

Almanac

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Two Men Held in Death of Meera Ananthakrishnan

Two men were arraigned Friday and are being held without bail in the murder of Meera Ananthakrishnan at Graduate Towers over the Thanksgiving holiday.

Charles Weatherbe, 25, of the 5800 block of Hadfield Street in Southwest Philadelphia, was arrested Friday before noon—traced by homicide detectives through attempted use of the 24-year-old physics student's bank card.

George Stump, 18, of Harrisburg, was later implicated, and was found in custody in Radnor on unrelated robbery charges.

Both men are now in the Philadelphia Detention Center awaiting hearing Wednesday on charges of murder, robbery, burglary, conspiracy, and possession of an instrument of crime. Police also found in the possession of one suspect a radio and cassette player that had belonged to Ms. Ananthakrishnan.

The major break in the case came when police learned that on Friday, November 29, there had been three unsuccessful attempts to use Ms. Ananthakrishnan's bank card. Homicide investigators traced the attempts to Char-

les Weatherbe, a.k.a. Charles Carter. Subsequently detectives began seeking George Stump, identified as a cousin of Weatherbe. Monitoring the policy teletype, city police spotted an information exchange in which Radnor police, who had arrested Stump Thursday night in connection with the theft of four wallets from a hair salon, were advised that he

was wanted in Harrisburg on two counts of rape and two counts of robbery. Philadelphia filed a detainer in Radnor and Stump was moved to the Philadelphia Detention Center where he was charged Monday.

Following the arrests, Philadelphia Police cleared up some of the major questions being asked by the campus community since the discovery of Ms. Ananthakrishnan's body the Monday after Thanksgiving. Her roommate had last seen the victim alive at 6:30 p.m. Wednesday, November 27, as she left for the holidays. She returned to the room just before noon Monday, December 2, and found Ms. Ananthakrishnan's body—nude from the waist down, bound to her bed and gagged. First reports were that Ms. Ananthakrishnan had been strangled, possibly in the course of sexual assault, and that absence of signs of forced entry indicated someone known to her as the assailant. Later reports say:

- Ms. Ananthakrishnan died of a stab wound and was not strangled.
- She was not sexually assaulted.
- There were two assailants, who chose her third-floor efficiency apartment at random and gained entry by asking to use her telephone.

No information was released on how the men entered Nichols House itself. Wide coverage has been given to the fact that strangers can enter on the heels of residents using keys. Philadelphia Police are reportedly still seeking witnesses who were in the Towers, or visited them, over the holidays for a further trace on the entry method.

Safety Consciousness

Undergraduate and graduate residences alike responded to the news of Meera Ananthakrishnan's death with increased concern for security. Two meetings Wednesday night in

(continued on page 2)

Memorial to Dr. Gomberg

A memorial service will be held Thursday, December 12, at 3:30 p.m. in Bodek Lounge of Houston Hall for Dr. William Gomberg, the eminent professor of management whose death was reported at presstime. Details of Dr. Gomberg's distinguished career will appear next week. His widow, Adeline Gomberg, and their daughter, Paula Gomberg Higgins, will welcome the attendance of colleagues and friends at Thursday's service. Contributions may be made to a memorial fund established in Dr. Gomberg's name at the Wharton School.

SENATE

Under the Faculty Senate Rules as amended April 22, 1981, formal notification may be accomplished by publication in Almanac in lieu of direct mail. The following is published under that rule:

To: Members of the Standing Faculty
From: Anthony R. Tomazinis, Chair

Nominations for Offices Requested

Pursuant to Section II(b)(i) and (ii) of the Rules of the Faculty Senate you are invited to suggest candidates for the posts and terms stated below, with supporting letters if desired. Candidates' names should be submitted promptly to the Chair of the Senate, 15 College Hall/6303, who will transmit replies to the Nominating Committee.

The following posts are to be filled for 1986-87:

Chair-elect of the Senate (1 year)
(Incumbent: Roger D. Soloway)

Secretary-elect of the Senate (1 year)
(Incumbent: Edward M. Peters)

Four At-large Members of the Senate Executive Committee (3 years)
(Incumbents: John P. Brady, Michelle Fine, Antoine Joseph, Susan M. Wachter).

Three members of the Senate Committee on Academic Freedom and Responsibility (3 years)
(Incumbents: Frank Goodman, Seymour J. Mandelbaum, Wendy L. Steiner)

Two members of the Senate Committee on the Economic Status of the Faculty (3 years)
(Incumbents: Jean Alter, Diana H. Crane)

Nominating Committee Elected

The Senate Executive Committee's slate of nominees for the Senate Nominating Committee was circulated to the Senate Membership on November 12, 1985. No additional nominations by petition have been received within the prescribed time. Therefore, pursuant to the Senate Rules, the Executive Committee's slate is declared elected. Those elected are:

June Axinn (professor of social work), *Chair*
Susan Cohen (assistant professor of nursing)
John deCani (professor of statistics)
Robert Giegengack (associate professor of geology)
Larry Gross (professor of communications)
John Keene (professor of city & regional planning)
Paul Korshin (professor of English)
Paul Kleindorfer (professor of decision sciences)
Iraj Zandi (professor of civil engineering)

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Graduate Towers were massively attended, as was another Thursday in the undergraduates' Harrison House, and one for all members of the University is set for tomorrow (December 11), 9-11 a.m. in Houston Hall.*

In Graduate Towers, residents formed a committee to study security. Half a dozen newsletters that serve clusters of residence halls have reissued safety information sent at the opening of the term.

For the nearly 8000 who live in campus residences, there is security orientation on arrival, both in print (via the newsletters plus a *Safer Living Guide*, which goes to parents as well as students) and in group briefings (overviews during New Student Week, and on-site ones in each dorm by residence advisors). The International Programs Office includes security in its fall orientation, which also covers off-campus living. Residential Living advisors, the Off-Campus Housing Office and Personal Safety Specialist of the campus police also issue special advisories near holidays and exam times.

Dr. Carol Kontos, director of residential living, and others welcomed the Graduate Towers residents' formation of a committee. "The more the residents become involved the better," she said. Residential Living, the Women's Center, Counseling Service, Faculty-Staff Assistance Program and the Personal Safety and Security section of the campus police have pledged their

To the Campus Community:

We join with the entire University of Pennsylvania community in expressing our shock and profound sorrow at the tragic death of Meera Ananthakrishnan, a first-year graduate student in physics. In the short time she was here, Ms. Ananthakrishnan had become a valued member of our community. We send our deepest regret and sympathy to her family and friends in the United States and India. Philadelphia Policy, with the assistance of Penn's Department of Public Safety, are continuing their investigation.

Events such as this heighten apprehension and raise many questions. The security procedures in the Graduate Tower buildings, where the crime occurred, are as follows: the exterior doors are locked, and only residents and a limited number of University employees have been given keys; an attendant is on duty 24 hours a day there as in nearly all residential facilities, and there are, of course, regular Public Safety patrols. The University is reviewing security procedures on campus. The review will examine whether measures in addition to those in place may be appropriate. Extra security has been provided for the present. Campus community members should continue to exercise prudence with respect to their own safety and the safety of fellow students, faculty, and staff.

The security of our campus community has always been the highest priority. Crime on campus against individuals during 1985 is down 56 percent compared to last year, and, until this tragic event, there has been no major crimes in Grad Towers.

We wish to be responsive to the many concerns of our campus community. Staff members of Residential Living, University Counseling Service, Faculty/Staff Assistance Program, Public Safety, and other University departments are available to respond to questions and requests for advice and assistance from the residents of the Graduate Towers and the rest of the community.

—Sheldon Hackney

—James J. Bishop

—Thomas Ehrlich

—Gary Posner

* An open meeting Thursday with representatives of the Philadelphia Police, advertised in the D.P. with topic unannounced, is on racial concerns raised by Penn black students and faculty, and was not set up in connection with the recent murder, according to campus police. It will be in Houston Hall, 7 to 9 p.m., and is open to all members of the campus.

help to all offices and units of the University wanting safety advice or counseling aid—in crisis now, or at any time in the future.

In addition, the Office of Off-Campus Living offers to help students, faculty or staff in the campus area make safety checks of property they own or rent; deal with city agencies and landlords over any delays in meeting safety standards; and advise on routines they can establish to increase security.

Dr. Kontos and Director John Logan of the campus police are continuing a series of meetings on security improvements. "We have to overcome" Mr. Logan said, "the problem that all across the country, college campuses are targets—rural as well as urban ones attract people in search of victims off guard. The freedom that is perceived among students, and the trust that members of a college community have, are part of what makes for vulnerability."



The only available photo of Ms. Ananthakrishnan is an I.D. card reproduction. As student of Drs. Abraham Klein, Stellan Ostlund and Arthur Weldon, and as teacher to some 35 students in physics 150, she was described as brilliant, warm, and caring.

Memorials to Meera Ananthakrishnan

Two campus memorial services drew members of the University and the community together last week in memory of Meera Ananthakrishnan, 24, who came to Penn in September to begin her doctoral work in physics. A graduate of St. Stephens College in New Delhi, Ms. Ananthakrishnan took her M.S. from the Indian Institute of Technology in her native Madras. Her father, I. K. Ananthakrishnan, and two sisters are her surviving immediate family in India. Her mother died in June of this year.

On Thursday at the Christian Association, members of her family who are in the U.S. joined faculty and students in a service conducted in the Quaker Meeting style where there is no formal sermon, but members gather in a circle to sit silently or to rise and speak if they wish. Attending were her aunt and uncle, Mr. and Mrs. B. Viswanath of Walnut Creek, California, and an uncle, V.R. Radhakrishnan, who is a Fulbright visiting professor at the University of Utah this year. Professor Radhakrishnan spoke briefly of his niece's life and her aspirations in science. Professors Ralph Amado and David Balamuth, the chair and associate chair of physics, other faculty members and students from many parts of the University also took part. Nancy Nalbandian, a graduate student who teaches Indian music here, played the sitar and Madhavi Vinjamuri, a finance department staff member and CGS student, sang Hindu devotional songs in Sanskrit. Univer-

sity Chaplain Stanley Johnson, who led the service, ended with, "Perhaps our tribute to Meera can be to reach out to others who have come from far, to other Meeras among us."

Meera Fund: Saturday, members of the Indian community of Philadelphia and residents of Graduate Towers gathered in Nichols House for a ceremony which led to a resolution of condolence to be sent to her family—and to the start of a fund to assist them with expenses of cremation and return of her ashes to India for the Hindu ritual of scattering in the rivers. Opened by Bharat Bhargava, president of the Council of Indian Organizations of Greater Philadelphia, the Saturday gathering also offered prayers for Santush Kumar, a Virginia resident visiting here two weeks ago who was shot in the Thriftway parking lot at Walnut and 23rd Street, and is listed in poor condition at HUP.

Dr. Raja Iyengar of Penn and Dr. H.Y. Rajagopal of Villanova were among those at the service who urged greater attention to foreign students at all campuses in the area. Dr. Iyengar said Monday that he hoped a permanent campus memorial could also be provided through the new Meera Memorial Fund if contributions exceed the family's expenses. Contributions can be sent to the India Temple Association, 225 South 15th Street, Suite 1507, Philadelphia 19102

Special December Payroll Schedule

Consistent with prior years' practice, University payroll checks will be distributed early for both monthly and weekly-paid employees. Checks and advices for monthly-paid employees will be distributed on Wednesday, December 18, 1985. For weekly-paid employees, checks and advices for the week ending December 15, 1985 will be distributed on Thursday, December 19, 1985, and for the week ending December 22, 1985 on Friday, December 20, 1985. *No checks will be distributed before these dates.*

Information regarding the accelerated Time Report Form schedules for weekly-paid employees has been communicated in a separate memorandum to Deans, Directors and Business Administrators.

—Alfred F. Beers, Comptroller

Salary Increase Program

Over 1600 A-3 employees will receive compensation adjustments of up to \$400 annually effective December 30, 1985.

Over the last three years Penn has made a concerted effort to enhance its support staff compensation program by structuring new salary scales, establishing a new clerical job family impacting the salary grade of hundreds of employees, and by ongoing reclassifications. This adjustment, which is in addition to the regular increase last July, emphasizes two major objectives of Penn's compensation program:

1. To insure salaries which are competitive in the marketplace;
2. To promote internal equity.

The increases range from \$200 to \$400 annually, based on how near the employee's salary is to the hiring maximum of his/her paygrade. Employees closest to the minimum of their paygrade receive the largest increase. Last July, schools and departments were asked to reserve funds for such special salary adjustments.

Employees are eligible for the one-time increase if they:

1. Have been an employee at Penn since January 1, 1985;
2. Are in the nonexempt pay plan;
3. Are paid less than the maximum of their pay range;
4. Are a satisfactory performer.

The 1600 employees eligible for the increase will receive an individual letter from Adrienne Riley, manager, Compensation, the week of December 16, 1985 and will see the increase in their pay of January 9, 1986.

Penn continues to be the "employer of choice" in the Philadelphia area as demonstrated by the thousands of people who apply for our vacancies. The University is pleased to take this special opportunity to express its appreciation to all A-3 employees for their contribution to Penn's overall mission.

—George W. Budd,
Director, Office of
Human Resources

—Gary J. Posner,
Vice President,
Administration

Speaking Out

'Timely Tenure' vs. Fast Track

Deputy Provost Richard Clelland and Assistant to the Provost Anne Megel have published (*Almanac*, November 26) an analysis of "timely" reviews for tenure for the five-year period 1980-81 through 1984-85. They note that the analysis excludes several categories of tenure review but state an assumption that looking at timely internal reviews is of interest since they "constitute a large portion of all tenure reviews." This description of "a large portion" appears to be misleading in several respects:

(1) A survey of tenure awards as published in *Almanac*, and in the Trustees minutes of July 1983 through June 1985, indicates that at least 91 men were awarded tenure in that two-year period. The November 26 analysis from the Provost's Office indicates that 100 men were awarded "timely tenure" in the five-year period from July 1980 through June 1985. Thus on average over 45 men/year are receiving tenure but only 20 men/year receive "timely tenure." It would therefore seem that analyses based on "timely tenure" exclude over half the tenure awards to men.

(2) For women, the comparable data from *Almanac* and the Trustees minutes show 14 awards of tenure over the two-year period, or an average of 7. The Provost's Office's five-year table restricted to "timely tenure" shows 30 awards, for an average of 6. Thus this form of analysis does capture a large portion of women's tenure awards—6 out of 7 per year, on average—in contrast to capturing less than half of the men's overall tenure data.

(3) Stated as ratios, the Provost's Office figures show 100 men to 30 women over five years, or 3.3:1. When early-review tenure and outside appointments with tenure are included for both sexes, the two-year numbers are 91 to 14, or 6.5 men to every woman.

(4) Looking only at the numbers excluded from the calculations based on timely internal review, the ratio of males to females awarded tenure on appointment or on early review in the two-year data is 25:1.

In a total picture of appointments and promotions to tenure, this last figure is too significant to overlook. As Dr. Clelland and Ms. Mengel indicate, it cannot be displayed in the same format as the figures published November 26, because departments and schools do not report negative decisions on external or early-review decisions against which to measure the positive ones. But lack of data on rejections does not invalidate a comparison of our overall rates of tenure awards to women and men. Nor does progress in a limited portion of the University's tenure reviews overcome the shortage of tenured women on the faculty as a whole.

What the Provost's Office's new data

establish primarily is that among those faculty who achieve tenure after six years at Penn (or nine years in some clinical settings), women are not, overall, so underrepresented as they were shown to be in the Cohn Committee report of 1970-71. The fuller picture is that Penn has another, faster route to tenure which is almost exclusively reserved to male candidates.

Is it not time for an update in the Cohn format to see how much or little progress has been made, field by field, against available pools, in these 15 years?

—Phoebe S. Leboy,
Professor of Biochemistry (Dent.)

Response

The Provost's Office study reported on page 2 of *Almanac* of November 26, 1985 was aimed specifically at the question of how women and men are faring in the internal tenure review process. Questions that relate to the fairness of that internal process have arisen, and our study provides outcome data that can be employed in making judgments about it. We used a database in which we have confidence; we believe that our reported results are correct.

Dr. Leboy has begun the investigation of a larger issue. Her database does not contain the results of negative decisions; we have not studied it. However, she raises the question of fairness of the University's entire hiring, promotion, and tenure process for standing faculty as it relates to men and women. To address this question properly, one would need to start with the hiring pools from which University faculty are selected, and trace the history of all standing faculty appointments at least until either tenure was attained or the individual left the standing faculty. At the present time, the database for such a study is only partially available and very difficult to use. However, with the improvement in information capacity that is expected in the next several years, such studies should become possible.

I would like to thank constructive critics such as Dr. Leboy for their continued interest in the important question of women's position in our faculty.

—Richard C. Clelland, Deputy Provost

Year 105 Deadline

To list an event in the calendar of Year 105, the series of lectures and cultural activities celebrating 105 years of the African-American presence at Penn, submit information by December 13 to me, at Office of Student Life, 110 Houston Hall/6306. Programs and events sponsored by schools, departments and student organizations will be listed in a single printed calendar going to press soon. Further information: Ext. 7645 or 6533.

—Terri White, Office of Student Life

SPEAKING OUT welcomes the contributions of readers. *Almanac's* normal Tuesday deadline for unsolicited material is extended to THURSDAY noon for short, timely letters on University issues. Advance notice of intent to submit is always appreciated.—Ed.

A Report on the Research Fund

I. Introduction

The Research Fund was initiated in September 1984 to stimulate and strengthen research at the University. In this its first year, the fund has distributed over \$765,000 to University researchers engaged in a broad spectrum of disciplines. Of particular significance, the Fund has encouraged preliminary exploration of new fields by both junior and senior investigators. In so doing, the Fund has expanded opportunities for faculty to attract support and resources from outside sources while at the same time encouraging work in some fields that are traditionally underfunded.

Faculty response to the Fund in this first year was vigorous. The general quality of proposed work was excellent across schools, resulting in an extremely competitive review process. Of 189 total proposals, 52 or 27.5% were funded. The dollar amount awarded, on the other hand, amounts to only 11% of the total requested. This difference is due in the main to a tendency on the part of the review committee to drastically cut proposed budgets in order to provide support for a larger number of proposals. The distribution of proposals by amount of funding provided is shown in Figure I. As may be seen, the majority fell in the \$10,000-\$20,000 range, and none exceeded \$35,000.

The table at right provides an overall summary of requests and awards and further breaks these categories down by School and Center, and by disciplinary review subcommittee. It is worth noting that for those Schools submitting a statistically meaningful number of proposals (≥ 6), the dollars awarded as a percent of dollars requested fall in a rather narrow range (7-11%). Similarly, there was only slight variation in this percentage as between the subcommittees (10-12%).

II. Review Process

Research Fund awards were made on a competitive basis by a university-wide Review Committee composed of 22 senior researchers (See attachment II for membership listing). Review Committee members were appointed for one year terms by the Vice Provost for Research. One third of the Committee membership was nominated by the Faculty Senate with the remaining members selected from a group nominated by the Faculty-at-Large. The Committee was divided into three subcommittees, representing the areas of biomedical sciences, social sciences and humanities, and natural sciences and engineering, which reviewed proposals from each relevant area. External reviewers were consulted upon subcommittee recommendation.

Applications were evaluated on a competitive basis within each of the three subcommittees during both the fall and spring funding cycles. The subcommittees agreed on the following criteria in evaluating proposals.

- scholarly merit of the proposed research and the ability of the applicant to perform the proposed research successfully,
- significance of proposed work in relation to its contribution to the field,
- applicant's reputation and potential,
- potential value for enhancing the university's stature and resource base,
- budget appropriateness and demonstrated need for Research Fund support.

III. Support Categories

In announcing the Research Fund (*Almanac*, September 25, 1985) the University proposed several categories for support:

- Pilot research programs,
- Research facility construction and renovation,
- Matching funds, vis-a-vis external grants sources, for major pieces of equipment,
- Research equipment funds for recruitment of new faculty,
- Support of interdisciplinary research.

During the year, however, this list was amended, largely due to concerns expressed by faculty who were members of the Review Committee, as well as by other faculty. Thus, a new category of support for faculty

release-time was added in recognition of its importance for faculty in the humanities and social sciences. In addition, the category aimed at recruitment of new faculty was deleted because of the Committee's wish to ensure a clear delineation between support priorities and responsibilities of the Research Fund as opposed to the programmatic needs of the Schools. The same reasoning led to the elimination of major facility renovation as a support category. The Committee also reduced the stated limit for individual grants from \$100,000 to \$50,000 during the spring cycle in recognition of the intense competitive pressure on available funds.

The final Research Fund guidelines emphasized the following support categories:

- Seed money for exploratory research programs,
- Matching funds, vis-a-vis external grant sources,
- Support for interdisciplinary research initiatives,
- Equipment requests directly related to research needs,
- Faculty-release time,

The Fund particularly encouraged application by senior investigators seeking to conduct pilot-feasibility projects and junior faculty requiring seed money to develop research programs.

IV. Award Process

Subcommittee awards were made on a competitive basis with quality as the primary consideration for those proposals reflecting appropriate support categories. The subcommittees rated competitive proposals and submitted their priority lists to a committee composed of the Vice Provost for Research and the three subcommittee chairpersons for final selection. In general, all proposals receiving the highest priorities from

Research Fund Profile 1984-85

Total Dollars Requested	6,955,072	Mean Award:	\$14,722.33
Total Dollars Awarded	765,561	25th percentile	10,000.00
Total Number of Proposals	189	75th percentile	17,440.00
Total Number of Funded Proposals	52	Maximum	35,000.00
		Minimum	3,000.00

Breakdown by School and Center

	total \$ requested	total # of proposals	total \$ awarded	total # of awarded proposals	% of requested amount
Arts and Sciences	2,741,983	60	313,015	19	11.4
Center, Study of Aging	44,642	1	15,000	1	33.6
Grad.School, Educa.	67,190	2	0	0	0.0
Grad.School, Fine Arts	331,552	6	35,191	2	10.6
Dental Medicine	83,238	2	10,000	1	12.0
Engineering	714,252	15	54,000	3	7.6
Medicine	2,083,825	56	226,770	16	11.0
Nursing	84,140	2	0	0	0.0
Social Work	48,562	1	0	0	0.0
Veterinary Medicine	899,782	22	63,185	5	7.0
Wharton	596,217	18	62,200	5	10.4

Breakdown by Subcommittee

Social Sci. and Human.	1,698,010	52	170,231	13	10.0
Natural Sci. and Engi.	1,899,041	48	288,700	12	12.0
Biomedical	3,358,021	89	366,330	27	10.9

(continued past insert)

each subcommittee were funded at the levels recommended by the subcommittees, although small adjustments were occasionally made to remain within the overall budget.

V. Conclusion

A considerable number of proposals were evaluated by the Research Fund Review Committee during this first year of operation. The Fund solicited and received proposals of excellent quality and merit in each of its stated need categories.

An analysis of those proposals funded by the Committee reflects a strong commitment to the support of junior faculty. Fifty percent of the total awarded amount went to new and assistant professors at the University. Approximately 40% of the remaining awards were granted to investigators with established research programs. However, these investigators applied for support of new initiatives not characteristic of their previous or ongoing work.

It is important to note that the Fund gave special consideration to areas that were perceived by reviewers to be traditionally underfunded and in certain cases, disciplines and topics that are currently experiencing a hiatus in funding. This consideration was particularly relevant in the social sciences and humanities. Further, the social sciences and humanities tended to emphasize work of an interdisciplinary nature. The biomedical sciences, natural sciences and engineering subcommittees emphasized pilot research programs from which new directives would be established.

The Research Fund reaffirms Penn's commitment to research excellence and the need to maintain significant investment in Penn's intellectual growth. The Fund will continue to provide opportunity for exciting scholarship and research at the University. As noted above this opportunity has been met with enthusiastic response and outstanding scholarship during the Fund's first year of operation.

—Barry S. Cooperman, Vice Provost for Research

Spring 1985 Awards

Dr. James Alwine, Microbiology—*Isolation of Cellular Genes Activated by Viral Transformation.*

Dr. Gudrun S. Bennett, Anatomy—*Diversification of Intermediate Filament Subunit Expression During the First Day of Chick Embryonic Development.*

Dr. Brenda Casper, Biology—*Allocation To Sexual Function in C. Foetidissima.*

Dr. Vincent Cristofalo, Animal Biology—*The Development of Multidisciplinary Social Science Research and Educational Programs on Aging at the Center for the Study of Aging.*

Dr. William Dailey, Chemistry—*Synthesis, Properties and Reactions of Difluoroketene.*

Dr. George Farnbach, Neurology—*The Intracellular and Cortical Electrophysiology of Canine Epilepsy.*

Dr. Renee C. Fox, Social Sciences, Sociology—*Belgium Through the Windows of its Medical Laboratories.*

Dr. Charles Ftaclos, Astronomy and Astrophysics, and Dr. Robert H. Koch, Astronomy and Astrophysics—*A Facility to Access and Reduce Space Telescope Data.*

Dr. Anthony Garito, Physics—*Autocorrelation of Single Picosecond Pulses in Nonlinear Optical Processes.*

Dr. Gary Gorton, Finance—*The Free Bank Note Market and Free Bank Failures.*

Dr. Patrick Harker, Decision Sciences—*Solution and Application of Concave Minimization Problems Over General and Network Polytopes.*

John C. Haselgrove, Biochemistry/Biophysics, Dr. Ellis E. Golub, Biochemistry/Biochemistry, and Dr. Jan Lindhe, Dental Medicine—*Development of an Imaging Technique for the Diagnosis of Periodontal Disease.*

Dr. Robin Hochstrasser, Chemistry—*Non-linear Optical Processes in Molecular Systems.*

Dr. Madeleine Joulle, Chemistry—*Synthesis of Didemnin A, B and C.*

Dr. Robert E. Kohler, History and Sociology of Science—*American Scientists, 1880-1920: A Reconnaissance.*

Dr. James Laing, Decision Sciences—*Multi-Jurisdictional Decision Problems.*

Dr. Andrew Lo, Finance—*Parametric Estimation and Statistical Inference for ITO Processes: Theory and Applications.*

Dr. Stephen O'Connell, Economics—*The Dynamics of International Reserves in Developing Countries.*

Dr. Mary Osbakken, Biochemistry/Biophysics—*Novel Physiological Monitoring Methods to be Used in a Magnetic Field.*

Dr. Allen Place, Biology—*Analysis of Adh Mutants by Genomic Sequencing and Denaturing Gradient Gel Electrophoresis.*

Dr. Michael Prystowsky, Pathology and Laboratory Medicine—*Induction Specific Protein Synthesis in Cloned T Cells.*

Dr. Abdolmohammed Rostami, Neurology—*Immunobiology of Schwann Cells.*

Dr. Elizabeth Seiberling, Physics, Dr. Jan Van der Spiegel, Electrical Engineering, and Dr. William Graham, Materials Science and Engineering—*Proposal for the Construction of an Ultra-High Vacuum Sample Preparation Chamber.*

Dr. Wendy Steiner, English—*The Contemporary American Novel.*

Dr. Peter Sterling, Anatomy and Thomas Davis, Anatomy—*Computer Reconstruction of Dye-Filled Neurons from Serial Optical Sections.*

Dr. John Trojanowski, Pathology and Laboratory Medicine—*Neurofilaments, Vimentin Filaments and Glial Filaments in Normal and Neoplastic Human Tissues.*

Dr. Marie L. Young, Anesthesia—*Effects of Isoflurane on Survival Following Severe Regional Cerebral Ischemia.*

Dr. Philip J. Youngman, Microbiology—*Gene Regulation During Cell Differentiation in Bacteria.*

Research Fund Review Committee 1984-85

Dr. Barry Cooperman, Vice Provost for Research, and Professor, Chemistry, Chairman, Research Fund Review Committee

Ms. Andrea Graddis, Assistant to the Vice Provost for Research, Staff, Research Fund Review Committee

Mr. Brodie Remington, Director, Corporate and Foundation Relations, ex officio, Research Fund Review Committee

Mr. Glen Stine, Director, Budget Analysis, ex officio, Research Fund Review Committee

Dr. Narayan Avadhani, (VET), Professor, Biochemistry/Animal Biology, Biomedical Subcommittee

Dr. Jere Behrman, (SAS), Professor, Economics, Humanities and Social Science Subcommittee

Dr. Elias Burstein, (SAS), Mary Amanda Woods Professor, Physics, Science and Engineering Subcommittee

Dr. Stuart Churchill, (SEAS), Professor, Chemical Engineering, Chairman, Science and Engineering Subcommittee

Dr. Irwin Friend, (WH), Director, Rodney White Center, Professor, Finance and Economics, Humanities and Social Science Subcommittee

Dr. David Gasser, (MED), Associate Professor, Human Genetics, Biomedical Subcommittee

Dr. Benjamin Gebhart, (SEAS), Professor, Mechanical Engineering and Applied Mechanics, Science and Engineering Subcommittee

Dr. Morris Hamburg, (WH), Professor, Statistics & O/R, Chairman, Social Science and Humanities Subcommittee

Dr. Barbara Herrnstein Smith, (SAS), University Professor, English and Communications, Humanities and Social Science Subcommittee

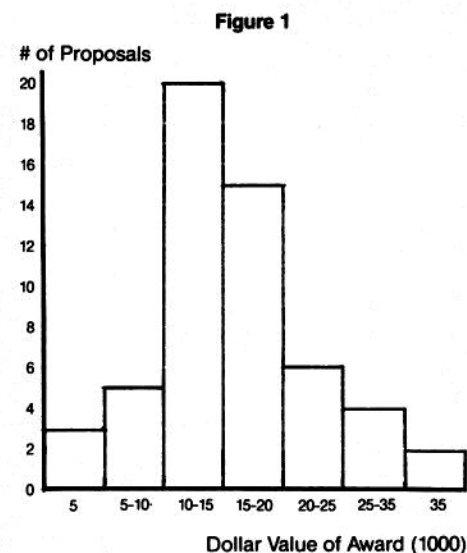
Dr. Howard Holtzer, (MED), Professor, Anatomy, Biomedical Subcommittee

Dr. Dorothea Jameson-Hurwich, (SAS), University Professor, Psychology and Visual Science, Science and Engineering Subcommittee

Dr. Harold Kundel, (MED), Professor, Radiology, Biomedical Subcommittee

Dr. Charles McMahon, (SEAS), Professor, Materials Science and Engineering, Science and Engineering Subcommittee

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Research Fund Review Committee

Dr. Martin Reivich, (MED), Professor, Neurology, Biomedical Subcommittee

Dr. Antonio Scarpa, (MED), Professor, Biochemistry & Biophysics, Biomedical Subcommittee

Dr. Irving Shapiro, (DENT), Professor, Chair, Biochemistry, Chairman, Biomedical Subcommittee

Dr. Nathan Sivin, (SAS), Professor, Chinese Culture & History of Science, Humanities and Social Science Subcommittee

Dr. Amos Smith, (SAS), Professor, Chemistry, Science and Engineering Subcommittee

Dr. Daniel Wagner, (ED), Associate Professor, Education, Humanities and Social Science Subcommittee

Dr. James Walter, (WH), Professor, Finance, Humanities and Social Science Subcommittee

Thesis Awards in Science

Sigma Xi Ph.D. Thesis Awards are made for theses of outstanding quality and contribution to science. An award of \$500 may be made to each of two Ph.D. candidates at the Award Dinner to be held May 6, 1986. Ph.D. candidates are nominated by their thesis advisors. An announcement appearing in early March will describe the nominating procedure. If further information is needed earlier, contact Kathleen Sestak, Department of Mathematics/6395, Ext. 8627.

Simon Kuznets—An Appreciation

When a brief obituary appeared recently in *Almanac* concerning the death on July 8, 1985 of Simon S. Kuznets, Wilfred Malenbaum, emeritus professor of economics, telephoned me to indicate that he and Donald S. Murray, emeritus professor of statistics, felt that Simon deserved a more complete remembrance. Putting pen to paper on this topic is a labor of love for one of Simon's numerous former colleagues and students on Penn's campus.

Simon Kuznets was born in Czarist Russia in 1901. He came to the U.S. as a young man and obtained a Ph.D. degree in economics at Columbia University in 1926. He was a member of the department of economic and social statistics of the Wharton School from 1930 to 1954. During this period he carried out a major part of the monumental pioneering work for which he won the Nobel Prize in Economic Science in 1971. Modern economic analysis in which the national accounts represent the empirical base for economists' study of cyclical phenomena and longer term economic growth dates from Kuznets' work, especially his two volume "National Income and its Composition, 1919 to 1983," published in 1941. In that study, he wrestled with the questions of definition, concept, and estimation that led to modern day national income accounts and the gross national product.

Concomitantly with Kuznets' work of the late thirties, John Maynard Keynes was developing the field of macroeconomics, which deals with the behavior of the aggregate economy. The categories of national income accounting were found to be the categories of this macroeconomic theory. The coming together of these powerful developments in economic empirical measurement and economic theory had profound effect not only on economic science but on the way politicians, governmental officials, people in business and other groups throughout the earth perceive the economic world in which they live.

Since about 1945, Kuznets worked primarily on the measurement and testing of hypotheses concerning the long-term economic growth of countries throughout the world. Although the Swedish Academy focused on this later work for the Nobel Prize, it seems fair to say that Kuznets' basic ideas on the application of statistical analysis to economic magnitudes for an understanding of the process of economic and social change were developed during the years

he spent at the University of Pennsylvania.

Paul A. Samuelson, the first American Nobel Laureate in Economics has said of the second American to be awarded this Nobel Prize, "Simon Kuznets was a giant in 20th century economics. He was the founder of national income measurement, and he created quantitative economic history."

Kuznets left the University of Pennsylvania in 1954 to go to Johns Hopkins University. He joined the Harvard University faculty in 1960 where he remained until his retirement from active teaching in 1971.

Turning to Simon Kuznets' personal characteristics, we remember him as a warm, lovable, compassionate person. He was a shy, unassuming, modest man, who had a delightful, quiet sense of humor. We recall the latter characteristic by a host of amusing incidents. Space permits recounting only a couple.

As a doctoral dissertation supervisor, he very graciously permitted his candidates to turn in handwritten chapters of their theses. Professor Kuznets then proceeded to scribble his comment in the margins of the pages. Since Simon's

handwriting was, to put it charitably, virtually unreadable, it had become a game for his students to try to decipher the meaning of these scribbles. On one occasion Kuznets returned some chapters to Don Murray. Opposite one of Don's paragraphs was a single unreadable word in Kuznetsian penmanship. After Don had unsuccessfully made the rounds in trying to get the word interpreted, he finally decided to ask Kuznets himself. After Simon stared at his scrawl for a bit, he looked up, and with a characteristic twinkle in his eye, said in his soft Russian accent, "This says, 'illegible'."

On a much later occasion, in 1971, I had to telephone Kuznets just before he was to leave for Sweden to receive his Nobel prize. I ended my part of the conversation with the light-hearted statement, "Bon voyage, Simon. I think the Noble prize people should be congratulated for being clever enough to select you for the award."

There was a moment of silence on the other end of the line. Then Simon replied in his quiet understated way, "Well, I won't tell them that."

—*Morris Hamburg, professor of statistics*



Professor Simon Kuznets (Nobel Prize Winner in Economics, 1971) lecturing to his class in Logan Hall in 1946 or 1947. (Left to right: Edward Brink, Morris Hamburg, Bert Zumeta, Ed DuBois, Hyman Menduke.)



Almanac's Annual Guide to Campus Shopping



For this sometimes hard-to-organize time of year, a lunch hour at the Bookstore can help get it together more ways than one. Workaholics can give and get:

Organizers: Appointment diaries that double as address books, with blank sheets to fill in other notes, goals, projects, finances. *The Computer Companion* includes space for easy-to-forget commands, a usage file, file finder, on-line systems, computer contacts and instructions for each. *The Gardener's Journal* (\$7.95) is a handbook for flower and plant lovers, with photos and drawings of flowers and lists of recommended flowering plants and fragrant flowers.

Computer and Computer accessories: are available at the Computer Shack (in the bookstore) and the Penn Computer Store (in Houston Hall).

Books: New York Times bestsellers are 35% off and paperbacks 25% off books such as *Common Ground, a turbulent decade in the lives of 3 American families*, by J. Anthony Lukas; and *Texas* by James Michener. *The Shower Songbook* is waterproof for serious bathtub vocalists (\$4.95) and *The Book of Tests* comforts Ivy Leaguers who miss stress over the holidays. Scores of books are on cassette (\$13.95): *The Great Gatsby*, *Catch 22* and *Tales of Horror from Edgar Allen Poe* give some words to jog to. *The Merry Christmas songbook* comes with an electronic keyboard. For the small set, *My Little Duck Workbook* puts pictures of animals on wood in book form, in several sizes.

Food Gifts: Foreign edibles, such as chocolates from *Baci* to *Mozart*, or a large variety of Chambord preserves, may be somewhat overshadowed by new down-home products emerging in the region. *A Taste of Philadelphia* packages cans of scrapple and Bookbinder's Snapper Soup with samples of ITC Trenton crackers, Goldenberg's peanut chews, a Whitman's sampler, and a little cookbook (\$12.95). A larger version adds more Philly foods and a recent *Inquirer* for \$29.95 (to ship it, add \$19.75). There are also packaged pastas made in the Philadelphia area—from classics to a far out fettuccini in chocolate.

Warm Thoughts: The Bookstore's unique offering every year is the big choice in Penn-labeled sportswear and novelties. One sweatshirt this year says "Cuddle up with someone from Penn" (\$17.95) and for cuddling there's a red-and-blue-suited Penn teddy bear (\$14). A product called *Adopt-a-draft-dodger* is actually into passive resistance: it's an elongated beanbag that snugs up to doorsills to stop drafts; comes disguised as a cat, or a dachshund (\$6).

Houston Hall has been revamped this year and for last-minute shoppers the good news is the card shop's expansion and upgrading. More lines, and more varied styles are found in cards themselves, but what card shop today sells only greetings? Penn's has incorporated some reminders of the sorely missed candy counter—right now, there's a glass snowman filled with candied raspberries (\$5.99), a 1-lb. candy cane (\$2.39), and in the refrigerator loads of chocolate including a 5-lb. Hershey bar for \$32.95.

In a less fattening price range the shop has cheery gift mugs—the fanciest is filled with cinnamon sticks and holiday drink recipes (\$7.95). In a \$3 to \$7 range are hostess gifts such as wicker-boxed party napkins or hostess towels; fir and balsam scents for the closet, animal potholders and cat potpourris. This shop was rated best on

campus for the staples of "getting ready for the holidays" with ornaments, giftwraps, pop-out gift boxes, decorative paper wallets for giving cash, checks or certificates; handsome paper goods for parties, and Santa's note papers for the thank-you notes that come later.

Like the Bookstore, the card shop is into cuddly toys for kids—ducks with a red ribbon and holly around their necks to Pirouette dolls who introduce themselves by name and recite poems. A plush animal to stuff with treats, or soap-on-a-rope in shapes (try tennis shoes) are among the stocking stuffers there.

Roses, the Houston Hall flower shop, also pitches in to get the house cheered up for the holidays or provide a gift of plants or flowers in baskets, vases, mugs and pots. Now in stock are poinsettias both large (\$14.99) and small (\$5.99). Plants and flowers can be sent around the world on Mastercharge or Visa by calling 387-4242.

Records: Houston Hall's record shop has moved to a larger location, across from Wendy's. Most new releases are \$5.99, and the shop is kind to browsers. They also carry some tapes, accessories and music magazines.

Campus Tees: The new shop in Houston Hall can print most tee-shirts while-you-wait, with a design of your choice or one in their own collection. The shop carries sweats, hooded sweats, muscle shirts, and dolman sweats with children's sizes 2-16 and adult sizes small to extra large. Some of the sayings for Penn people: "I love my Doctor because he's my daddy," "My father (mother, son, daughter, etc.) is a Penn student," "My mother is a Librarian," and "Inside this shirt is the most terrific kid."

The University Museum has two gift shops that together carry just about everything for friends and family who like to find in their stockings things that are handmade, with a one-of-a-kind feeling. Prices range from as little as \$1 for glass bangles from India to \$700 for exquisitely designed Persian rugs.

Entering the main-floor Shop is like taking a shopping trip around the world, without the air fare. Crafts of India, Africa, Sri Lanka, and, in our own hemisphere those of Columbia, Guatemala and Mexico (with Aztec and Maya cultures represented) are just a few of the sources.

Wall hangings are in great supply, starting as low as \$10. More intricate and delicate tapestries from India and China rise to \$150-\$250.

Smaller gifts draw the crowds: Argentinian bags for \$18, strikingly beautiful laquered boxes, plain or in the shapes of animals from \$7-\$60, tee-shirts for \$7, hand-crafted colorful wood masks for \$5, teakwood handcarved animals from \$10-\$20, Colombian maracas for \$7.75, Guatemalan clutches and other woven goods for \$6.50, small hand-made dolls for \$3.50, Christmas tree ornaments for under \$5, silk-bound blank books from China for \$7.75, wooden hand-carved pill boxes from India from \$5-\$20, jigsaw puzzles for \$10, and colorful satchels from Thailand for \$19.50.

Jewelry of many lands can be had for under \$30, and handmade clothing such as Mexican scarves for \$21, a wool sweater hand-made in Ecuador for \$85, decorative vests from India for \$28, batik ties from Java for \$13.75, and New Zealand moccasins for \$48.

The Museum Shop is also part bookstore. A hard-cover section is stocked with heavily illustrated work on the world's cultures, ranging from

\$10 to \$100. Less expensive soft-bound books cover scholarly and general topics of interest to the Museum-goer. Postcards and posters range from \$1 to \$10. And there are exotic gift papers, plus, now, a giftwrapping service.

Downstairs in the Pyramid shop, children often do their own gift-shopping for siblings and playmates—and adults collect stocking stuffers for all ages. Most items are under \$5 and the variety seems endless: soapstone whistles, silk purses, kaleidoscopes, chopsticks, origami dolls, pasta-bead necklaces, dough tree-ornaments, doll house rugs and tea sets, perfume in a soapstone jar, intricate change purses, pill boxes, mobile kits, memo pads and hundreds of other items are under \$5 (and many are under \$1). Reminder: The Museum is closed Mondays, but open on Saturdays and on Sunday afternoons.

For armchair shoppers, Penn offers such easy gifts as season tickets and memberships in Penn activities—and now, even a gift certificate for some CGS coursework.

For a catalog on the non-credit courses in wine-tasting, art history, photography, video, business, or personal enrichment—at rates from \$60 to \$200—call Ext. 6479.

A gift of membership at the Museum ranges from \$20 associate to \$25 individual, to \$35 family/household, to \$60 sustaining and \$100 contributing. These entitle the holder to the Museum Newsletter, Expedition Magazine, giftshop discounts and much more depending on the membership category. Information is at Ext. 5093.

Morris Arboretum is just \$10 for students, \$35 for others. Both entitle the member to a year's free admission to the grounds, 10 free guest passes, 25% discount on course fees, the bi-monthly newsletter and more. Call 247-5777 to order.

For library enthusiasts Van Pelt Library offers membership in the Friends of the Library. Members are invited to special events and lectures and receive Bibliotheca, the Friends of the Library Newsletter. Student membership is \$10 and regular membership is \$25. For more information contact the office of the director of libraries at Ext. 7092.

For theatre buffs, the Annenberg Center offers Associate Memberships for a \$50 contribution. Members enjoy dinner privileges at the Faculty Club, insider's bulletins of upcoming events, special performances, lectures and workshops, invitations to opening night parties, and more. For more information or to request a membership, call the Annenberg Center's Development Office Ext. 6755.

Tangibles to send: The Association of Alumnae is offering Amaryliss, Paperwhite Narcissus, and Christmas Crocus kits for the holiday season for \$9 per kit including postage and handling. Each kit includes pot, soil and bulbs; flowers will bloom in three to six weeks. Proceeds help support special Association of Alumnae projects such as recruitment efforts, student awards and alumnae recognition. Pick up an order form at the Alumni Center at 3533 Locust Walk. The Bookstore's 1985 gift catalog contains 120 of their most popular items to order for the holidays.

The Bookstore now offers to faculty and staff customers free, next-day, on-campus delivery for orders of \$20 or more. Gifts can be sent off-campus via UPS, 4-6 weeks for delivery. The catalog can be picked up at the Bookstore.

Tax-Sheltering Sessions

There will be four information sessions this week on tax-sheltered dependent care expense conducted by members of the Benefits Office staff. Dependent care enrollment forms will be available at the sessions or Call the Benefits Office at Ext. 7281. The lunchtime sessions will be held *December 10* 1-2 p.m., Bishop White Conference Room, Houston Hall; *December 11* noon-1 p.m., Room D-214, Medical Education Building; *December 12* noon-1 p.m., Room 285, McNeil Building; and *December 16* noon-1 p.m., Alumni Hall, Towne Building. Note: After *Almanac* was notified that an enrollment form would be sent to faculty and staff at home (*Almanac*, December 3) Human Resources changed plans and decided to mail a PennGram on campus indicating that the enrollment form is available from the Benefits Office, Room 116, Franklin Building.

Update

DECEMBER ON CAMPUS

CHILDREN'S ACTIVITIES

Corrections: The dates listed in the December pull-out for two of the Museum's *Films for the Family* were incorrect. The free films will be shown at 10:30 a.m. Saturdays: *The Master of Ballantrae* on **December 14** and *Mickey's Christmas Carol*; *Milestones for Mickey*; and *The Sorcerer's Apprentice* on **December 21**.

RELIGION

15 *Advent Carols* at the 10:30 a.m. liturgy, St. Mary's Church, Hamilton Village.

TALKS

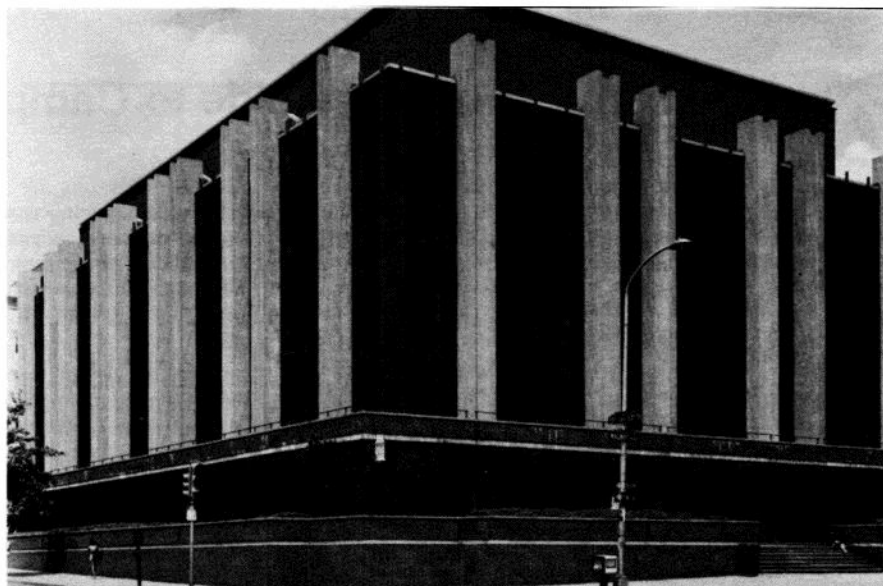
10 *Activation of Eukaryotic Gene Expression by Vital Early Genes*; James C. Alwine, department of microbiology; noon, Room 404 Anatomy-Chemistry Building (Department of Biochemistry and Biophysics).

11 *Modeling Gas Exchange in the Human Lung*; Richard Bartkowski, department of anesthesia; 4 p.m., Robert D. Dripps Library, 5 Dulles, HUP (McNeil Center for Research in Anesthesia). *Modulation of Fc (IgG) Receptors*; Alan D. Schreiber, hematology-oncology section; 4 p.m., Conference Room, 7 Silverstein, HUP (Hematology-Oncology Section).

17 *Role of Growth Factor Receptors in Oncogenesis*; Axel Ullrich, Genentech, San Francisco; noon, Room 404 Anatomy-Chemistry Building (Department of Biochemistry and Biophysics).

18 *The Relative Contributions of Neuromuscular Blockade and Isoflurane to Abdominal Muscle Relaxation During Surgery*; Leon Ensalada, department of anesthesia; 4 p.m., Robert D. Dripps Library, 5 Dulles, HUP (McNeil Center for Research in Anesthesia).

Recent Results in the Treatment of Hodgkin's Disease; John H. Glick, hematology-oncology section; 4 p.m., Conference Room, 7 Silverstein, HUP (Hematology-Oncology Section).



LRSB: Twenty years ago Penn opened one of the nation's four pioneering materials research labs to launch an interdisciplinary lab program that draws on physics, chemistry, metallurgy and engineering for basic research and the advanced training of a new breed of scientists. An all-day program, with honorary degrees to four leaders, takes place Thursday (December 16) at the Laboratory for Research in the Structure of Matter, 33rd and Walnut Streets. For information: *Almanac* November 19, or call Ext. 3448.

AV Center: Renovations Affect Service

A new language lab is to be installed at the Audio Visual Center in Logan Hall, and its business/reception area renovated. This work, which will begin December 20 and continue until the middle of February, will physically restrict operations at the Center and permit services only on a limited basis during this period. The services affected include:

- The Language Laboratory; it will not be available until the middle of February 1986.
- The Multi-Media Studio and Audio Recording Studio; it will be out of service for the same period.
- The control room, tutorial rooms and video room; these will be in operation by the middle of January but use of these rooms will be limited.
- The high speed duplication services and the listening facilities; these will continue to be provided in Room 10 to students enrolled in language courses and to students enrolled in courses for which listening assignments at the Center are necessary.
- Audio-video duplication; this will be limited for classes/courses only.
- Equipment rental and on location services; there will be provided as usual as will services in Room 13, Williams Hall 101 and 102.

In order to accommodate students enrolled in language courses as well as other students in need of the language laboratory, it is of critical importance that instructors communicate their needs to the Audio Visual Center well in advance. This is especially true for video playback services, since the Multi-Media Studio will not be available.

Change in Library Hours

The Van Pelt and Lippincott Libraries are taking advantage of the semester break and the holiday period to schedule repair work in Van Pelt Library that requires scaffolding to be set up for work on high ceiling areas and the light fixtures; the building needs to be closed to complete the work. For this reason, they are closing from *December 21, 1985 through January 1, 1986*.

We regret any inconvenience this renovation may cause the University Community, but know you will be pleased by the results of this much needed work.

—Office of the Dean
School of Arts and Sciences

December Vacation Mail Delivery

Penn Mail Service will operate on a limited basis during the December Special Vacation. One delivery and pick-up will be made daily at any delivery point that is open. Penn Mail Service personnel will be on duty until approximately 1 p.m. on December 24, 26, 27, 30 and 31. Special pick-ups of large mailings can be arranged by contacting Penn Mail Service at Ext. 8665. Regular operations will resume on January 2, 1986.

The U.S. Postal Service will deliver mail to all University buildings open to receive it. Mail that cannot be delivered will be held by the U.S. Postal Service for delivery on January 2, 1986.

Please inform your Building Administrator whether or not your office will require delivery of U.S. or Intramural mail, pick-up of Intramural or out-going mail during the December Special Vacation. Your building Administrator will then notify Penn Mail Service of your mail delivery/pick-up requirements by December 16, 1985.

—David Sherman, Manager, Penn Mail Service

Almanac

3601 Locust Walk, Philadelphia, Pa. 19104-6224
(215) 898-5274 or 5275.

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