David MALAMENT

University of California, Irvine

Articles: "On the Time Reversal Invariance of Classical Electromagnetic Theory," *Studies in the History and Philosophy of Modern Physics*, vol. 35, no. 2, 2004

Current project: I am currently working on a survey article on the foundations of relativity theory to appear in the *Handbook of the Philosophy of Physics*, J. Butterfield, and J. Earman, eds., Elsevier.

Diego MARCONI

University of Torino

Articles: "Frascolla on Logic in the

Tractatus," *Dialectica*, 1, 2005; "Can there be a scientific theory of vision? Hacker on Marr," *Wittgenstein Today*, A. Coliva and E. Picardi, eds., Il Poligrafo, 2004
Presentations: "Neuropsychological data, intuitions, and semantic theories," Colloquium, University of California, Irvine, 9 April 2004; "'True in a world'," invited lecture, II Portuguese Conference of Analytic Philosophy, Porto, Portugal, 9 October 2004
Current project: *Theories of competence and theories of truth conditions:* I try to show that no theory can be both an adequate theory of the truth conditions of sentences and a plausible theory of the speaker's semantic competence.

Nicholas MAXWELL
 University College London

Books: *Is Science Neurotic?*, Imperial College Press (London), December 2004

Articles: "Popper, Kuhn, Lakatos and Aim-Oriented Empiricism," *Philosophia*, 32, 2004; "In Defence of Seeking Wisdom," *Metaphilosophy*, vol. 35 no. 5, October 2004; "Does Probabilism Solve the Great Quantum Mystery?" *Theoria*, vol. 19/3 no. 51, September 2004

Presentations: "Special Relativity, Time, Probabilism, and Ultimate Reality," The Ontology of Spacetime Conference, Concordia University, Montreal, Canada, 14 May 2004

Current project: *Cutting God in Half: And Putting the Pieces Together Again:* A book about the need to sever the God-of-Cosmic-Power (physical unity) from the God-of-Cosmic-Value (of value in life), and then discover how the latter can exist inside the former

Jürgen MITTELSTRASS
 University of Konstanz

Books: *Die Modernität der klassischen Bildung: Die Zukunft des humanistischen Gymnasiums in einer Leonardo-Welt*, Konstanz: Universitätsverlag Konstanz, 2004; with others, *Gesundheit nach Maß? Eine transdisziplinäre Studie zu den Grundlagen eines dauerhaften Gesundheitssystems*, Berlin (Akademie Verlag) 2004

Articles: "Wissenschaft/Wissenschaftsgeschichte/Wissenschaftstheorie," *Theologische Realenzyklopädie (TRE)*, vol. XXXVI, Berlin and New York (Walter de Gruyter) 2004; "Brauchen Gedanken Bilder?" *Grenzen und Grenzüberschreitungen*, W. Högrefe, ed., Berlin (Akademie Verlag) 2004; "Europa erfinden, in: Merkur," *Zeitschrift für europäisches Denken*, vol. 59, 2005

Awards: Honorary doctorate from the Technical University of Berlin, 2004

Current project: I continue working on the second edition of the *Enzyklopädie Philosophie und Wissenschaftstheorie*. The first volume coming out this year.

Jesús MOSTERÍN
 CSIC, Institute of Philosophy

Books: *Conceptos y Teorías en la Ciencia (3rd edition)*, Alianza Editorial SA, 2004

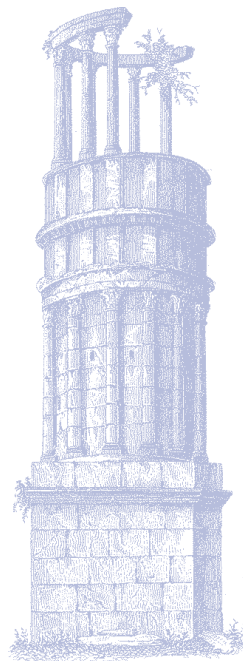
Articles: "Cerebro, genoma y metáforas en psicología," *Ontology Studies*, no. 4, 2004; "Relatividad y espaciotiempo en Torretti," *Diálogos*, no. 84, 2004; "Lógica y teoría de conjuntos," *Filosofía de la Lógica*, R. Orayen and A. Moretti, eds., Trotta, 2004

Presentations: "Sociobiology and Human Nature," II International Seminar on Scientific Paradigms, Santiago, Chile, 30 September 2004; "From genes to language," VI International Ontology Congress, San Sebastián, Spain, 4 October 2004; "From Genetics to Genomics," 23rd International Symposium of Ecoethics, Kyoto, Japan, 10 November 2004

Nancy NERSESSIAN
 Georgia Institute of Technology

Articles: "Interpreting scientific and engineering practices: Integrating the cognitive, social, and cultural dimensions," *Scientific and Technological Thinking*, M. Gorman, R. Tweney, & D. Gooding, eds., Hillsdale, N.J.: Lawrence Erlbaum, 2005; with E. Kurz-Milcke, and J. Davies, "Ubiquitous computing in science and engineering research laboratories: A case study from biomedical

engineering," *In-Use Knowledge*, G. Kouzelis, M. Pournari, M. Stšppler, V. Tselves, and G. Kuzoulis, eds., Berlin: Peter Lang Publishers, 2005; with E. Kurz-Milcke and W. Newstetter, "What has history to do with cognition?"



Interactive methods for studying research laboratories," *Cognition and Culture*, special issue: Cognitive Anthropology of Science 4, 2004

Awards: National Endowment for the Humanities Fellowship 2005-06; Radcliffe Institute for Advanced Study, Harvard University, Fellowship 2005-06

Lisa OSBECK
 State University of West Georgia

Articles: "Method and theoretical psychology," *Theory and Psychology*, vol. 15, no. 1, February 2005; "Asperger syndrome and capitalist social character," *Critical Psychology*, no. 11, September 2004; with Jeffrey Reber, "Social psychology: Key issues, assumptions, and implications," *Critical Thinking About Psychology*, B. Slife, J. Reber, & F. Richardson, eds., American Psychological Association, January 2005

Presentations: With Peter

Machamer, "The status and use of mathematical objects in Descartes and human science," European Society for the History of Human Sciences, Salzburg, Austria, July 2004; "Distributed cognition or generalized other? A comparison of recent cognitive science and classical pragmatist accounts of teaching and learning," Southern Society for Philosophy and Psychology, New Orleans, Louisiana, April 2004

Awards: Faculty Development Fellowship, Georgia Institute of Technology, Atlanta, GA, Spring 2004

Current project: *The distribution of representation:* Two symposia scheduled to examine socio-cultural critiques of mental representation and the extent to which these hold or require revision within newer paradigms of distributed and situated cognition

Paolo PARRINI
 University of Florence

Books: Ed. with Luca Scarantino, *Il pensiero filosofico di G. Preti*, Guerini e Associati, March 2004; *Filosofia e scienza nell'Italia del Novecento. Figure, correnti, battaglie*, Guerini e Associati, July 2004

Articles: "Il pupazzo di garza: alcune riflessioni epistemologiche," *Il pupazzo di garza*, M. Papini and D. Tringali, eds., Firenze University Press, Firenze, 2004; "Tra kantismo ed empirismo," *Scienza e conoscenza secondo Kant. Influssi, temi, prospettive*, A. Moretto, ed., Il Poligrafo, Padova, 2004; "Review of G. Preti, *Écrits philosophiques*," *Les Études philosophiques*, 2, 2004

Presentations: "A due secoli da Kant: teoria della conoscenza e oggettività," El diálogo ciencia-filosofía: Newton-Kant. A los 22 años de la muerte de Kant, Universidad del País Vasco, Donostia-San Sebastian, Spain, 26-27 April 2004; "Analyticity and Epistemological Holism: Prague Alternative," International Conference Philipp Frank: Wien-Prag-Boston, Wien/Prague, Academy of Sciences of the Czech Republic, 27-28 September / 30 September-31 October 2004; "Epistemologia

e ontologia," Scuola Estiva di Alta Formazione Filosofica di Jesi, Ancona, Università Politecnica delle Marche & Istituto Italiano per gli Studi Filosofici, Ancona, 6-8 October 2004

Current project: *Invariances, Objectivity and Truth*

Massimo PAURI

University of Parma

Presentations: With L. Lusanna, "General Covariance and the Objectivity of Space-Time Point-events," European Network International Conference on "Foundations of Spacetime Theories," Oxford, England, 23-28 March 2004

Carlo PENCO

University of Genoa

Books: *Introduzione alla filosofia del linguaggio*, Laterza, 2004

Articles: "Keeping track of individuals," *Pragmatics and Cognition*, Issue 13 (1), 2005; ed. with A. Coliva, E. Picardi, "Wittgenstein, locatality and rules," *Wittgenstein Today*, Il Poligrafo, Padoa, Italy, 2004

Presentations: "Frege's limited rationality," Erasmus Exchange, Barcelona, September 2004

Current project: *Rules for converging*: Davidson says that we converge towards the same meaning; but there are no actual "rules" of convergence. It looks like we have only a natural process or an intuitive attitude. The idea is to use results from cognitive science and artificial intelligence to individuate shared rules (example ideas from Gilles Fuconnier, Paul McCarthy and others).

Erich RECK

University of California, Riverside

Books: Ed. and translated with Steve Awodey, *Frege's Lectures on Logic: Carnap's Student Notes, 1910-1914*, Open Court, Chicago, 2004

Miklos REDEI

Lorand Eotvos University

Articles: With G. Hofer-Szabo, "Reichenbachian Common Cause Systems," *International Journal of Theoretical Physics*, vol 43, 2004; with B. Gyenis, "When can statistical theories be causally closed?"

Foundations of Physics, vol 34, 2004; "John von Neumann 1903-1957," *European Mathematical Society Newsletter*, March 2004

Presentations: "Von Neumann's concept of quantum logic," Belgian Logic and Philosophy of Science Society, Brussels, Belgium, April 2004; "Reichenbach's Common Cause Principle," Department Colloquium, Department of Philosophy, University of Ghent, Ghent, Belgium, April 2004; "Can spacelike correlations predicted by algebraic relativistic quantum field theory be explained by local Reichenbachian common causes?" Seminar in Philosophy, Probability and Modeling Group, Center for Junior Research Fellows, University of Konstanz, Konstanz, Germany, August, 2004

Awards: Visiting Fellow, Philosophy, Probability and Modeling Group, Center for Junior Research Fellows, University of Konstanz, Konstanz, Germany, June-August 2004

Current project: *John von Neumann's Selected Letters*: Editing a volume of selected letters by John von Neumann, publisher: American Mathematical Society

Soshichi UCHII

Kyoto University

Books: *Tracing Einstein's Ideas: Introduction to the philosophy of space and time* [in Japanese], Minerva, Kyoto, 15 December 2004

Presentations: "Darwin's Principle of Divergence," JST workshop organized by Mariko Hasegawa, Yatsugatake Royal Hotel, Yamanashi, 29 August 2004

Current project: *Philosophy of space and time*: How does the recent development of cosmology affect the philosophy of space and time?

Thomas UEBEL

University of Manchester

Books: Ed. with Robert S. Cohen, *Otto Neurath: Economic Writings. Selections 1904-1945*, Translator with Marie Neurath, Robert S. Cohen, and Christoph Schmidt-Petri, Kluwer, October 2004

Articles: With John O'Neill, "Horkheimer and Neurath: Restart-

ing a Disrupted Debate," *European Journal of Philosophy*, vol. 12, no. 2, May 2004; "Carnap, the Left Vienna Circle and the Neopositivist Critique of Metaphysics," *Carnap Brought Home. The View from Jena*, Steve Awodey and Carsten Klein, eds., Open Court, March 2004; "Education, Enlightenment and Positivism: The Vienna Circle's Scientific World Conception Revisited," *Science & Education*, vol. 13 no. 1, July 2004

Current project: With John O'Neill, *The Political Economy of Heterodox Neopositivism*: Investigation of the political valency of the philosophy of science of the left Vienna Circle and its disputatious relations with early critical theory and Austrian economics

Jean Paul VAN BENDEGEM

Free University of Brussels

Books: Ed. with Dov Gabbay, Shahid Rahman, and John Symons, *Logic, Epistemology and the Unity of Science* (LEUS), Volume 1, Kluwer Academic, 2004; ed. with Bart Van Kerkhove, *A selection of papers presented at the Perspectives on Mathematical Practices Conference 2002*, Logique et Analyse, 2004

Articles: "Why do so many search so desperately for a universal language (and fortunately fail to find it)?" *Language and Revolution/Language and Time. Antwerp Papers in Linguistics*, Frank Brisard, Sigurd D'hondt, and Tanja Mortelmans, eds., Department of Linguistics, University of Antwerp, 2004; "The Creative Growth of Mathematics," *Logic, Epistemology and the Unity of Science* (LEUS), Volume 1, Dov Gabbay, Shahid Rahman, John Symons, and Jean Paul Van Bendegem, eds., Kluwer Academic, 2004

Presentations: "The Role of What-If Stories in the History of Mathematics," Thought Experiments Rethought: International Symposium, University of Ghent, Ghent, Belgium, 24-25 September 2004

Current project: *What-if stories in mathematics*: Is there a form of necessity in the development of mathematics in western society? If not, then it must be possible to tell alternative stories. What could

these stories be like?

Jan WOLENSKI

Jagiellonian University

Books: Ed. with I. Niiniluoto and M. Sintonen, *The Handbook of Epistemology*, Kluwer Academic Publishers, Dordrecht, 2004; *The Limits of Unbelief*, Wydawnictwo Literackie, Krakow, 2004; *Lwow-Warsaw Philosophical School*, Politiczeskaja Enciklopedia, Moskva, Translated into Russian by V. Porus

Articles: "The History of Epistemology," *Handbook of Epistemology*, ed. with I. Niiniluoto and M. Sintonen, Kluwer Academic Publishers, Dordrecht, 2004; "Analytic vs. Synthetic and Apriori vs. A Posteriori," *Handbook of Epistemology*, ed. with I. Niiniluoto and M. Sintonen, Kluwer Academic Publishers, Dordrecht, 2004; "First-Order Logic: (Philosophical) Pro and Contra," *First-Order Logic Revisited*, V. Hendricks, F. Neuhaus, S. A. Pedersen, U. Scheffler and H. Wansing, eds., Logos, Berlin, 2004

Presentations: "Holocaust and Collective Responsibility," The NIAS Lecture, Wassenaar, February 2004; "Polish Philosophy," The Week of Polish Culture, Jerusalem, March 2004; "Truth and Empirical Science," The Pittsburgh Fellows Conference, Rytro, May 2004

Awards: The Netherlands Institute of Advanced Studies in Humanities and Social Sciences, Wassenaar, March-June

Current project: *Formal Semantics and Truth*: A historical and systematic exposition of the semantic theory of truth and its philosophical aspects

NEWS FROM RESIDENT FELLOWS

March 2004 to March 2005

Richard GALE

Books: *The Philosophy of William James: An Introduction*, Cambridge University Press, 2004; Ed., *The Blackwell Companion to Metaphysics*, 2004; *God, Time, and Nonbeing*, Prometheus Press, 2005

Adolf GRÜNBAUM

Books: (in Polish) *Podstawy Psychoanalizy Krytyka Filozoficzna*, translator: Elzbieta Olender-Dmowska Universitas, Krakow, Poland, 2004. The American original of this Polish edition was the author's book *The Foundations of Psychoanalysis: A Philosophical Critique*, which has been translated into six languages.

Articles: "The Poverty of Theistic Cosmology," *The British Journal for the Philosophy of Science*, vol. 55, no. 4, December 2004. A shortened version appeared in Russian translation in *Voprosy Filosofii*, 2004, no. 8; "Das Elend der Theistischen Moral," *Moral als Gabe: Zur Ambivalenz von Moral und Religion*, B. Boothe and P. Stoellger, eds., Königshausen und Neumann, Würzburg, Germany, 2004; "Critique of Psychoanalysis," *Who Owns Psychoanalysis?* A. Casement, ed., Karnac Books, London, 2004. This essay was also published in January, 2005 in: *Handbook of Personality and Psychopathology*, S. Strack, ed., John Wiley & Sons, New York.

Presentations: "Why is There Something, Rather Than Nothing? An Ill-Conceived Question Whose Theistic Answer Fails," Conference on "The Most Important Unsolved Problems in the Philosophy of Science," 18-21 February 2005, University of California/Santa Barbara

Awards: A very lengthy newly revised and enlarged entry entitled "Grünbaum, Adolf" (5 pages) is published in the Second Edition of vol. 1 of *Enzyklopädie Philosophie und Wissenschaftstheorie*, J. Mittelstrass, ed., Bibliographisches Institut, Mannheim, Germany
Current Project: *Philosophy of Science in Action*, vols. 1 and 2, in preparation for publication by Oxford University Press, New York.

Jim LENNOX

Articles: "Darwinism," *The Stanford Encyclopedia of Philosophy*, Ed Zalta, ed., Stanford: The Metaphysics Research Lab, Stanford University, 2004, [http://plato.stanford.edu/entries/darwinism]; "Getting a Science

Going: Aristotle on Entry Level Kinds," *Homo Sapiens und Homo Faber (Festschrift Mittelstrass)*, G. Wolters, ed., Berlin: Walter De Gruyter, 2004; "Darwin's Methodological Evolution," *Journal of the History of Biology*, vol. 38, no. 1, March 2005.

Presentations: "The function concept: some history," Workshop on Functions in Biology and Language, University of Catania, Sicily, 21 May 2005; "Getting a Science Started: Aristotle on Entry Level Kinds," University of Bologna, Italy, 17 May 2005 and Eötvös University, Budapest, Hungary, 5 June 2004; "Experiment and Conceptual Innovation in William Harvey's Science," Philosophy of Science Association, Austin Texas, 19 November 2004; "William Harvey and the Teleology of Animal Generation," Teleology Conference, University of Edinburgh, Scotland, 17 August 2004

Current Project: A monograph on the logical and conceptual structure of Aristotle's natural philosophy, tentatively titled *Like the Snub: Aristotle's Conception of a Science of Nature*. I am also under contract to contribute papers on the 'Philosophy of Biology' to *Encyclopedia of Philosophy*, 2nd edition; on 'Darwinism and neo-Darwinism' to the *Oxford Companion to the Philosophy of Biology*; on 'Aristotle's Biology,' for *Stanford Encyclopedia of Philosophy* and the *Oxford Companion to Aristotle*; and 'Aristotle on Kinds, Forms and Essence' for the *Blackwell Companion to Aristotle*.

Peter MACHAMER

Books: Ed. with Gereon Wolters, *Science, Values and Objectivity*, University of Pittsburgh Press, 2004

Articles: "Activities and Causation: The Metaphysics and Epistemology of Mechanisms," *International Studies in the Philosophy of Science*, 187, 1, 2004; "Galileo," *Stanford Encyclopedia of Philosophy*, on-line

Current project: *Philosophy and Neuroscience*: a review of recent work and purported advances

Robert OLBY

Articles: "The Rockefeller University and the Molecular Revolution," *Creating a Tradition of Biomedical Research*, Darwin Stapleton, ed., Rockefeller University Press, 2004

Current Project: The biography of Dr. Francis Crick

Nicholas RESCHER

Books: *Common Sense: A New Look at an Old Tradition*, Marquette University Press, Milwaukee, WI, 2005; *Cosmos and Logos: Studies in Greek Philosophy*, Ontos Verlag, Frankfurt, 2005; *Realism and Pragmatic Epistemology*, University of Pittsburgh Press, Pittsburgh, 2005

Articles: "Immediate Experience and Ontology: A Pragmatic Perspective on Philosophical Realism," *Journal of Philosophical Research*, vol. 29, 2004; "Pragmatism and Practical Rationality," *Contemporary Pragmatism*, vol. 1, 2004; "Sosa and Epistemic Justification," *Ernest Sosa and His Critics*, John Greco, ed., Blackwell, Oxford, 2004

Presentations: "Traditions," Presidential Address, American Catholic Philosophical Association November 2004; "Common Sense," Thomas Aquinas Lecture, Marquette University, February 2005; "Distinctions in Philosophy," Francisco Suarez Lecture, Fordham University, April 2005

Awards: President, American Catholic Philosophical Association, 2004; President, Metaphysical Society of America, 2005

Current project: Studies in the measurement of knowledge and quantitative issues in epistemology

Merrilee SALMON

Books: Ed. with Phil Dowe, *Reality and Rationality*, Wesley C. Salmon, Oxford University Press, 2005

Articles: "Wesley C. Salmon," *Dictionary of Modern American Philosophers, 1860-1960*, Thoemmes Press, Bristol; "Prediction in the social sciences," *Causation and Explanation*, Jose A. Diez, Carl Hoefer, et al, eds.; "Causal reasoning and appealing to statistical evidence: standard methods and fallacies," *History and Philosophy of Science: For African Undergraduates*, Helen Lauer, eds., Hope Publications, 2004

Karola STOTZ

Articles: With Bostanci and P.E. Griffiths, "Tracking the shift to post-genomics," *Community Genetics*, special issue, Fall 2005; with P.E. Griffiths, "Genes: Philosophical Analyses Put to the Test,"

History and Philosophy of the Life Sciences, 26, 1, 2004; with P.E. Griffiths and R.D. Knight, "How scientists conceptualize genes: An empirical study," *Studies in History and Philosophy of Biological and Biomedical Sciences*, 35, 4, 2004; "Organismen als Entwicklungssysteme," and, "Positionen der evolutionären Entwicklungsbiologie," *Einführung in die Philosophie der Biologie*, U. Krohs and G. Toepfer, eds., Suhrkamp Frankfurt/Main

Presentations: "Genes: Philosophical Analyses Put to the Test," Institute for Molecular Bioscience, University of Queensland, Australia, 3 February 2005; "Molecular Epigenesis and the extended mind: lessons from genomics," Memory and Embodied Cognition workshop, Macquarie University, Sydney, Australia, 29-30 November 2004; "With genes like that who needs an environment? Genomics' argument against genetic determinism," PSA 2004, session "Developmental and evolutionary implications of the genomic revolution," organized by K. Stotz, 18-22 November 2004, Austin, Texas

Awards: Ed., Special issue 'Genes, Genomes and Genetic Elements', *History and Philosophy of the Life Sciences*, 26, 1, 2004; "Representing Genes: Testing Competing Philosophical Analyses of the Gene Concept in Contemporary Molecular Biology," NSF grant, Paul Griffiths (PI) and Karola Stotz (CO-PI), University of Pittsburgh, University of Queensland, 1 Aug 2002 to 31 July 2005; "Conceptual Issues in the Dissemination and Reception of the Dismissal and Rejection of Genomics," NSF grant, Karola Stotz (PI) and Paul Griffiths (former PI), John Dupre (collaborator), University of Pittsburgh, University of Exeter (ESRC Center for Genomics in Society), University of Queensland, 1 Aug 2003 to 31 Dec 2006; Visiting Fellow/Scholar at the Institute for Molecular Bioscience, University of Queensland, 1 December 2004 to 7 February 2005

Current project: *2001 and all that: Still a tale of two sciences: an analysis of the relationship and difference between molecular genetics of the last 50 years and the field of postgenomics that bloomed since the publication of the draft of the Human Genome*

2004–2005 CONFERENCES, WORKSHOPS, AND SPECIAL EVENTS

Conference Honoring Allan Gotthelf (HPS)

Topic: Being, Nature, and Life: A Conference Celebrating Allan Gotthelf's Contributions to the Study of Classical Philosophy and Science

Site: University of Pittsburgh
Dates: 1-3 October 2004

The Ernest Nagel Lectures in Philosophy of Science

Site: Carnegie Mellon University
Dates: 12-14 October 2004
Presenter: Terrence J. Sejnowski, Director, Computational Neurobiology Laboratory at the Salk Institute for Biological Studies
12 October: *The Color of White*
13 October: *Brains, Rewards, and Games*
14 October: *In Search of Self*

HPS Workshop

Topic: Foundations of Physics
Site: University of Pittsburgh
Dates: 29-30 October 2004

HPS Mini-Conference

Topic: Einstein 1905 - A Centenary Celebration
Site: University of Pittsburgh
Date: 12 February 2005

Evolutionism: Present Approaches

Topic: Evolutionism
Site: Universidad a Coruna
Dates: 10-11 March 2005

Annual Meeting of the Metaphysical Society of America

Topic: Metaphysics and Science
Site: University of Pittsburgh
Dates: 11-13 March 2005

7th Annual CMU–Pittsburgh Graduate Philosophy Conference

Site: Carnegie Mellon University
Dates: 9-10 April 2005
Keynote Speaker: Daniel M. Hausman, University of Wisconsin

The Concept of Function in Biology and Language

Site: Monastero dei Benedettini, Catania, Italy
Dates: 21-23 May 2005

7th Meeting of the Pittsburgh–Konstanz Colloquium

Topic: Causation: Historical and Contemporary Perspectives
Site: University of Konstanz
Dates: 26-29 May 2005



BEING, NATURE, AND LIFE:
A CONFERENCE CELEBRATING ALLAN GOTTHELF'S CONTRIBUTIONS
TO THE STUDY OF CLASSICAL PHILOSOPHY AND SCIENCE



Friday, October 1, 2004

Session I *Pre-Aristotelian Teleology*
Chair, Helen Cullyer (Pittsburgh)

10:00-10:15 James Lennox, Introductory Remarks
10:15-11:15 David Sedley (Cambridge): 'The Teleology of Anaxagoras'
11:15-2:00 Lunch

Session II *Aristotle: Natural Philosophy and Metaphysics*
Chair, James Allen (Pittsburgh)

2-3:30 Robert Bolton (Rutgers): 'Biology and Metaphysics in Aristotle'
3:30-3:45 Break for Coffee
3:45-5:15 Alan Code (Berkeley): 'The Definitions of Natural Substances'
5:30-7:00 Reception for Attendees, Honors College, 35th floor

Saturday, October 2, 2004

Session III *Metaphysics IX*
Chair, John McDowell (Pittsburgh)

9:30-11 John Cooper (Princeton): 'Aristotle on *Energeia: Metaphysics IX. 6*'
11-11:15 Break for Coffee
11:15-12:45 David Charles (Oxford): 'Teleology, Potentiality, and Actuality in *Metaphysics IX*'
12:45-2:30 Lunch

Session IV *Plato's Later Metaphysics*
Chair, Jessica Moss (Pittsburgh)

2:30-4:00 Mary Louise Gill (Brown): 'Models and Division in Plato's *Sophist* and *Statesman*'
6:30 p.m. Dinner for Participants, Soba Lounge

Sunday, October 3, 2004

Session V *Philosophical Zoologists*
Chair, Ron Polansky (Duquesne)

9:30-11 James Lennox (Pittsburgh): 'The Unity and Purpose of *De Partibus Animalium I*'
11-11:15 Break for Coffee
11:15-12:45 Allan Gotthelf (Pittsburgh): Closing Remarks

FOUNDATIONS OF PHYSICS HANDBOOK WORKSHOP

29–30 October 2004

Friday, 29 October 2004

9:00-12:00 - Friday Morning

Presentations by:

Michael Dickson (Non-relativistic quantum mechanics)

Hans Halvorson (Quantum field theory: algebraic)

Discussion

2:00-5:00 - Friday Afternoon

Presentation by:

N.P. Landsman (Between classical and quantum)

Discussion

Caucus re: algebraic presentations: common appendix on C^* and W^* algebras?; choice of symbols; ...

6:30 - Friday Evening

Cocktails and food at home of Earmans

Saturday, 30 October 2004

9:00-12:00 - Saturday Morning

Presentations by:

Jos Uffink (Statistical mechanics: classical) and

G rard Emch (Statistical mechanics: quantum)

Discussion

2:00-5:00 - Saturday Afternoon

Presentations by:

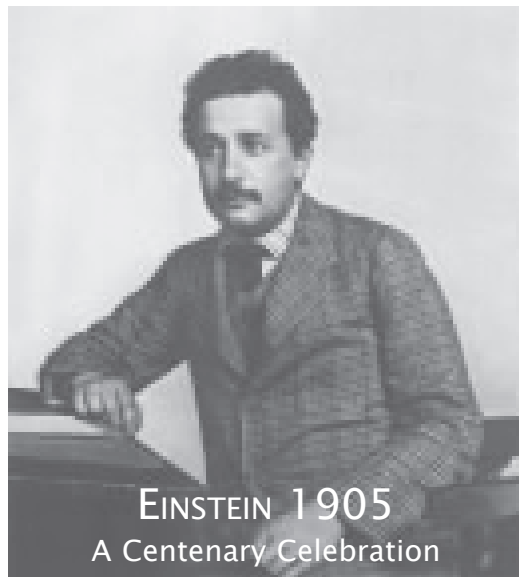
Jeremy Butterfield (Mechanics: geometrical) and

Gordon Belot (Mechanics: geometrical)

Discussion

7:00 - Saturday Evening

Dinner at Indica



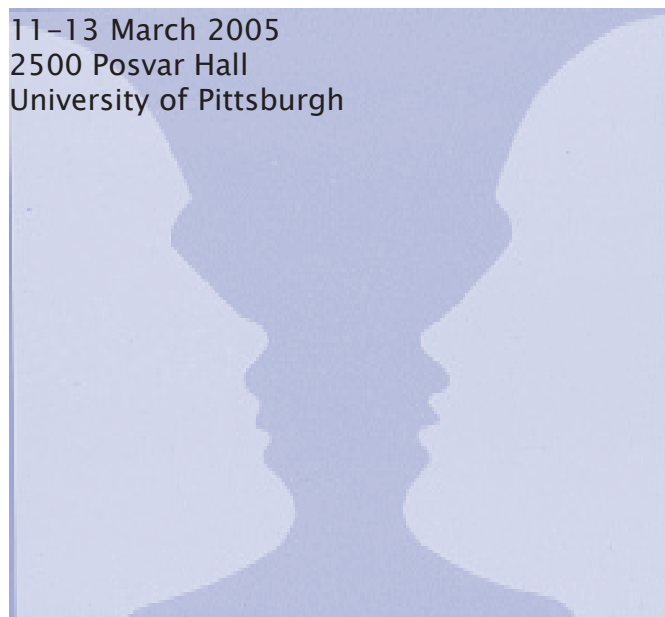
On Saturday, 12 February 2005, we supported a small celebration of the centenary of Einstein's *annus mirabilis* of 1905. In that year, Einstein established the size and reality of atoms; enunciated the special theory of relativity and $E=mc^2$; and proposed the light quantum. The event was the Center's contribution to the series of events held worldwide this year in recognition of the centenary.

The event was introduced by our Provost, Jim Maher, who is himself a physicist. The first speaker was John Stachel of Boston University. He is widely recognized as the leading scholar internationally in Einstein studies. He was the founding editor of the Einstein Papers project that is editing and presenting Einstein's published papers, correspondence and private notes. He presented a synoptic survey of Einstein's work of 1905, "Einstein's Miraculous Year," locating Einstein's work in the context

of the problems of 19th century physics. The remaining speakers investigated particular aspects of Einstein's work of 1905. John D. Norton of the University of Pittsburgh, in "Einstein's Electrodynamical Pathway to Special Relativity," sought to refocus attention on the origin of Einstein's special theory of relativity in particular problems in electrodynamics. Jos Uffink of the University of Utrecht, in his "Einstein's Statistical Physics of 1905," reviewed Einstein's dissertation and his work on Brownian motion, relating it to his earlier work of 1902-1904 on the foundations of statistical physics. Robert Rynasiewicz of Johns Hopkins University, in his "Just HOW Did the *Annus Mirabilis* Happen?", sought to reconstruct just how Einstein came to his discoveries of 1905, paying special attention to the interactions between the work in relativity theory and in statistical physics, especially on the light quantum.

METAPHYSICS AND SCIENCE

11–13 March 2005
2500 Posvar Hall
University of Pittsburgh



Friday, 11 March–Afternoon Session

Chair: Jorge Nobo

- | | |
|------------|--|
| 2:00-3:15 | Richard Montgomery
<i>Representation in Cognitive Science:
A Minimalist Account</i> |
| 3:15-3:30 | Coffee break |
| 3:30-4:45 | Jude Dougherty
<i>Physics and Philosophy</i> |
| 4:45- 6:00 | Wine & Cheese |

Saturday, 12 March–Morning Session

Chair: John Lachs

- | | |
|-------------|---|
| 8:00-8:30 | Continental Breakfast |
| 8:30-9:45 | Joseph Bracken
<i>Self-Organizing Systems and Final
Causality</i> |
| 9:45-10:00 | Coffee break |
| 10:00-11:15 | Presidential Address
Nicholas Rescher
<i>Optimalism and the Rationality of the
Real</i> |
| 11:15-12:15 | Business Meeting |

Saturday, 12 March–Afternoon Session

Chair: Helen Lang

- | | |
|------------|--|
| 2:00-3:15 | John Leslie
<i>Ethically Required Explanation</i> |
| 3:15-3:30 | Coffee break |
| 3:30- 4:45 | Alexander Pruss
<i>Temporal Asymmetry and the B-
Theory of Time</i> |

Saturday, 12 March–Evening

- | | |
|------------|---|
| 6:30-7:00 | Members Reception
Alumni Hall Ballroom |
| 7:00-10:00 | Members Dinner
Alumni Hall Ballroom |

Sunday, 13 March–Morning Session

Chair: Francis Coolidge

- | | |
|-------------|--|
| 8:00-8:30 | Continental Breakfast |
| 8:30-9:45 | Robert Almeder
<i>Science and the Existence of Carte-
sian Minds</i> |
| 9:45-10:00 | Coffee break |
| 10:00-11:15 | Laura Ruetsche
<i>Physical Possibility and the Content
of Scientific Theories</i> |
| 11:15-12:30 | Edward Halper
<i>Hegel's Critique of Newtonian Physics</i> |

THE SEVENTH MEETING OF THE PITTSBURGH-KONSTANZ COLLOQUIUM IN THE PHILOSOPHY OF SCIENCE

26 – 29 May 2005

Thursday, 26 May 2005

Ancient Philosophy

- 9:00-10:30 The Concept of Causality in Greek Thought
 Speaker: Jürgen Mittelstrass, University of Konstanz
 Commentator: Jim Lennox, University of Pittsburgh
 Chair: Gereon Wolters, University of Konstanz
- 10:30-11:00 Coffee Break
- 11:00-12:30 Moral Causes: The Role of Explanation in Ancient Ethics
 Speaker: Brad Inwood, University of Toronto
 Commentator: Emildio Spinelli, University of Rome, Sapienza

Medieval Philosophy

- 14:30-16:00 Power, 'Constant Conjunction,' and Explanation in Some Medieval Theories of Causality
 Speaker: Marilyn Adams, Christ Church, Oxford
 Commentator: J.E. McGuire, University of Pittsburgh
- 16:00-16:30 Coffee Break

17th Century

- 16:30-18:00 From Scholastic to Mathematical Physics - and Back: Different Concepts of Causality in Descartes and Occasionalism
 Speaker: Robert Schnepf, University of Halle
 Commentator: Peter Machamer, University of Pittsburgh
 Chair: Paolo Palmieri, University of Pittsburgh

Public Lecture

- 20:00 Causality in Economics
 Speaker: C.W.J. Granger, University of California at San Diego, Nobel Laureate (2003) in Economics
 Chair: Gereon Wolters, University of Konstanz

Friday, 27 May 2005

18th and 19th Centuries

- 9:00-10:30 Kant on Causal Laws
 Speaker: Eric Watkins, University of California at San Diego
 Commentator: Bernhard Thoele, Humboldt University Berlin
 Chair: Martin Carrier, University of Bielefeld
- 10:30-11:00 Coffee Break
- 11:00-12:30 J.S. Mill on Causation in the Human and Natural Sciences
 Speaker: Laura Snyder, St. John's, New York
 Commentator: Paolo Parrini, University of Florence

20th Century

- 14:30-16:00 Responsibility in History: Weber and Kries on Causality
 Speaker: Michael Heidelberger, University of Tübingen
 Commentator: Henry Krips, University of Pittsburgh
- 16:00-16:30 Coffee Break
- 16:30-18:00 Plurality in Causation
 Speaker: Maria Carla Galavotti, University of Bologna
 Commentator: Christopher Hitchcock, California Institute of Technology

Saturday, 28 May 2005

Physics

- 9:00-10:30 Causality in Chaos Theory or Catastrophe Theory (Now Called Bifurcation Theory)
 Speaker: Jeremy Butterfield, All Souls, Oxford
 Commentator: John Norton, University of Pittsburgh
- 10:30-11:00 Coffee Break

Biology

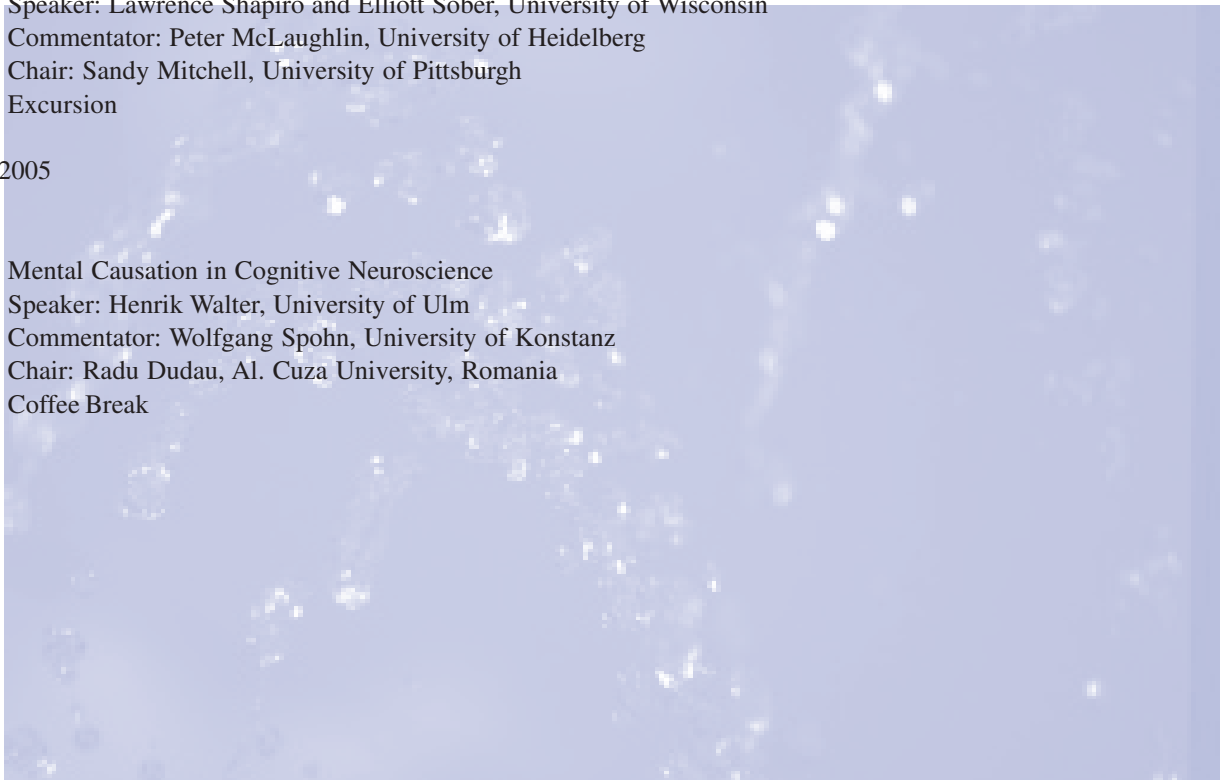
- 11:00-12:30 Higher Level and Lower Level Causation
 Speaker: Lawrence Shapiro and Elliott Sober, University of Wisconsin
 Commentator: Peter McLaughlin, University of Heidelberg
 Chair: Sandy Mitchell, University of Pittsburgh

Afternoon: Excursion

Sunday, 29 May 2005

Neurosciences

- 9:00-10:30 Mental Causation in Cognitive Neuroscience
 Speaker: Henrik Walter, University of Ulm
 Commentator: Wolfgang Spohn, University of Konstanz
 Chair: Radu Dudau, Al. Cuza University, Romania
- 10:30-11:00 Coffee Break



45TH ANNUAL LECTURE SERIES 2004–2005

What's Necessary and *a posteriori* and Flies South for the Winter?

Jerry Fodor, Rutgers University, Philosophy
Friday, 8 October 2004, 3:30 p.m.
Frick Fine Arts Auditorium

Concepts and Results in "Real" Mathematics

Dennis Des Chene, Washington University, Philosophy
Friday, 3 December 2004, 3:30 p.m.
Frick Fine Arts Auditorium

Is Natural Selection a Mechanism?

*Roberta Millstein, California State University, Hayward,
Philosophy*
Friday, 21 January 2005, 3:30 p.m.
2500 Posvar Hall

The Difference Between Time and Space

*Craig Callender, University of California, San Diego,
Philosophy*
Friday, 11 February 2005, 3:30 p.m.
2500 Posvar Hall

Philosophy of Mathematics Meets Philosophy of Science

John Burgess, Princeton University, Philosophy
Friday, 18 March 2005, 3:30 p.m.
2500 Posvar Hall

Galileo's Roman Agenda

William Shea, University of Padua, History of Science
Friday, 1 April 2005, 3:30 p.m.
2500 Posvar Hall

46TH ANNUAL LECTURE SERIES 2005–2006

Perception and Its Objects

Bill Brewer, University of Warwick, Philosophy
Friday, 16 September 2005, 3:30 p.m.

Darwin on Orchids: Teleology with a Twist

John Beatty, University of British Columbia, Philosophy
Friday, 30 September 2005, 3:30 p.m.
Reception honoring Jim Lennox to follow

Testing Newton, Then and Now

George Smith, Dibner Institute, MIT
Friday, 11 November 2005, 3:30 p.m.

The Rise and Fall of Panselectionism

Michael Dietrich, Dartmouth College, Biological Sciences
Friday, 9 December 2005, 3:30 p.m.

The Philosophy of Ptolemaic Astronomy

*Bernard R. Goldstein, University Professor Emeritus
University of Pittsburgh*
Religious Studies and History & Philosophy of Science
Friday, 20 January 2006, 3:30 p.m.

Computers and the Future of Mathematical Proofs

Thomas Hales, University of Pittsburgh, Mathematics
Friday, 24 February 2006, 3:30 p.m.

Hunting Causes and Using Them

*Nancy Cartwright, London School of Economics and
University of California, San Diego, Philosophy*
Friday, 24 March 2006, 3:30 p.m.

Unification and Explanation: A Case Study From Real Algebraic Geometry

Paolo Mancosu, University of California, Berkeley, Philosophy
Friday, 21 April 2006, 3:30 p.m.

*All lectures will be held in 2500 Wesley W. Posvar Hall.
For updated details and any changes visit:
www.pitt.edu/~pittcntr*

LUNCHTIME COLLOQUIUM 2004–2005

September 2004

“Problems of Quantifying Knowledge”

Nicholas Rescher, University of Pittsburgh

Friday, 10 September 2004

“The Church-Turing Theses”
Oron Shagrir, Hebrew University of Jerusalem

Tuesday, 14 September 2004

“Images, Evidence, and Pictorial Convention”

Laura Perini, Virginia Polytechnic Institute and State University

Friday, 17 September 2004

“Selective Scepticism and Structural Realism”

Anjan Chakravartty, University of Toronto

Tuesday, 21 September 2004

“Statistics for Bayesian Philosophers (and Some Others)”

Jason Grossman, University of Sydney

Friday, 24 September 2004

“What's the Use of Introspection?”

Dominic Murphy, California Institute of Technology

Tuesday, 28 September 2004

October 2004

“Cartwright's Theorem and Procedural Approach to Causality”

Pawel Kawalec, Catholic University of Lublin

Tuesday, 5 October 2004

“On Reductionism in the Philosophy of Social Science: The Individualism-Holism Debate”

Radu Dudau, University of Iasi

Friday, 15 October 2004

“Can Any Description of Reality Be Completed?”

Tomasz Placek, Jagellion University

Tuesday, 19 October 2004

“Spuntar lo scoglio più duro:

Did Galileo ever think the most beautiful thought experiment in the history of science?”

Paolo Palmieri, University of Pittsburgh

Tuesday, 28 September 2004

“Statistical Inference in Quantum Mechanics”

Jos Uffink, Utrecht University

Tuesday, 26 October 2004

November 2004

“On the Ontological Aspects of a Consistent Relativistic Conception of Truth”

Lorenz Puntel, University of Munich

Tuesday, 2 November 2004

“Who is a Modeler?”

Michael Weisberg, University of Pennsylvania

Friday, 5 November 2004

“On the Gärdenfors Impossibility Theorem”

Neil Tennant, Ohio State University

Tuesday, 9 November 2004

“Ockham's Razor and the Highway to the Truth: a Kinky Resolution of the Realism Debate”

Kevin T. Kelly, Carnegie Mellon University

Friday, 12 November 2004

“On Weapons (and War) Research”

John Forge, Griffith University

Tuesday, 16 November 2004

December 2004

“De-linearising Mathematical Notation”

Thomas Forster, University of Cambridge

Tuesday, 7 December 2004

“Descartes' Regulae in the Light of his Early Mathematics”

Ken Manders, University of Pittsburgh

Friday, 10 December 2004

January 2005

“Extrapolation, Capacities, and Mechanisms”

Daniel Steel, Michigan State University

Friday, 14 January 2005

“Action Explanation, Weakness of the Will and Bounded Rationality”

Antonio Zilhao, Lisbon University

Tuesday, 18 January 2005

“Holism and Nonsupervenience in Quantum Mechanics”

Martin Thomson-Jones, Oberlin College

Tuesday, 25 January 2005

“Misunderstandings About Fitness, Variance, and Skew”

Jessica Pfeifer, University of Maryland, Baltimore County

Friday, 28 January 2005

February 2005

“Semantics, Cross-Cultural Style”

Edouard Machery, University of Pittsburgh

Tuesday, 15 February 2005

“Do We Have the Right Limitative Theorems?”

Allen Hazen, University of Melbourne

Friday, 18 February 2005

“William Harvey's 'Conceptual' Teleology: Goal-directed Causation in De conceptione”

Jim Lennox, University of Pittsburgh

Tuesday, 22 February 2005

“First-Order Classical Modal Logic”

Horacio Arlo-Costa, Carnegie Mellon University

Friday, 25 February 2005

March 2005

“Towards Relativistic Quantum Histories: A Branching Space-Times Approach”

Thomas Müller, University of

Bonn

Tuesday, 1 March 2005

“Turning Point: Quine's Indeterminacy of Translation at Middle Age”

Richard Creath, Arizona State University

Tuesday, 22 March 2005

“Quine's Early Arguments Concerning Analyticity”

Gary Hardcastle, Bloomsburg University

Friday, 25 March 2005

“With Genes Like That Who Needs An Environment? Genomics' Argument Against Genetic Determinism”

Karola Stotz, University of Pittsburgh

Tuesday, 29 March 2005

April 2005

“Aristotelian Rationality”

Anselm Müller, University of Trier

Tuesday, 5 April 2005

“Analogical Reasoning in the Logical Structure of Scientific Law”

Dale Jacquette, Pennsylvania State University

Friday, 8 April 2005

“Unanswerable Questions and Unknowable Facts”

Nicholas Rescher, University of Pittsburgh

Tuesday, 12 April 2005

“Are Anti-Particles Just Particles Traveling Back In Time?”

Frank Arntzenius, Rutgers University

Friday, 15 April 2005

“Symmetry and Its Formalisms”

Alexandre Guay, University of Pittsburgh

Tuesday, 19 April 2005

VISITING FELLOWS AND SCHOLARS

Academic Year 2005–2006

Alexander Afriat

University of Urbino, Italy

Fall Term

Geometry, Force, and General Covariance

Milos Arsenijevic

University of Belgrade, Yugoslavia

Fall Term

Continuity, Infinity, Heterogeneity: The Investigation of the Point-based and Interval-based Systems of the Continuum

Aristides Baltas

National University of Athens, Greece

Fall Term

Physics as Self-Historiography in Act: Assuring the Identity Conditions for the Discipline

Gabriele De Anna

University of Udine, Italy

Academic Year

Human Action and the Biological Foundations of Ethics

Craig Delancey

SUNY, Oswego, USA

Spring Term

Reframing the Role of Cognition in Emotion

Carla Fehr

Iowa State University, USA

Spring Term

Explanatory Pluralism and Mechanistic Explanation in Biology

Malcolm Forster

University of Wisconsin-Madison, USA

Spring Term

Unification and the Holistic Nature of Scientific Evidence

Lilia Gurova

New Bulgarian University, Bulgaria

Spring Term

Theories, Models, and Experiments in the Dynamics of Scientific Knowledge

Nikolay Milkov

University of Bielefeld, Germany

Academic Year

German Influences on Bertrand Russell's Early Philosophy of Science (1896-1903)

Athanassios Raftopoulos

University of Cyprus, Greece

Spring Term

Cognitive Impenetrability of Perception and Its Philosophical Implications

Wang Wei

Tsinghua University, China

Academic Year

Scientific Explanation and Laws of Nature

Chakravartty, continued from page 7

the near future? Add to this the claim that conflicting theories can account for all the known data, or that false theories can make accurate predictions, and our comforting assumptions about scientific progress begin to seem highly questionable. Nor is it hard to find expressions of such scepticism from some of our most celebrated scientists, past and present. “When I was teaching in Cambridge,” Chakravartty recalls, “I used to quote Stephen Hawking (a local hero!) to my initially incredulous undergraduates, to the effect that the question of whether cosmological theories are true holds no meaning for him; all he is trying to do is to come up with mathematical models that are consistent with the data.”

The philosophical position consistent with those popular assumptions about science is called ‘scientific realism’: roughly speaking, the idea that our best scientific theories correctly describe both observable and unobservable aspects of the world. It is this philosophical position that Anjan is exploring, considering whether realism gives a plausible account of scientific knowledge. Indeed his recent work defends a particular formulation of realism, building on the insights of realists and antirealists alike. While he has been exploring these questions at the abstract level, he has also been exploring more specific questions in the philosophy of physics and biology as well.

During his term at the Center, Chakravartty was at work on a

book entitled *The Metaphysics of Scientific Realism*, which explores some of the basic presuppositions of the realist stance. Realists, for example, often argue for the truth or approximate truth of scientific descriptions by assuming certain views about our causal contact with the things we investigate, or about laws of nature, or about natural kinds. Chakravartty aims to provide a systematic account of the central assumptions needed to provide a unified account of realism.

And when not writing books or teaching his students about the prospects for scientific realism? “I love music and film and have extremely wide-ranging tastes in both—from punk to baroque, and from period dramas to science fiction extravaganzas.” Alas, he declares that, though he still occasionally strums a few chords, “the excesses of my glam-rock period are now well and truly in the past.” So too, thanks to injured knees, are his days of playing soccer. But with a turn of phrase only a Canadian could find natural, he confided that he still follows soccer with an “appropriately moderate passion.”

Apply Now for 2006–07 Visiting Fellowships

The Center for Philosophy of Science supports research in the philosophy of science and related areas. The Center hosts about a dozen visiting scholars each year. Visiting Fellows have no formal duties, but their research involves them in the intellectual life of the Center and so affords them the opportunity for extended contact with scholars and scientists of similar interests and the freedom to pursue their scholarship and research in a philosophically stimulating environment. The Pittsburgh philosophical community, comprising the Center, the University of Pittsburgh’s Departments of Philosophy and of History and Philosophy of Science, and Carnegie Mellon University’s Department of Philosophy, provides an active and collegial atmosphere as well as many seminars, lectures, colloquia, workshops, and conferences throughout the year, in a city reborn as a nexus for information technology and scientific research.

The deadline for submission of applications to the Visiting Fellows Program is the 15th of December of the preceding year. This is the deadline regardless of whether you are applying for the first term, second term, or the entire academic year. For more information and details on applying, visit the Center’s Web site at www.pitt.edu/~pittcntr.

IMPORTANT DEADLINE CHANGE

Please note that the deadline for Visiting Fellow applications has changed to 15 December regardless of the term for which you are applying.



University of Pittsburgh

Center for Philosophy of Science
817 Cathedral of Learning
Pittsburgh, PA 15260

www.pitt.edu/~pittcntr

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The board consists of the Center officers and four ex officio members: the chair of the History and Philosophy of Science Department (John Norton); the chair of the Philosophy Department (James Allen); the chair of the Philosophy Department at Carnegie Mellon University (Wilfried Sieg); and the most recent past director of the Center (Gerald J. Massey).