Animals in Research: DHHS and iiFAR Take Positions

Friday at a press conference on the eve of a demonstration against the use of animals in research at the School of Veterinary Medicine, spokesmen for the University were joined by those of the U.S. Department of Health and Human Services and a new organization called iiFAR (Incurably Ill for Animal Research) in opposing the extreme position in animal rights which calls for an end to all use of animals in human health research.

The demonstration Saturday, called by People for the Ethical Treatment of Animals, drew crowds variously estimated between 100 and 200, many carrying signs protesting the work of Dr. Adrian Morrison. An estimated 25 counterdemonstrators also appeared.

At the press conference, Vice Provost Barry Cooperman reiterated Penn policy and safeguards, the latter spelled out in detail by Dr. Harry Rosmarieck, director of the program of laboratory animal care here. Two leading Penn researchers, Dr. Robert Barchi and Dr. Aron Fisher, supported precautions used with laboratory animals as well as listing breakthroughs in polio, diphtheria, smallpox, control of mental depression through lithium, and the hope of safeguards, the latter spelled out in detail by Dr. Harry Rosmarieck, director of the program of laboratory animal care here. Two leading Penn researchers, Dr. Robert Barchi and Dr. Aron Fisher, supported precautions used with laboratory animals as well as listing breakthroughs in polio, diphtheria, smallpox, control of mental depression through lithium, and the hope of

The burglary and ransacking of Dr. Adrian Morrison’s offices at the University of Pennsylvania on January 14 is but the latest of a growing number of illegal and inexcusable acts of violence against the nation’s biomedicine research enterprise, perpetrated by misinformed and misguided animal rights activists. As a nation, we must make clear that we simply will not tolerate such acts.

Without animal research, we could not have made the tremendous strides in the improvement of the Nation’s health that have marked the last several decades. Nor would we be able to continue to make rapid progress today, against such ailments as Alzheimer’s disease, mental illness, and drug addiction.

The scientific agencies of the U.S. Public health Service recognize the importance of human stewardship of all animals, particularly those used in furtherance of health science goals. We assign high priority to ongoing efforts to reduce the numbers of animals used in federally-funded research; to refine research-related procedures in order to minimize discomfort, stress, and pain experienced by animal research subjects; and to replace animal models, when feasible, with alternative procedures, including computer models of basic biological processes and use of tissue cell cultures. While alternative approaches in current use have unique strengths and weaknesses, and while understanding of human pathologies will be most effectively advanced by the continued application of a combination of approaches, animal models remain essential because they are the best paradigms for man.

The Department of Health and Human Services will continue to support appropriately designed and conducted animal research.

Goldie Anna Chair at GSE: Dr. Michelle Fine

Dr. Michelle Fine, associate professor of psychology in education, has been named to the Graduate School of Education’s new Goldie Anna Chair, awarded to the School by the Goldie Anna Charitable Trust of New York through the efforts of its co-trustees Kenneth L. Stein, a Wharton alumnus, and Julius Greenfield. It provides $50,000 a year for the five years to further Dr. Fine’s work in restructuring Philadelphia’s comprehensive high schools, recognizing both her achievements and GSE’s commitment to partnerships with public education, Dean Marvin Lazerson said.

A winner of GSE’s teaching award in 1985 and the all-University Lindback Award for Distinguished Teaching in 1987, Dr. Fine also received the 1987 Educational Press Award for excellence in educational journalism. A frequent expert witness on discrimination nationwide and a prolific writer with over 120 articles, monographs and papers, she is co-author of Social Experiments: Methods for Design and Evaluation (Sage, 1981), co-editor of Women with Disabilities: Essays in Psychology, Culture and Politics (Temple, 1988), and author of a forthcoming book, Telling Tales Out of School.

Dr. Fine, who took her B.A. in psychology from Brandeis and her M.A., M.Phil. and Ph.D. in psychology from Teachers’ College, Columbia, joined Penn in 1981 after teaching at St. Peter’s College and the New School for Social Research. She also teaches in the Women’s Studies Program and in the joint GSE-Law School sequence on critical issues and choices in public education.

Now on part-time leave from GSE as a member of the Philadelphia Schools’ Collaborative, Dr. Fine is described by the Dean as “one of the most exciting education professors in the country, combining a keen intellect with a passion for social justice—and one of the finest teachers in the University.”

She is also called by Dr. Peter Kuriloff, chair of the Psychology in Education Division of GSE, “one of the outstanding young social psychologists in the country. She brings a keen critical intelligence to the analysis of the most pressing levels of social injustice. Her work examines the necessary conditions for people to feel fairly treated, the social construction of disability, the problems of high school dropouts... she brings a level of energy, an enthusiasm and a rare originality which sweeps up students and colleagues alike in collective efforts. In this she embodies much that professors might aspire to in mentoring and in collaborative research.”

The Philadelphia Schools Collaborative’s Director Janis Somerville praised “the rare combination of advocate-critic. In Michelle Fine we have both the eloquent teacher able to engage other teachers in revolutionizing their own work, inspiring change from within, and the scholar who can profoundly influence social policy through impeccable research and writing. Her work has a breadth, depth and authenticity that I believe can alter public education and its position in the society in our time.”

Funds from the Goldie Anna Chair will be used to work on two specific questions identified by Dr. Fine from her work with the Collaborative: How to move from hierarchy to shared decision-making (a “biography” of the process of power-sharing between and among faculty and administrators of the Philadelphia comprehensive schools, to be done with graduate students, public school teachers and administrators, and union representatives); and what to do for the high numbers of “overage” ninth-graders put back earlier and now “...too old, too tall, don’t feel good about themselves academically... and have an extraordinarily high dropout rate.”
Animal Rights

I read with interest Dr. Davies’ article in the January 23rd Almanac, and agree with him and other University administration that the act committed against Dr. Morrison should not be tolerated. Violence will never be the answer to stopping the problem of animal abuse. It just gives those of us who really care about animals a bad name.

For the record, I want the University community to know that there are many of us working within the system to stop animal abuse in all forms, not just instances involving medical research.

Most animal rights organizations do not use break-ins and burglaries to get their message across. All major universities, not just Penn, still use animals for research, and the constant concern is that these animals are being treated humanely. Perhaps what we need is a better working relationship between all universities and organizations that are trying to protect animals. My only knowledge of how this University feels about animals is the bulletin board in the lobby of Blockley Hall showing one-sided publications on why animal research is still necessary, some of which is misleading to the general public. Those of us who care about animals find this type of advertising by our University to be offensive.

In the end, we will all have to make our own decision. I only hope that at the very least our society one day begins to treat those creatures who have no voice with more compassion.

—Julie Schilling, Business Manager, University Press

Time To Get Rid of Tenure?

The recent Supreme Court decision [Almanac January 16] on the inspection of documentation in evaluation of tenure decisions raises a more basic issue than either academic freedom or classification of information under the First Amendment. To me the underlying principle which the court did not address is the question of tenure. It is time that faculty and academic institutions face up to whether the principle of tenure is an issue whose day has passed. We might be looking through the wrong end of the academic telescope.

Along with the need to provide outstanding academic and scholarly research capabilities in the institutions, a fundamental requirement in academic endeavor is teaching. Insufficient concern is given to that basic responsibility of our educational institutions.

Several months ago I addressed this issue in a talk before the Wharton Club of Washington and would like to adapt this statement to commence a dialogue on the value and need for tenure to provide and retain good teachers as well as outstanding researchers. There may be options other than tenure which might provide similar results for the student and the academic institution.

—William Zucker
Meshulam Ritikis Professor Emeritus of Creative Management

Excerpts from October 26 Talk

A number of education scholars have wondered whether the skills which make for success in school are related to success later in life. Or, for that matter, whether the converse is true. Albert Shanker, President of the American Federation of Teachers, once humorously suggested that in the view of some, what it took for students to succeed academically was the ability to sit still for long periods of time, learn by listening, think abstractly, and not talk to anyone around them. Imagine, if you please, operating that way in a business environment. If someone in a job is having trouble with a problem, common sense says: Ask a colleague for help. Schools call that cheating.

I think that students have a right to discover where they are strong, and schools have an obligation to help them develop these skills from a mix of books, lectures, cases, written reports, and hands-on experiences. There is no one best way to teach.

Most people not connected with academia expect universities to be teaching institutions. And when they send their children there they expect them to be taught. But the institutions and the faculty might think differently and have a different agenda, and emphasize the principle of “publish or perish.”

Without publishing in a scholarly journal, the faculty member gains no proof of his or her research capabilities and adds little to the institution’s research focus. As a result, that individual does not receive an appointment, promotion, or tenure.

In 1987, scholarly journals in this country alone published 215 articles on John Milton, 130 on Henry James, and 554 on William Shakespeare. In the Middle Ages, savants wrote and argued about how many angels can dance on the head of a pin. This latter now appears to us frivolous, but in today’s context, how many more new concepts can be learned from yet another scholarly book on Shakespeare?

We all know instances where good teaching can hinder a career. Two winners of Harvard’s Outstanding Teaching Awards in 1986 and 1987 were rejected for tenure. And that has occurred elsewhere, even at Penn, and within Wharton. Unquestionably, every university wishes to be recognized as a scholarly and research-oriented institution. But it behooves the faculty to have a commitment to good teaching. The attitude of some faculty members, unfortunately, is that, “This would be a great place if you could only get rid of the students.”

There is a gap between the research/academic interest of the faculty and the need to provide business school undergraduates and graduates with good teaching. Can that gap be bridged so that the students will learn the practices and strategies of those areas which will make them better business professionals?

Medical schools and graduate clinical faculty are there to teach the pragmatics of medical diagnosis and treatment.

Dean Russell Palmer has been concerned with the issue of excellent teaching. He has emphasized this need. He has raised money for faculty appointments of younger personnel whose principal function is to teach. But the specter of tenure hags like a dark cloud over the groves in academe.

In now making my suggestion, I’ll be as welcome in the academic fraternity as a skunk in a garden party. I say, abolish tenure. Make all faculty appointments on a preliminary five-year appointment, and then, based on teaching, commitment to university affairs, and research, give that person a ten-year contract which can be renewed for a five or ten-year contract period. Thus, by giving credence to factors other than publishing, there will be an emphasis upon teaching. Indeed, faculty members are closely scrutinized during selection, but there is little assessment after they are granted tenure.

Perhaps education as we know it is at the end of its life cycle. Dean Palmer in his 6 1/2 years has done an incredible job in taking steps to make Wharton’s education a preeminent one. I hope that what the Dean has accomplished will be the foundation for further growth and progress at Wharton.

Clémenceau, during World War I, declared that “War is too important to be left to the politicians.” I would paraphrase his comment to the effect that, “Education is too important to be left to the teachers.”

Let’s not be put off by claims that “It can’t be done.” “Can’t” is a myth whose real name is “won’t.”—William Zucker

On Resources for Students

I was pleased to see an effort on the part of University Life to take a step to better publicize the resources available for students in crisis situations.

We are all deeply saddened by the recent tragic losses of fellow students. Since the middle of last semester, GAPSA has been calling for better counseling resources for graduate students. Unfortunately, these lives have been lost since.

Dr. Kaumuma’s “Resources for Students in Distress” represents the first official response concerning this problem. I hope that it is only the beginning that this response came after the loss of an undergraduate student, but this is a separate question altogether.

In Dr. Kaumuma’s piece, there seems
Office of Environmental Health: On Disposal of Ethidium Bromide Waste

Ethidium bromide (EB), a powerful mutagen, is widely used in laboratories for visualizing nucleic acids. During normal use, spills of EB may occur and residues may build up on equipment and other lab surfaces. Household bleach has been previously recommended for chemical treatment of EB but unfortunately bleach treatment produces oxidant products which are also mutagenic. All users of ethidium bromide are reminded that EB waste in solid form or concentrated solutions is considered hazardous and should not be thrown in the trash or down the drain. EB waste must be discarded as a hazardous waste and should be segregated as follows:

1. Liquids (large quantities): separate from solid waste into a leakproof, sealable polyethylene container.
2. Solids (contaminated gloves, centrifuge tubes, towels, etc.): separate from liquids into a leakproof, sealable polyethylene container.
3. Contaminated sharps (needles, syringes, etc.) which contain residual EB must be discarded into a rigid, leakproof, puncture-resistant, sealable infectious waste sharps container, which is marked with the universal biological hazard symbol. The containers must be placed in a biohazardous waste bag which is marked "ethidium bromide sharps" and sealed.

Working solutions which contain less than 10 ppm (10ug/ml) may be flushed down the drain. EB gel waste (low EB conc.) may be discarded in the trash.

A solution of soap and water is recommended for removal of residues on equipment and environmental surfaces.

Glass containers must not be used for EB waste collection under and circumstances.

Call the Office of Environmental Health and Safety Ext. 8-4453 to arrange for pick-up of your EB hazardous waste or if you have any further questions.
From the extensive list of Trustee actions on appointments, reappointments, secondary appointments, leaves, and terminations, *Almanac* gleams those actions reflecting movement into or within the Standing Faculty. This includes new appointments and promotions, and chair designations with or without promotion, in all schools. In the health schools, where reappointment sometimes includes movement from the associated faculty (not in standing faculty) to the clinician-educator track (standing faculty but not tenure-acquiring), those actions are published. Note that clinician-educator titles are recognizable by the form of title, "Professor of________ at (affiliated institution)." The following list shows actions from Trustees' minutes of April 27, 1989 through November 30, 1989, representing actions approved at Provost's Staff Conferences leading up to those meetings. Actions marked(*) involve additions to the tenured ranks through appointment, promotion, or conversion.

### Appointments and Promotions in the Standing Faculty, 1989

**Annenberg School for Communication**

**Appointments**

- *Dr. Kathleen Hall Jamieson as Professor of Communications.*

**School of Arts and Sciences**

**Appointments**

- Dr. Beth Wietelmann Bauer as Assistant Professor of Romance Languages.
- Dr. Mabel Berezin as Assistant Professor of Sociology.
- Dr. George E. Boyajian as Assistant Professor of Geology.
- Dr. Gregg Camfield as Assistant Professor of English.
- Dr. Ted Chingburg as Professor of Mathematics.
- Dr. Miriam Cvetic as Assistant Professor of Physics.
- Dr. Francis X. Diebold as Assistant Professor of Economics.
- Dr. Naoki Fukui as Assistant Professor of Linguistics.
- Dr. Thomas J. Harrison as Assistant Professor of Romance Languages.
- Dr. Christopher F. Hasty as Associate Professor of Music.
- Dr. Elizabeth Johns as Professor of History of Art.
- Dr. Michihiro Kandori as Assistant Professor of Economics.
- Dr. William R. LaFleur as Professor of Oriental Studies.
- Dr. John A. Lucy as Assistant Professor of Anthropology.
- Dr. Michael A. Mandler as Assistant Professor of Economics.
- Dr. David Neumark as Assistant Professor of Economics.
- Dr. Phillip A. Rea as Assistant Professor of Biology.
- Dr. Virginia M. Richards as Assistant Professor of Psychology.
- Dr. Marina Roseman as Assistant Professor of Music.
- Dr. Matthew S. Santirocco as Professor of Classical Studies.
- Dr. Neil H. Shubin as Assistant Professor of Biology.

**Chair Designations**

- Dr. Roger D. Abrahams as the Hum Rosen Professor of Folklore and Folk Literature.
- Dr. Nancy M. Farris as Annenberg Professor of History.
- Dr. Drew G. Faust as Annenberg Professor of History.
- Dr. Samuel Preston as the Frederick J. Warren Professor of Sociology.
- Dr. Paul J. Steinhart as the Mary Amanda Wood Professor of Physics.

**Promotions**

- Dr. Dorothy L. Cheney as Associate Professor of Anthropology.
- Dr. Hai-Long Dai as Associate Professor of Chemistry.
- Dr. Charles L. Epstein as Associate Professor of Mathematics.
- Dr. Jerry A. Jacobs as Associate Professor of Sociology.
- Dr. John A. McCarthy to Professor of Germanic Languages and Literatures.
- Dr. Eugene J. Mele to Professor of Physics.
- Dr. Margaret A. Mills to Associate Professor of Folklore and Folklore.
- Dr. R. Scott Poethig to Associate Professor of Biology.
- Mr. Jay J. Warren Professor of Landscape Architecture and Regional Planning.

**School of Dental Medicine**

**Appointments**

- Dr. Gary Dworkin as Assistant Professor of Restorative Dentistry in Clinical Dentistry.
- Dr. Raymond Fonseca as Professor of Oral and Maxillofacial Surgery.
- Dr. Wanda Gordon as Assistant Professor of Endodontics.

**Graduate School of Education**

**Chair Designations**

- Dr. Robert F. Boruch as Trustee Professor of Education.
- Dr. Marvin Lazerson as the George and Diane Weiss Professor of Education.

**School of Engineering and Applied Science**

**Appointment**

- Dr. Leif H. Finkel as Assistant Professor of Bioengineering.

**Conversion to Tenure**

- Dr. Jorge Juan Santiago-Aviles, Associate Professor of Electrical Engineering.

**Promotions**

- Dr. Susan B. Davidson as Associate Professor of Computer and Information Science.
- Dr. Insup Lee to Associate Professor of Computer and Information Science.
- Dr. Dale A. Miller to Associate Professor of Computer and Information Science.
- Dr. Wen K. Shih to Associate Professor of Environmental Engineering in the Department of Systems.

**Graduate School of Fine Arts**

**Promotion**

- Dr. Dan Rose to Professor of Landscape Architecture and Regional Planning.

**The Law School**

**Appointment**

- Mr. Colin S. Diver as Professor of Law and designation as the Bernard G. Segal Professor.

**School of Medicine**

**Appointments**

- Dr. Jacques P. Barber as Assistant Professor of Psychology in Psychiatry.
- Dr. Robert J. Berchick as Assistant Professor of Counseling Psychology.
- Dr. Joan S. Brugge as Professor of Microbiology.
- Dr. William R. Brugge as Associate Professor of Medicine at HUP.
- Dr. Frank J. Crapo as Assistant Professor of Obstetrics and Gynecology.
- Dr. P. J. De Weer as the Isaac B. Issac Professor of Physiology.
- Dr. Deborah A. Driscoll as Assistant Professor of Obstetrics and Gynecology.
- Dr. James H. Everwine as Assistant Professor of Pharmacology.
- Dr. Roderic G. Eckenhoff as Assistant Professor of Anesthesiology.
- Dr. Jack Ende as Associate Professor of Medicine at HUP.
- Dr. Patrick C. Friman as Assistant Professor of Psychology in Pediatrics.
- Dr. Greg J. Fromell as Assistant Professor of Medicine.
- Dr. James Y. Garbern as Assistant Professor of Neurology.

**Conversion to Tenure**

- Dr. Steven G. Glasgow as Assistant Professor of Orthopaedic Surgery.
- Dr. Jerry M. Gonzales as Assistant Professor of Anesthesiology.
- Dr. Debra A. Gurnard as Assistant Professor of Radiology.
- Dr. Leigh C. Jeffries as Assistant Professor of Pathology and Laboratory Medicine.
- Dr. William N. Kelly as Professor of Medicine.
- Dr. Bruce Kinosian as Assistant Professor of Medicine.
- Dr. Dan F. Knolke as Associate Professor of Audiology in Otologic and Neurotology.
- Dr. Sydney Koblin as Assistant Professor of Medicine.
- Dr. Cheryl C. Kurer as Assistant Professor of Pediatrics.
- Dr. C. Dean Kurth as Assistant Professor of Anesthesiology.
- Dr. Janice D. Lawhorne as Assistant Professor of Pediatrics.
- Dr. Mitchell A. Lazar as Assistant Professor of Medicine.
- Dr. Bruce T. Liao as Assistant Professor of Medicine.
- Dr. John Listened as Assistant Professor of Radiologic Sciences in Radiology.
- Dr. Adeline Louie as Assistant Professor of Radiology.
- Dr. David W. Low as Assistant Professor of Surgery.
- Dr. Julie Low as Assistant Professor of Psychiatry.
- Dr. Jeanne C. Myers to Associate Professor of Biochemistry and Biophysics.
- Dr. Nancy D. Nagorsky as Assistant Professor of Obstetrics and Gynecology.
- Dr. John M. Parrish as Associate Professor of Psychology in Pediatrics at CHOP.
- Dr. Yvonne Peterson as Associate Professor of Microbiology.
- Dr. Jeanette Pleasure as Associate Professor of Pediatrics at HUP.
- Dr. Mark Reber as Assistant Professor of Psychiatry at the Philadelphia Child Guidance Clinic.
- Dr. Lynn M. Schuchter as Assistant Professor of Medicine.
- Dr. Mohamed A. Seliem as Assistant Professor of Pediatrics.

(continued past insert)
Dr. Barbara S. Shapiro as Assistant Professor of Pediatrics.
Dr. Meir Shinar as Assistant Professor of Medicine.
Dr. Joseph S. Savino as Assistant Professor of Anesthesiology.
Dr. Eben L. Sibidy as Assistant Professor of Medicine.
Dr. Edward A. Stadtmauer as Assistant Professor of Medicine.
Dr. Andrew M. Tershakovec as Assistant Professor of Pediatrics.
Dr. Lawrence Wah-Chan Tom as Assistant Professor of Otorhinolaryngology and Human Communication.

Dr. Paul Topf as Assistant Professor of Otorhinolaryngology and Human Communications.
Dr. Ralph F. Wetmore, Jr. as Assistant Professor of Otorhinolaryngology and Human Communications.

Dr. Barbara S. Shapiro as Associate Professor of Pediatrics.
Dr. Michael Gibbons as the Drexel Burnham Lambert Professor of Investment Banking.
Dr. Sanford J. Grossman as the Trustee Professor of Finance.
Dr. Joseph Harder as Assistant Professor of Management.
Dr. Robert W. Holthausen as Professor of Accounting.

Dr. Henry Levinthal as Associate Professor of Management.
Dr. Matthew Richardson as Assistant Professor of Finance.
Dr. Gerard Wedig as Assistant Professor of Health Care Systems.

AIDS Awareness Week at Penn: Starting February 19

Since the discovery of the AIDS virus almost 10 years ago, the media has been flooded with information about the disease. The newspapers write articles, the television shows documentaries, and many books are written about all aspects of AIDS.

Despite this flood of information, it is important that we do not become complacent. We may think that we have the information and that we know how we can protect ourselves. But we need to keep educating ourselves over and over. And we need to educate our families and our friends as well.

The University of Pennsylvania has developed HIV/AIDS Awareness Week to continue to provide a forum for obtaining new information about this disease. The programs offered this year will be available in a setting that will allow University faculty, staff, and students to ask questions and, therefore, to learn. In a university community which focuses so intensely on the importance of education, we are all going to be given an opportunity to learn how to stay alive.

AIDS Awareness Week will be held on the week of February 19. Look for the schedule of events, and please take the responsibility to learn. If you have any questions, please call Ext. 8-0313.

—Karen Pollack, FISAP Counselor
A. Statement of Purpose

The Research Foundation encourages the exploration of new fields across a broad spectrum of disciplines. In doing so, the Foundation expands opportunities for faculty to attract support and resources from external sources while encouraging work in fields that are traditionally under-funded.

The Foundation supports two levels of grants. The first level, Type A grants, provide support in the range of $500 to $5,000. The second level, Type B grants, provide support in the range of $5,000 to $50,000. The standard application for a Type A grant is briefer than that for a Type B grant, reflecting respective funding levels. However, the review criteria for Type A and Type B grants are similar, and several general factors are considered in evaluating an application for either type of grant. They are:

- Its contribution to the development of the applicant’s research potential and progress.
- The quality, importance and impact of the proposed research project.
- Its potential value for enhancing the stature of the University.
- Its budget appropriateness in terms of the project proposed, including consideration of need and availability of external support.

B. The Application Process

The Research Foundation Board will review both Type A and Type B applications in the fall and spring of each academic year. Applications for the fall cycle are due on or before November 1 of each year, while spring cycle applications are due on or before March 15 of each year. All research projects involving human subjects or animals must receive Institutional Board approval prior to funding. Questions concerning human/animal research should be directed to the Assistant Director for Regulatory Affairs, 300 Mellon Building/3246.

An original and ten copies of both Type A and Type B proposals should be submitted to the Office of the Vice Provost for Research, 106 College Hall/6381.

Type A proposals should contain a brief description of the research and the specific needs which the grant will cover. The proposal should include:

1. Cover page(s)
   1. Name, Title, Department, School, Campus Mailing Address, Signatures of Department Chairperson and Dean.
   2. Title of proposal.
   3. Does the project utilize human subjects or animals?
   4. Amount requested.
   5. 100-word abstract of need.
   6. 100-word description of the significance of the project for the educated non-specialist.
   7. Amount of current research support.
   8. Other pending proposals for the same project.
   9. List of research support received during the past three years. Include funds from University sources such as schools, department, BRSG, or Research Foundation.
   10. A one-page biographical sketch of the investigator(s) listing educational background, academic positions held, and five recent publications.

II. Type B proposals are limited to ten single spaced pages in length. The following format is suggested for Type B proposals:

1. Cover Page(s)
   1. Name, Title, Department, School, Campus Mailing Address, Signatures of Department Chairperson and Dean.
   2. Title of proposal.
   3. Does the project utilize human subjects or animals?
   4. Amount requested.
   5. 100-word abstract of need.
   6. Amount of current research support.
   7. Other pending proposals for the same project.
   8. Listing of publications and research support, including titles, amounts, and grant periods, received during the past five years. Include funds from University sources such as schools, department, BRSG, or Research Foundation.
   9. A brief curriculum vitae for the principal investigator.

II. Introduction (2 to 3 pages)
   Statement of the objectives and scholarly or scientific significance of the proposed work.

III. Methods of Procedure (3 to 4 pages)
   Description of the research plan and methodologies to be employed.

IV. Description of the significance and impact of the project.

V. Description of how a Research Foundation grant will facilitate acquisition of future research funds.

VI. Budget (one page) two-year maximum
   Each budget item should be listed in order of priority.
   Categories of Research Foundation support for Type B proposals focus on several areas of need. These are:
   - Matching funds, vis-a-vis external grant sources.
   - Seed money for exploratory research programs.
   - Support for interdisciplinary research initiatives.
   - Faculty released time.
   Requests for student tuition and dissertation fees will not be considered by the Foundation.
Research Foundation Awards: Fall Cycle 1989

Latefich Amini-Sereshki and Mary Ann Lafferty-Della Valle, Nursing; Room renovations for projects: Extrathoracic Thermoregulation in Sleep and Waking and DNA Polymorphisms and Risk of Heart Disease.


Jacques P. Barber, Psychiatry, Medicine; Development of the Central Relationship Questionnaire.

Hansruedi Boehringer, Pathology, Dental Medicine; Virulence Mechanisms of Lyme Disease Spirochetes.

Henning Bohn, Finance, Wharton; Budget Deficits, Uncertainty, and Dynamic Efficiency.

Jose Edgardo L. Campos, Public Policy & Management, Wharton, and Roberto S. Mariano, Economics, SAS; Political Economy Aspects of Protectionism in Developing Countries: The Case of the Philippines.

Miriam Critler, Physics, SAS; Effective Lagrangian in Superstring Theories.

Manjusri Das, Biochemistry & Biophysics, Medicine; Analysis of Expression, Maturation and Stability of EGF-Receptor Using Molecular Biological Tools.

Francis X. Diebold, Economics, SAS; Nonparametric Analysis of Economic Time Series.

Martha M. Dore, Social Work, and William A. Sonis, Psychiatry, Medicine; A Comparison of the Efficacy and Cost Effectiveness of Three Forms of Community-Based Mental Health Treatment of Children and Youth.

Ajay R. Dravid, Finance, Wharton; Simulated Moments Estimation of Stock Return Distribution Parameters.

Arthur E. Dunham, Biology, SAS; Thermal and Hydric Effects on Egg Development, Hatching Success, and Hatching Growth in a Desert Lizard: Integrating Mechanistic and Theoretical Approaches to Life History Evolution.

Leif H. Finkel, Bioengineering, SEAS; Computer Simulation of the Macaque Visual Cortex.

David E. Freeman, Clinical Studies, Veterinary Medicine (NBC); Effect of Protein Kinase C Activation on L-Alanine Transport by the Antipolunal Pole of Crypt Cells in Rat Colon.

Samuel R. Freeman, Philosophy, SAS; Constitutional Democracy and Judicial Review.

James Y. Garbner, Neurology, Medicine; Functionality Analysis of Marine Homeobox Proteins.

A.F. Garito, Physics, SAS; Ultrafast Nonlinear Optical Excitations and Bistability in Random Glassy Polymers.

David L. Gasser, Human Genetics, Medicine; Support for Molecular Biology Core of the Craniofacial Anomalies Research Center.

L.D. Gladney and N.S. Lockyer, Physics, SAS; Proposal to Test a Novel Idea for an Event Builder.


Yale E. Goldman, Physiology, Medicine, and Clara Franzini-Armstrong, Anatomy, Medicine; Time-Resolved Ultra-Rapid Cryofixation: Monoclonal Antibodies and Following Activation by Laser Pulse Photolysis.

Joanne Gowa, Political Science, SAS; Bipolarity, Multipolarity, and Free Trade.

Keith A. Grifflкон, Physics, SAS; A Prototype Vertex Detector for PEGASTS.

Howard C. Herrmann, Medicine; Robert LeVeen, Radiology, Medicine; Elliott Bartenhan, Medicine; and Paul Weisz, Chemical Engineering, SEAS; Evaluation of B-cyclodextrin in the Prevention of Experimental Angioplasty Restenosis.

John Hershey, Decision Sciences, Wharton; Why Do People Buy Insurance For More Than Just Reduction of Risk?

Jonathan Israel, Medicine; Interactions Between the Hepatocyte, Hepatitis B Virus and Hepatocellular Carcinoma.

Prem Jain and Ananth Madhavan, Accounting, Wharton; Trading Halts, Price Liquidity and the Components of Transaction Volume.

Leigh C. Jeffries, Pathology & Laboratory Medicine; Use of Anti-Idiotypic Antibodies Against Human RBC Autoantibodies for Investigation and Therapy of Autoimmune Hemolytic Anemia.

Roland G. Kallen, Biochemistry & Biophysics, Medicine; Cloning and Expression of Human Cardiac Sodium Channels.

G.N. Knauer, Classical Studies, SAS; Vergili and Homer, Latin Renaissance Commentaries and Translations.

Morrie E. Kricun, Radiology, Medicine; Radiology-Paleopathology of the Skeletal Remains of Prehistoric Australian Aborigines.

James D. Laing, Decision Sciences, Wharton; Quasirational Processes of Multilateral Negotiations.


Ponzi La, Chemistry, SAS; Photo - CIDNP Studies of Protein - Nucleic Acid Complexes.

Luz J. Martinez-Miranda, Electrical Engineering, SEAS; Equipment Proposal: Huber Goniometer Motor Control and Detecting Electronics Upgrading for Thin Film Studies.

Vivianne T. Nachmias, Anatomy, Medicine; Preparation of Monoclonal Antibodies to FX3 Protein.

David Neumark, Economics, SAS; The Impact of Corporate Takeovers on Older Workers.

Maurizio Pacifici, Dental; Molecular Control of the Cartilage Phenotype.


Trevor M. Penning, Pharmacology, Medicine; Affinity Labeling of Cytochrome P-450.

Stephen Paul Phipps, Geology, SAS; The Structure of Iberian Intra-Plate Mountain Belts.

Gregory Possehl and Joyce C. White, Asian Section, University Museum; Bronze Age Development in Thailand: Ban Chiang Wrap-Up.

Virginia M. Richards, Psychology, SAS; Across-Frequency Comparisons in Audition.

Matthew Richardson, Finance, Wharton; A Multivariate Test for Normality in Stock Returns.

Joel Rosenbloom, Anatomy & Histology, Dental; Genetic Control of Vascular Smooth Muscle Cell Differentiation.

William T. Ross, Jr., Marketing, Wharton; Ambiguity and the Decision Making Process.


Martin E. P. Seligman, Psychology, SAS; Children's Emotions and Family Interactions.

Vivian Center Seltzer, Human Development & Behavior, Social Work; Costs of Data Collection, Computer Analysis, and Publication Preparation of Local/Cross Cultural Study on Adolescent Perceptions of Their Future.

Irving M. Shapiro, Biochemistry, Dental, and Sherrill L. Adams, Anatomy & Histology, Dental; Identification of the Mechanisms Mediating Glucocorticoid-Induced Decreases in Skeletal Growth.

Neil Shubin, Biology, SAS; The Origin of Modern Tetrapods—the Vertebrate Animals of the Triassic-Jurassic Boundary.

L.E. Silberstein, Pathology & Lab Medicine, Medicine; Human B-Cell Neoplasia With Autoreactive Specificity.

Peter Stallybrass, English, SAS; Embodied Politics.

Charles W. Thayer, Geology, SAS; Evolutionary Drop-Out: Refuge from the Red Queen's Race.

James F. Thorne, Landscape Architecture and Regional Planning, Fine Arts; Understanding Controls on Trajectory and Velocity in Old-Field Plant Recolonization.


Dr. Gregory A. Voth, Chemistry, SAS; A New Theoretical Approach for Describing Chemical Reaction Dynamics.

Gerard J. Wedig, Health Care Systems, Wharton; Is the Hospital Services Industry Financially Viable?

Liliane Weissberg, German, SAS; Support for a Critical Edition of German Early Romantic Letters.

Daniel Wagner and Vivian L. Gadsden, Literacy Research Center, Education; Minority Access to Literacy: A Preliminary Study of Intergenerational Literacy Among Black and Hispanic Families.

Randall Wright, Economics, SAS; Extending the Foundations of Monetary Theory.
Penn Plus
Theater, lower balconyPenn Plus price$26.50.
Seats Penn Plus price$11.75.
February 11, 2 p.m., Walnut Street Theater, balcony lower balcony Penn Plus price $26.50.
Community Retreat
On February 10, the Lesbian, Gay and Bisexual
Alliance, in conjunction with the Office of
Student Life Programs, will sponsor a community
retreat from 10 a.m.-6 p.m. at The Crossing, 906 S.
49th Street. Faculty, staff and students are invited
to participate in sessions focusing on "Coming Out in the Workplace," "Relationships" and "Les-
bian women and gay men working together in the
Community." Information: 898-5270.

Department of Public Safety
This report contains tallies of part 1 crimes, a listing of part 1 crimes against persons, and
summaries of part 1 crime in the five busiest sectors on campus where two or more incidents were

Crimes Against Persons:

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Location</th>
<th>Offense/Weapon</th>
<th>Arrest</th>
</tr>
</thead>
<tbody>
<tr>
<td>02/01/90</td>
<td>12:00 PM</td>
<td>4700 Kinnearing</td>
<td>Robbery/strong-arm</td>
<td>Yes</td>
</tr>
<tr>
<td>02/01/90</td>
<td>1:00 PM</td>
<td>4700 Market</td>
<td>Robbery/strong-arm</td>
<td>Yes</td>
</tr>
<tr>
<td>02/01/90</td>
<td>1:30 PM</td>
<td>4700 Market</td>
<td>Robbery/strong-arm</td>
<td>Yes</td>
</tr>
<tr>
<td>02/01/90</td>
<td>2:00 PM</td>
<td>4700 Market</td>
<td>Robbery/strong-arm</td>
<td>Yes</td>
</tr>
<tr>
<td>02/01/90</td>
<td>3:00 PM</td>
<td>4700 Market</td>
<td>Robbery/strong-arm</td>
<td>Yes</td>
</tr>
</tbody>
</table>

SafetTip: Do not give the criminal the opportunity
to make you a victim by being careless. Lock
your doors, secure your property and don't leave your belongings unattended!!

18th Police District

Schuylkill River to 49th Street, Market Street to Woodland Avenue

Almanac February 6, 1990

7 Maria Candelaria; 7 p.m.
Nazarin; 8:30 p.m.
8 Ori; 7:30 p.m. Through February 11. February 10 at 9:15 p.m.
14 De Cierta Manera One Way or Another; 7:30 p.m.

FITNESS AND LEARNING

7 Briefing: funding programs for small companies
with new products by the Ben Franklin Tech-
nology Center; 3:30 p.m., University City Science Center, 3624 Market Street. Register: 895-3102
(Ben Franklin Partnership).

13 How To Get A Job With a Small Company; to
help people interested in working for small firms;
4:30-9:30 p.m., fee $45. Registration: Ext. 8-4861
(Wharton Small Business Development Center).

ON STAGE

12 Tibetan Monks from Gaden Shartse; a pro-
gram of healing rituals and visual art forms; 8 p.m.,
International House. Ticket information:
895-6537 (International House).

TALKS

7 Redistributive Characteristics of Authoritarian
and Parliamentary Governments: Implications of Old
Regime France and England for Third-
World Development; Hilton Root, department of
history; 4 p.m., Anspach Lounge, Stiteler Hall
(Political Science and International Relations).

Does Ion Channel Expression Regulate
Important Aspects of Motoneuron Development?;
Kurt Beam, Colorado State University; 4:15 p.m.,
Neuroscience Conference Room, John Morgan
Building (Department of Physiology).

8 Transformation of Skeletal and Cardiac EC-
Coupling by Expression of Cardiac DHP Recep-
tor; Kurt Beam, Colorado State University; 4 p.m.,
Physiology Library, Richards Building (De-
partment of Physiology).

9 Oxygen Injury in the Newborn; Stephen L.
Young, Duke University Medical Center; 12:15
p.m., Seminar Room, John Morgan Building
(Environmental Medicine).

13 The Role of the Superior Colliculus in the
Control of Saccadic Eye Movements; David
Sparks, department of psychology; 4:15 p.m.,
Neuroscience Conference Room, John Morgan
Building (Department of Psychology).

14 The American Presidency Since the New
Deal; Berry D. Karl, University of Chicago; 4
p.m., Room 221, College Hall (History).

Young, Duke University Medical Center, 12:15
p.m., Seminar Room, John Morgan Building
(Environmental Medicine).

Androgen-Controlled Morphogenesis of a Neu-
rovascular System Dedicated To Courtship
Song; Darcy Kelley, Columbia University; 4:15
p.m., Neuroscience Conference Room, John Morgan
Building (Department of Psychology).

ALMANAC ADVISORY BOARD: For the Faculty Senate.
Rick Alwine, department of psychology; 4:15 p.m.,
Neuroscience Conference Room, John Morgan
Building (Behavioral Neuroscience Training Grant, Mahoney Institute).

ALMANAC February 6, 1990