

Almanac

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Pullouts: Summer at Penn

Pictures from Peak Week

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A Crackling Good Time

The man who discovered electricity was surrounded by it last week as Penn celebrated its 250th birthday with sound and light, music and amplified speech for over 14 hours a day. (The photograph at left shows Ben bathed in colored lights for Thursday night's birthday party in Blanche Levy Park. The night before, Philadelphia Electric lit up for "PENN'S 250TH" during the Boat House fireworks.)

At least 15,300 celebrated Peak Week, according to the 250th Office, where 14,919 registrations were tallied along with 400 student performers and about 100 professional artists and entertainers. They massed in the Civic Center four times, beginning with Former President Reagan's 6000 and ending with PennULTIMATE's near-capacity 9600, filled Zellerbach three days running for the Colloquia, and averaged 100 a session for the 100-plus faculty/alumni/student exchanges that kept 25 campus auditoria and classrooms booked solid for three days.

For a visual account of Peak Week, see this week's insert; and see Summer at Penn for the telecast schedule of *World Without Walls*.

Veterinary Medicine: School & Teaching Awards

The School of Veterinary Medicine's 1990 Student Government Teaching Awards were presented on May 5 during the annual Student Government dinner dance.

Designed to enable each of the four classes of the School to honor an individual who exemplifies the highest degree of proficiency in teaching, the award is given to "anyone involved in the educational process who has made a major contribution to our veterinary education through dedicated, creative, and informative teaching." Dr. Bernard H. Shapiro, professor of biochemistry, was the recipient of the Class of 1993 Teaching Award. Dr. James B. Lok, associate professor of parasitology, won the Class of 1992 Teaching Award. Dr. Raymond Sweeney, assistant professor of medicine, received the Class of 1991 Teaching Award. Dr. Leslie King, lecturer in medicine, was presented with the Class of 1990 Teaching Award.

Sue Barbour, an anesthesia technician at VHUP; Dr. David Sweet, an intern at VHUP; and Dr. Michael Rosenzweig, a resident at VHUP also received Student Government Teaching Awards. Dr. Rosenzweig was also the recipient of the Iams Small Animal Clinician Award. Dr. Sweet also won the Dr. Jules Silver Bedside Manner Award.

Dr. Robert Washabau, assistant professor of medicine, was the recipient of the Norden Faculty Teaching Award. This is the 27th year

that this award has been given to recognize outstanding teaching.

Dr. Joan Hendricks, assistant professor of medicine, received the Beecham Research Award.

Dr. Elizabeth Laws, received The William B. Boucher Award for Outstanding Teaching at New Bolton Center by a House Officer.



Ms. Barbour



Dr. Hendricks



Dr. King



Dr. Sweeney



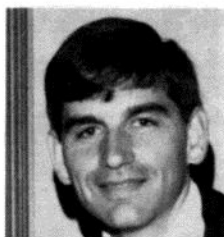
Dr. Lok



Dr. Shapiro



Dr. Rosenzweig



Dr. Sweet



Dr. Washabau



Dr. Rosenzweig

Council: May 9 Actions

At the University Council on May 9, President Sheldon Hackney gave the preliminary makeup of the committee that is to study the diversification of Locust Walk (*Almanac* April 17), and heard proposals for added membership. [See below as later announced.]

Dr. Hackney also announced the University's withdrawal of Psi Upsilon (the Castle) recognition, and the Philadelphia Court of Common Pleas temporary preliminary injunction against enforcement. A hearing is scheduled June 4 in Common Pleas.

Council took up five agenda items in addition to the election of Steering Committee members for the coming year. Passed with slight amendment, and scheduled for publication in a future issue, were proposed changes in Council by-laws (*Almanac* March 20). Also passed were the GAPSA motion in support of extended stay in the U.S. for stranded Lebanese nationals, and Dr. Larry Gross's motion that the University require ROTC units to comply with campus policy on nondiscrimination with respect to affectional preference (also to be published).

Council passed the proposed changes in Open Expression Guidelines (*Almanac* March 20), 18 to 9 with three abstentions recorded.

Debate on proposed changes in the Judicial Charter, (*Almanac* April 3), as student leaders argued for separation of the JIO's present functions to create two Judicial Inquiry Officers—one who would investigate for settlement/mediation/resolution, the other a "prosecuting JIO" who would not have access to information gathered by the settlement JIO.

Provost Michael Aiken reminded that an umbrella committee is to study for consistency the proposed changes in the Judicial Charter as well as adopted changes on Open Expression and any recommendations from the committee reviewing the Academic Integrity code [since published, *Almanac* May 15].

Steering Election: Council elected four faculty members—Drs. Helen C. Davies, Peter Freyd, E. Ann Matter, and Susan Wachter—and two students—Daniel Singer of UA and Andrew Thompson Miller of GAPSA.

Membership of the Committee to Study Diversification of Locust Walk

Co-chair: Dr. Kim Morrisson, VPUL

Co-chair: Dr. David Pope, Engineering

Members:

Dr. Gloria Chisum, chair, Trustees Committee on Student Life

Dr. Drew Faust, chair, University Life Committee

Dr. Robert F. Lucid, chair, Council of Masters

Dr. Almarin Phillips, chair, Faculty Senate

Chair, Council Safety/Security Committee

Chair, Council Facilities Committee

Doris Cochran-Fikes, director, Alumni Relations

Nicholas Constan, assistant to the President

Elli diLapi, director, Penn Women's Center

Tricia Phaup, director, Fraternity/Sorority Affairs

Susan Garfinkel, chair, GAPSA

Duchess Harris, chair, UA

Amita J. Hsueh, president, Panhellenic Council

Bret Kinsella, president, Interfraternity Council

Melanie Shain, Greek Alumni Council

Kathryn A. Williams, chair, Big C

President, United Minorities Council

Chair, Lesbian, Gay, Bisexual Alliance

Advisory/Support Members:

Kemel Dawkins, director, Project Management

Christopher Mason, associate treasurer

Christopher van de Velde, director, Real Estate

Steven G. Poskanzer, associate general counsel

Penn is #1 in AIMS—and Results

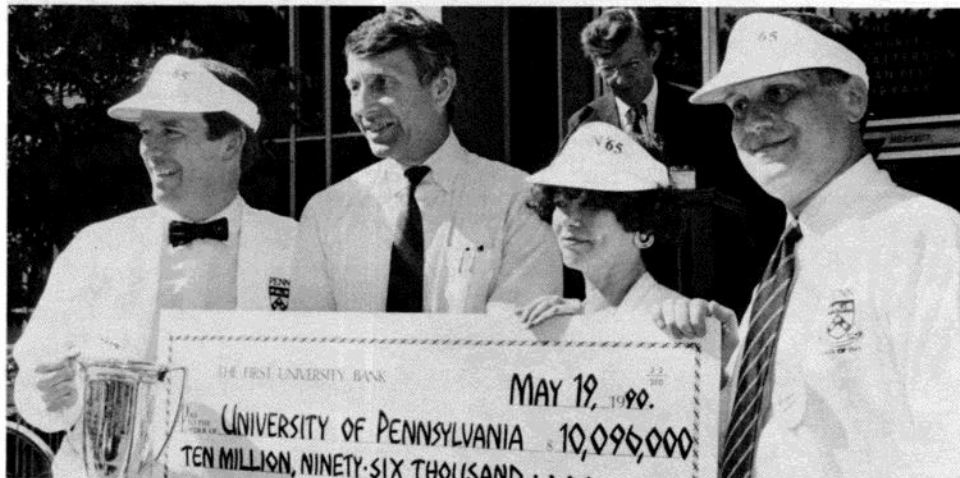
In Chicago next month, Penn Development will pick up the national AIMS (for Achievement in Mobilizing Support) award for Best Total Development Effort by a doctoral-degree granting institution in AY1989. The award, which carries a \$2000 prize and a steel-sculptured trophy, is given by CASE/USX for "excellent planning, management, and results in all aspects of the development operation."

In Penn's case, the results in AY1989 included a 98% increase in total subscriptions over 1988—itsself a record year—and the na-

tion's highest gains for that period both in unrestricted gifts (up 24.5%) and restricted individual gifts (up 61%). Longer term, Penn's planned giving went up 500% between 1985 and 1989—and alumni participation reached a new high of 40%.

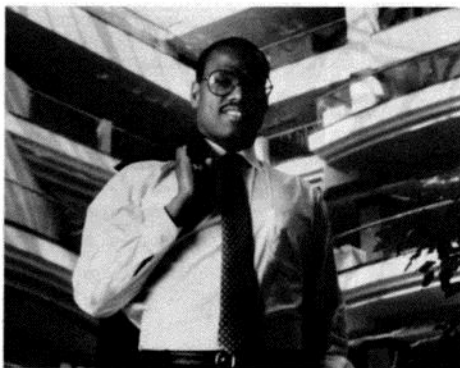
The AIMS award was established four years ago by CASE (the Council for Advancement and Support of Education) and U.S. Steel. First three winners: Princeton, Miami and Duke.

(Below: signs of further record-breaking in the year that ends June 30.)



All-Time Record: The Class of 1965's Alumni Day check for \$10,096,000 (another \$100,000 arrived after the brushwork was done) set a record not only for a 25-year reunion class but for all quinquennial class gifts in Penn's history. Presenting it: 1965 Class President Jim Riepe, left of President Hackney; Suzi Jaffe, Class Gift co-chair (with George Weiss, not shown) and Ron Lauder, Class Reunion chair. Five endowed term chairs were established with the class gift, with funds left over for other restricted and unrestricted uses. Altogether, this year's reunion classes gave nearly \$22.6 million to top last year's record of \$17.54 million. (Note: In the list on page one of last week's issue, the Class of 1975 gift should have been in bold-face type to indicate a record for its reunion year.)

Engineering's Gallery of Distinguished Role Models



Egbert L. J. Perry



Paul E. Wright

For their Gallery of Distinguished Engineering Alumni, the faculty of SEAS do not elect every year—but this year they added two, inducting within a week of each other **Paul E. Wright**, chairman of Chrysler Technologies, and **Egbert L. J. Perry**, president of H.J. Russell & Co., an Atlanta-based real estate and construction firm that is the nation's fourth-largest minority-owned business.

Mr. Perry, took his B.S. in Civil and Urban engineering with honors in 1976 and later a dual master's in the SEAS-Wharton program. At 34, he is one of the youngest ever elected to the Gallery. He joined H.J. Russell in 1980 and eight years later he became president of the \$160-million-a-year enterprise of ten companies in property management, airport construction and communications. He is active in community development and literacy programs in Atlanta.

Mr. Wright (ME '60) has had three distinguished careers, the first and longest (28 years) at RCA where he headed major satellite and radar projects and, as senior vice president for strategic planning, was responsible for planning RCA's merger with GE. In 1986 he became president and CEO of Fairchild Industries; and after rejuvenating that company he took office in 1988 as chairman of his present firm, the aerospace and defense electronics division of Chrysler Corporation.

They bring the total to 20, chosen over a 15-year-period under the criteria that they be

living alumni (at the time of election) who can serve as role models for students not only by being successful but being sensitive to the needs of society and "responsible citizens in this Age of Technology." The last alumnus added before this spring was Nathaniel Wyeth (ME'36), the polymers pioneer now retired from duPont who was elected in 1984.

The gallery on the first floor of Towne Building mounts near life-size portraits of the chosen alumni, photographed with tools of their trades or against symbols of their work. Thus *J. Presper Eckert* (EE '41, GEE '43, H '64), whose portrait is in the foreground of the gallery scene below, has at his elbow the children of ENIAC (out of UNIVAC by Sperry Corporation, where he served as vice president after leaving the Penn faculty).

Some of the alumni names are especially familiar at Penn because the distinguished engineers have also been trustees—*Henry M. Chance II* (CE '34), retired chairman of United Engineers and Constructors, Inc.; television pioneer the late *Sarkes Tarzian* (EE '24, GEE '27), photographed as chair of the firm that bears his name; and *Ralph Landau* (ChE '37), who taught at Penn and Stanford as well as co-founding and serving as chairman of the Halcon SD Group, Inc.

Several have also been Overseers of the School—the late *Robert D. Bent* (ChE '35), retired president of ARCO (who chose Philadelphia City Hall, rather than the company backdrop, for his portrait); *Oliver C. Boileau* (EE '51, GEE '53), president of General Dynamics; *Kenneth A. Roe* (GME '46), president and chairman of Burns and Roe, Inc.; *Charles H. Weaver* (EE '36), retired executive vice president of Westinghouse Electric; and the newly elected Paul Wright.

Academia is represented in the Gallery by the late *Stanley Corrsin* (ME '40), professor of fluid mechanics at Johns Hopkins; his symbolic backdrop is an overflowing desk.

Completing the roster are *John R. Casani* (EE '56) of JPL, project manager of the Galileo Spacecraft Mission for NASA; the late *Richard H. Gabel* (ME '32), president of Superior Tube Company; the late *Harry R. Halloran, Sr.* (CE '23), president and general manager of Conduit and Foundation Corporation; *William H. Rackoff* (MMS '71), president of ASKO, Inc.; *Henry Salvatori* (EE '23), founder and retired CEO of Western Geophysical Company; the late *Adolph O. Schaefer* (ChE '22), executive director of the Metal Properties Council, Inc.; the late *Francis G. Tatnall* (ME '18), director of Vishay Intertechnology; and the late *Ralph R. Teetor* (ME '12), retired president of the Perfect Circle Company.



Undergraduate Education Fund: \$880,000 for Four Schools

In the fifth and final round of awards made through the Undergraduate Education Fund, \$880,000 has been granted to the four undergraduate schools for new and continuing projects.

The Undergraduate Education Fund was established in 1986 as part of a five-year investment program to strengthen undergraduate education. Since that time \$5.6 million has been committed to efforts to enhance the freshman year; support the teaching of basic competencies; advance academic advising; and provide additional opportunities for undergraduate research.

Those projects funded for next year are outlined below.

School of Arts and Sciences: \$550,000

— Funds will go toward the continuing enhancement of the Freshman experience, including support of a peer advising program for the Class of 1994 and the doubling of the number of Freshman Seminars offered.

— The improvement of writing will continue to be a main focus with writing labs being created as special sections attached to already-existing courses. In addition, SAS plans to offer courses comparable to Freshman English in other disciplines that would have the same emphasis on writing, and to offer faculty teaching Freshman seminars the opportunity to affiliate their courses with the Writing across the University program. The use of the computer in improving writing will continue to be stressed.

— Collaborative learning pilot programs will be offered in the foundational sciences courses in biology, chemistry and physics.

— Computer-assisted language instruction will be expanded beyond the current offerings in basic French, Spanish, and German to support instruction in other languages as well.

— Faculty will be encouraged to reexamine the way foundational courses in the natural and social sciences and in the humanities are taught, with special focus on the development of a laboratory course that would integrate biology, chemistry and physics, as well as the development by faculty in SAS and the School of Medicine of a cross-disciplinary program in health, science and behavior.

School of Engineering and Applied Science: \$135,000

— Incorporate the use of computers as an integral part of introductory engineering laboratory courses in mechanical and electrical engineering to help students better understand key concepts, solve problems, and simulate various experiments.

— Expand the use of computer workstations in the undergraduate curriculum to enable students to work with "real" engineering designs, consider alternatives, evaluate the economics, and be motivated to learn the underlying mathematics and science required.

— Computer Terminal support will be provided for four student residences and made available to all students in the residences, not just those in engineering.

— The "Coaching to Success" program will be expanded.

Nursing: \$35,000

— Support will go toward a Collaborative Practice Education Program that is designed to provide nursing and medical students with the opportunity to learn about the roles, responsibilities and relationships of nurses, physicians and other health team members that are fundamental to the delivery of quality patient care. Faculty and students from both the School of Nursing and the School of Medicine will participate.

Wharton: \$160,000

— A team of faculty will design and implement a plan for incorporating ethics into all of the core courses in the Wharton undergraduate curriculum, including Finance 101, Marketing 101, Management 101 and Accounting 101 and 102.

— Honors sections for the Joseph Wharton Scholars Program will be expanded to include sections in Marketing, Management, and Legal Studies.

— Support will be provided to the Wharton Peer Advising program for the retention of advisors and their training and to expand the number of sponsored activities.

Research Facilities Development Fund Awards

The Research Facilities Development Fund supports the improvement, renovation and construction of research facilities at the University, as well as the acquisition of major items of equipment. For FY 1991 and FY 1992, Provost Michael Aiken and Vice Provost for Research Barry Cooperman announce the following awards:

School	Purpose	FY91	FY92
Medicine	Transgenic Mouse Facility	\$350,000	
	Protein Chemistry Laboratory	150,000	
Arts & Sciences	Animal Facilities Psychology and Biology	500,000	
	Cardiac Electrophysiology Laboratory	103,000	
	Sleep Research Laboratory	87,259	
Dental	Dental Implant Clinical Research Facility	103,000	103,000
SEAS	Distributed Systems Laboratory	150,000	
Law/Van Pelt			
Library	Increase Availability of Research Materials	135,000	95,000
Fine Arts	Conservation Science Laboratory	37,746	
Totals		\$1,616,005	\$198,000

Research Foundation Awards: Spring Cycle 1990

Vice Provost Barry Cooperman announces the following awards from the internal Research Foundation to support individual projects. (See also University BRSG Awards, page 5 past inserts.)

Thomas W. Abrams, Biology, SAS, *Cellular Analysis of Synaptic Refinement in Cultured Visual Neurons*.

Linda A. Aiken, Nursing, A *Randomized Controlled Trial of Nurse Practitioner-Managed Care for Persons with HIV*.

Eleni Anni, Biochemistry/Biophysics, Medicine, *Structure and Function of Enzyme Intermediates of Cytochrome c Peroxidase by Resonance Raman Spectroscopy*.

Haim H. Bau, Mechanical Engineering, SEAS, *Transport Processes in Mesoscale Structures*.

Mabel Berezin, Sociology, SAS, *Public Spectacles and Private Enterprises: The Production of Political Ritual in Fascist Italy*.

Richard J. Bookman, Physiology, Medicine, *Improved Instrumentation for the Measurement of Transmitter Release From Single Isolated Nerve Terminals and Cells*.

Gershon Buchsbaum, Bioengineering, SEAS, *Multidimensional Signal Coding in the Visual System*.

Thomas M. Callaghy, Political Science, SAS, *Lost Between State and Market: Theoretical and Comparative Implications of Africa's Political Economy*.

Brenda B. Casper, Biology, SAS, *The Importance of Soil Heterogeneity in Maintaining Species Diversity in Plant Communities*.

Susannah Chang, Anatomy, Medicine, *Molecular Cloning of the Chick DM Antigen*.

Peter Conn, English, SAS, *A Critical Biography of Pearl Buck*.

Adele Diamond, Psychology, SAS, *Effects of Poverty on Cognitive Development During Early Infancy*.

Beshara B. Doumani, History, SAS, *Family and Society in Jabal Nablus, 1800-1860 (Summer Support)*.

Paul H. Edelstein, Pathology & Laboratory Medicine, Medicine, and David Graves, Chemical Engineering, SEAS, *A Model Plumbing System to Grow Legionella Pneumophila*.

Clark L. Erickson, Anthropology, SEAS, *The Archaeology of Raised Field Agriculture in the Llanos de Mojos of Bolivia*.

Solomon Erulkar, Pharmacology, Medicine, and Jerome F. Strauss, Obstetrics & Gynecology, Medicine, *The Modulation of Membrane Currents by Estrogen and Progesterone in Isolated Myometrial Cells of the Human Uterus*.

Ronald F. Feinberg, Obstetrics & Gynecology, Medicine, *Oncofetal Fibronectin: A Trophoblast "Glue" for Normal Human Implantation?*

Alan Filreis, English, SAS, *The George Open Archive*.

Kenneth R. Foster, Bioengineering, SEAS, *Electrostatic Manipulation of Macromolecules and Colloidal Particles*.

Francine R. Frankel, Political Science, SAS, *U.S. India Relations: A Comparative Analysis of Interaction Between Structural Ambiguities and Cognitive, Cultural and Organizational Processes in Creating Self-Fulfilling Beliefs of Hostility Among Political Elites in Both States*.

Kathryn Louise Gleason, Landscape Architecture & Regional Planning, GSFA, *Early Landscape Architecture in the Western World: The Works of Herod the Great*.

Howard Goldfine, Microbiology, Medicine, *Membrane Modification and Solvent Formation in Clostridium Acetobutylicum*.

Raymond J. Gorte, Chemical Engineering, SEAS, *Equipment for Calorimetry Studies of High-Silica Molecular Sieves*.

Yasuhiro Hashimoto, Pathology, Medicine, *Characterization of Novel T Cell Receptor*.

Richard H. Hosier, Program for Energy Management & the Environment, GSFA, *The Use and Management of Forest Resources in Nepal: A Case Study of Thak Village*.

Anjani Jain, Decision Sciences, Wharton, *Martingale Inequalities and the Complete Convergence of Euclidean Functionals*.

Lori Jardines, Surgery, Medicine, *Use of Genetic Alteration in Staging of Colorectal Cancer*.

Charles H. Kahn, Philosophy, SAS, *Plato and the Creation of the Socratic Dialogue*.

Ruth Mazo Karras, History, SAS, *Prostitution and Female Sexuality in Late Medieval England: Law, Practice and Cultural Context*.

Michael B. Katz, History, SAS, *Surviving Poverty in New York City, 1890-1920*.

Donald B. Keim, Finance, Wharton, *The Risk and Return Characteristics of Stock Market-Based Real Estate Indexes*.

Ellen Kennedy, Political Science, SAS, *Nation-Building and Legitimacy Germany's Constitutional Resources*.

Alan C. Kors, History, SAS, *Heterodoxy and Atheism in Early-Modern France*.

Paul Korshin, English, SAS, *Samuel Johnson and His Intellectual Contexts*.

Anthony Kroch, Linguistics, SAS, *Head-Complement Order in the History of the West Germanic Clause*.

Kenneth Lande, Astronomy & Astrophysics, SAS, *Computer Control System for Search for Neutrino Burst from Collapsing Stars*.

William S. Laufer, Legal Studies, Wharton, *A Measure of Expectation of Privacy*.

J. Chris Leach, Finance, Wharton, *Repeated Capital Budgeting Problem and Relevant Sunk Cost*.

Marsha Lester, Chemistry, SAS, and Ward Plummer, Physics, SAS, to purchase a Gas Phase Spectrometer from Exxon, to be used in *Synchrotron Radiation Studies of Clusters*.

Kersti K. Linask, Pediatrics, Medicine, *Analysis of Fibronectin Synthesis by Precardiac Mesoderm Using Molecular Biological Tools and Possible Modulation by Transforming Growth Factor- β* .

Noam Lior, Mechanical Engineering, SEAS, *Fundamentals of Electronic Sensor and Circuit Packaging: A New Interdisciplinary Research Initiative*.

Robert F. Lucid, English, SAS, *The Young Norman Mailer: A Biography*.

Joan E. Lynaugh, Nursing, *Nursing History: Accessing and Documenting*.

Archie Craig MacKinlay, Finance, Wharton, *Decision Horizons and the Temporal Risk of Equities*.

Roberto S. Mariano, Economics, SAS, *Modeling External Debt of Oil-Importing Developing Countries*.

E. Ann Matter, Religious Studies, SAS, *Stage One of a Critical Edition of Lanfranc of Bec's Commentary on the Pauline Epistles*.

Richard R. Miselis, Animal Biology, Veterinary Medicine, *Analysis of Transneuronal Transfer of Neurotropic Viruses in Rat Brain: Is it Transynaptic and If So What is the Cell Topography of Transfer?*

Stanley J. Opella, Chemistry, SAS, *New Method of Determining the Structures of Membrane Proteins*.

Benno L. Petrig, Ophthalmology, Medicine, *Portable Laser Doppler Velocimetry System*.

Gary E. Pickard, Psychiatry, Medicine, *Cross-Species Neural Transplantation of Circadian Behavior*.

David P. Pope, Mechanical Engineering, SEAS, *Equipment for Melting and Casting of Intermetallic Compounds*.

Madhav V. Rajan, Accounting, Wharton, *Performance Evaluation in Production Environments*.

Philip A. Rea, Biology, SAS, *Vacuolar H⁺ Translocating Inorganic Pyrophosphatase of Non-Plant Vacuolate Cells*.

John C. Reed, Pathology & Laboratory Medicine, Medicine, *Production of Antibodies for Proteins Encoded by BCL2, the Gene Involved in Human Lymphomas*.

Michaela Richter, Political Science, SAS, *Beyond Reunification: Repercussions for the Party System of a United Germany*.

Peter Ronner, Biochemistry/Biophysics, Medicine, *Regulation of ATP-Sensitive Potassium Channels by G-Proteins*.

Douglas T. Ross, Neurosurgery, Medicine, (continued past inserts)

Rose Fund Awards: Student Winners, Faculty Advisors

The Rose Fund Faculty Advisory Committee and the Council of Undergraduate Deans have approved five projects for 1990 in the Rose Foundation Undergraduate Research Awards, which provide \$800 for the student and \$200 for the supporting faculty advisor. The winners and their topics:

Rachel Algaze, College, *Experimental Results of Presentation Effects on Strategy Choice*. Advisor: Dr. Colin Camerer, associate professor of decision sciences.

Robert Mackey, College, *Make Sense Who May, or, What's It Meant to Mean: Investigating the Performance Art of Samuel Beckett*. Advisor: Dr. Vicki Mahaffey, associate professor of English.

Shari L. Senzon, College, *Alterations in the Bilateral Distribution of Beta-Adrenergic Receptor Subtypes in the Schizophrenic Postmortem Human Brain*. Advisor: Dr. Andrew Winokur, professor of psychiatry.

Iris Zamir, College, *The Effects of Low Extracellular Calcium on Embryonic Chick Cardiac Myocytes*. Advisor: Dr. Howard Holtzer, professor of anatomy/Med.

Alan Stein, Engineering and Applied Sciences, *Computer Generated Holograms: A Simplified Ray-Tracing Approach*. Advisor: Dr. John S. Leigh, professor of biochemistry and biophysics/Med.

Research Foundation Awards continued

Is Neuronal Loss Evident in the Thalamic Reticular Nucleus Following Head Injury or Global Cerebral Ischemia in the Brains of Humans and Subhuman Primates?

John P. Sabini, Psychology, SAS, *Studies of Embarrassment*.

Thomas Max Safley, History, SAS, *Independent Craftsmen or Dependent Laborers*.

Peggy R. Sanday, Anthropology, SAS, *Nature and Matriliney: Magic and Megaliths—Unity and Difference in Minangkabau Culture and History*.

Peter D. Sherer, Management, Wharton, *Departures from the Industrial Model of Employment: Consequences for Employee Commitment*.

Franklin C. Southworth, Regional Studies, SAS, *Extralinguistic Communication in South Asia*.

Theresa A. Spiegel, Psychiatry, Medicine, *Diurnal Cycles of Lipid Metabolism in Lean and Obese Humans*.

Steven L. Spitalnik, Pathology & Laboratory Medicine, Medicine, *DNA Sequencing of Mutant Glycoproteins*.

Hansell Hall Stedman, Surgery and Anatomy, Medicine, *Forced Expression of Skeletal Muscle Myosins in Heterologous Cells: Strategies for the Study of Structure/Function Relationships In Vivo*.

Leslie J. Stein, Psychiatry, Medicine, and Mary Anne Della Fera, Clinical Studies, Veterinary Medicine, *Behavioral Effects of Weight Cycling: Interaction with CCK-8 in the Dietary Obese Female Rat*.

H. Lee Sweeney, Physiology, Medicine, *Probing the Function of the Myosin Light*

Chains with Mutagenesis and Reconstitution.

Peter Swenson, Political Science, SAS, *World Markets and National Labor Relations: Proposal for Comparative Research on Employer Strategy in Sweden*.

Paul Taubman, Economics, SAS, *Intergenerational Economic Relationship*.

Frances W. Thurber, Nursing, *A Developmental Comparison of HIV+ Children on Azidothymidine (AZT) Therapy*.

Noga Vardi, Anatomy, Medicine, *Structure and Function of the Retinal Circuit for Starlight*.

Frank A. Welsh, Neurosurgery, Medicine, *Effect of Ischemia on Gene Expression in Rat Brain*.

Michael M. White, Pharmacology, Medicine, *Molecular Cloning of Somatostatin Receptor Subtypes*.

Saul Winegrad, Physiology, Medicine, *The Quantitative Relation Between Brief Signals to the Conscious Rat and Expression of Genes Encoding Contractile Proteins in the Heart*.

Eugene K. Wolf, Music, SAS, *Music from Mannheim: A Methodological Study of the Manuscripts (Conclusion)*.

Marvin E. Wolfgang, Legal Studies, Wharton, *Collaborative Research of Juvenile Delinquency in a Chinese Birth Cohort*.

Arjun G. Yodh, Physics, SAS, *Femtosecond Infrared Spectroscopy of Adsorbates on Metals*.

Jay N. Zemel, Electrical Engineering, SEAS, *A Precision Motorized Injection Pipette and a Precision Viscometer for Measurements on Fluid Flow in Micron, Submicron Channels*.

Yael Zerubavel, Oriental Studies, SAS, *Myths of Heroism and Survival: Cultural Representations of the Past in Israeli Society*.

1990 University Biomedical Research Support Grants

Hansruedi Boehringer, Pathology, Medicine, *Studies on the Molecular Genetics of Treponema Denticola*.

Daniel Bogen, Bioengineering, SEAS, Computer maintenance to support Cardiac Mechanics research.

Clifford A. Brass, Gastrointestinal Section, Medicine, and John G. Hexem and Robert E. Shangraw, Anesthesia, Medicine, *NMR Spectroscopic Evaluation of Cellular Injury and Energy Metabolism in the Hypoxic Liver*.

Maja Bucan, Psychiatry, Medicine, *Molecular Analysis of Genes Encoding Alpha Adrenergic Receptors*.

Patrick Carroll, Chemistry, SAS, Proposal to make the X-Ray Crystallography Facility in the Department of Chemistry stand-alone.

Susannah Chang, Anatomy, Medicine, *Development of Chick Cranial Nerves*.

Mary Helen Foster (appointment to begin July 1, 1990), Medicine, *Unraveling the Molecular Basis of Antibody-Mediated Renal Disease in Lupus: Variable Region Sequence Analysis of Nephritogenic Autoantibodies*.

Howard Goldfine, Microbiology, Medicine, *Structure and Function of Bacterial Lipids*.

Sol H. Goodgal, Microbiology, Medicine, *Transformation in Haemophilus*.

Francis E. Johnston, Anthropology, SAS, *Perceptual and Motor Reflex Development in Full and Preterm Cocaine-Exposed Infants*.

Roland Kallen, Biochemistry/Biophysics,

Medicine, *Novel Methods for Identifying Target Proteins: The Insulin Receptor as a Case Study*.

Harvey Kliman, Pathology, Medicine, *Regulation of Human Trophoblast and Choriocarcinoma Cell Invasion*.

Bruce T. Liang, Cardiovascular Medicine, *Heterologous Regulation of A₁ Adenosine Receptors in Cultured Atrial Myocytes*.

Jane Menken, Sociology, SAS, Support for Local Area Network of the Population Studies Center.

Jon B. Morris, Surgery, Medicine, *Ischemic Intestinal Injury: Effect of Glutamine on Splanchnic Hemodynamics and Mucosal Injury*.

Martin Pring, Medicine, Medical School Computer Facility support.

Philip A. Rea, Biology, SAS, *Structure-Function of Vacuolar H⁺—Translocating Inorganic Pyrophosphatase*.

Douglas T. Ross, Surgery, Medicine, *Prevention of Retinal Ganglion Cell Degeneration Following Optic Nerve Transection in the Adult Rat*.

James M. Sprague, Anatomy, Medicine, *The Role of the Midbrain in Orienting of Attention in Visual Discrimination*.

Saul Sternberg, Psychology, SAS, *Dynamics of Visual Representation*.

Edward R. Thornton, Chemistry, SAS, *Titanium Enolates: Powerful Reagents for Stereocontrol*.

To Avoid 'Bouncing' C-Forms

The Travel Office returns approximately 600 travel and entertainment advance and reimbursement requests (C-forms) per month for correction. This results in delayed payment to travelers as well as increased work for your departmental staff and mine.

In order to ensure timely payment and minimize duplicate effort, I have sent all business administrators a checklist of those items that should be reviewed before forwarding any C-form to the Travel Office, and have asked them to circulate the list to all who complete and/or authorize travel and entertainment advance and reimbursement requests.

I urge every member of the University who travels or entertains on a University budget to become familiar with this checklist. It would be especially useful for you to review the list of items your business administrator *must* have from you in order to follow through on your requests for reimbursement.

—Lyn Hutchings,
Travel Administrator

Travel/Entertainment (C-Form) Checklist

Form Signed:

- ___ By payee?
- ___ By TAC cardholder?

Information Complete:

- ___ Payee information?
- ___ Department information?

Embossing:

- ___ Form embossed?
- ___ Amount within TAC card limit?

Original Receipts Included (C-1):

- ___ Airline or Amtrak ticket passenger coupon? Additional approval needed for first, business class or Metroclub.
- ___ Itemized hotel statement? Single rate, or explanation needed for double room.
- ___ Car rental agreement?
- ___ Registration receipt?
- ___ Receipt for any item \$25.00 or more?

Outstanding Advance (s) Accounted for:

- ___ Travel/entertainment advances?
- ___ University prepaid expense?
- ___ University Travel Authorization (C-5)?

Foreign Travel:

- ___ Exchange rate listed?
- ___ Receipts converted to USD?

Account Information:

- ___ Correct account number?
- ___ Funds available/budgeted?

With this profile of the foreign student enrollment for last year, the Office of International Program reminds that up to 600 new arrivals are expected in the fall of 1990. Some will need temporary housing—perhaps only overnight, or two to three nights at the most. Any member of the faculty or staff who can spare a bedroom late in August or early in September is urged to call Ms. Kuhlman at Ext. 8-4661.

Foreign Student Enrollment at Penn in Academic Year 1989-90

The 1989-90 enrollment of 2778 foreign students from 108 countries represents a 4.5% increase over the 1988-89 enrollment of 2654 students. In the five years since 1985-86 the foreign student enrollment at the University of Pennsylvania has increased by almost 30%. Foreign students represent 12.2% of the total full time student enrollment of 18,939-7% (653) of the undergraduate student population; 18.4% (1757) of the graduate and professional student population. (The 223 students on practical training and the 145 English Language Program students category are not included in these percentiles.)

This year's geographical breakdown shows a 12% increase in the number of students from Japan (as compared to 32.8% in 1988-89). This increase in the numbers of Japanese students is due primarily to the enrollment of Japanese students in the English Language Program. The enrollment of students from China showed a 16% increase over the previous year. Japan, Korea, China, India and Canada are the top five feeder countries. The distribution of students by geographical regions remains relatively unchanged over the previous year.

The foreign students statistics are compiled annually and a summary of the statistics are reported to the Institute of International Education for

inclusion in its publication, *Open Doors*. These figures include only those full time students on non-immigrant visas; they do not include persons with immigrant or refugee status.

The national statistics on foreign student enrollment for the 1988-9 academic year (as reported in *Open Doors*, 1988-89, ranked the University of Pennsylvania, with an enrollment of 2654 foreign students, 4th among private institutions and 9th among all post-secondary institutions (up from 13th in 1987-88). Among the Ivy institutions, Penn has the largest total enrollment of foreign students, ranking first in foreign undergraduate enrollments and fourth in foreign graduate enrollments.

Our in-house foreign student data base is up and running and we are able to provide you with a variety of reports based on school or departmental affiliation, country of citizenship, field of study, years of study, source of funding, etc. If you would like more information about the foreign student population in your school or have any questions about these statistics please feel free to call me.

—Ann Kuhlman, Associate Director
Office of International Programs

Foreign Students at the University of Pennsylvania A Statistical Overview

	1989-90	1988-89	1987-88	1986-87	1985-86
Total	2778	2654	2255	2125	2012
Male	2030	1931	1670	1589	1533
Female	748	723	585	536	479
Single	2165	2046	1685	1643	1498
Married	613	608	570	482	514
Academic Level					
Undergraduate	579	576	501	420	369
Masters	636	607	462	522	624
PhD	1035	1029	978	870	737
Professional Trng	55	58	53	47	29
Non-degree	105	69	58	47	84
Intensive English	145	138	85	63	61
Practical Training	223	177	118	156	108
Primary Source of Funding					
Personal/Family Funds	1273	1273	1054	985	941
Penn	770	714	651	500	481
Home Gov't/University	158	193	191	196	197
Foreign Private	194	129	88	142	134
U.S. Government	73	78	83	91	101
U.S. Private	51	55	39	49	45
Int'l Organization	36	35	31	6	5
Practical Trng Income	223	177	118	156	108
Top Ten Feeder Countries					
Japan	307	271	182	146	137
Korea	236	213	198	208	195
China	225	189	151	120	89
India	184	188	161	145	127
Canada	166	152	120	105	98
Taiwan	158	161	144	160	143
United Kingdom	130	130	111	106	122
France	86	87	71	67	62
Germany	54	58			
Philippines	52	69	62	57	52

Undergraduate/Graduate & Professional Students 1989-90

	Undergraduate	Graduate/Professional	Other*
Total	579	1726	473
Male	421	1291	318
Female	158	435	155
Single	573	1195	397
Married	6	531	76
Primary Source of Funding			
Personal/Family Funds	430	663	180
Penn	92	635	43
Home Gov't/University	23	132	3
Foreign Private	15	166	13
U.S. Government	10	59	4
U.S. Private	8	38	5
International Organization	1	33	2
Practical Training Income			223
Top Feeder Countries			
Japan (307)	23	120	128
Korea (236)	14	184	15
China (225)	8	166	15
India (184)	48	123	17
Taiwan (158)	8	136	17
Canada (166)	67	75	10
U.K. (130)	21	82	27
France (86)	11	41	35
Germany (54)	19	28	7
Hong Kong (54)	32	15	7
Philippines (52)	17	26	9
Pakistan (51)	25	23	3
Spain (51)	10	30	11
Greece (50)	11	33	6
Italy (45)	7	33	5
Israel (44)	28	10	3
Turkey (44)	14	25	5

* Other includes non-degree students (105), students enrolled in the intensive English Program (145) and students who have graduated and who remain under the sponsorship of the University of Pennsylvania for a short period of practical work experience (223).

1989-90 International Student Enrollment: Ivy League and Friends

	All Students			Foreign Students		
	Grad/Prof (%)	Undergrad (%)	Total	Grad/Prof (%)	Undergrad (%)	Total (% of T.Enrollment)
Penn	9,544 (50.39)	9,395 (49.61)	18,939	1,726 (18.08)	579 (6.16)	2,305 (12.17)
Harvard	10,487 (61.40)	6,592 (38.60)	17,079	1,844 (17.58)	402 (6.10)	2,246 (13.15)
Cornell*	5,750 (30.48)	13,115 (69.52)	18,865	1,723 (29.97)	415 (3.16)	2,138 (11.33)
Columbia**	12,714 (68.68)	5,798 (31.32)	18,512	1,878 (14.77)	237 (4.09)	2,115 (11.43)
Stanford	6,849 (51.29)	6,505 (48.71)	13,354	1,726 (25.20)	355 (5.46)	2,081 (15.58)
MIT	5,231 (54.84)	4,308 (45.16)	9,539	1,676 (32.04)	364 (8.45)	2,040 (21.39)
Yale	5,240 (50.32)	5,173 (49.68)	10,413	926 (17.67)	156 (3.02)	1,082 (10.39)
Princeton	1,831 (28.92)	4,500 (71.08)	6,331	619 (33.81)	220 (4.89)	839 (13.25)
Brown	1,641 (22.38)	5,691 (77.62)	7,332	422 (25.72)	412 (7.24)	834 (11.37)
Dartmouth	1,089 (21.75)	3,919 (78.25)	5,008	185 (16.99)	222 (5.66)	407 (8.13)

* Does not include Cornell Med, which has a total enrollment of 580, of which 75 (12.93%) are international students.

** Main Campus; excludes Barnard and Teachers' College.

3/90 ISSO Cornell

Penn Foreign Student Enrollment By School 1989-90

School	1989-90	1988-89	1987-88	1986-87	1985-86
School of Arts & Sciences					
The College	207	188	162	125	111
Graduate Faculty	523	518	501	481	482
College of Gen'l St.	27	24	20	17	26
Eng. Lang. Prog.*	145	138	85	63	61
Total	902	868	768	686	680
The Wharton School					
Undergraduate	184	175	153	129	106
Graduate (MBA/ PhD)	448	421	356	366	401
Evening Program	43	37	34	40	56
Total	675	633	543	535	563
School of Engineering and Applied Sciences					
Undergraduate	196	201	171	140	89
Graduate (MSE/PhD)	203	205	289	199	193
Total	399	406	360	339	282
Graduate School of Fine Arts					
	261	259	214	205	209
The Law School					
	62	67	47	54	49
Graduate School of Education					
	55	58	54	45	26
School of Dental Medicine (DMD & Postdoc)					
	48	50	38	26	15
Annenberg School for Communication					
	49	45	39	26	28
Biomed. PhD Prog.					
	52	35	24		
Lauder Institute					
	16	16	19	20	16
School of Social Work					
	12	14	10	5	8
School of Nursing					
Undergraduate	1	1	0	4	2
Graduate	13	13	4	9	8
Total	14	14	4	13	10
School of Veterinary Medicine (VMD & Int'ships)					
	7	7	13	12	14
School of Medicine					
	3	5	4	3	4
Practical Training**					
	223	177	118	156	108
Total	2778	2654	2255	2125	2012

* This figure reflects the number of full time students on non-immigrant visas during the Fall II session of the English Language Program (October - December 1989).

** Foreign students are permitted a short period of practical training employment after the completion of their academic program, during which time they remain under the visa sponsorship of the University.

Penn Foreign Students by Geographical Region, 1989-90

East Asia (1169=42.08%)		South America (149=5.36%)	
Burma	2	Argentina	30
China	225	Bolivia	3
Hong Kong	54	Brazil	35
Indonesia	27	Chile	14
Japan	307	Colombia	21
Korea	236	Ecuador	3
Malaysia	41	Guyana	3
Philippines	52	Paraguay	1
Singapore	28	Peru	23
Taiwan	158	Uruguay	3
Thailand	39	Venezuela	13
Europe (536=19.29%)		Sub-Saharan Africa (98=3.53%)	
Austria	5	Botswana	2
Belgium	16	Cameroon	1
Denmark	7	Ethiopia	4
Finland	7	Ghana	8
France	86	Ivory Coast	1
Germany	54	Kenya	2
Greece	50	Liberia	3
Iceland	2	Madagascar	2
Ireland	15	Nigeria	13
Italy	45	Senegal	2
Luxembourg	1	Sierra Leone	4
Netherlands	24	Somalia	3
Norway	7	South Africa	27
Portugal	3	Sudan	7
Spain	51	Swaziland	3
Sweden	17	Tanzania	6
Switzerland	16	Togo	3
United Kingdom	130	Uganda	3
South Asia (265=9.54%)		Central America and Caribbean Islands (78=2.81%)	
Bangladesh	13	Zaire	2
India	184	Zambia	1
Mauritius	4	Zimbabwe	1
Nepal	3	Central America and Caribbean Islands (78=2.81%)	
Pakistan	51	Bahamas	4
Sri Lanka	10	Barbados	5
Middle East and North Africa (227=8.17%)		Bermuda	1
Algeria	13	Costa Rica	4
Cyprus	19	Dominican Rep.	7
Egypt	19	El Salvador	5
Iran	26	Guatemala	5
Iraq	4	Honduras	3
Israel	44	Jamaica	5
Jordan	6	Netherland Antilles	2
Kuwait	1	Nicaragua	1
Lebanon	14	Panama	10
Libya	1	Trinidad&Tobago	14
Morocco	6	Oceania (28=1.010%)	
Oman	1	Australia	19
Qatar	1	New Zealand	9
Saudi Arabia	13	Eastern Europe & USSR (27=9.7%)	
Syria	1	Bulgaria	1
Tunisia	12	Hungary	6
Turkey	44	Poland	4
Yemen Arab Rep.	2	Romania	1
North America (201=7.24%)		Yugoslavia	12
Canada	166	USSR	3
Mexico	35		

Total Number of Students: 2778 Number of Countries Represented: 108



Book Store Chief: Mike Knezic

Former Associate Director of the Penn Book Store Michael Knezic has been chosen as its new director, Steven D. Murray, associate vice president for business services, has announced. Mr. Knezic (left), who took his B.S. in accounting from LaSalle College, joined the Book Store as controller in 1984 after 20 years at Gimbel's.

He succeeds Elizabeth Tuft, who left for full-time study toward a master's degree at Wellesley.

Memorial Service for Dr. Hirsch

The University of Pennsylvania Libraries invites the University community to a memorial for Dr. Rudolf Hirsch in the Lessing J. Rosenwald Gallery, 6th floor, Van Pelt Library, Friday June 1st, at 4 p.m.

Dr. Hirsch, associate director emeritus of libraries and associate professor of history, died February 25th at the age of 83.

The University of Pennsylvania Police Department

This report contains tallies of part 1 crimes, a listing of part 1 crimes against persons, and summaries of part 1 crime in the three busiest sectors on campus where two or more incidents were reported between
May 21, 1990 and May 27, 1990.

Total: Crimes Against Person-2, Thefts-11, Burglaries-1,
Thefts of Auto-0, Attempted Thefts of Auto-1

Date	Time	Location	Incident
Crimes Against Persons:			
05/23/90	9:09 PM	Williams Hall	Bike taken/hammer/3 arrests
05/23/90	10:07 PM	3700 Block Spruce	Robbery/Strong-arm/Wallet taken
34th to 38th; Civic Center to Hamilton			
05/21/90	6:57 PM	Anat.-Chem. Wing	Unattended wallet taken
05/22/90	8:36 AM	Kaplan Wing	Vacuum cleaner pump taken
05/22/90	1:37 PM	Blockley Hall	Wallet taken and recovered
05/24/90	3:47 PM	Leidy Lab	Unattended cash & walkman taken
05/25/90	11:42 AM	Nursing Ed Bldg	Typewriter taken
34th to 36th; Spruce to Locust			
05/23/90	9:09 PM	Williams Hall	See entry: crimes against persons
05/24/90	6:59 PM	Duhring Wing	Unattended camera & lenses taken
05/25/90	12:17 PM	Houston Hall	Wallet taken
33rd to 34th; Spruce to Walnut			
05/24/90	2:27 PM	Chemistry Bldg	Bike taken from rack
05/25/90	10:12 AM	Smith Hall	Cassette player taken

There was no 4th or 5th busiest sector during this period

Safety Tip: If someone calls you with an obvious wrong number, ask what number the person was trying to reach. If it isn't yours say so politely and ask the caller to try again. Never say "This is..." and give your number to a stranger. You may think you are helping the caller avoid dialing your number again, but instead you may become subject to harassing calls.

18th District Philadelphia Police

Schuylkill River to 49th Street Market Street to Woodland Avenue
12:01 AM May 14, 1990 to 11:59 PM May 20, 1990

Totals: 14 Incidents, 4 Arrests

Date	Time	Location	Offense/weapon	Arrests
5/14/90	10:55 PM	4312 Walnut	Agg Assault/fists	Yes
5/14/90	11:25 PM	3900 Walnut	Robbery/strong-arm	No
5/15/90	3:25 AM	3801 Chestnut	Robbery/gun	No
5/15/90	5:00 AM	4735 Cedar	Robbery/strong-arm	No
5/15/90	7:15 PM	4200 Market	Agg Assault/bbat	No
5/15/90	10:54 PM	1336 S. May	Agg Assault/knife	No
5/17/90	12:02 AM	4842 Walnut	Robbery/gun	No
5/18/90	1:44 AM	4228 Pine	Robbery/strong-arm	Yes
5/19/90	1:25 AM	4000 Locust	Robbery/strong-arm	No
5/19/90	11:15 AM	310 S. 48	Robbery/gun	No
5/19/90	10:55 PM	3700 Locust	Robbery/gun	Yes
5/20/90	12:00 AM	3401 Civic	Robbery/gun	No
5/20/90	2:30 AM	3701 Chestnut	Agg Assault/fists	No
5/20/90	11:07 AM	4505 Chstnut	Agg Assault/fists	Yes

Funds for Nursing Collaboration

The School of Nursing is accepting applications for its clinical collaboration program, which funds projects demonstrating clinical collaboration of nurses and physicians. Projects focus on the clinical practice of nurses and physicians in a collaborative health care delivery model, and must involve an experienced nurse who is a full-time faculty member (or doctoral student) at the School of Nursing. The funded work must be conducted at a University of Pennsylvania clinical facility.

A maximum of \$10,000 is available for each project. Special preference will be given to projects that include a physician who is affiliated with HUP, and to projects conducted at HUP and Children's Hospital of Philadelphia.

The application deadline is July 2. For guidelines, call Ext. 8-1942.

Summer Temps from PSA

Penn Student Agencies offers two services to all University offices this summer:

Messenger Service: Either on a per-use basis or at a flat fee, PSA messengers hand-carry documents from one campus office to another. For the flat fee (\$200 for the entire summer), a messenger comes to the office daily between 11 a.m. and 2 p.m. Under the per-use plan, the charge is \$7 for 1 to 5 envelopes, \$9 for 6 to 10 envelopes.

PENN Temps: As with the academic-year service staffed by Penn students, fees depend upon skill levels: Level I (errands, filing, stuffing envelopes, etc.) is \$8.95/hr. Level II (receptionist services, moving) is \$9.95/hr. and Level III (heavy typing, word-processing) is \$10.95/hr. A discount will be given to offices that use the service for more than 10 hours a week; at least 48 hours' notice is required for a temp. For information call Ext. 8-6815.

Break for Now: The May 29 issue of *Almanac* completes Volume 36. Volume 37 begins with a mid-July issue (copy due by June 30). We resume weekly publication with a late August issue mailed individually to all faculty and staff, (deadline August 15). The office is open throughout the summer to assist those planning fall insertions.

Almanac

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