

NOTES FROM THE DIRECTOR



Jim Lennox

The last major event of the Center's 2002-2003 year, the 4th Athens-Pittsburgh Symposium in History and Philosophy of Science and Technology, took place 1-6 June at the European Cultural Center of Delphi, near that town's magnificent archeological site in the mountains overlooking the Gulf of Corinth. As far as I know the Oracle was silent about the Center's future, but I will close with some good news on that subject. First, however, I will review some of the highlights of our past year.

This year's Athens-Pittsburgh Symposium was co-sponsored by the European Cultural Center, the Center for Philosophy of Science, the University of Athens, the National Technical University of Athens, and the Ministry of Culture of Greece. The conference closed with a keynote address by Michael Frede entitled "Aristotle on the Origins of Philosophy," delivered in the beautiful Aula of the University of Athens, followed

by a gala reception attended by representatives of all the sponsoring organizations. Provost James V. Maher accepted my invitation to represent the University of Pittsburgh at this gala event, and to my delight managed to join us in Delphi a few days earlier and partake in the symposium itself. For readers who know Jim Maher this won't be surprising—a condensed matter physicist working in the statistical physics of disorderly systems, Maher became a Resident Fellow of the Center long before taking on the job of Provost. This year's Symposium was on the theme of *Proof and Demonstration in Science and Philosophy*, and the program committee, co-chaired by Peter Machamer of the Center and Aristides Baltas of the Joint Program in Athens, had put together an exciting program. For a look at the full program, see page 23.

Another of our long-standing international collaborations produced the first major event of the year, the 6th Pittsburgh-Konstanz Colloquium in the Philosophy and History of Science, this time on the topic of *Science, Values and Objectivity*, held in Pittsburgh 3-6 October. For a recounting of this event see page 10; the full program of the conference appears on p. 21.

Before leaving the topic of international collaborations, I am pleased to announce the creation of a new one. Wenceslao González and I have for more than a year been working out

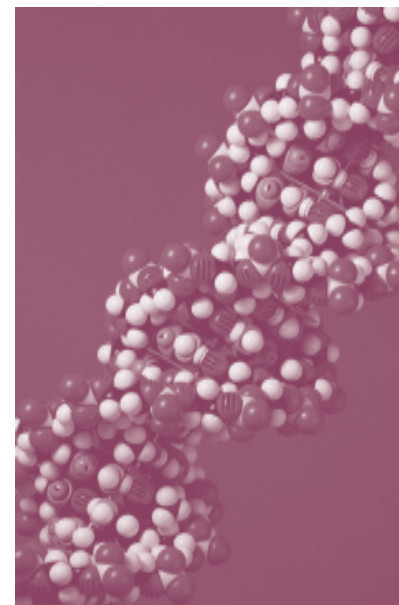
the details of a collaborative agreement between the Center for Philosophy of Science and the University of A Coruña in Spain. I am happy to report that just last month we secured all the appropriate signatures on the documents that formalize this agreement. Its purpose is to provide a framework to facilitate future collaborations and exchanges between the two Universities.

I had last seen Wenceslao in November when many of us were gathered at the biennial meeting of the Philosophy of Science Association in Milwaukee, Wisconsin. My department played a particularly prominent role in this year's PSA meetings, with Center Associate Director Sandra Mitchell chairing the program committee, and University Professor of History and Philosophy of Science John Earman giving the keynote address as outgoing President of the PSA. During the three days I spent there, I realized that current and former Resident and Visiting Center Fellows constituted a significant percentage of the gathering. And I was treated to a vivid reminder of the lifetime bonds that are often forged at the Center when I dined with members of the self-styled 'Class of '83'—George Gale, Ron Giere, Tom Nickels, James Woodward and John Worrall—and listened as they swapped stories about their year at the Center.

Closer to home, the Center continues to expand its ties with the

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arts community in Pittsburgh. We collaborated with the Mattress Factory's yearlong celebration of the art of James Turrell, and once again collaborated with the Bayer Foundation in sponsoring a lecture by the director of Pitt's Asian Studies Center, musicologist Bell Yung. For the details of this past year's efforts to transform people's views about the relationship between art and science, see p. 9.

Not all news of the past year was good news, however. The Center Fellowship suffered two tragic losses during this past year. Rob Clifton passed away on 31 July 2002, at the age of 38, after a valiant struggle with intestinal cancer. Rob had been one of the Center's Associate Directors until illness forced him to resign. In May the Center joined in sponsoring "New Directions in the Foundations of Physics: A Memorial Conference for Rob Clifton (1964 - 2002)," held at the American Institute of Physics, College Park, MD, 2 - 4 May 2003, organized by Rob's close friend and Center Associate Jeffrey Bub. We remember Rob in this issue of the Bulletin on p. 3. Another Resident Fellow of the Center, Heda Segvic of the Philosophy Department, passed away on 12 March 2003 at the age of 45, after a long struggle with a rare neurological condition. She was a graduate of Princeton's Classics and Philosophy program and a specialist in Ancient Philosophy. A memorial service in her honor is planned in conjunction with the annual Princeton Colloquium in Ancient Philosophy,

6 - 7 December 2003. Both of these colleagues died in the early stages of exciting, innovative careers in their respective fields.

For the past two years, as many of this Bulletin's readers know, Jim Bogen has been ably assisting me as a part-time Program Coordinator at the Center. When he agreed to do this two years ago he indicated to me that it would be a 1-2 year commitment. So it was with regret but not surprise that I accepted Jim's resignation from that position this spring. I take this opportunity to thank him for the good ideas and the good humor that he brought to the Center, both of which we will miss. We have redesigned this position for a graduate assistant, and on 1 September 2003 Brian Hepburn, a Ph.D. candidate in History and Philosophy of Science, will take over as the Center's part-time Program Coordinator. And while on the subject of the Center Staff, I am pleased to announce that Joyce McDonald was promoted to an Administrator I position this year. All of you who have had Joyce solve your problems with cheerful efficiency over the years will agree with me that this promotion is both richly deserved and overdue.

As most of you are no doubt aware, on May 15th of this year Adolf Grünbaum celebrated his 80th birthday, shortly before going off to give the 2003 Leibniz lectures at the University of Hannover in Germany, 25-27 June. The Center couldn't wait until May 15th, so we had a celebratory 'Adolffest' on 12

April. It was truly a joyous occasion, a detailed accounting of which can be found on p. 7; the full program, and many photographs, can also be found in the Archived Events page of the Center website.

I mentioned in the process of discussing the 4th Athens-Pittsburgh Symposium that Provost James Maher had attended the conference and represented the University of Pittsburgh at the gala event that closed the conference. A month earlier I had met with him to report on the Center's activities, as I do regularly during the year. At the end of that meeting, he stunned me by announcing his intention to provide sufficient additional funding to the Center's permanent operating budget to achieve my goal of funding the Visiting Fellows program from the Center's permanent budget. This has been a top priority since becoming Center director, and I take the opportunity these notes afford me both to announce this wonderful news to the fellowship and to publicly thank the Provost for this most recent example of his unstinting support for the Center.

Let me conclude by looking forward. Three years ago, the 4th Quadrennial International Fellows Conference took place south of the Equator for the first time, in San Carlos de Bariloche, Argentina. In 2004, the 5th will take place in Eastern Europe for the first time, near Krakow, Poland, 26-30 May 2004. We are very excited to contribute in our own small way to the unification of Europe. The event will be

hosted by former Polish Fellows Jan Wolenski, Barbara Tuchanska and Zofia Rosinska, and the organizing committee also includes Tomasz Placek of Poland, Gereon Wolters of Germany, Miklós Rédei of Hungary and Freidrich Stadler of Austria. Mark your calendars and plan to attend and renew your ties to the fellowship. Pat and I look forward to seeing you all there!



IN MEMORIAM ROBERT KENNETH CLIFTON



The Center Fellowship suffered a tragic loss this past year with the passing of our dear colleague Rob Clifton on 31 July 2002, at the age of 38, after a valiant struggle with intestinal cancer. Born in Fort Erie, Ontario, Canada to Mary and Ken Clifton in July of 1964, Rob took his first degree in physics at the University of Waterloo (1986) where he met his future wife, Marilyn. They went to Cambridge University where she received an M.Phil. in Divinity while Rob completed his Ph.D. (1991), in History and Philosophy of Science, under the supervision of former Center Fellow Michael Redhead. After a two year research fellowship at Christ's College, Cambridge he was appointed as an assistant professor of philosophy at the University of Western Ontario. He moved to the University of Pittsburgh in January of 1997 as Associate

Professor of Philosophy, with a secondary appointment in HPS. Soon thereafter he accepted an invitation to become a Resident Fellow of the Center for Philosophy of Science, and upon becoming director of the Center in 1997 I invited Rob to become an Associate Director, a role he played, with characteristic energy and good humor, until illness forced him to step down in 2001.

Rob will be remembered as a leading contributor to the field of the philosophy of quantum theory. He had a talent for collaborative research, as evidenced in his many co-authored publications. He took special pleasure in working with students, and he inspired them to their own best work.

He was also an extremely active and creative member of the philosophy of science commu-

nity, the founding subject editor for philosophy of physics for the on-line *Stanford Encyclopedia of Philosophy*, and editor of *Studies in History and Philosophy of Modern Physics*, the leading journal in its field. As one of the Center's team of Associate Directors and an Officer of the Center, Rob brought his creativity, enthusiasm, and good humor to many Center functions, and was eagerly looking forward to working on its publishing mission. The day that he and John Norton burst into my office to sell me on the idea of establishing our field's first web-based, pre-print server is one of my fondest memories of Rob. As always, his enthusiasm was infectious—the sale took about 30 seconds. And thus *The PhilSci Archive* was born. He brought creativity, good judgment, and good fellowship to the Center, and we miss him deeply.

Rob is survived by his wife Marilyn and their children Ben and Clare. Memorial donations may be made to: "Marilyn Clifton in trust for Ben and Clare Clifton," c/o Mr. Jack Walsh, 268 Maple Ave, Pittsburgh PA 15218 (412-760-8282; walshjack@aol.com).

For a detailed overview of Rob Clifton's career, I recommend the obituary published in *Studies in History and Philosophy of Modern Physics* 34 (2003) pp. 1-3. In early May the Center co-hosted a Memorial Conference for Rob at the University of Maryland. You can view the conference program on the University of Maryland's Foundations of Physics website: <http://carnap.umd.edu/philphysics/calendar.html>.

JGL

2002–2003 VISITING FELLOWS



Donald Ainslie

Donald Ainslie is an Associate Professor of Philosophy and Member of the Joint Centre for Bioethics at the University of Toronto. His current research explores David Hume's conception of the science of man and its connection to his scepticism. A second research project is an investigation of the philosophical foundations of bioethics.

Donald is an avid swimmer, and has recently started weight-training in an attempt to lower his time for the 100 meter butterfly. He is also the proud owner of a golden retriever and was happy to trade dog stories with Karen during his time at the Center in the fall of 2002.



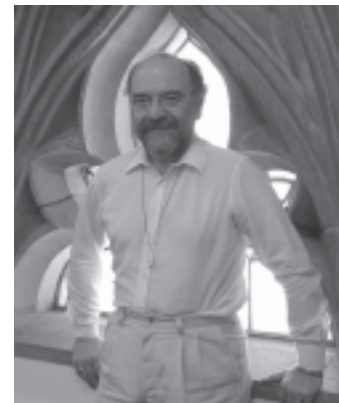
Andreas Blank

Andreas Blank earned his Ph.D. in 1998 at the Center for Philosophy and Philosophy of Science at the University of Konstanz. Since then, he has held Visiting Lecturer positions at the Humboldt University of Berlin and the Free University of Berlin. His research interests focus on seventeenth century metaphysics and philosophy of science and on the history of early analytic philosophy. He is the author of a monograph about the logical structure of Leibniz's metaphysics (*Der logische Aufbau von Leibniz' Metaphysik*, Berlin-New York: De Gruyter, 2001), as well as numerous articles on the philosophy of Leibniz and the early Wittgenstein. His current research projects concern the role of the Stoic conception of *pneuma* in the development of Leibniz's theory of matter, and the influence of the constructivism in Neo-Kantian philosophy of science on Wittgenstein's early philosophy of logic.



Phil Dowe

Phil Dowe is a senior lecturer in Philosophy at the University of Queensland and formerly of the University of Tasmania. His book, *Physical Causation*, was published in 2000 by Cambridge University Press. His research interests, besides causation, include chance, identity, time and the interaction between science and religion. He is currently writing a book on Time Travel.



Thomas Forster

Thomas Forster was born in a famous haunted house in Cambridge (England) in 1948. He read music and philosophy at UEA, trained as an EEG technician in New Zealand (in Dunedin and Auckland, where he also studied composition at the Auckland Conservatorium) and did a Ph.D. in mathematics at Cambridge where he now teaches mathematics, philosophy and computer science, and these areas are spanned by his research interests. An introductory textbook, *Logic, Induction and Sets*, and a monograph on the logic of reductionism, *Reasoning about virtual entities*, are coming out this year. He spent his time at the Center writing a book with Piers Bursill-Hall on the history and logic of imaginaries in mathematics, and a book on BQO theory (don't ask). He is a keen (though not very competent) pianist, and although no athlete has played cricket regularly for the Computer Laboratory team in the Cambridge University league for many years (no 10 bat, bowls wrist-spin) and once did two bungee jumps. He is married and has two grown-up stepdaughters. Ambition: to write a good locked-room murder.

Janneke van Lith, photo and text not available.

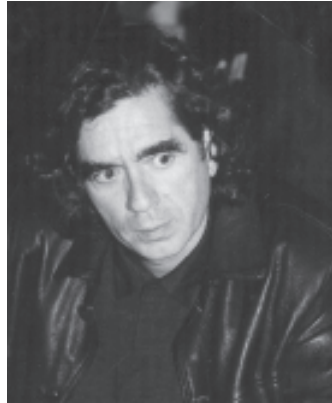


Joke Meheus

Joke Meheus is a Postdoctoral Fellow of the Fund for Scientific Research – Flanders (Belgium). She obtained her Ph.D. in 1997 at the Centre for Logic and Philosophy of Science of Ghent University where she is still pursuing her research.

Having dreamed of becoming a professional musician in a former life, Joke still loves being on stage, whether to give talks or to teach. Her work centers on the design of non-standard logics and on their applications in the philosophy of science. She is fascinated by the perspectives some recently developed logics open for the formal study of reasoning and by the problems they generate for the foundations of logic. Having a strong need to be creative, she considers herself lucky to be working in one of those rare periods of ‘revolutionary science.’

During her stay in Pittsburgh, Joke was finishing a book on the methodological study of scientific discovery. She will remember the Center as one of the most friendly and stimulating places she ever visited and secretly hopes that, one day, she will be able to return for a second term.



Drakoulis Nikolinakos

Drakoulis Nikolinakos’s central academic interests are in philosophy of mind, philosophy of psychology, and cognitive science. Topics of interest are the problem of consciousness, reductive and non-reductive materialism, and the nature of self-consciousness. Minor academic interests are in philosophy of art, theory of art, and eastern medical/psychological theories.

His non-academic interests are mostly in contemporary painting, sculpture, and experimental music. He is also involved in the making of art objects such as paintings, mixed media constructions, and digital art.



John Roberts

John T. Roberts is an alumnus of the Pitt Philosophy Department and is now Assistant Professor of Philosophy at the University of North Carolina at Chapel Hill. To date, most of his work has been on laws of nature. While at the Center, he worked on a series of connected papers concerning general issues in the philosophy of physics: how the theoretical concepts of fundamental physical theories get endowed with content; what one must do in order to produce an intelligible interpretation of such a theory; what role is played by physical laws within such theories; and what constraints should be imposed on philosophical accounts of physical laws. His cat Tina is constantly trying to get him to spend more time working on the history of early modern philosophy. Though he resists her nagging most of the time, he did complete a paper on Leibniz’s views of space and time during his stay at the Center. When the philosophizing day is done, he enjoys contra dancing (which has nothing to do with Nicaraguan rebels) and Cajun dancing (which has something to do with Cajuns).

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.

- Lindley Darden
(University of Maryland)
- Adolf Grünbaum
(University of Pittsburgh)
- James Lennox
(University of Pittsburgh)
- Patricia Lennox
- Peter Michael
- Sandra Mitchell
(University of Pittsburgh)
- Warren Schmaus
(Illinois Institute of Technology)
- William Stark
- Kazuhisa Todayama
(Nagoya University)

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.

DANIELA BAILER-JONES

Visiting Fellows Profile: A Model Fellow



Some of the most iconic images of our age are models of scientific phenomena—the three-dimensional multi-colored double-helix model of DNA; the solar system models representing the structure of the atom; and models of the human brain that look like wiring diagrams. Computer models of the earth’s weather systems are a regular feature of the evening news. Yet as familiar as they are, models are very puzzling. And as Dr. Daniela Bailer-Jones can attest, they don’t become less so after you have studied them intensely. But having spent a semester at the Center for Philosophy of Science doing so, she feels she has made significant progress. She is also spreading the word. Early on in her visit she organized an informal reading group looking at various philosophical discussions of scientific models attended by both faculty and graduate students.

Having previously taken an M.Phil. degree in radioastronomy, Daniela continued in history and philosophy of science. In this subject she received a Ph.D. from Cambridge Uni-

versity in 1998, during which time she met and married her husband Dr. Coryn Bailer-Jones. She, Coryn, and their four-year-old son Ezra were originally scheduled to join us from University of Bonn a year earlier, but a heroic battle with cancer forced Daniela to postpone her fellowship. It is thus a very special pleasure for us to hear her infectious laugh in the halls of the Center this year.

Bailer-Jones’s interest in scientific models stems from a desire to grasp their roles in helping us to understand the world around us. She sees the use of models as a particularly systematic way of capturing and describing natural phenomena. She is suspicious of philosophical accounts of scientific models that are not in contact with actual scientific practice, and thus focuses on the concrete development of models, for example by astrophysicists trying to understand radio sources. In addition to looking at published uses of such models, she also interviews scientists in order to find out what they think models are and what they use them for.

Before they are publicly accessible in journals or on the Internet, Bailer-Jones reminds us, scientific models are cognitive tools, aids in helping us think about the difficult and complicated world around us. Bailer-Jones is thus also systematically investigating research in the cognitive sciences, and especially cognitive psychology, to see if it sheds light on the scientific use of models.

She is especially hopeful that recent work in cognitive psychology on visual representations and on child development will have more or less direct application to her work. This has a possibly paradoxical consequence, since a quick look at that work reveals that it makes pervasive use of...models!

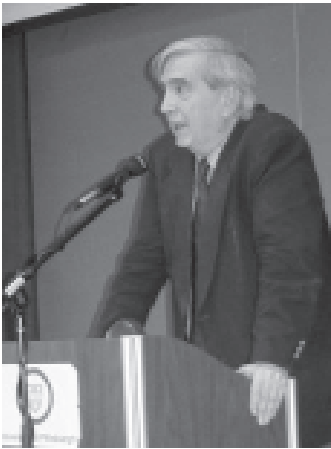
Like all models, scientific models are often incomplete and highly idealized, i.e. offering us incomplete and stylized representations of the phenomenon that is modeled. Mathematical models, for example, can be highly abstract and idealized by comparison with the phenomena they are intended to model. Moreover, there are often known inconsistencies between two models in a single area of science. What intrigues Dr. Bailer-Jones is that, despite these apparent shortcomings, models nevertheless continue to be crucial tools in the tool kit of the working scientist. She speculates that it is not only in areas of science where there are serious gaps in our understanding that models play an important role; they allow us to think fruitfully both where we lack a coherent and detailed account of nature and where we have one.

Looking ahead, she plans to study, within the context of developmental psychology, models that describe causal-mechanical relations. Certain models often seem to develop narratives about how one thing brings about another, and this seems somehow to help us understand what is going on—

even when we are well aware that the events being modeled happen simultaneously! Riding a bike is a useful model! You push down the pedal, and as you do the back wheel starts moving. Nevertheless we often describe such events by telling a mechanical story—you push down the pedal, it (then) turns the cogwheel that (then) moves the chain. The chain (then) turns the axle of the back wheel of the bike that (then) starts turning. Unlike a model such as the static, three-dimensional double helix, these causal mechanical models are intended to help us better understand the causal relationships among the components of a natural system. This way of thinking is so ingrained in the modern scientific worldview that it desperately needs the critical reflections of a philosopher of science. It is a source of pride at the Center that we were able to give Daniela Bailer-Jones the time to reflect on scientific models. Her enthusiasm has proved infectious as her laugh.

JGL

ADOLFFEST: A CELEBRATION OF ADOLF GRÜNBAUM'S 80TH BIRTHDAY



On April 12th, forty-three years after Adolf Grünbaum came to Pittsburgh and a month shy of his 80th birthday, Jim Lennox convened a memorable birthday celebration sponsored by the Center, HPS, the Department of Philosophy, and the Office of the Provost. The afternoon opened with accolades from Chancellor Mark Nordenberg; reminiscences of the early years of the Center from longtime friend and collaborator Professor emeritus Al Janis; the presentation of a scrapbook of greetings from absent friends around the world; and most appropriately, an afternoon-long philosophical feast. Professor John Worrall of the London School of Economics' Center for Phi-

losophy of Natural and Social Sciences; Professor Philip Quinn, a former student of Adolf's from the University of Notre Dame's Philosophy Department; and Professor Jeremy Wakefield of the Philosophy Department at Rutgers University delivered talks on subjects

of the Center website at <http://www.pitt.edu/~pittcntr>.

In his opening presentation, Worrall proposed an answer to questions raised by Adolf's refutation of Sir Karl Popper's account of the difference between ad hoc and progressive treatments of anomalies. Adolf

limiting case of the theory that removes the anomalies.

Quinn defended the theistic cosmologists' question of why there is something rather than nothing against Adolf's insistence that the question is spurious. Adolf's extensive reply argued in part that Quinn's defense places an unbearable burden of proof on the theistic cosmologist.

Wakefield, who was presenting a paper co-authored with Professor Morris Eagle of Adelphi University (who due to illness regretfully could not be present), argued that far from saving psychoanalytic theory from Adolf's criticisms, the so-called New View in Psychoanalysis actually concedes Grünbaum's objections and makes psychoanalytic theory vulnerable to new ones.

The intellectual feast was followed by a gustatory one of



to which Adolf has made lasting contributions and on which he continues to work. Adolf's vigorous responses stimulated lively discussions that continued through the official program and on into the evening. The full program (see p. 22) and more pictures of the event can be seen on the Events page



began discussion by questioning whether Worrall's attempt to revive the distinction was an improvement over the traditional idea that the original theory should be preserved as a

food, drink, and fellowship at a reception/birthday celebration, during which Provost James Maher led a toast to Adolf.



JBB

GENES WORKSHOP



The weekend of 18-19 January saw the first of two workshops organized by Center Associate Director Dr. Paul E. Griffiths and Dr. Karola C. Stotz as part of the “Representing Genes” project funded by the STS division of the National Science Foundation and by the University Center for International Studies. Twelve biologists, historians, and philosophers from Pittsburgh and 13 from other institutions in the US and overseas gathered to design a questionnaire study to test claims

about change and diversification in the concept of the gene as a result of the rapidly changing understanding of the genetic material emerging from molecular biology. Participants worked in focus groups to design specific sections of the questionnaire and will meet for a further workshop in 2004 to review and analyze the results of the study. More information about the meeting is available on the project website: <http://www.pitt.edu/~kstotz/genes/genes.html#Workshops>.

PEG

NEH SUMMER INSTITUTE: VALUES AND SCIENCE

Peter Machamer and Sandra Mitchell were awarded an NEH Grant to host a summer institute for university and college teachers on *Science and Values* at the University of Pittsburgh, 23 June – 25 July 2003. The event had local sponsorship from the Center for Philosophy of Science and the Faculty of Arts and Sciences. Thirty participants from around the country were selected from a pool of applications to spend five weeks debating the content and roles of values in science. In addition to Machamer and Mitchell, five distinguished lecturers lead the discussions. They were Hugh Lacy, Swarthmore Col-

lege; Michael Ruse, Florida State University; Dominick Murphy, California Institute of Technology; Alison Wylie, Barnard College; and Kristin Shrader-Frechette, Notre Dame.

Many people, though not all, take science to be the most reliable means for understanding the world. Because its methods are supposed to be objective, science claims to offer an accurate representation of our world. This is the source of the authority of science and warrants its use in shaping our personal and collective decisions. Enlightenment philosophers strongly advocated a view of

science as a body of special methods uniquely well-suited, because of their objectivity, to produce knowledge that could improve the human condition.

Various critics of science - social constructivists, feminists, postmodernists, and multiculturalists - have questioned the objectivity of science and challenged its authority. Scientists are socially located in a culture as consumers, mothers, fathers, men, women, members of ethnic minorities, émigrés, and the like. And though the pursuit of knowledge for its own sake is admirable, much, if not most, of science is di-

rected at solving specific problems of social and economic import. Scientific work is funded by nations and firms with ideologies and profit motives. Science is embedded in a worldview that is riddled with value-laden assumptions.

The institute participants immersed themselves in the question of the role and impact of values on scientific activity.

SDM

THE CENTER'S COLLABORATIONS WITH THE ARTS

In 1998 the Center for Philosophy of Science, the Bayer Foundation's "Making Science Make Sense" program, and the Carnegie Science Center initiated an annual series of public lectures focusing on the ways in which the study of the history and philosophy of science does, indeed, help make science make sense. The following year these lectures became an integral part of the CSC's Sci-Tech Fest, a week-long celebration of science and technology supported by Bayer. During the 2001 series, we chose to focus on the science of light, in order to expand our collaboration to include the Carnegie Museum of Art, then hosting their highly acclaimed exhibition, *Light! In the Industrial Age*. In addition to two lectures at the Science Center, we thus organized two lectures at the Museum of Art on the links between the sciences of optics and astronomy, on the one hand, and photography and painting, on the other.

In 2002, Pittsburgh's innovative art gallery Mattress Factory had taken notice of this collaboration. They were mounting a year-long series of events in conjunction with their exhibition, *James Turrell: Into the Light*. MF Education Director Jennifer Baron invited the Center for Philosophy of Science to collaborate with MF in this cel-

ebration of Turrell's work. Turrell's art, which uses light as its material, owes a great deal to the "ecological" approach to visual perception originated by his teacher, James J. Gibson. And since Center Associate Director Peter Machamer and I have long-standing interests



in Gibson's ideas I quickly accepted. A videotape of an interview with Turrell which I conducted became part of the exhibition, and a printed transcription became part of the exhibition catalogue. On 29 September, the Center and the Mattress Factory co-presented a forum at the Mattress Factory entitled *Seeing Yourself See*, featuring presentations by Peter Machamer (*Objects, Light*

and Self); Emory University physicist Sidney Perkowitz (*Embodied Light: Visions and Reality*); and Pitt's new Andrew W. Mellon Professor of Contemporary Art History and Theory, Terry Smith (*Art into Light: Turner to Turrell*).

(For more on this year-long project see www.mattress.org/contact/index.html.)

Our collaboration with the Bayer Foundation program continued as well. This year, the Sci-Tech Fest theme was "Science and Sound." As part of this theme, on 14 April the Center co-sponsored a lecture at the Carnegie Music Hall by the head of Pitt's Asian Studies Center, Professor Bell Yung. His presentation actually tied our programs of the last two years to this year's theme, for he described a fascinating personal odyssey from the study of the physics of light to the study of the classical music of China—his current passion.

All of these collaborations put into action one of the Center's goals, breaking down the artificial barriers between the humanities and the sciences, restoring the classical ideal of the "liberal arts" (which of course included the mathematical sciences, which of course included harmonics and optics!).

JGL

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.

6TH MEETING OF THE PITTSBURGH–KONSTANZ COLLOQUIUM

Science, Values, and Objectivity

3 – 6 October 2002

Co-organized by the Center for Philosophy of Science, University of Pittsburgh and the Zentrum Philosophie und Wissenschaftstheorie, University of Konstanz

Scholars from around the world met in Pittsburgh in October 2002 to debate the role and legitimacy of varying types of values in scientific practice. Broadly speaking, the sessions at the conference dealt with three distinct questions regarding the role of values in science: Are there distinctively cognitive or “epistemic” values that play a role in the choice of scientific theories, and if so are these values objective, in some sense?; Are there other sorts of values—moral, social, cultural—that play a role in science?; And if there are, does the presence of these types of values always, never, or sometimes lead to “bad” science? One aim of the conference organizers was to invite speakers representing a wide spectrum of different answers to these questions—defenders and critics of “social objectivity,” defenders and critics of the distinction between cognitive and social values, defenders and critics of “normative naturalism,” and so on. Another was to have a balance between presentations focused on the philosophical debate over such questions and presentations that focused on the practice and application of science in specific areas of public policy, law, and

social science. The Pittsburgh-Konstanz format, involving as it does a mix of European and North American scholars, promoted both a diversity of philosophical approaches and a range of distinct political and legal contexts within which the role of values in scientific practice and application could be examined. The program of the conference can be seen on p. 21, and papers based on the presentations at PK-6 will be published by The University of Pittsburgh Press.

SDM

5TH QUADRENNIAL INTERNATIONAL FELLOWS CONFERENCE

The Legacy and Present Day Contributions of Middle European Philosophers and Scientists

26–30 May 2004

Rytro, Poland

a picturesque town
in the beautiful Poprad River Valley
in the Beskidy mountain range
near the Slovakian border, just south of Kraków

Past and present Fellows who wish to participate should fill out the conference forms which were e-mailed to you.

For further information, contact Joyce at pittcntr@pitt.edu



NEWS FROM PAST VISITING FELLOWS

March 2002 to March 2003

Evandro AGAZZI

(University of Genoa)

Books: ed. with E. Weber, *Philosophie et tolérance/Philosophy and Tolerance - Actes des Entretiens de Rabat*, Philosophica, 2002; ed. with L. Montecucco, *Complexity and Emergence*, World

Scientific, 2002
Articles: "La tolérance en tant qu'enjeu éthique fondamental de notre époque," *Philosophica*, 65, 2002; "El desafío de la interdisciplinariedad: dificultades y logros," *Revista Empresa y Humanismo*, V 2/2, 2002; ed. with L. Montecucco, "What is Complexity?," *Complexity and Emergence*, World Scientific, 2002

Presentations: "Sciences cognitives et anthropologie philosophique," Meeting of the International Academy for Philosophy of Science, Paris (Sorbonne), June 2002; "How can the problems of an ethical judgment on science and technology be correctly approached?," 2nd International Con-

gress of Technoethics, Barcelona, November 2002; "La pauvreté dans le contexte de la dignité humaine," Philosophy day of UNESCO, Paris (UNESCO), November 2002

Current project: *The axiological context of science: Values enter in the constitution of science: Not*

Piper, Midwife, Mentor: Obituary for Thomas A. Sebeok," Annual meeting of Semiotic Society of America, San Antonio, October 2002

Awards: Fulbright, Department of Semiotics, University of Tartu, Estonia, 2003

University Press, 2003

Presentations: "Humor in Online Romantic Relationships," The April Fools' Day Workshop on Computational Humor, Trento, Italy, 2002; "Happiness in Cyberspace," International Society for Research on Emotions, Cuenca, Spain, 2002; "Emotions on the Net," ETHICOMP 2002, Lisbon, Portugal, November 2002

Current project: *Emotions in Cyberspace*

Thomas BONK

(University of Munich)

Books: Ed., *Truth, Language, and Knowledge. Contributions to the Philosophy of Rudolf Carnap*, Kluwer Academic Publishers, 2002/3

Articles: "Scepticism Under New Colors? Stroud's Criticism of Carnap," *Truth, Language, and Knowledge. Contributions to the Philosophy of Rudolf Carnap*, T. Bonk, ed., Kluwer Academic Publishers, 2002/3

Presentations: "Conceptions of Reality: Schilck, Carnap, Neurath," Workshop on Otto Neurath's Work, Cracow, 6 October 2002; "Skepsis und Verifikation," Lecture at the University of Munich, Munich, 6 October 2002

Current project: *Scepticism, Epistemology*

Bryson BROWN

(University of Lethbridge)

Articles: "Paraconsistent Classical Logic," *Paraconsistency: The Logical Way to the Inconsistent-Proceedings of the II World Congress on Paraconsistency 2000*, W.A. Carnielli, M.E. Coniglio, and I.M.L.D. Ottaviano, eds., Marcel Dekker, New York, 2002; "Approximate Truth," *Inconsistency in Science*, J. Meheus, ed., Kluwer: Dordrecht/Boston/London, 2002; "On Paraconsistency," Part XII, entry 39, *A Companion to Philosophical Logic*, Dale Jaquette, ed., Blackwell Publishers, Malden, Massachusetts and Oxford, UK, 2002

Award: Principal Fellow in the Department of Philosophy, University of Melbourne, Melbourne VIC, January-July 2002



Scientific, 2002

Articles: "La tolérance en tant qu'enjeu éthique fondamental de notre époque," *Philosophica*, 65, 2002; "El desafío de la interdisciplinariedad: dificultades y logros," *Revista Empresa y Humanismo*, V 2/2, 2002; ed. with L. Montecucco, "What is Complexity?," *Complexity and Emergence*, World Scientific, 2002

Presentations: "Sciences cognitives et anthropologie philosophique," Meeting of the International Academy for Philosophy of Science, Paris (Sorbonne), June 2002; "How can the problems of an ethical judgment on science and technology be correctly approached?," 2nd International Con-

only cognitive values (that are commonly recognized especially as theory comparison is concerned), but also social, ethical, political, religious values. They concern the "doing" of science and its global "sense." The chief problem is that of taking them in due account without jeopardizing scientific objectivity.

Myrdene ANDERSON

(Purdue University)

Books: ed. with A. Saenz-Ludlow, S. Zellweger, and V. Cifarelli, *Educational Perspectives on Mathematics as Semiosis: From Thinking to Interpreting to Knowing*, Ottawa: Legas Publishing, 2003

Presentations: "Trickster, Pied

Current project: Continuing ethnoecological research among Saami reindeer-breeders in Norwegian Lapland

Aaron BEN-ZE'EV

(University of Haifa)

Books: *Love Online: Emotions on the Internet*, Cambridge University Press, 2003

Articles: "Emotions Are Not Feelings," *Consciousness & Emotion*, 3, 2002; "Emotions as a General Mental Mode," *Thinking about Feeling: Contemporary Philosophers on Emotion*, R. Solomon, ed., Oxford University Press, 2003; "The Logic of Emotions," *Philosophy and the Emotions*, A. Hatzimoysis, ed., Cambridge Uni-

Current project: *Designing Explanations: A critical examination of design explanations in cosmology and biology*

Daniel BURSTON

(Duchesne University)

Articles: "Scheler, Nietzsche & Social Psychology," *Journal of the Society for Existential Analysis*, 14.1, January 2003; "Erik Erikson and the Impossible Profession," *The Psychoanalytic Review*, 89.4, August 2002; "Psychoanalysis & Subjectivity in Erich Fromm," *Understanding Experience: Psychotherapy & Postmodernism*, Roger Frie, ed., Routledge: London, 2003

Current project: *Ego, Ethics, and Evolution: Erik Erikson & The Impossible Profession*

Emilia CALVO

(University of Barcelona)

Books: "Ibn al-Kammad's astronomical work in Ibn al-Ha'im's al-Zij al-Kamil," *Science and Technology in the Islamic World. Proceedings of the XXth International Congress of History of Science*, (Liège, 20-26 July 1997) vol. XXI, S.M. Razauallah Ansari, ed., Turnhout Brepols, 2002

Presentations: "La labor de difusión de la cultura árabe por Alfonso X y su contribución a la formación del lenguaje científico: Los Libros del Saber de Astronomía," International Colloquium "La civilización islámica en al-Andalus y los aspectos de tolerancia," organized by the Centro de Estudios Andalusíes y diálogo entre Culturas, Rabat, 12-14 March 2002; "La permanence des Traités de Miqat au Maghrib : VIIIe - IXe siècles H. /XIVe - XVe siècles J.C.," 7ème Colloque Maghrébin d'Histoire des Mathématiques Arabes, Marrakech, Marruecos, 30 May - 1 Juin 2002; "En torno a los inicios de la actividad científica en lengua árabe," VII trovades de la Societat Catalana d'Història de la Ciència i de la Tècnica, Barcelona, 14-17 November 2002

Awards: Elected member of the Académie Internationale d'Histoire des Sciences

Current project: *Universal astro-*

nomical instruments in al-Andalus: Ali b. Jalaf's universal plate: Edition and analysis of the only text preserved on this highly interesting instrument: the castillian translation made under Alfoso X the Wise (13th C.) of the arabic text on its construction and use

Giovanni CAMARDI

(University of Catania)

Book: *Bioinformatica e Teoria della Probabilità*, Edizioni Centrografico, Catania, 2002

Peter DAVSON-GALLE

(University of Tasmania)

Articles: "2002, 'Science, Values, and Objectivity,'" *Science and Education* Vol. 11, No. 2, 2002

Current project: whether one can coherently state the theses that all truth is to be understood as per a pragmatic theory of truth and that all truth is but relative truth

Werner DIEDERICH

(University of Hamburg)

Articles: "The Heritage of Conventionalism," *Dialogos*, 79, 2002

Presentations: "Poincare, Quine, and the Semantic Approach," 21 Feb 2003, Department of Philosophy, University of California at Irvine

Current project: *Kepler's Final Theory of the Cosmos:* In this book project I mainly deal with Kepler's Platonic synthesis of astronomy, astrology, and harmonic theory in one comprehensive system of the world, one focus being on his imagery.

Robert DISALLE

(University of Western Ontario)

Articles: "Reconsidering Kant, Friedman, Logical Positivism, and the Exact Sciences," *Philosophy of Science* 69, June 2002; "Conventionalism and Modern Physics: A Re-Assessment," *Nous*, 36:2, 2002; "Space

and time: inertial frames," *The Stanford Encyclopedia of Philosophy* (online); "Newton's Philosophical Analysis of Space and Time," *The Cambridge Companion to Newton*, I.B. Cohen and G. Smith, eds., Cambridge University Press, May 2002

Presentations: "Mathematical structure, 'world structure,' and the philosophical turning-point in modern physics," Conference on The Interaction between Mathematics, Physics, and Philosophy, 1850-1940, sponsored by the Danish Network for the History and Philosophy of Mathematics, Copenhagen, Denmark, 28 September 2003;

"Structure and Interpretation in the History of Modern Physics," Dibner Institute for the History of Science and Technology, Cambridge, MA, 12 November 2003

Awards: Senior Fellow, The Dibner Institute for the History of Science and Technology, 2002-2003

Current project: *Conceptual Analysis and the Conceptual Development of Physics:* A study of the evolution of theories of space and time from Newton to Einstein, reconsidered in light of concerns about conceptual analysis, conceptual change, and a priori knowledge.

John ERPENBECK

(QUEM, Berlin)

Books: *Kompetenzprofilung. Weiterbildungsbedarf und Lernformen in Zukunftsbranchen*, Münster, New York, München, Berlin: Waxmann, 2002; with V. Heye and L. Michel, *Handbuch Kompetenzmessung. Erkennen, bewerten, verstehen von Kompetenzen in der betrieblichen, pädagogischen und psychologischen Praxis*, Stuttgart: Schäffer & Poeschel, 2003

Articles: "Erfahrungslernen, Kompetenzentwicklung und

Kompetenzmessung, Arbeitsprozessintegriertes Lernen, Münster, New York, München, Berlin (Waxmann), 2002; "Kompetenzentwicklung in selbstorganisierten Netzwerkstrukturen," *Vernetzte Kompetenzentwicklung. Alternative Positionen zur Weiterbildung*, Berlin (edition sigma), 2002

Brigitte FALKENBURG

(University of Dortmund)

Presentations: "Die Grenzen physikalischer Erklärung," XIX Deutscher Kongress fuer Philosophie, University of Bonn, 23-27 September 2002; "How Classical and Quantum States relate: Cartwright's views of Quantum Mechanics," Workshop on Nancy Cartwright's Philosophy of Science, University of Konstanz, 16-17 December 2002

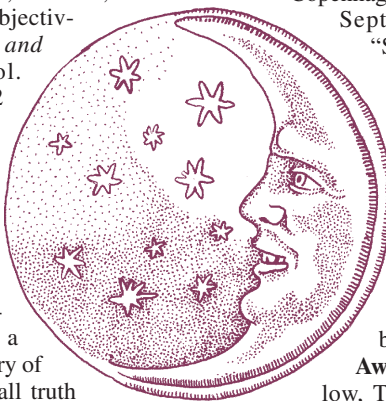
Awards: J.J. Becher-Preis 2002 der Johann Joachim Becher Stiftung zu Speyer, for the prize-essay: "Wem dient die Technik? Eine wissenschaftstheoretische Analyse der Ambivalenzen technischen Fortschritts"

Eduardo FLICHMAN

(National University of General Sarmiento)

Articles: "Degrees of Determinism and Indeterminism," *Philosophy and History of Science in the South Cone*, National University of Quilmes (Argentina), 2002; "Responsibility and Free Will: a Complex Relation," *Epistemology and History of Science - Selection of Works from the XII Meeting*, Vol. 8, National University of Cordoba (Argentina), 2002

Presentations: "Randomness vs. arbitrariness in classical statistical mechanics," International Congress: Causation and Explanation in Natural and Social Sciences (CENSS) 2002, Center for Logic and Philosophy of Science, Ghent University (Belgium), 15-18 May 2002; "Length in Classical Physics," III Meeting in Philosophy and History of Science of the South Cone, Aguas de Lindóia (San Pablo, Brazil), 27-30 May 2002; "Ontology and Free Will," Sixth Bariloche International Philosophy Colloquium 2002, San Carlos de



Bariloche (Argentina), 18-20 September 2002

Awards: Grant from University of Buenos Aires, Division Science and Technology to continue research “Causality and its projections,” Buenos Aires, 2001/2003

Current project: *Causality and its projections*: Related with determinism, causality, and free will

Allan FRANKLIN

(University of Colorado)

Books: *Selectivity and Discord: Two Problems of Experiment*, University of Pittsburgh Press, November 2002

Articles: “William Wilson and the Absorption of Beta Rays,” *Physics in Perspective*, Volume 4, Number 1 2002; “Fisica Y Experimentacion,” *Theoria*, Volume 17, Number 44, May 2002

Presentations: “CP Violation, An Example of a Convincing Experiment,” Seven Pines Symposium, 16 May 2002; “The Rise and Fall of the Fifth Force,” Heiland Lecture, Colorado School of Mines, 5 September 2002

Current project: *The Truth About Science*: A book intended for a general audience, which will include case studies from modern physics including the discovery of parity nonconservation and the early searches for gravity waves

Maria Carla GALAVOTTI

(University of Bologna)

Articles: “Harold Jeffreys’ Probabilistic Epistemology,” *British Journal for the Philosophy of Science*, 54, 2003; “On Discovery and Justification,” *La Nuova Critica*, 38, 2001 (published 2002); “Per un’epistemologia probabilistica,” *Logica e Politica. Per Marco Mondadori*, M. D’Agostino, G. Giorello and S. Veca, eds., Il Saggiatore, 2002

Presentations: “Towards a Bottom-up Epistemology,” Rationality and Pragmatism: Workshop in Honour of Patrick Suppes, Bologna, 22-23 March 2002

Current project: *European Science Foundation Scientific Network on “Historical and Contemporary Perspectives of Philosophy of Science in Europe”* (main leader Maria Carla Galavotti; coordinat-

ing committee: A. Baltas, D. Gillies, T. Kuipers, I. Niiniluoto, M. Paty, M. Redei, F. Stadler, G. Wolters)

Dimitri GINEV

(University of Sofia)

Books: *Bulgarian Studies in the Philosophy of Sciences*, Kluwer Academic Publishers, 2003

Current Project: *Hermeneutic Fore-Structuring of Scientific Research, Effective-Historical Consciousness in the Natural Sciences*

Wenceslao GONZÁLEZ

(University of La Coruña)

Books: Ed., *Diversity of Scientific Explanation*, Ariel, Barcelona, 2002; Ed. with G. Marques and A. y Avila, *Philosophic-methodological approaches in Economics*, FCE, Madrid, 2002

Articles: “A Characterization of ‘Scientific Explanation’ and Kinds of Scientific Explanations,” *Diversity of Scientific Explanation*, W.J. Gonzalez, ed., Ariel, Barcelona, 2002; “An Analysis of Rationality and Approach on Prediction in Experimental Economics,” *Philosophic-methodological approaches in Economics*, Gonzalez, Marques, and y Avila, eds., FCE, Madrid, 2002; “Towards a New Foundation of Documental Analysis,” *Theoretical Basis of Documental Analysis: The Quality of aims, processes and results*, A. Bereijo, ed., Ediciones Boletín Oficial del Estado-Publicaciones Universidad Carlos III, Madrid, 2002

Presentations: “The many faces of Popper’s methodological approach to prediction,” Popper Centenary Conference, Congress organized by the University of Canterbury, Christchurch, New Zealand, 13 July 2002

Current project: *Bounded rationality in economics: the improvement of Reinhard Selten’s conception in comparison of Herbert Simon’s approach*: It seeks to offer several aspects of the improvement on bounded rationality of experimental economics in comparison with behavioral economics.

Alan GROSS

(University of Minnesota, Twin Cities)

Books: With Joseph E. Harmon, and Michael Reidy, *Communicating Science: The Scientific Article from the 17th Century to the Present*, Oxford University Press, 2002; With Ray Dearin, *Chaim Perelman*, SUNY Press, 2002

Stephan HARTMANN

(University of Konstanz)

Articles: With Luc Bovens, “Bayesian Networks and the Problem of Unreliable Instruments,” *Philosophy of Science*, 69, March 2002; “On Correspondence,” *Studies in History and Philosophy of Modern Physics*, 33B, March 2002; with Luc Bovens, Branden Fitelson, and Josh Snyder, “Too Odd (Not) to be True: A Reply to Olsson,” *British Journal for the Philosophy of Science*, 53, September 2002

Presentations: “Explanation, Reduction and Fundamental Physics,” Annual Philosophy of Science Conference, Dubrovnik, Croatia, April 2002; “Explanatory Pluralism Made Coherent,” International Congress “Causation and Explanation in Natural and Social Sciences,” Ghent, Belgium, May 2002; “Parameterizing the Atomic Nucleus: Explanation, Prediction, and the Role of Intertheoretic Coherence,” PSA 2002, Milwaukee, WI, USA, November 2002

Current project: *Philosophical Applications of Probability Theory*: The project applies the method of probabilistic modeling to problems in the philosophy of science, epistemology, and social choice theory.

Michael HEIDELBERGER

(University of Tübingen)

Articles: “The Mind-Body Problem in the Origin of Logical Empiricism: Herbert Feigl and Psychophysical Parallelism,” *Logical Empiricism: Historical and Contemporary Perspectives*, Paolo Parrini, Wesley C. Salmon, and Merrilee H. Salmon, eds., University of Pittsburgh Press, 2003; “Theory-Ladenness and Scientific Instruments in Experimentation,” *The Philosophy of Scientific Experimentation*, Hans Radder, ed., University of Pittsburgh Press, 2003

Presentations: “La psychologie expérimentale à la fin du XIX: ce que la philosophie des sciences lui doit,” Pour connaître le XIXe, Science et philosophie des sciences à la fin du siècle, Genève, November 2002; “Les racines de la théorie de l’identité de Feigl dans la philosophie et dans la psychophysologie du 19ème siècle,” Université Nancy 2, Colloque; “H. Feigl, De la physique au mental”, May 2002; “Theoriebeladenheit der Beobachtung und wissenschaftliche Instrumente im Experiment (nebst einem Anhang zur Psychologie),” Working group “Philosophisches Denken und philosophische Praxis” of the Berlin-Brandenburg Academy of the Sciences, March 2002

Giora HON

(University of Haifa)

Articles: “Gödel, Einstein, Mach: Die Vollständigkeit physikalischer Theorien,” *Kurt Gödel Wahrheit und Beweisbarkeit; Band 2: Kompendium zum Werk*, B. Buldt, E. Köhler, M. Stöltzner, P. Weibel, C. Klein, and W. Depauli-Schimanovich-Göttig, eds., Hölder-Pichler-Tempsky, 2002; “The Idols of Experiment: Transcending the ‘Etc. List’,” *The Philosophy of Scientific Experimentation*, H. Radder, ed., University of Pittsburgh Press, 2003

Presentations: “Gödel, Einstein, Mach: Constraining completeness of physical theory,” Sixth International Conference on the History of General Relativity, Amsterdam, the Netherlands, June 2002

Awards: Alexander von Humboldt Fellowship, Max Planck Institute for the History of Science, Berlin, June - September 2002

Current project: *Generating experimental knowledge: experimental systems, concept formation, and the pivotal role of error*: Seeking novel approaches to the problem of scientific experimentation by focusing on the very role of experiment as a knowledge-generating procedure

Paul HOYNINGEN-HUENE

(University of Hannover)

Books: *Science, Traditional*

Knowledge, and Sustainable Development, ICSU and UNESCO, ed., International Council for Science, 2002

Articles: "Paul Feyerabend und Thomas Kuhn," *Journal for General Philosophy of Science*, 33(1), 2002; "Philosophie im Gartenbau?," *Erwerbsobstbau*, 44(5), 2002; "Über einige Megatrends in der Philosophie des 20. Jahrhunderts," *Rise and Fall of Megatrends in Science*, M. Leuthold, H. Leuenberger, E.R. Weibel, eds., Schwabe, 2002

Presentations: "The Legacy of Thomas Kuhn in the History and Philosophy of Science," Symposium: The Legacy of Thomas Kuhn, University of East Anglia, Norwich, UK, 28 Aug 2002; "The Legacies of Thomas Kuhn," HSS annual conference, Milwaukee, USA, 9 Nov 2002

Andrew IRVINE

(University of British Columbia)
Books: *On Enlightenment*, Andrew Irvine, ed., New Brunswick (USA) & London (UK): Transaction, 2003

Aharon KANTOROVICH

(Tel Aviv University)
Book: *From the Amoeba to Einstein*, University of Haifa Press, 2002

Current project: *Symmetries and Structures - Dematerialization of Matter*: I discuss the ontological status of internal symmetries in particle physics. I introduce the notion of physical structure as a system encompassing a network of interrelated laws of nature.

Malcolm MACMILLAN

(Deakin University)
Articles: "Phineas Gage," *Encyclopedia of the Human Brain* Vol. 3, V. M. Ramachandran, ed., Academic Press (San Diego, CA), 2002; "Charcot, Jean-Martin (1835-1893)," *The Freud Encyclopedia: Theory, Therapy, and Culture*, E. Erwin, ed., Garland (New York), 2002; "Janet, Pierre (1859-1947)," *The Freud Encyclopedia: Theory, Therapy, and Culture*, E. Erwin, ed., New York: Garland, 2002

Awards: International Society for the History of the Neurosciences inaugural prize for *An Odd Kind*

of Fame: Stories of Phineas Gage as the book making the most outstanding and original contribution to the history of the neurosciences in the period between 1999 and 2001, 2002; Visiting Fellow, McDonnell Centre for the Cognitive Neurosciences, Oxford University, March to June 2002

Current project: *William Macewen's use of localising signs in brain surgery*: I am using archival material to investigate the claim that William Macewen used localising signs to plan his brain surgery before the famous operation of Bennett and Godlee in 1884.

Patrick MAHER

(University of Illinois)
Articles: "Joyce's Argument for Probabilism," *Philosophy of Science*, v. 62 #1, 2002

Presentations: "What is Probabilism?," Philosophy Department colloquium, University of Alberta, June 2002

Current project: *Foundations of probability*

Klaus MAINZER

(University of Augsburg)
Books: *AI Artificial Intelligence. Foundations of Intelligent Systems*, Wissenschaftliche Buchgesellschaft: Darmstadt, 2003

Articles: "Cellular Neural Networks and Visual Computing," *International Journal of Bifurcation and Chaos in Applied Sciences and Engineering*, Volume 13 Number 1, January 2003; "Cellular Neural Networks and the Evolution of Complex Information Systems in Nature and Society," *Cellular Neural Networks and their Applications*, Ronald Tetzlaff, ed., World Scientific Singapore, 2002; "Time in Complex Systems," *Bild der Wissenschaft*, 12/2002, December 2002

Presentations: "Complexity: A New Paradigm of Nanoscience," invited lecture at USC Columbia, Columbia (USA), August 2002; "Future View of Life and Technology," invited lecture at the German Center of Air- and Space-Flight (Deutsches Zentrum für Luft- und Raumfahrt), Cologne, May 2002; "Time in Dynamical Systems," invited lecture at the Berlin-Brandenburg Academy of Science, Berlin, November 2002

Awards: Invitation (April 2002) for the Editorial Board of the International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, edited at UC Berkeley (Dept. of Electrical Engineering and Computer Sciences), published by World Scientific Singapore.

Current project: *Evolutionary and Intelligent Vehicle Architectures* (Project with the DaimlerChrysler Competence Center): In order to manage the increasing complexity of future vehicle architectures, procedures from biology, sociotics, and artificial intelligence are transferred to solve problems in the field of automotive electronics.

David MALAMENT

(University of California, Irvine)
Books: Editor, *Reading Natural Philosophy* (Essays Dedicated to Howard Stein on His 70th Birthday), Open Court Press, 2002

Articles: "A No-Go Theorem About Rotation in Relativity Theory," *Reading Natural Philosophy*, D. Malament, ed., Open Court Press, 2002

Current project: I am currently writing a paper on the notion of time reversal invariance.

Diego MARCONI

(University of Piemonte Orientale)
Articles: "Verificationism and the Transition," *Wittgenstein and the Future of Philosophy*, R.Haller and K.Puhl, eds., Wien, 2002; "Verificationism in the Tractatus?" *Tractatus logico-philosophicus: Sources, Themes, Perspectives*, P. Frascaola, ed., Università della Basilicata, Italy, 2002

Presentations: "Two-Dimensional Semantics and the Articulation Problem," IV European Conference of Analytic Philosophy, Lund (Sweden), 14 June 2002

Current project: *Wittgenstein and Verificationism*: A study of Wittgenstein's attitude to and use of different forms of verificationism through his philosophical career

Michele MARSONET

(University of Genoa)
Books: Ed., *The Problem of Realism*, Ashgate, 2002
Articles: "The Limits of Realism,"

The Problem of Realism, Michele Marsonet, ed., Ashgate, 2002

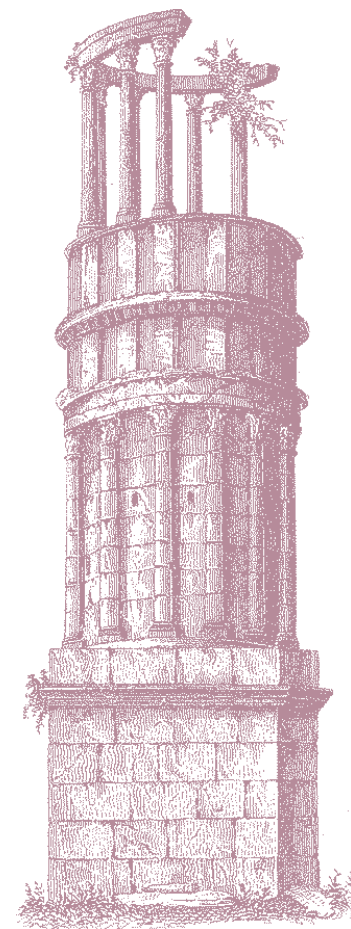
Current project: *Scientific realism and the common sense view of the world*

Nicholas MAXWELL

(University College London)
Books: Ed., *The Comprehensibility of the Universe: A New Conception of Science* (paperback edition), Oxford University Press, 15 January 2003

Articles: "Is Science Neurotic?" *Metaphilosophy*, vol 33, no. 3, April 2002; "Science and meaning: why science can coexist with consciousness," *The Philosophers' Magazine*, Issue 18, Spring 2002, "Two Great Problems of Learning," *Teaching in Higher Education*, vol. 8, January 2003

Presentations: "A possible solution to a part of the hard problem of consciousness," Toward a Science of Consciousness Conference,



Tuscon, Arizona, 8 April 2002; "The Enlightenment Programme and Karl Popper," Karl Popper 2002 Centenary Congress, Vienna, Austria, 4 July 2002; "The Problem of Theoretical Unity in the Philosophy of Physics," The 11th UK Conference on the Conceptual Foundations of Physics, Oxford, UK, 13 September 2002

Current project: A book entitled *Is Science Neurotic?*: Neurosis is reinterpreted as a methodological condition arising whenever problematic aims are misrepresented. Science is neurotic in this sense because of unacknowledged metaphysical, value, and political assumptions in its aims.

Juergen MITTELSTRASS

(University of Konstanz)

Books: *Wissenschaft und ethische Maße*, Tartu: Tartu Ülikooli Kirjastus, 2002; *Die Modernität der klassischen Universität*, Marburg: Universität Marburg, 2002; *Die Geisteswissenschaften und die Zukunft der Universität*, Köln: Dr. Otto Schmidt, 2002

Articles: "Oskar Becker und Paul Lorenzen: die Begegnung zwischen Phänomenologie und Konstruktivismus," *Die Philosophie und die Wissenschaften. Zum Werk Oskar Beckers*, eds. with A. Gethmann-Siefert, Munich: Wilhelm Fink, 2002; "Die Aristotelische Metaphysik," *Klassische Werke der Philosophie. Von Aristoteles bis Habermas*, R. Brandt and T. Sturm, ed. Leipzig: Reclam, 2002; "The Future of Aging," *European Review. Interdisciplinary Journal of the Academia Europaea* 10 (2002); "Leibniz-Welten. Leibniz zur Hermeneutik von Konstruktion und Deutung," *Nihil sine ratione. Mensch, Natur und Technik im Wirken von G. W. Leibniz* (VII. Internationaler Leibniz-Kongress), ed. H. Poser, Berlin: Technische Universität Berlin, 2002

Awards: In 2002 I became a member of the Pontifical Academy of Sciences (Pontificia Academia Scientiarum) in the Vatican and President of the Academia Europaea, the European Academy of Sciences (London). I also became the Chairman of the Board of Trustees of the Schering Foundation.

Current project: Second edition

of volume I of the *Enzyklopaedie Philosophie und Wissenschaftstheorie*.

Jesús MOSTERÍN

(Institute of Philosophy, CSIC)

Books: With Roberto Torretti, *Diccionario de Lógica y Filosofía de la Ciencia*, Alianza Editorial, 2002; *Epistemología y racionalidad*, Editorial UIGV, Lima, 2002

Articles: "Examen del principio antrópico en cosmología," *Diálogos* (Puerto Rico), no.79, 2002; "Acceptance and Belief," *Acta Institutionis Philosophiae et Aestheticae* (Tokyo), vol. 19, 2002; "Kolmogorov Complexity," *Complexity and Emergence*, Agazzi & Montecucco, eds., World Scientific Publishing Co., 2002

Presentations: "Beyond metaphors of thinking," International Symposium of the IAPS on Cognitive Science, Paris, 19-23 June 2002; "Genetic Homology and Human Singularity," V International Ontology Congress, San Sebastián, 2-6 October 2002

Dan NESHER

(University of Haifa)

Books: *On Truth and the Representation of Reality: A Collection of Inquiries from a Pragmatist Point of View*, University Press of America, October 2002

Articles: "Peirce's Essential Discovery: 'Our Senses as Reasoning Machines' Can Quasi-prove our Perceptual Judgments," *Transactions of Charles S. Peirce Society*, Vol. XXXVIII, No. 1/2, Winter/Spring 2002

Presentations: "The Pragmatic Conceptions of 'fact,' 'true proposition,' and 'truth-conditions': Our Knowledge of External Reality," Fourth European Congress for Analytic Philosophy, Lund University, Sweden, 14-18 June 2002; "Aesthetic Beauty is a True Representation of Reality," Israeli Philosophical Association Conference, Tel-Aviv University, Israel, 13 February 2003

Current project: *The Epistemology of Art and Literature: Aesthetic Beauty is a True Representation of Reality*: My general thesis is that any human cognition is a meaningful representation of reality through the confrontation with it, including artistic and literary aesthetic

works, and that our feeling of the beauty of aesthetic works is the indication that they are the aesthetically true representation of reality. The problem is to explain epistemologically how this feeling of beauty indicates the truth of the aesthetic representation of reality.

Robert NOLA

(University of Auckland)

Books: *Rescuing Reason: A Critique of Anti-Rationalist Views of Science and Knowledge*, Kluwer Academic Publishers, January 2003

Articles: "Realism Through Manipulation, and by Hypothesis," *Recent Themes in the Philosophy of Science: Scientific Realism and Common Sense*, S. Clarke and T. Lyons, eds., Dordrecht, Kluwer Academic Publishers, 2002

Awards: Marsden Fund Grant, New Zealand, 2001-3

Current project: A book with Guro Irlitz entitled: *Science Education in Philosophical and Cultural Aspects*

Helmut PAPE

(University of Bamberg)

Books: *C. S. Peirce: Das Denken und die Logik des Universums*, translation and edition of Peirce's "Reasoning and the Logic of Things," Cambridge Conference Lectures von 1898, (English edition by H. Putnam and K.L. Ketner, Harvard UP 1992), Suhrkamp Verlag, 2002

Articles: "What Indexical Signs Really Do: Categories, Self-Similarity, and Relations in Peirce's Account of Indexicality," *Indexicality and Idealism II: The Self in Philosophical Perspective*, P. Ulrich et.al., eds., Mentis Verlag, Paderborn, 2002; "Wovon war eigentlich die Rede? Missverstehen als Scheitern von Identitätsunterstellungen," *Übersetzung als Medium der Integration und des Kulturverstehens*, J. Renn, J. Straub, S. Shimada, eds., Campus Verlag, Frankfurt, 2002; "What Thought is For. The Problematic Identity of Mental Processes with Chance Events in Peirce's Idealistic Metaphysics," *Transactions of the C. S. Peirce Society*, Vol. XXXVIII, Nr. 1/2

Awards: Three year Deutsche Forschungsgemeinschaft-grant for

the edition of the 1903 Lowell-Lectures on Logic as vol. 25 of the "Writings of C.S. Peirce"

Paolo PARRINI

(University of Florence)

Books: *Sapere e interpretare. Per una filosofia e un'oggettività senza fondamenti*, Guerini e Associati, Milano, 2002; *L'empirismo logico. Aspetti storici e prospettive teoriche*, Carocci editore, Roma, 2002; Ed., *Conoscenza e cognizione. Tra filosofia e scienza cognitiva*, Guerini e Associati, Milano, 2002

Articles: "Incompreso, o quasi, dagli Americani [K. R. Popper: "Il più grande epistemologo mai esistito"?]," *Reset* (Karl Popper oggi. A cento anni dallanascita), Luglio-Agosto 2002, Numero 72; "Popper e Carnap su marxismo e socialismo," *Nuova Civiltà delle Macchine*, 20, n. 2, 2002

Presentations: "Crisi dell'evidenza e verità: due modelli epistemologici a confronto," workshop "La questione della verità. Filosofia, teologia, scienze," Bologna, 10-11 May 2002; "Preli filosofo dei valori," international workshop "Giulio Preti a trent'anni dalla scomparsa," Castiglioncello (LI), 17-19 October 2002; "Preli nella cultura filosofica italiana della seconda metà del Novecento," workshop "Giulio Preti (1911-1972). Un filosofo europeo," Firenze, 14 November 2002.

Massimo PAURI

(University of Parma)

Articles: "Dynamical Body Frames, Orientation-Shape Variables, and Canonical Spin Bases for the Non-Relativistic N-Body Problem," *Journal of Mathematical Physics*, 43, 3, March 2002; "Centers of Mass and Rotational Kinematics for the Relativistic N-Body Problem in the Rest-Frame Instant Form," *Journal of Mathematical Physics*, 43, 4, April 2002; "Ephemeral Point-Events: Is There a Last Remnant of Physical Objectivity?" *DIALOGOS*, 79, (Festschrift in Honor of the 70th Birthday of Roberto Torretti), September 2002

Current project: *General Covariance and the Objectivity of Space-Time Point-Events: The*

Physical Role of Gravitational and Gauge Degrees of Freedom in General Relativity: Main result (already partially in draft): utilization of the Bergmann-Komar pseudo-coordinates as intermediate gauge-fixings to the superhamiltonian and supermomentum constraints. This procedure embodies the physical individuation of space-time points in terms of the intrinsic degrees of freedom of the gravitational field (Dirac observables).

Carlo PENCO

(University of Genoa)

Books: Editor, *La scelta contestuale*, McGraw Hill Italiana, 2002

Articles: "Holism, Strawberries, and Hairdryers," *Topoi*, 21, 2002; "Olismo e molecularismo," *Olismo*, Massimo Dell'Utri, ed., Quodlibet, Roma, 2002; "Contesto, normatività e contrattazione semantica," *Conoscenza e Cognizione, tra filosofia e scienza cognitiva*, Paolo Parrini, ed., Guerini, Milano, 2002

Presentations: "Dummett on idiolects," Visiting, Columbia University, March 2003; "Idiolect and Context," Erasmus visiting, London, at King's College, 29 May 2003; "Sense and context," Italo-german meeting in analytic philosophy, Heidelberg, 23-25 January 2003

Awards: Visiting Professor, Reykjavik, September 2002; President of Italian Society of Analytic Philosophy, Italy, October 2002

Current project: *Mistake and context*: What is considered "mistake" depends on context. On the other hand a mistake refers to a norm. Some theories of dialogue context are based on the idea that misunderstandings depend on mistakes about the objective context and the goals of the discourse. However I want to point out the consequences of two facts: (i) not all misunderstandings can be considered "mistakes" (ii) the recognition of a mistake is given inside a process of (semantic) bargaining.

Cassandra PINNICK

(Western Kentucky University)

Articles: "Nicholas Malebranch," *Absolutism and the Scientific Revolution 1600-1720: A Biographical Dictionary*, Christopher

Baker, ed., Greenwood Press, 2002

Presentations: "Logic, Law, and Science," Invited lecture and seminar, Faculty of Philosophy and Letters, University of Guanajuato, Mexico, February 2002

Awards: 2002 Faculty Recipient, Sasakawa Fellowship for Japanese Studies

Current project: *Modernizing Japan's Criminal Code c. 1900*

Fritz ROHRLICH

(Syracuse University)

Articles: "Causality, the Coulomb field, and Newton's law of gravitation," *Amer. Journal of Physics*, 70, April 2002; "The validity limits of physical theories," *Physics Letters, A* 295, April 2002; "Dynamics of a classical quasi-point charge," *Physics Letters, A* 303, 2002

Current project: *Cognitive Scientific Realism II*: continues and concludes a previous paper by the same title published in *POS 68* (June 2001). Defines 'truth of a scientific theory', argues for retention of mature theories and against reductionism, exhibits examples of 'theory coherence' between different levels, and gives reasons for belief in scientific realism rather than instrumentalism.

Howard SANKEY

(University of Melbourne)

Articles: "Qu'est-ce que le réalisme scientifique?" *Reseaux*, 94-6, 2002; "Book Reconsidered: T.S. Kuhn, The Structure of Scientific Revolutions," *Australian and New Zealand Journal of Psychiatry*, 36:6, 2002; Book Review: A. Bird, Thomas Kuhn, *The Philosophical Quarterly*, 52: 209, 2002

Presentations: "Why is it rational to believe that scientific theories are true?" Center for Philosophy and Ethics of Science, University of Hannover, Germany, 24 October 2002; Department of Philosophy, University of Bielefeld, Germany, 13 November 2002; Belgian Society for Logic and Philosophy of Science, Brussels, Belgium, 23 November 2002

Laszlo SZABO

(Eotvos University)

Books: *The problem of open future: chance, causality, and determinism in physics* (in Hungarian), Typotex Kiadó, Budapest, October 2002

Articles: With Arthur Fine, "A local hidden variable theory for the GHZ experiment," *Physics Letters, A* 295, April 2002; With G. Hofer-Szabó and M. Rédei, "Common-causes are not common common-causes," *Philosophy of Science*, 69,

December 2002; "On Fine's Interpretation of Quantum Mechanics: GHZ experiment," *Modality, Probability and Bell's Theorems, NATO Science Series, II, Vol. 64*, T. Placek and J. Butterfield, eds., Kluwer, Dordrecht, 2002

Current project: *A radically formalist and physicalist approach to mathematics and logic*: A brief formulation of my thesis has been recently published in L.E. Szabó, *Formal Systems as Physical Objects: A Physicalist Account of Mathematical Truth, International Studies in the Philosophy of Science* (forthcoming). Such a radical approach has interesting and important consequences in the philosophical analysis of Gödel's theorems and other foundational questions of mathematics.

Neil TENNANT

(Ohio State University)

Articles: "Ultimate Normal Forms for Parallelized Natural Deductions, with Applications to Relevance and the Deep Isomorphism between Natural Deductions and Sequent Proofs," *Logic Journal of the IGPL*, vol. 10, no. 3, May 2002; "Deflationism and the Gödel-Phenomena," *Mind*, vol. 111, 443, July 2002; "The Emperor's New Concepts," *Philosophical Perspectives*



tives, vol. 16, November 2002

Presentations: "The Emperor's New Concepts," NYU Seminar in Mind and Language, New York, March 2002; "A General Theory of Abstraction Operators," Arché International Conference in Philosophy of Mathematics, St. Andrews, Scotland, August 2002
Current project: *A Computational Theory of Belief-Revision*: An investigation of the epistemological, mathematical, and computational issues involved in a general account of how best to contract and revise systems of belief, especially when these are conceived as finitary systems for the purposes of algorithmic processing. Important features: an argument that there is no loss of generality in concentrating on the finitary; a precise explanation of minimal mutilation; and the NP-completeness of the decision problem for contraction

Soshichi UCHII

(Kyoto University)

Books: *The Ethics of Science*, Maruzen, April 2002

Articles: "From the Origin of Morality to the Evolutionary Ethics," *Evolutionary Games and Their Development*, Y. Saeki and T. Kameda, eds., Kyoritsu, October 2002

Presentations: "Is Philosophy of Science Alive in the East? A Report from Japan," Center for Philosophy of Science, 40th Anniversary Lecture Series, University of Pittsburgh, 14 March 2002; "The Ethics for the Scientist," Kyoto Forum, Warin-an, Kyoto, 20 September 2002; "Tracing Einstein's Road from Special to General Relativity," Autumn Lecture Series, Kyoto University, 16 October 2002

Current project: *Philosophy of Space and Time*: I have finished a book on Einstein's construction of general relativity and on its critical appraisal from the absolutist and the relationalist positions.

Jean Paul VAN BENDEGEM

(Free University of Brussels)

Articles: "Finitism in Geometry," *The Stanford Encyclopedia of Philosophy* (Spring 2002 Edition), Edward N. Zalta, ed., url = <http://plato.stanford.edu/entries/geometry-finitism/>, The Metaphysics Research Lab at the Center for the

Study of Language and Information, Stanford University, Stanford, CA, 2002; "Why the largest number imaginable is still a finite number," *Logique et Analyse*, 42, 1999 (date of publication: 2002); "Inconsistencies in the history of mathematics: The case of infinitesimals," *Inconsistency in Science*, Joke Meheus, ed., Dordrecht: Kluwer Academic Publishers, 2002

Current project: *What if anything is alternative mathematics?:* Is it imaginable that mathematics in western culture could have been developed entirely differently from what we know today? The project's aim is to defend a positive answer.

Alex VISKOVATOFF

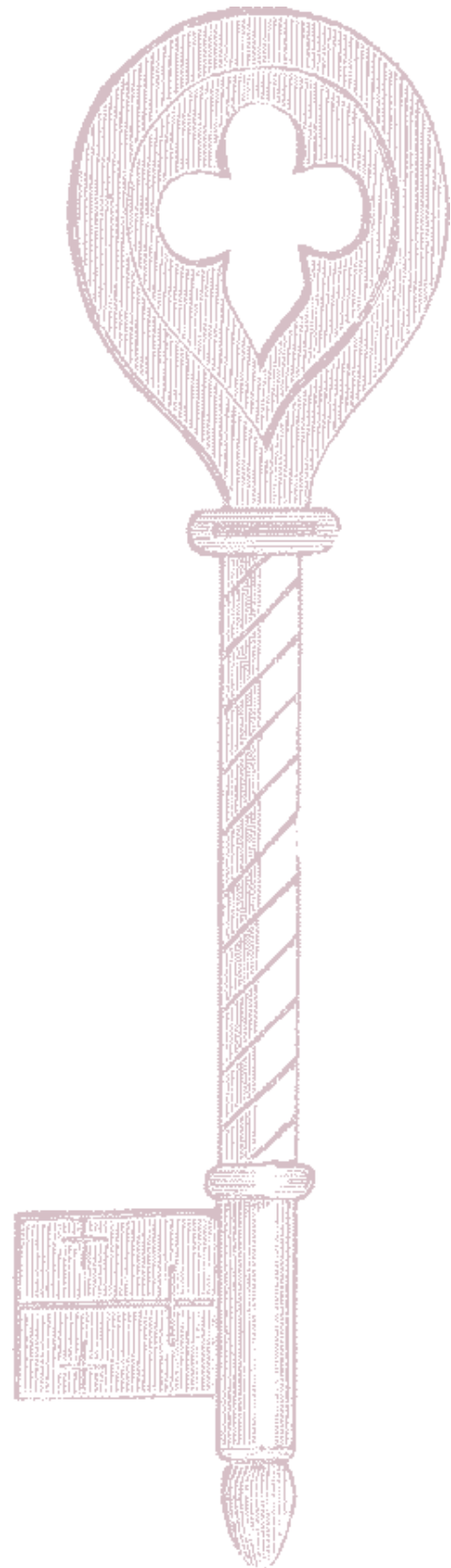
(University of Pittsburgh)

Articles: "Searle's Background: Comments on Runde and Faulkner," *Journal of Economic Methodology*, 9/1, March 2002; "Critical Realism and Kantian Transcendental Arguments," *Cambridge Journal of Economics*, 26/6, November 2002; "Searle, Rationality, and Social Reality," *The American Journal of Economics and Sociology*, 62/1, January 2003

Presentations: "Rationalism and Mainstream Economics," Presented at the Biennial Meeting of the International Network for Economic Method, Stirling, Scotland, September 2002; "Hayek and Kant on Liberty and Autonomy," Southern Economic Association Annual Meeting, New Orleans, November 2002; "Three Philosophical Presuppositions of Mainstream Economics," Faculty of State Sciences, The University of Erfurt, Erfurt, Germany, 12 December 2002

Awards: Maria Sibylla Merian Research Fellowship, University of Erfurt, Erfurt, Germany, July-August, December 2002.

Current project: Book project *Critique of Economic Reason*: Critiques the main philosophical presuppositions of mainstream economics from the point of view of Kantian philosophy of science and Hegelian political philosophy.



NEWS FROM RESIDENT FELLOWS

March 2002 to March 2003

German BARRIONUEVO

Articles: With N.N. Urban, G. Gonzalez-Burgos, D. A. Henze, and D.A. Lewis, "Selective Reduction by Dopamine of Excitatory Synaptic Inputs to Pyramidal Neurons in Primate Prefrontal Cortex," *Journal of Physiology* (London), 539.3, 2002; with D. McMahon, "Short and Long-Term Plasticity of the Perforant Path Synapse in Hippocampal Area CA3," *Journal of Neurophysiology*, 88, 2002; with G. González-Burgos, S. Kröner, L.S. J. Krimer, K. Seamans, N.N. Urban, D. A. Henze, and D. A. Lewis, "Dopamine Modulation of Neuronal Function in Prefrontal Cortex," *Physiology and Behavior*, 77, 2002

Awards: National Alliance for Research on Schizophrenia and Depression Independent Investigator Award, *Calcium Dynamics Evoked by "Natural" Long-range Synaptic Activity in Local Circuits of Monkey Prefrontal and its Modulation by Dopamine*, 15 September 2002 - 15 August 2004

Current Project: Dr. Barrionuevo's laboratory investigates the properties of electrophysiological, biophysical, and use-dependent plasticity of glutamatergic synaptic transmission in two cortical regions: (1) the rodent hippocampus, and (2) the primate prefrontal cortex.

Adolf GRÜNBAUM

Articles: "Critique of Psychoanalysis," *The Freud Encyclopedia*, Edward Erwin, ed., Routledge, New York and London, 2002; "Theological Misinterpretations of Current Physical Cosmology," *The Existence of God*, Richard M. Gale and Alexander R. Pruss, eds., Dartmouth and Ashgate Publishing Companies, Hants (U.K.) and Burlington, VT, February 2003

Presentations: Keynote Address: "Autobiographical-Philosophical Narrative" at "Adolf Grünbaum Symposium in Honor of the Works of Professor Adolf Grünbaum," held at the Center for Philosophical Education, 18-19 October 2002, Santa Barbara, CA; "A Précis of

Wesley C. Salmon's Intellectual Odyssey and Enduring Achievements," Wesley C. Salmon 1925-2000, A Symposium Honoring His Contributions to the Philosophy of Science, 2002 Biennial Meeting of the Philosophy of Science Association, 8 November 2002, Milwaukee, WI

Awards: "The Adolf Grünbaum Symposium in Honor of the Works of Professor Adolf Grünbaum," held at the Center for Philosophical Education, 18-19 October 2002, Santa Barbara, CA

Current Project: *Philosophy of Science in Action*, two volumes to be published by Oxford University Press

Anil GUPTA

Articles: "Partially defined predicates and semantic pathology," *Philosophy and Phenomenological Research*, vol. 65, no. 2, September 2002

Awards: National Endowment for the Humanities Fellowship for University Teachers

Current Project: A book on empiricism and experience

James LENNOX

Articles: "Che bene è un adattamento?" *Iride*, vol. XV, n. 37, September-December 2002

Presentations: "Physics II. 2: what is the problem?" Werkmeister Conference on Aristotle, March 2003; "The roles of hypotheses in Aristotle's science," Athens-Pittsburgh Symposium, Delphi, Greece, June 2003; "Posterior Analytics I. 13: the mathematician and the physicist," Paris Workshop on Aristotle's Posterior Analytics, June 2003

Current project: *The conceptual and explanatory structure of Aristotle's natural science*: The goal of this research project is to determine how Aristotle's different natural investigations are related in terms of conceptual and explanatory structure in practice; and to compare this with his strictures on interdisciplinary explanatory connections in the Posterior Analytics.

Peter MACHAMER

Articles: Editor with Michael Silberstein, *Blackwell's Guide to Philosophy of Science*, Basil Blackwell, 2002; with Lisa Osbeck "Perception, Conception, and the Limits of the Direct Theory," *The Philosophy of Marjorie Grene, The Library of Living Philosophers XXIX*, Randall E. Auxier and Lewis Edwin Hahn, eds., Open Court 2002; "17th Century Demonstrations", *Ideal and Culture of Knowledge in Early Modern Europe. Concepts, Methods, Historical Conditions, and Social Impact*, Wolfgang Detel, & Klaus Zittel eds., Akademie-Verlag Berlin, Berlin 2002

Presentations: "Kuhn's Achievement, After 40 Years" and "Kuhn's Revolutions and the 'real' history of science: The case of the Galilean revolution," keynote lectures and symposium, Univeside Da Coruña (Spain), 7-8 March 2002; "Interpretation in Art; Interpretation in Science, and the Perception of Both," public lecture, Bayer Art and Science Series, Carnegie Science Center, 14 April 2002; "Objects, Light and Self," The Mattress Factory, Pittsburgh, in conjunction with James Turrell exhibit, September 2002

Awards: With Sandra Mitchell, NEH Summer Institute on Values and Science; with J.E. McGuire, Hewlett International Small Grant, UCIS, University of Pittsburgh

Current Project: *Descartes' Epistemic Stance*: a book with J.E. McGuire on how Descartes' theories of God, mind and nature change over time, and how his mature thought is found only after publication of *The Principles of Philosophy*

Sandra MITCHELL

Books: Ed. with John Earman and Clark Glymour, *Ceteris paribus Laws*, Kluwer Academic Publishers, February 2003

Articles: "Ceteris Paribus An Inadequate Representation for Biological Contingency," *Erkenntnis*, Volume 57, Issue 3, December 2002; "Contingent Generaliza-

tions: Lessons from Biology," *Akteure, Mechanismen, Modelle. Zur Theoriefähigkeit makro-sozialer Analysen*, Renate Mayntz, ed., Campus Verlag, Frankfurt, 2002

Presentations: "Life is not so Simple," 43rd Annual Lecture Series, Center for Philosophy of Science, University of Pittsburgh, 21 February 2003

Awards: Program Chair for The Philosophy of Science Association's Eighteenth Biennial Meeting, Milwaukee, Wisconsin, 7-9 November 2002; with Peter Machamer, NEH Summer Institute, Values and Science, a 5-week seminar for 30 college and university teachers (see: www.pitt.edu/~pkmach/valuesci.htm), University of Pittsburgh, 23 June - 25 July 2003

Current project: *Emergence*: I am working on the history and content of the concept of 'emergence' in both scientific and philosophical discussions. What counts as an emergent property? Are emergent properties necessarily irreducible to the activities of their component parts? What challenge does emergent order in complex systems offer to the standard notions of causality and law?

Nicholas RESCHER

Books: *Rationality, Wissenschaft, und Praxis*, Wuerzburg, Koenighausen & Neumann, 2002; *Fairness: The Theory and Practice of Distributive Justice*, New Brunswick & London: Transaction Press, 2002; *Imaging Irrreality: A Study of Unreal Possibilities*, Chicago: Open Court, 2003

Presentations: Stanley Grean Lectures, Ohio University, Spring 2002

Awards: Dr. Phil. honoris causa, Fernuniversitaet Hagen, July 2002

Current Project: A book on cognitive idealization and one presenting a series of studies on the philosophy of G. W. Leibniz

Jeffrey SCHWARTZ

Books: Series ed. and co-author with I Tattersall, *The Human Fos-*

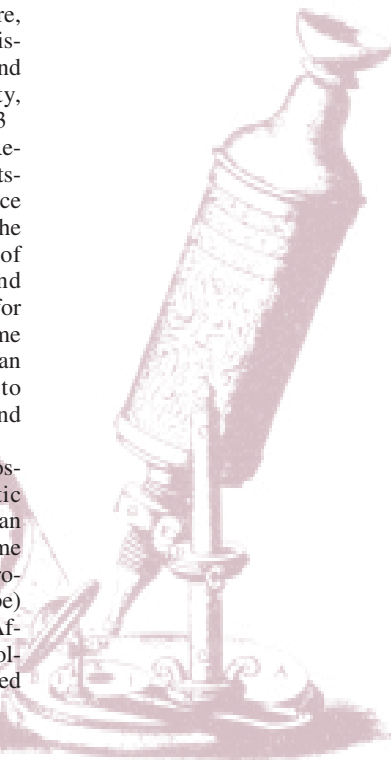
sil Record, volume 1: terminology and craniodental morphology of Genus *Homo* (Europe), Wiley-Liss, 2002, J. H. Schwartz and I. Tattersall, (co-authors and series editors)

Articles: "Is paleoanthropology science? Naming new fossils and control of access to them," *Anatomical Record (New Anatomist)*, 269, 2003; "What is evolution and can we decipher it?" *History and Philosophy of the Life Sciences*, 24, 2002; "Bodo and the concept of *Homo heidelbergensis*," *25 years of Bodo, Proceedings of the 4th Phillip V. Tobias Lecture on Human Evolution*, H. Seidler and K. Begashaw, eds., National Museum, Addis Ababa, 2002

Presentations: "Conceptualizations of time and interpretations of the fossil record," International Workshop: Space & Time in Cosmology and Biology, University of Salerno, Italy, September 2002; "On the reality of *Homo heidelbergensis*," International Atapuerca Workshop on Human Evolution, American Museum of Natural History, NYC, January 2003; "On the reality of *Homo erectus* and *Homo heidelbergensis*," Invited lecture, National Museum of Natural History (Smithsonian Institution) and George Washington University, Washington DC, February 2003

Awards: Chancellor's Senior Research Award, University of Pittsburgh, 2003; Best Single Reference work in the Sciences award in the annual American Association of Publishers of Professional and Scholarly Book awards of 2002 for *The Human Fossil Record*, volume 1, 2003; Grant from the American Museum of Natural History to study human fossils, Kenya and South Africa, 2003

Current Project: The Human Fossil Record, the first systematic study of virtually the entire human fossil record, done with the same descriptive and photographic protocols. Volume 1 (*Homo*: Europe) is published; volume 2 (*Homo*: Africa and Asia) is in press; and volume 3 is expected to be completed by the summer.



SCHEDULED CONFERENCES & WORKSHOPS

Academic Year 2003–2004

Neuroscience Workshop

Topic: Consciousness Explaining
Site: Pittsburgh
Dates: 5-6 December 2003

Genes Workshop II

(Sponsored by HPS)
Topic: Representing Genes: Testing Competing Philosophical Analyses of the Gene Concept in Contemporary Molecular Biology
Site: Pittsburgh
Dates: 20-22 February 2004

5th Quadrennial International Fellows Conference

Topic: The Legacy and Present Day Contributions of Middle European Philosophers and Scientists to the Philosophy of Science
Site: Krakow (Rytro), Poland
Dates: 26-30 May 2004

Academic Year 2004–2005

HPS Graduate Student Workshop (*Tentative*)

Topic: 17th Century Philosophy of Science
Site: Pittsburgh
Date: Fall 2004

HPS Mini-Conference

(Co-sponsored by the Center)
Topic: A Celebration of Einstein – 1905
Site: Pittsburgh
Dates: April 2005

7th Meeting of the Pittsburgh–Konstanz Colloquium

Topic: Causation in historical and contemporary perspective
Site: Konstanz, Germany
Dates: May 2005

CONFERENCES, WORKSHOPS, AND SPECIAL EVENTS

September 2002

Forum: Seeing Yourself See

co-sponsored by the Center

Site: Mattress Factory, Pittsburgh, PA

Date: 29 September 2002

Led by guest speakers from a variety of disciplines, this engaging forum explored the intersection of perception and light in the work of James Turrell and the visual arts.

Objects, Light, and Self

Peter Machamer

University of Pittsburgh

Embodied Light: Visions and Reality

Sidney Perkowitz, Charles Howard Candler Professor of Physics
Emory University

Art Into Light: Turner to Turrell

Terry Smith, Andrew W. Mellon Professor of Contemporary Art
History and Theory

University of Pittsburgh

October 2002

6th Meeting of the Pittsburgh–Konstanz Colloquium: Science, Values, and Objectivity

Site: University of Pittsburgh

Dates: 3-6 October 2002

Presentations: See complete program on p. 21

January 2003

Representing Genes, First Workshop

Site: University of Pittsburgh

Dates: 17-19 January 2003

(P. Griffiths, Investigator & K. Stotz, Research Assistant)

March 2003

HPS Lecture

Einstein Between Mozart and Schopenhauer

co-sponsored by the Center

Michel Janssen

University of Minnesota

Site: University of Pittsburgh

Date: 21 March 2003

April 2003

Adolffest – Celebration of the 80th Birthday of Adolf Grünbaum

Site: University of Pittsburgh

Date: 12 April 2003

Presentations: See complete program on p. 22

Bayer Science of Sound Lecture

Co-sponsored by the Center

Site: Carnegie Museum of Art Lecture Hall, Oakland, PA

Date: 14 April 2003

Presentation: *From the Science of Light to the Science of Music: A Personal Odyssey*

Bell Yung, Professor of Music, Director, Asian Studies Center
University of Pittsburgh

May 2003

A Memorial Conference for Rob Clifton (1964 – 2002)

New Directions in the Foundations of Physics

Site: American Institute of Physics, College Park, MD

Dates: 2-4 May 2003

June 2003

The 4th Meeting of the Athens–Pittsburgh Symposium in the History and Philosophy of Science and Technology: Proof and Demonstration in Philosophy and Science

Site: European Cultural Center, Delphi, Greece

Dates: 1-6 June 2003

Presentations: See complete program on p. 23

6TH PITTSBURGH–KONSTANZ COLLOQUIUM
Science, Values, and Objectivity
3–6 October 2002

Thursday, 3 October:

1:00-2:30 “Social” Objectivity and the Objectivity of Value

Speaker: Tara Smith (University of Texas at Austin)
 Comm.: Wolfgang Spohn (University of Konstanz)
 Chair: James Lennox (University of Pittsburgh)

2:30-3:00 Break

3:00-5:30 Symposium

Speaker: Hugh Lacey (Swarthmore College)
Is There a Significant Distinction Between Cognitive and Social Values?
 Speaker: Larry Laudan (National University of Mexico)
The Epistemic, the Cognitive, and the Social
 Comm.: Peter Machamer (University of Pittsburgh)
 Chair: Karin Boxer (University of Pittsburgh)

Friday, 4 October:

9:30-11:00 How Values Can Be Good for Science

Speaker: Helen Longino (University of Minnesota)
 Comm.: David Hyder (University of Konstanz)
 Chair: Laura Ruetsche (University of Pittsburgh)

11:00-11:30 Break

11:30-1:00 Objectifying Values in Science: A Case Study

Speaker: Mark Bedau (Reed College)
 Comm.: James Lennox (University of Pittsburgh)
 Chair: Kieran Setiya (University of Pittsburgh)

Afternoon: Tour of Frick Mansion, Estate, and Art Museum

Saturday, 5 October:

9:30-11:00 Border Skirmishes Between Science and Policy: Autonomy, Responsibility, and Values

Speaker: Heather Douglas (University of Puget Sound)
 Comm.: Sandra Mitchell (University of Pittsburgh)
 Chair: Joan Leach (University of Pittsburgh)

11:00-11:30 Break

11:30-1:00 Science–Policy and the Place of Professional Ethics in Political Decision Making

Speaker: Felix Thiele (Europäische Akademie Bad Neuenahr)
 Comm.: Mauro Dorato (University of Rome III)
 Chair: Merrilee Salmon (University of Pittsburgh)

2:30-4:00 Law and Science

Speaker: Eric Hilgendorf (University of Würzburg)
 Comm.: Lawrence Frolik (University of Pittsburgh)
 Chair: Gereon Wolters (University of Konstanz)

4:00-4:30 Break

4:30-6:00 Sociology of Values

Speaker: Peter Weingart (University of Bielefeld)
 Comm.: Nick Rescher (University of Pittsburgh)
 Chair: Andrea Westlund (University of Pittsburgh)

Evening: Banquet

Sunday, 6 October:

10:00-11:30 Transcending the Discourse of Social Influences

Speaker: Barry Barnes (University of Exeter)
 Comm.: Peter McLaughlin (Max Planck Institute)
 Chair: Jeffrey Schwartz (University of Pittsburgh)

11:30-12:00 Break

11:00-1:30 Knowledge and Control: On the Bearing of Epistemic Values in Applied Science

Speaker: Martin Carrier (University of Bielefeld)
 Comm.: Ted McGuire (University of Pittsburgh)
 Chair: John Earman (University of Pittsburgh)

ADOLFFEST

ADOLFFEST PROGRAM

Saturday, 12 April 2003
Posvar Hall, 2P56

12:30	Opening Remarks	Mark Nordenberg, Chancellor
12:45	<i>Adolf and the Center's Early Years</i>	Al Janis
1:00	<i>Adhocness and Content-Increase: Is There Life After Grünbaum?</i>	John Worrall
2:15	Coffee	
2:30	<i>Cosmological Contingency and Theistic Explanation</i>	Phil Quinn
3:45	<i>The "New View" in Psychoanalysis: A Critique</i>	Jerome Wakefield
5:15	Closing Remarks	
6:00-8:00	Reception	

THE 4TH MEETING OF THE ATHENS–PITTSBURGH SYMPOSIUM IN THE HISTORY AND PHILOSOPHY OF SCIENCE AND TECHNOLOGY:

PROOF AND DEMONSTRATION IN PHILOSOPHY AND SCIENCE

1– 6 June 2003

Delphi, Greece

This conference was dedicated to the memory of Pantelis Nicolacopoulos

Saturday, 31 May 2003

Arrival in Athens

Sunday, 1 June 2003

Morning: Bus to Delphi

Afternoon: **Axiomatics**

Chair: Vassilis Karasmanis, NTUA
Ancient: Richard McKirahan, Pomona
Early Modern: Edwin Curley, Michigan
Contemporary: Kenneth Manders, Pittsburgh
Commentator: Aristides Arageorgis, Patras

Monday, 2 June 2003

Morning: **Mechanisms**

Chair: Aristophanes Koutoungos, NTUA
Ancient: Aryeh Kosman, Haverford
Early Modern: Peter Machamer, Pittsburgh
Contemporary: Stathis Psillos, Athens
Commentator: Kostas Pagondiotis, Patras

Afternoon: **Examples and Exemplars**

Chair: John Cooper, Princeton
Ancient: Katerina Ierodiakonou, NTUA
Early Modern: Paolo Palmieri, Pittsburgh
Contemporary: John Dupre, Exeter
Commentator: Vasso Kindi, Athens

Tuesday, 3 June 2003

Morning: **Graduate Student Session**

Chair: J.E. McGuire, Pittsburgh
Speakers: 8 students

Afternoon: Tourism

Wednesday, 4 June 2003

Morning:

Transcendental Arguments

Chair: Stavroula Tsinorema, Crete
Ancient: David Charles, Oxford
Early Modern: Patricia Kitcher, Columbia
Contemporary: John McDowell, Pittsburgh
Commentator: Stelios Virvidakis, Athens

Afternoon:

Reasoning by Models or Analogy

Chair: Ioli Patellis, Patras
Ancient: Patricia Curd, Purdue
Early Modern: Daniel Garber, Princeton
Contemporary: Richard Burian, Virginia Tech
Commentator: Panagiotis Theodoru, Patras

Thursday, 5 June 2003

Morning:

Hypothetical Demonstration

Chair: Gerald Massey, Pittsburgh
Ancient: James Lennox, Pittsburgh
Early Modern: Roger Ariew, Virginia Tech
Commentator: Theodore Arabadjis, Athens

Afternoon:

Bus to Athens

Friday, 6 June 2003

Afternoon:

Olympiad Gala Event

Public Lecture
Aula, Athens
Chair: Dionysios Anapolitanos, Athens
Speaker: Michael Frede, Oxford

Saturday, 7 June 2003

Departure from Athens

ATHENS-PITTSBURGH SYMPOSIUM PHOTOS



43RD ANNUAL LECTURE SERIES 2002–2003

The Probabilistic Foundation of Evolutionary Theory

*Robert Brandon, Duke University
(Philosophy and Biology)*
Friday, 11 October 2002, 3:30 p.m.

Outer Space and Inner Space: The New Epistemology

*Paul Churchland, University of California, San Diego
(Philosophy)*
Friday, 6 December 2002, 3:30 p.m.

The Contribution of Experience to Knowledge

*Anil Gupta, University of Pittsburgh
(Philosophy)*
Friday, 17 January 2003, 3:30 p.m.

Life Is Not So Simple

*Sandra Mitchell, University of Pittsburgh
(History and Philosophy of Science)*
Friday, 21 February 2003, 3:30 p.m.

Naturalism

*Penelope Maddy, University of California, Irvine
(Logic and Philosophy of Science)*
Friday, 14 March 2003, 3:30 p.m.

From Hydrophones to Hydrothermal Vents: The Military Roots of Basic Science

*Naomi Oreskes, University of California, San Diego
(History)*
Friday, 4 April 2003, 3:30 p.m.

44TH ANNUAL LECTURE SERIES 2003–2004

What Was Natural Philosophy in the Late Middle Ages?

*Edward Grant, Indiana University
(History and Philosophy of Science)*
Friday, 10 October 2003, 3:30 p.m.
Frick Fine Arts Auditorium

It's Not That They Couldn't: Mathematics, Ancient and Modern

Reviel Netz, Stanford University (Classics)
Friday, 14 November 2003, 3:30 p.m.
2P56 Posvar Hall

Are Infants Little Scientists? Rethinking Domain-Specificity in Conceptual Development

Jesse Prinz, University of North Carolina (Philosophy)
Friday, 5 December 2003, 3:30 p.m.
2P56 Posvar Hall

Realism About What?

Laura Ruetsche, University of Pittsburgh (Philosophy)
Friday, 16 January 2004, 3:30 p.m.
2P56 Posvar Hall

Beyond Church's Thesis: Axioms for Computability

Wilfried Sieg, Carnegie Mellon University (Philosophy)
Friday, 6 February 2004, 3:30 p.m.
2P56 Posvar Hall

Darwinian Populations and Group Selection

*Peter Godfrey-Smith, Australian National University and
Harvard University (Philosophy)*
Friday, 19 March 2004, 3:30 p.m.
2P56 Posvar Hall

Epistemic Warrant and the Value of Truth

Allan Gibbard, University of Michigan (Philosophy)
Friday, 16 April 2004, 3:30 p.m.
2P56 Posvar Hall

*Locations of lectures are subject to change.
For updated details, visit: <http://www.pitt.edu/~pittcntr>*

LUNCHTIME COLLOQUIUM 2002–2003

September 2002

13 September 2002
“On a Common Fallacy in Analytic Philosophy of Science”
Nicholas Rescher
University of Pittsburgh

17 September 2002
“Wittgenstein and Neo-Kantian Philosophy of Science”
Andreas Blank
Free University

20 September 2002
“What Interpretation Might Be?”
John Roberts
University of North Carolina

24 September 2002
“Hume’s Perceptions”
Donald Ainslie
University of Toronto

27 September 2002
“Leibnizian Simultaneity and Locality”
Phil Dowe
University of Tasmania

October 2002

15 October 2002
“Entropy and Levels of Description”
Janneke van Lith
Utrecht University

18 October 2002
“Skeptical Challenges to Self-consciousness”
Drakoulis Nikolinakos
University of Athens

22 October 2002
“Is Science Representation?: Some Reflections on Bas van Fraassen’s Empiricism”
Demetra Sfondoni-Mentzou
University of Thessaloniki

November 2002

15 November 2002
“Rehabilitating Enumerative Induction”
John Norton
University of Pittsburgh

22 November 2002
“Prospects for Discovering Gene Regulatory Networks”
Peter Spirtes
Carnegie Mellon University

December 2002

3 December 2002
“The Electrophysiological Basis of Pattern Separation in the Area Ca3 of the Hippocampus”
Germán Barrionuevo
University of Pittsburgh

January 2003

14 January 2003
“What EEGs Really Do”
Thomas Forster
University of Cambridge

21 January 2003
“Having it All: Naturalised Normativity in Feminist Science Studies”
Sharyn Clough
Rowan University

24 January 2003
“Science and Common Sense”
Nicholas Rescher
University of Pittsburgh

28 January 2003
“Representation in Scientific Modelling”
Daniela Bailer-Jones
University of Bonn

31 January 2003
“American Morphology and American Pragmatists: The Development of a Pragmatic Biology”

Keith Benson
National Science Foundation

February 2003

4 February 2003
“Copernicus Revisited”
Bernard R. Goldstein
University Professor Emeritus
University of Pittsburgh

7 February 2003
“On Questions and Dialogues: Formal Explications of Their Dynamics”
Joke Meheus
Ghent University

11 February 2003
“Reasoning About Virtual Entities”
Thomas Forster
University of Cambridge

14 February 2003
“Appraisal and Machiavellian Emotion”
Paul Griffiths
University of Pittsburgh

18 February 2003
“On Becoming a Molecular Biologist: Dr. Francis Crick’s Early Career”
Robert Olby
University of Pittsburgh

25 February 2003
“‘Brownshirt Biology’ and ‘American Behaviorism’: Instinct in the ‘50s”
Paul Griffiths
University of Pittsburgh

March 2003

11 March 2003
“The Conception of Matter in Leibniz’s *Hypothesis physica nova*”
Andreas Blank
Free University

18 March 2003
“Bettering Cabernet: Science, Tradition, and Money in the French Campaign to Eradicate Hybrid Wine Grape Research”
George Gale
University of Missouri, Kansas City

21 March 2003
“How to Choose a Logic for Confused Concepts”
Joe Camp
University of Pittsburgh

25 March 2003
“The Philosophy of Suppression at the Edge of Biology: Panbiogeography and the Monastery of Evolutionary Biology”
John Grehan
Buffalo Museum of Science
Director of Science and Collections

28 March 2003
“Relations Among Fields: Mendelian, Cytological and Molecular Mechanisms”
Lindley Darden
University of Maryland, College Park

April 2003

1 April 2003
“Science as a Guide to Metaphysics?”
Katherine Hawley
University of St. Andrews

8 April 2003
“Kinds, Consilience, and Causality in Whewell’s Philosophy of Science”
Laura J. Snyder
St. John’s University

VISITING FELLOWS AND SCHOLARS

Academic Year 2003–2004

Alexander Afriat

U. of Utrecht, Netherlands
Spring Term
Project: From Fermat's Principle to Quantum Teleportation

Daniela Bailer-Jones

University of Bonn, Germany
Fall Term
Project: How Scientific Models Represent: Seeking a Cognitive Account

Alan Chalmers

Flinders University, Australia
Academic Year
Project: An Epistemological History of Atomism

Mark Colyvan

University of Queensland, Australia
Spring Term
Project: The Role of Naturalism in Ontology and Scientific Method

Vasiliki Grigoropoulou

(Visiting Scholar in HPS)
University of Athens, Greece
Spring Term
Project: Identity: Persons and Self in Locke

Rick Grush

U. of California, San Diego
Fall Term
Project: Other Points of View: The Neural and Psychological Mechanisms of "Theory of Mind" Phenomena

Tetsuji Iseda (Visiting Scholar)

Nagoya University, Japan
Academic Year
Project: Social Epistemological Study on Confirmation Theory

Brian Keeley

Pitzer College
Fall Term
Project: The Prehistory of Neurophilosophy and Other Issues

Janet Kourany

University of Notre Dame
Spring Term
Project: Philosophy of Science After Feminism

Sherri Roush

Rice University
Fall Term
Project: Tracking: Knowledge, Evidence, and Science

Ken Schaffner

George Washington University
Fall Term
Project: Behaving: What's Genetic and What's Not

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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.

Those interested in applying for a Fellowship for the Fall Term (September through December) or for the full Academic Year (September through April) must submit a complete application to the Center before 15 December 2003. Applications for the Spring Term (January through April) must be received before 15 March 2004. For more information and details on applying, visit the Center's web site at <http://www.pitt.edu/~pittcntr>.



University of Pittsburgh

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