

Goodbody Gazette

Department of History and Philosophy of Science at Indiana University

No. 5

College of Arts and Sciences Alumni Association

Fall 1994

HPS welcomes Michael Friedman, first Ruth N. Halls Chair

Chair's corner

Ever since C.P. Snow described the rift between the "two cultures," historians and philosophers of science have sought to bridge the gap. What better exemplar of success than Michael Friedman, who comes to IU this fall as the first occupant of the Ruth N. Halls Chair in Humanities.

Professor Friedman is best known among philosophers of science for his *Foundations of Space-Time Theories*, winner of both the Matchette and Lakatos prizes, as well as for his articles on a wide variety of topics, including that perennial favorite, the structure of scientific explanation. His new book, *Kant and the Exact Sciences*, reflects his growing interest in the history of philosophy and its connections to history of science.

Michael began his studies at Queens, where his first love was the clarinet. After hearing a visiting lecture by Hempel, he switched to philosophy and migrated to Princeton, where he studied with Clark Glymour, '69, and Wheeler, completing the PhD in 1973.

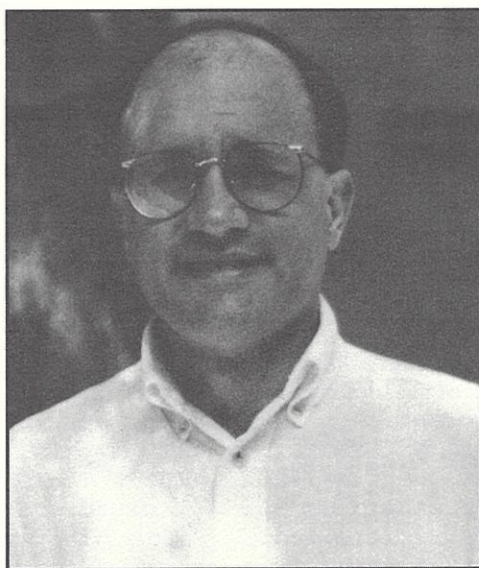
His postdoctoral trajectory passed through Harvard, where he wrote a paper with Putnam, to Pennsylvania, where he completed the manuscript of his first book. He moved to Chicago Circle in 1984 and was named research professor

of the humanities in 1988.

Michael is no stranger to Bloomington. He became dissertation director for two of Alberto Coffa's students, Thomas Oberdan, '90, and Joia Lewis, '90. He also visited Bloomington frequently and spent a sabbatical here at the time when Graciela De Pierris was first teaching in the philosophy department. (We are glad to announce that she is returning to that department after a sojourn at Chicago Circle.) He

enjoys the classical music scene in Bloomington and, as an avid sports fan (especially baseball), he is looking forward to becoming adept in the arcana of Hoosier basketball.

Michael brings to HPS an enthusiastic commitment to the study of the relationships between history of science, philosophy of science, and history of philosophy. As occupant of the Halls Chair, he also brings along funds that may be used for graduate student or postdoctoral fellowships. We are proud that this very prestigious chair went to someone in our disciplines, and we are especially delighted to have Michael Friedman as a new colleague.



Michael Friedman

The year has been an upbeat one. Besides the selection of Michael Friedman from a pool of 80-plus nominations from the College as a whole for the new Ruth Halls awards (there are four professorships and one chair), there have been substantial gains in other directions. The department hosted two visiting scholars, Professor Guillermo Ranea from Argentina, on a Guggenheim to study Leibniz, and Dr. Wallace Hooper, '92, working on a collaborative project with the Istituto Nazionale di Fisica Nucleare, Sezione Fierenza, which dates Galileo's manuscripts using spectral characteristics of the inks. Both took time out from their research to participate in our colloquium series and informal events. Stephen Kellert won an NSF grant for research this summer on "A Philosophical Examination of the Study of Chaotic Dynamics."

Visitors will note that the department has been given a modest face-lift. In December, the physical plant replaced the 30-year-old runner in our hallway. The process whipped up a cyclone of three decades of accumulated dust, but

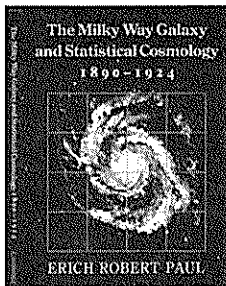
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News bulletin

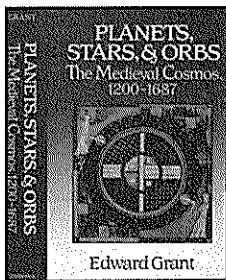
- ◆ Stephen Kellert has taken up a position at Hamline University in St. Paul, Minn. Everyone here will miss him and we all wish him well.
- ◆ HPS has been authorized to search for a historian or philosopher of science — open rank! Watch the jobs newsletters for more details.

Additions to the Hoosier Bookshelf

Despite his busy teaching schedule (In addition to duties at Dickinson, he's an alpine ski instructor!), **Bob Paul**, '76, keeps the presses turning. *Science, Religion, and Mormon Cosmology* was brought out by University of Illinois Press in 1992, and a biography of J.C. Kapteyn is forthcoming with Kluwer. But we're featuring here his 1993 Cambridge book *The Milky Way Galaxy and Statistical Cosmology*, which began as a PhD dissertation under Vic Thoren's guidance.

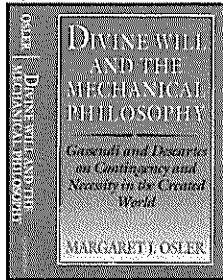


After completing his monumental work on medieval cosmology (in which he wrestles with angels, questions, and social constructionists), **Ed Grant** set down to "revise" his Cambridge textbook *Physical Science in the Middle Ages*. The result is an entirely new monograph, *The Foundations of Mod-*

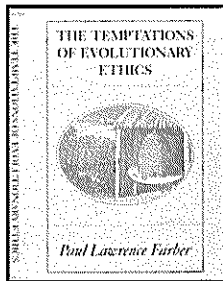


ern Science in the Middle Ages, which ends with a provocative chapter comparing the development of natural philosophy in Islamic and Catholic contexts. Ed continues to collect clippings on the occult and other scams. Could he possibly be moving into the 20th century — now that it's almost history?

Maggie Osler, '68, continues her studies of the metaphysical foundations of early modern science in *Divine Will and the Mechanical Philosophy*, which shows how the empiricism of Gassendi and the rationalism of Descartes are related to differences in their theologies.

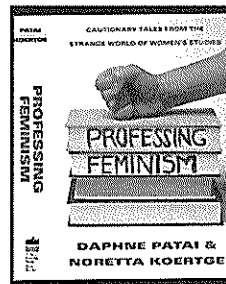


Paul Farber, '70, has given his latest book an intriguing title, *The Temptations of Evolutionary Ethics*. He looks at the critical responses of philosophers such as Sidgwick, Moore,



and Dewey, to early Darwinian approaches and argues that they also undermine sociobiological accounts of ethics.

On her last sabbatical, **Noretta Koertge** was all set to write a philosophical essay on the evaluation of problems in science when she got side-tracked into collaborating with Daphne Patai on a critique of excesses within academic feminism. Patai provided oral histories of women who had become disillusioned with women's studies, and Koertge analyzed some of the ideological games popular within feminist theorizing, such as Semantic Sorcery and Bidental. The result, *Professing Feminism*, is pathos plus polemics, with a little philosophy smuggled in. Koertge hopes to do a more detailed study of the antagonistic relationship between feminist philosophy and scientific methodology along the lines of her recent op-ed piece in *The Chronicle of Higher Education*.



Chair's corner

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the end result has improved our surroundings 100 percent. The AIs have spent a year in isolation on the second floor of Wylie Hall, where they have had, and will continue to have, the use of a four-room suite and a private hallway. Such luxury, however, will not last, for the governor has assigned new money for Wylie's renovation. According to plan, the AIs will move from Wylie to new quarters in the basement of Goodbody by the end of 1994.

Our undergraduate program has been given a boost by the adoption of a core curriculum for University Division students. All freshmen must take at least one "topics" course before moving into a major. HPS is offering five such courses this year, each of which is expected to fill at 90-100 students. The additional enrollment should help support additional AIs. With the same objective in mind, **John Winnie** taught an elementary logic course for philosophy, **Noretta Koertge** taught two courses in the Honors Divi-

sion, and **Fred Churchill's** History of Biology will be offered as a biology course for biology majors (currently more than 1,200 in Bloomington). Although the future of X207 History of the Occult, remains in limbo since **Ed Grant's** retirement, it will soon be adopted by continuing studies. **Danny Burton** has written a splendid textbook and study plan for the course, so if you want to learn the latest on necromancy or UFOs, sign up for instruction on an as-yet-to-be-designated ESP channel.

Our graduate program continues to reflect the quality of our graduate students. Last year, our students succeeded in winning a disproportionate number of national and university awards. **Alice Dreger's** master's thesis won the Kinsley Award and its author a Newcombe Fellowship for 1994-95. Our first year student **Charles Twardy** has been awarded an NSF Graduate Fellowship, which will assure him three years of support. **Karen Rader** has received a Mellon postdoc in the history of science at MIT. **William Tammore** won a Newberry Library Travel Grant and **Judy Johns Schloegel**

a Mellon Resident Research Fellowship at the American Philosophical Society. **Marco Guinti**, '92, has had his dissertation, completed in fall 1992, accepted by Oxford University Press.

Last fall's workshop was on "Social Values in the Contexts of Scientific Justification." Koertge and Kellert gave a team presentation on "Practicing Safe Science" that was part soft shoe tandem and part sparring match. Helen Longino from Rice University and Arthur Fine from Northwestern presented talks on "Whose Values Have a Place in Science?" and "Political Values and Conceptions of the Family in Some Hard and Soft Sciences," respectively, and the workshop ended with shorter presentations by three former or current students, **Terry Kent**, **Judy Johns-Schloegel**, and **William McKinney**, '93. The format of the Friday-Saturday workshop continues to be a great success. This one was held on "Purdue weekend"; nevertheless, we still had a full lecture hall at kickoff time, Mr. Dean!

— Fred Churchill

Thoren Award

The department was fortunate to have Krista Thoren attend the spring picnic and present the Victor E. Thoren Graduate Fellowship Award this year. The following citations were delivered on that occasion:

"1. **Karen Rader** came to the department in the fall of 1989 on an IU Fellowship. She has coauthored a paper with James Capshew, which appeared in *Osiris* in 1992. This past year, she has been on a highly prized Charlotte W. Newcombe Doctoral Dissertation Fellowship. She has recently won an MIT postdoc, which will begin in September. Her dissertation, which is nearing completion is provisionally titled 'Making Mice: Clarence Little, the Jackson Laboratory, and the Standardization of *Mus Faeronesis* for Research.

"2. **William Tammone** came to the department in the fall of 1986 on an IU Fellowship. In the second or third year of his studies, he switched from 19th- to 17th-century studies, which entailed working and thinking in Latin. Before completing this volte-face, he authored a paper on Darwin, which will soon



Karen Rader, Krista Thoren, and Bill Tammone

appear in the *Journal of the History of Biology*. Bill won a semester's Dissertation Research Fellowship from the College and then a coveted National Endowment for the Humanities Dissertation Award. His dissertation, which is also nearing completion, sports the provisional title of 'Fermentation and Putrefaction in Sixteenth- and Seventeenth Century Science and Medicine.' For those of you who might be concerned about the matter, Bill provided *neither* the beer *nor* the hamburger for today's picnic."

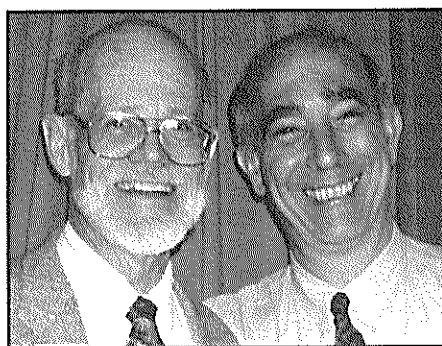
Best wishes to the prize winners and thanks to the Thoren family for their generosity.

Workshops and lectures

Daniel Kevles (Cal Tech) gave the Westfall Lecture this year. His topic was "Viruses and Cancer: A Tale of Insiders and Outsiders, or Why Peyton Rous Had to Wait a Half Century for the Nobel Prize." A good discussion followed in which Sam actively participated.

Other visiting speakers in our colloquium series were Lorraine Daston (Chicago), who spoke on various 19th-century concepts of objectivity; Owen Gingerich (Harvard), who gave two talks, one on Copernicus and one on Kepler; and Joan Richards (Brown), who discussed debates about rigor in 18th-century mathematics. We were also treated to a mini-symposium on Kant's philosophy of science, featuring Gordon Brittan (Montana State) and Michael Friedman (then of Chicago Circle).

Thanks to a grant from the dean of faculties, HPS has been sponsoring a



Westfall and Kevles

series of weekend workshops on new research directions in our field. Topics covered include the influences of national context, social values, instrumentation, evidence, and authority on the development of science.

The fall workshop on Sept. 16-17 looked at links between science studies

Book auction

The Reading Room has fared very well this year. When Ron Overmann, '74, moved from D.C. out to Virginia, he sent us several boxes of books. We were delighted to receive the personal collection of Chip Chillington. Chip considered entering our graduate program, but went to Harvard instead. However, when his ministerial duties brought him to Terre Haute, he remembered us! As a consequence of these and other generous gifts, we are able to offer several special books for sale.

Richard Sorrenson will conduct a silent auction. All proceeds go to the Reading Room fund. Please let him know your bid(s) by Dec. 15: phone (812) 855-2541; e-mail RJS@indiana.edu.

The highest or any offer will *not* necessarily be accepted. These valuable volumes are in flawless condition.

Outstanding collection of works by Newton:

The complete set of the *Mathematical Papers*, ed. Whiteside, 8 vols., 1967-81.

The complete set of the *Correspondence*, ed. Hall, 7 vols., 1959-77.

Principia, eds. Cohen & Koyré, 1972.

Unpublished Scientific Papers, eds. Hall & Hall, 1962.

Papers and Letters on Natural Philosophy, ed. Cohen, 1958.

Works about Newton:

Cohen, *Introduction to Newton's Principia*, 1971.

Cohen, *The Newtonian Revolution*, 1980.

Craig, *Newton at the Mint*, 1946.

Harrison, *The Library of Isaac Newton*, 1978.

Koyré, *Newtonian Studies*, 1965.

Wallis & Wallis, *Newton and Newtoniana*, 1977.

Other Primary Works:

A partial set of the *Oldenburg Correspondence*, ed. Hall & Hall, Vol. 1-9, 1965-73.

The *Collected Works of Count Rumford*, ed. Brown, 5 vols., 1968-70.

Galen, *On the Usefulness of the Parts of the Body*, trans. May, 1968.

Other Secondary Works:

A History of Technology, eds. Singer et. al., 5 vols., 1954-58.

History of Science, ed. Taton, 1963-66.

and social context. David Hollinger (Berkeley) gave a paper on "Science As a Weapon in Kulturkampf in the U.S. since World War II: An Episodic Overview," and Steven Shapin (San Diego) spoke on "Here and Everywhere: Current Problems in the Sociology of Scientific Knowledge." Jim Capshew and Tom Gieryn (sociology) presented papers. Noretta Koertge and Michael McGerr (history) were the commentators.

If you send us an e-mail address, we can routinely post information about all of our speakers. We'd also like to hear when *you* might be able to give us a talk!

HPS tattler

Congratulations to **Yan Lu** ('94), **David Grandy** ('94), and **Jim Voelkel** ('94) on completing their dissertations. Yan is in charge of text data bases at the IU Library. David is still teaching in Hawaii. Jim has a visiting appointment at Williams College, his alma mater.

Eric Barnes ('90) is moving to Southern Methodist this fall and plans to stay a while and raise a little Texan or two.

Wini Warren teaches part time at SUNY Old Westbury while doing research on African-American women scientists.

Chet Buzzeli ('80), **Jim Mathis** ('72), and **Pete Rubba** ('74) sent us e-mail addresses. We'd love to get all of you on line. Just write KBlaisde@Indiana.edu. Pete is at Penn State and was the 1993 president of the Association for the Education of Teachers in Science.

Richard Rice, who spent an NSF year with us, teaches chemistry and science studies at the University of Montana.

Marsha Richmond ('86) is moving to Wayne State, where she will teach in the Interdisciplinary Studies Program.

Kevin Korb ('92) is an editor of *Psyche*, an interdisciplinary journal of research on consciousness. To subscribe to the electronic version, write LISTSERV@NKI.BITNET, saying SUBSCRIBE PSYCHE-L first name last name. Or write to Kevin, c/o Computer Science, Monash University in Australia.

Susan Mills Finsen ('82) spent a sab-

batical in Japan. She has been working with Lawrence Finsen on *The Animal Rights Movement*, now out in paperback.

Greg Robischen ('81) rides a commuter train and prepares appeals for the Orange County Prosecutor's Office. Suzie brought the Robischen kids through Bloomington this summer and sampled gourmet playgrounds with Noretta Koertge and Emma.

HPS picnics are now enlivened by several new faculty kids, including **Alexander Vale Capshew** and **Peter Rangi Sorrenson**. Doggie input is supplied by **Judy Hammett**.

Ted Davis ('84) is coeditor in charge of producing a new edition of the works of Robert Boyle.

Ronnie Millen ('85) visited his former landlady in Bloomington and dropped by to say he will soon get his MA in biology at University of Colorado, Boulder. He is studying plant systematics.

Tom McMullen ('89) visited the Lilly Library this summer to inspect the glosses in Harvey's copy of Fabricius. He recently completed a fellowship at West Point to help him prepare a new course on American Military History. Tom is cochair of the arrangement committee for the '96 meeting of HSS in Atlanta.

Sam Westfall is taking a break from researching patronage in the 17th century and chasing raccoons out of his tomatoes to fly to Cuba. Gloria is giving a paper on Latin American documents;

Sam is said to be exploring possible connections with El Grandisidismo Patron himself!

This fall, our program will be enriched by various visiting scholars: **Ken Howell** (who minored in HPS while doing a degree in linguistics) will give a course connected to his current research area, religion and early modern science. **Alexei Kojevnikov**, whose PhD thesis was on the emergence of quantum electrodynamics, is visiting from the Institute for History of Science and Technology at the Russian Academy of Sciences. **Fred Suppe**, who is extending his research on realism and the structure of theories to an analysis of the role of models in science, will be visiting the Institute of Advanced Studies here at IU.

Carol A. Day ('73, '86) teaches in the Great Books Program at Thomas Aquinas College, Santa Paula, Calif. This is her fourth year of teaching Ptolemy, Copernicus, and Kepler to sophomores.

Donald T. Smith ('88) teaches full time at West Chester University, West Chester, Pa., and is a part-time teacher at La Salle University, Philadelphia.

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