

# Almanac

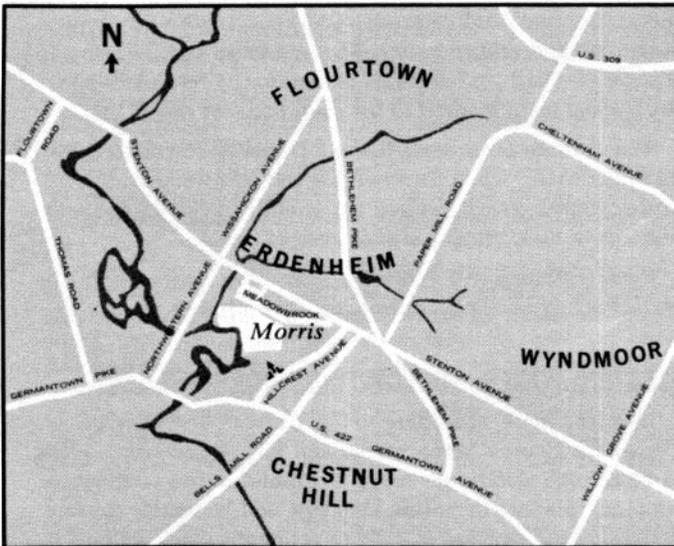
Vol. 20 No. 1

July 1973

Published Weekly by the University of Pennsylvania

## IN THIS ISSUE

- NEWS IN BRIEF • *State of the School (Cohen)*
- *Power and Money (Edwards)* • *Day Care* • GRANTS
- BULLETINS • *Unexpected Pleasures of Penn III*
- APPOINTMENTS • PROMOTIONS • LEAVES
- DEATHS • HONORS • AMONG OTHER THINGS



## Ombudsman: James Freedman

James O. Freedman, Professor of Law, has been appointed Ombudsman for a two-year term effective July 1, 1973, President Martin Meyerson has announced.

He succeeds Dr. Joel O. Conarroe, Associate Professor of English, who became the University's first Ombudsman in July, 1971. Dr. Conarroe became chairman of the English department on July 1, 1973.

Professor Freedman has been a member of the Law School faculty since 1964. He has served on the University Council and Senate and is past president of the University chapter of the American Association of University Professors. He specializes in administrative law, family law, and torts. He is also serving this year as president of the Mental Health Association of Southeastern Pennsylvania.

"The Office of the Ombudsman under Joel Conarroe made our institution a little more responsive and a little more humane to dozens of students, faculty and staff," President Meyerson said. "In Jim Freedman, we have a colleague with the sensitivity, wisdom, experience and respect as both a scholar and teacher to carry on the vital mission of this office."

Provost Eliot Stellar added, "The Ombudsman's role is crucial to the well-being of the University community. Professor Freedman brings to it a perceptiveness to people combined with healthy objectivity and independence. I am looking forward to cooperating closely with him."

## Resignation: Dr. Gellhorn

Dean Alfred Gellhorn of the School of Medicine has announced his resignation from the deanship to return to academic pursuits in cancer research, medicine and pharmacology.

He will remain on the faculty as Professor of Medicine, and will continue to serve as dean while the search for a new dean is conducted under normal University procedures. President Martin Meyerson is expected to announce by fall the membership of a Consultative Committee to advise on the selection of Dr. Gellhorn's successor.

The President accepted Dean Gellhorn's June resignation with regret. "He undertook the extremely difficult job of leading a major medical school at a time when federal support of medical education and research has been declining and the need for doctors was never greater," said the President. It is also a time of vast changes in medical education, which Dean Gellhorn has approached with imagination. The many new programs that have been nurtured under his leadership will have a lasting effect on medical education at Pennsylvania. We are extremely grateful to Dr. Gellhorn for undertaking such a tremendous task during a period of national rethinking on the role of the medical school in educating physicians."



Frank Ross

*Morris Arboretum: a museum of living things  
is a learning lab for Philadelphians  
... pages 8 and 9*

# NEWS IN BRIEF

## ACADEMIC PLANNING: METHODOLOGY AND MISSION

The Academic Planning Committee chaired by Dr. Lawrence Klein has developed a methodology for evaluating departments under the University's announced program of selective excellence, but is dissatisfied with the validity of its first test runs this summer, Associate Provost John Hobstetter told the University's academic deans this summer.

The Committee doubts the completeness of the data used, Dr. Hobstetter said, and will make extensive revisions in its data base before making use of the system. The Academic Planning Committee has not issued a report as such, but will present the methodology itself to the campus this fall, he said.

Provost Eliot Stellar told the deans that the President is working on a new document, "The Mission of the University" that will also be shared with the campus in the fall. The Trustees' *ad hoc* Committee on Resources Evaluation is interested in such a document as groundwork for the major development effort needed to implement the University Development Commission report, Trustee John W. Eckman told the group.

The deans met at New Bolton Center late in June at a conference sponsored by the Development and Public Relations Office. Vice President E. Craig Sweeten and his staff made a series of presentations to the deans on methods used to raise funds through annual giving and capital campaigns, bequests, corporate gifts and foundations. They also heard proposals from the deans on relations between the University's centralized development operation and the new responsibility center management system.

## ANNUAL GIVING: AN UNRESTRICTED \$3 MILLION

Alumni and friends contributed a record \$3 million to the University through the Annual Giving program last year, the highest total in the 49-year history of the program.

The record figure was announced July 12 by Walter F. O'Malley, Chairman of the Board of the Los Angeles Dodgers and general chairman of Annual Giving. Unable to attend a campus dinner marking the end of the campaign, O'Malley, '26 C, telephoned congratulations from the West Coast to those in attendance.

The contributions, collected with the help of more than 2000 volunteers who wrote, telephoned, and made personal visits to the University's alumni, are expected to keep Pennsylvania among the top ten major private colleges and universities in the country in terms of alumni support.

The total also marks the third milestone in Annual Giving in little more than a decade. The \$1 million mark was reached in 1961, and the \$2 million mark in 1968. Last year's total was \$2.75 million.

Funds generated by Annual Giving are considered critical because their use is unrestricted. Much of the total goes toward educational programs on both the undergraduate and graduate level. Funds are also used for library resources.

## WON/LOST RECORD: MOSTLY WON

For the first time in over 100 years of intercollegiate competition, all of the University's teams produced winning seasons in 1972-73. The 17 squads posted a won-lost percentage of .717, marking the second consecutive year they have gone above the .700 mark. The varsity teams produced their finest Ivy League record in history, .711.

Penn's won-lost record was the best among all the Ivy League teams and marked the second straight year Penn had that honor. It was the third time in the past four years that Penn teams led the League.

In compiling a 160-62-4 record this year the total number of wins was only two short of last year's all-time season high. The total of 76 wins (with 30 lost, 3 tied) in the Ivy League was the highest ever by Penn teams.

Against Big Five schools Penn had a 14-1 record: 6-0 against LaSalle, 4-0 Villanova, 3-0 St. Joseph's and 1-1 with Temple.

Penn teams won five Ivy titles—soccer, fencing, basketball and indoor and outdoor track—and took Big Five crowns in basketball and cross-country. The golf team had its 27th straight winning year and was invited to the NCAAs while the hockey team made it to the semi-finals of the ECAC.

The outdoor track team had a 4-0 varsity record to run its streak to 23, while heavyweight and lightweight crew, cross-country, soccer, squash and indoor track suffered only one loss in their regular season competition.

Penn freshmen had a 59-19-0 record for a percentage of .736. Only one team out of nine had a losing season.

## ELECTRIC POWER: FORECASTING SHORTAGES

In a few years, according to the University's National Center for Energy Management and Power, there isn't going to be enough electric power to go around in this country. Presently planned facilities, they say, will be unable to cope with expected demand leading to shortages that may last for a decade or more.

An interdisciplinary team at the Center, supported by the National Science Foundation's RANN (Research Applied to National Needs) program, is now working on a plan for forecasting electric power problems. By developing contingency plans based on social, economic and environmental implications, they hope to be able to establish priorities to guide decision-makers and recommend ways to deal with shortages.

The team headed by Dr. Iraj Zandi of Engineering will concern itself primarily with allocation of power supplies using the Pennsylvania-New Jersey-Maryland power grid as a model. On the team will be Drs. Lawrence Eisenberg, Kenneth Fegley and Cornelius Weygandt of Engineering; Samuel Klausner, Sociology; David L. McNicol, Economics; Michael A. Moses, Management; Thomas A. Saaty, Stat/OR; and Ann L. Strong, City Planning.

Among the problems being considered are defining what might be termed a "normal" set of conditions for electricity use; developing guidelines to aid decision-makers in establishing priorities among various industries; dovetailing physical and social planning in the power industry; staggering industrial production schedules to lower peak energy levels; placing new low-pollution power plants more efficiently; and deciding where use should be curtailed first when the power is limited. It has already been determined, for example, that in terms of its relative importance, curtailment of air conditioning would be one of the first sacrifices to be made.

(ED. NOTE: See also page 5 this issue.)

*Following is a condensation of the address in which a new dean introduced himself to his school's alumni this spring. It is the first in a series in which deans both old and new will outline the progress and planning in which their schools are now engaged.*

## State of the School: Dental Medicine

by D. Walter Cohen

The Development Commission report presented to the Trustees in January is an extremely important document, worth reading and quoting, for it "sets the blueprint for the immediate future of the University of Pennsylvania."

*The concept of one university is based on the conclusion that our greatest potential strength and uniqueness lies both in our historic linkage of professional education with the liberal arts and sciences and in our contemporary advantage of the close physical proximity of our schools on one campus. . . . Old ways must bend to new expectations and opportunities. These must be seized if we are to make full use of the demands for improvement expressed by our faculty and our students. We must have the courage to face our needs, our weaknesses and our strengths with the same objective vigor and imagination which we bring to bear on our scholarly studies. We must find a way to the future which is appropriately a Pennsylvania way. . . . In the long view, professions such as law and medicine [and we can insert dental medicine] have demonstrated that they function best when they do not operate in isolation from the rest of the University.*

The faculty of the School of Dental Medicine agrees with this objective and we are currently interacting with many groups on campus. You are probably aware of the ties with the engineering group. As you also know, the materials science department has helped us in developing programs of teaching and research and most recently the new chairman of this department has expressed the desire to strengthen our entire program in materials science. A biomaterials group has been developed on campus with several of our faculty participating. The School of Engineering next year will be offering a course in biomechanics for the first time, and this will be probably offered in our first year as well, once it has been approved by our curriculum committee. We have probably more representatives from our student body and alumni participating in the MBA program and health care administration in the Wharton School than any other school in the health affairs group. This is causing a revision in this program and we are benefiting greatly from the information that is coming from some of the projects as well as the course work that is being presented.

We have strong ties and affiliations with several departments in the Medical School, the departments of radiology, medicine, otolaryngology, even ob/gyn and community medicine. We now have an alumnus of our School being trained as an anesthesiologist at the University Hospital at the same time that he's getting a Ph.D. in pharmacology, for example, and there are plans to develop a pain control center in the Hospital of the University of Pennsylvania which will involve our School, as well as a teaching program in which students can participate. The Graduate School of Education has expressed a desire to collaborate with us and we're extremely fortunate that within the last month we've been able to appoint an associate professor of educational research in the School of Dental Medicine, Dr. John Yancey, who will be helping us with the evaluation and planning of our pro-

grams. We have obvious ties with the College. The department of anthropology has given us one of our new faculty members, Dr. Sol Katz.

A University Scholars program was recommended in the Development Commission report, and we hope this will be started this year. Its main feature is that it allows a student to progress at his or her own pace through college and advanced education, either faster or slower by virtue of a year away, for example, without anxiety about where that education will take place. Its main strength is that it pulls the College and the graduate and professional schools together in Pennsylvania with mutual benefits and could attract to our own graduate program many of our better baccalaureate alumni who now will go elsewhere for higher degrees. Working with the admissions committee, we have already identified some students who are coming to Pennsylvania in the colleges here who might qualify for the University Scholars program.

We have always had strong ties with the School of Veterinary Medicine. We have collaborated with them in research and teaching, and hopefully this will continue.

We are trying to strengthen our ties with the other segments of our University because it is our belief that dental medicine can become a learned science in the kind of environment that is provided by this University.

A new administrative group is addressing itself to the complex problems of the School of Dental Medicine. I feel most fortunate in having been able to bring together five individuals who had been working quite closely together identifying problems, suggesting solutions and giving a full effort to improving our school: Dr. Henry Trowbridge, who came to us from the University of California as associate dean for academic affairs; Dr. Anthony Vito, who is associate dean for clinical affairs; Dr. Malcolm Lynch, who is serving as assistant dean for hospital and extramural affairs; Dr. John Amsterdam, assistant dean for student affairs and Gary Blanchard, who is our director of administrative affairs. This group took the Hay Report of June 30, 1972—which was the result of an outside agency's coming in to look at our school in a very objective fashion—and used it as a guide, for change.

A school is only as great as its faculty, and much of the past seven months has been devoted to recruiting new faculty. We have added more than twenty new full-time members including a chairman of restorative dentistry, Dr. Daniel Isaacson; a chairman of microbiology who had been with us in that department, Dr. Ben Hammond; Dr. Norton Taichman from the University of Toronto as a new chairman of pathology; an entire new hygiene department under the chairmanship of Rosemary Valentine who came to us from UCLA; our most recent chairman designate, who returns to Pennsylvania after a distinguished career in the Army, Col. J. Siebert, will become the chairman of the department of periodontics as of the first of July. We've also been looking for outstanding junior faculty in various departments and

have been very fortunate in those that have been serving in these positions. We still have chairmanships to fill, and there are other teaching positions which will hopefully enable us to develop new programs of excellence.

The past six months have seen several new programs introduced. The current class, I think, probably has had the most direct benefit from the new hospital dental programs which, at least from the feedback that most of us have been able to receive, have been very successfully carried out. The class of 1973 is participating in the dental department at the Medical College of Pennsylvania. We certainly hope that in the very near future there will be some development of dental medicine at the Hospital of the University of Pennsylvania. There has been a joint Medical School-Dental School committee under the chairmanship of Dr. Lynch working on this project and I am hopeful that this will be implemented this academic year. It has been a long time in coming. It was a dream of Dr. Burket's, but I think we're closer to it than we have ever been in the past. And I think it's significant that there are now explorations beginning for the development of a similar program at Graduate Hospital.

During this past six months, we initiated the first retraining program to convert Ph.D.s in the physical or biomedical sciences to D.M.D.s in twenty-four months. Many were concerned about this new program and what impact it would have on the school basically, but were very much interested in the educational research aspects of this because if such a program is successful, it would indicate that there are probably ways that we can accelerate or abbreviate our regular academic program. This program has received national recognition and even the commendation of the then Secretary of Health, Education and Welfare, Mr. Richardson.

In continuing education we've also seen change. The Development Commission report stated that in continuing education the professions are based upon "institutions, technologies and sciences which are rapidly changing. In all probability the professional who was educated in the '70's [and this certainly applies to our senior class] will be unable to practice effectively in the 1990's without a major effort to assimilate these changes. The capacity for reacting to the changed basis of a profession implies the understanding of that basis. Consequently, the best professional schools require that their students have a sound training in the basic disciplines relevant to their work; this indeed may be more important in the long run than the professional skills themselves." The need for continuing education has certainly been stressed under the leadership of Frederick Chacker, who is serving as assistant dean for continuing education. The number of courses has doubled this year and in January, 1973, we surpassed the enrollment for the entire previous year. In addition, we have initiated a series of continuing education programs where undergraduate students share ideas with outside faculty. We believe that if you are going to participate in continuing education programs as an alumnus, why not get into the habit when you're an undergraduate?

The curriculum committee is developing long-range plans which include complete revamping of the system of delivering oral health care in our clinical area. We want to establish a postdoctoral fellowship program to train more master clinicians and better general practitioners. We would like to involve the predoctoral students and faculty in the delivery system that responds more positively to the team concept and the needs of our students as well as the needs of our community.

We must strengthen our community dentistry program. This is an objective that we are attempting to accomplish but, as you can realize, such an accomplishment cannot occur in a

short period of time. The development of an intramural practice facility is well on its way and the principles of incorporation are in the hands of University Counsel Curtis Reitz.

I think our school has shown leadership in postgraduate areas. This we hope to continue to strengthen. We're now looking for a new director for our division of advanced dental education and we also hope that our research activities continue to flourish. As you know, we are quite proud of our Center for Oral Health Research, of the fact that we have more training programs than any other school of dental medicine in this country, and also of our activities in applied research which will probably expand in the years to come.

Pennsylvania's great heritage and research will certainly continue at our school though directions may change. I think we have been fortunate enough to attract the critical mass to enable us to lead the country in dental research. Our alumni activities, I hope, will continue to flourish by more programs involving the alumni—programs such as continuing education, more involvement with Commonwealth Relations committees, and more involvement with our admissions program. This year we have twice the number of applicants for the School of Dental Medicine that we had last year. We have more Pennsylvanians applying (and I can tell you that at this point we have accepted more Pennsylvanians than in the past). We have more minority students applying. We have more women applying, with three times the number of female students coming in our class in September than we had in the entire class that started this past September.

The alumni, I think, have an obligation to try to direct better students to our school. But another role that can be played by the alumni is to help us not only in evaluation of the school programs but in planning how they can be improved. How effectively did the School of Dental Medicine prepare its graduates for the challenge of the profession? We have to know this. It is, I think, very easy to evaluate courses while one is still a student, but after one has been in practice he or she has the opportunity of looking back and saying "The school helped me here; it didn't help me there. This is a strength, this is a weakness." You will see during this coming year a survey of our alumni done to find out where our academic program can be improved so that we can effectively prepare the graduate for the practice of dental medicine in the 70's, 80's and 90's.

You'll also see that there will be more student involvement in our administration. Recently, the faculty approved the establishment of an assembly which will have student representatives. Students are represented on almost all of our committees and there will certainly be an increase in faculty-student social programs. There will probably also be appointed in the next year a board of visitors, an outside group to look at our school and make recommendations.

There are many problems ahead, and they come from many areas: We have outgrown our facilities; they are inadequate in many ways. We're going to have less funding from the federal sources than at any time in the past. Someone said to me that the worst four years to have accepted a deanship will be the next four years and I think, after seeing President Nixon's budget and hearing the discussion that took place on the appointment of Secretary Weinberger, that may be a very accurate statement. We need to find new resources from the private sector, from the Commonwealth of Pennsylvania, from alumni activities and from friends. If the motivation and enthusiasm that now permeate much of the student body, as well as the faculty, and the excitement engendered by new ideas and imagination continues to combine with a spirit of great expectation then our School of Dental Medicine will find itself in the midst of an educational renaissance. I hope we can all share this experience together.

# Power and Money at Penn

by Daniel F. Edwards

At least \$2.5 million of the University's operating budget lies in the hands of some 35,000 people who have the power to save or waste an estimated \$50,000 or more this fiscal year with the flick of a switch.

The \$2.5 million is the cost of power for lighting, heating and air conditioning the University and HUP; for running the machinery and apparatus of our offices and labs, and even running the kitchen equipment and washing machines of the dorms and hospitals.

The people who control its use include almost all of our students, faculty and staff.

The cost of electricity has escalated steadily in the past few years, from .842 cents per kilowatt hour in 1968 to today's 1.351 cents per KWH. Pending approval of the Pennsylvania Utility Commission, we are presently facing a six per cent increase in our rates.

The immediate cause given is the adoption of environmental controls: restrictions on sulphur content in the fuel used to generate electric power. But ultimately we arrive at the classic economic reason of supply and demand. Much of the recent national publicity on our energy crisis has focussed on gasoline supply, and comes home to the consumer easily because of his personal automobile. It seems less obvious, perhaps, that the same energy crisis is affecting our other power supplies and could come home to this University as a deficit equal to the continuation of six full professors, or of budget for staff raises, or however else we choose to view the projected \$150,000 rise that our six per cent rate increase would represent.

While rates are not much subject to our control, the *use* of power is. The more we use, the more we force the cost of power up. And when we save a unit of power, we not only save the money it would have cost, but also reduce the demand that helps to drive the cost-per-unit up in the long run.

Saving power is something all of us can help to do, from the President of the University to the last staff member out the door at 4:30. There are two basic factors in the cost of power: how much we use, and the billing demand which is influenced by what time of day we use the power.

The time of day matters because the University's rate is figured on its "peak demand". Through past studies we know that the demand begins rising at 11 a.m. and does not drop off until 2:30 to 3 p.m. This is due at least partly to the use of ovens and other heavy equipment in dining halls and residence buildings, the air conditioning equipment, etc.; but it also reflects work flow in offices and laboratories. If at least some of our equipment which has a high amperage draw could be run before 11 in the morning or after 3 in the afternoon (and staggered during these hours so that we do not, say, have a massive surge precisely at 3 every day!), the University's electricity bill could go down without reducing the overall amount of work done.

There are several things we could all do daily to reduce the total amount of power used, as well. (Some of these suggestions can be applied in our homes too, to reduce the overall demand on the nation's energy resources.)

1. Turn off lights in rooms that are not in use. An exception: it takes about 30 minutes' worth of electricity to turn a light on again, so there is no point in flipping off the switch every time you leave a high-traffic file room, a rest room or other such space.)

2. Turn off coffeemakers, exhaust fans, heaters and other appliances when not required. In some cases, reducing venti-

lating air quantities by 50 per cent can reduce the power load by 12.5 per cent. Keep refrigerators defrosted. Wash one full load of laundry rather than two partial loads. Use hairdryers before 11 a.m. or after 3 p.m.

3. Keep thermostats as high in the summer and as low in the winter as comfort allows. It is estimated that the difference may be as much as \$50,000 per degree per year at this University.

Habits and attitudes play a large part in our use of electricity, especially in heating and cooling the space we work in. Newcomers to Philadelphia often note this city's fondness for overheated buildings in the winter. Curiously enough, a Philadelphian may leave the house dressed comfortably for a 60° day but expect 78° temperatures in the office and actually feel uncomfortable at the 72° to 75° operating temperature range which designers recommend for efficient and comfortable working conditions in the winter. In the summer, the same Philadelphian may insist the office thermostat be set at 70° instead of the designers' recommended 73° to 77° operating temperature range. Although humidity and other conditions do enter into these calculations, our attitudes about clothing and comfort should be weighed rather seriously against the cost of additional degrees: \$50,000 per degree per year could be most useful elsewhere in the institution.

## Institutional Responsibilities

Individuals cannot do everything that needs to be done in power conservation, of course. The University's Planning and Design Office, Construction Department and Buildings and Grounds Department, for example, have much more latitude in determining our power usage than the rest of the staff or the faculty and students have.

Fortunately we have on campus a highly respected and innovative academic unit, the National Center for Energy Management and Power, which gives the University a research source not so intimately available to a commercial operation when it sets its mind to these problems. The Center's cooperation will be invaluable as we tackle the serious long-term problems of energy consumption.

Plans are now underway for formulation of a steering committee which will work in conjunction with the Center. This committee will be comprised of individuals from various categories of the University: graduate students, professors, department heads and vice presidents. They will be concerned with such items as space utilization, the feasibility of incorporating the concepts of total energy conservation into new buildings at the time of design; energy management itself; and evaluation and implementation of new ideas that may come from any member of the faculty, staff or student body here.

Recently we conducted a feasibility study to determine whether or not it would be appropriate to install a system of demand-limit control on certain items of equipment throughout the University complex (which, as noted above, would lower the billing demand and thereby lower the cost of electricity here). The survey indicates that it would indeed be feasible to have such a system, and we are therefore working with manufacturers to determine which systems will be most suitable to our needs.

The University of Pennsylvania was recently commended for its conservation program by the Office of Emergency Preparedness, Executive Office of the President. For those who want to carry on that good record, and may want to look

more seriously into the data involved in conservation, a number of documents are available:

On file in Buildings and Grounds are the O.E.P.'s staff study, *The Potential for Energy Conservation*, and the Federal Power Commission's March 7, 1973, *Staff Report on Delays of Scheduled Operation of Electric Generating Units*.

The House Subcommittee on Energy recently issued a useful task force report, Document No. 5270-01775, which can be obtained from the Government Printing Office in Washington for \$2.35. In addition, a free pamphlet on *Individual Action for Energy Conservation* can be obtained from the same source.

Energy sources are expected to change, it is true, and some of the problems may be alleviated through means much beyond the individual's control. In the meantime, many dollars are within our control. No matter how small or insignificant your ideas on conservation may seem to you, their sum can represent savings that matter a great deal in the austerity period we are entering along with the rest of the nation's colleges and universities. If you have ideas, contact me at Ext. 7201, or write to me in care of the Department of Buildings and Grounds in the Franklin Building Annex; your ideas will be promptly channeled to the sources that can properly evaluate them.

I hope the entire campus will actively participate in our energy conservation program, for it is your program, your ideas, and your own national resources that you will help protect when you take steps to abate the energy crisis.

*The author is a mechanical engineer who is Staff Engineer at the University.*

## DAY CARE: SEPTEMBER 15

On or about September 15, the University Children's Center will initiate a program to provide full-time day care for about 53 children, from infants through five-year-olds. The program has been given seed money and a physical facility by the University of Pennsylvania and will be administered by the School of Social Work. A director has been hired and is currently working part-time. A Personnel Committee is now interviewing applicants for teaching and social work positions at the Center. The facility, located in the former basement grill of the 1920 Commons at 38th and Locust Walk, is being renovated to meet state requirements for day care facilities. In addition, committees for intake, finance, equipment, resources, and by-laws are being formed.

An Interim Coordinating Committee, made up of people from both the community and the University, is overseeing implementation of the Center's program until firm policies can be established and a board of directors selected. This Committee has given priority to the establishment of an intake and fees policy, the hiring of personnel, and the acquisition of equipment.

(Anyone who can donate equipment in good condition should phone the School of Social Work, Ext. 5511. Especially needed are cribs—particularly portacribs—playpens, strollers, carriages, high chairs or feeding tables, rocking chairs, child-size tables and chairs, or tables that can be cut down; book-cases and children's books. For play, the Center needs baby toys, dolls, tricycles and wheeled toys; old pots and pans, plastic dishes and eating utensils, hand tools, dress-up clothes, both men's and women's, and children's painting easels. Outdoor play equipment is also welcome.)

Applications are now being taken from both the community and the University, although intake and fee policies have not yet been completed.

The program will provide only full-time day care, and for a very limited number of children. *The Center will charge for its services, as the operating costs must be met by the fees of the users.* The program as initially set up cannot begin to meet either the community's or the University's need for day care, but the Interim Coordinating Committee hopes that services can be expanded in future to more nearly meet these needs. The Committee wants as many applications as possible, so that it can make intake policy as fair as possible, and so that it can plan for possible expansion.

## GRANTS

### SPONSORED RESEARCH

#### A Summary of Contracts and Grants for Research and Related Activities Received by Faculty Members During May 1973

NAVY: *E. Krendel* (Statistics and Operations Research) "Collective Bargaining in the U.S. Navy" \$14,000 . . . *L. Nanis* (Chemical Engineering School) "Electrochemical Engineering of Battery Systems" \$22,000 . . . *R. Showers* (Moore School) "Evaluating the Fields Arising from Electrical Phenomena Associated with a Submerged Vehicle" \$24,990 . . . *A. Heeger* (Physics) "Molecular Design of Solid State Phenomena" \$80,470.

PUBLIC HEALTH SERVICE: *J. Ferguson* (Biochemistry/Med) "Medical Scientist Training Program" \$257,801 . . . *T. Asakura* (Johnson Foundation/Biophysics) "Hemoproteins and Cell Metabolism" \$18,450 . . . *L. Bello* (Pathobiology) "Transcription and Translation in Mammalian Cells" \$26,991 . . . *P. Braun* (Biochemistry/Med) "Structure, Function, and Bio-Assembly of Membranes" \$17,750 . . . *M. Cava* (Chemistry) "Benzylisoquinoline Alkaloid Studies" \$52,909 . . . *W. Chambers* (Anatomy) "Role of Central Feedback Mechanisms in Skilled Acts" \$82,231 . . . *W. Cohen* (Periodontics) "Training in the Basic Sciences and in Periodontics" \$41,640 . . . *R. Cooper* (Medicine) "The Role of Membrane Lipids in Red Cell Physiology" \$25,000 . . . *W. Copeland* (Pahlavi Project Office) \$5,874 . . . *R. Davis* (Chemistry) "Spectroscopic Studies of Metalloenzymes" \$22,459 . . . *W. Donawick* (Clinical Studies/Vet) "Heart Transplantation and ALS Treatment" \$37,583 . . . *H. Drott* (Johnson Foundation/Biophysics) "Optical and Magnetic Study of Oxidoreductases" \$16,000 . . . *S. Erulkar* (Pharmacology) "Central Synapses and Peripheral Junctions" \$24,467 . . . *S. Fahn* (Neurology) "Neurochemistry and Basal Ganglia Diseases" \$79,600 . . . *W. Forsman* (Chemical Engineering School) "Rheology of Pulmonary Secretions" \$29,443 . . . *W. Hamilton* (Community Medicine) "Systems Analysis of Emergency Care Delivery" \$38,880 . . . *L. Henderson* (Medicine) "Study of Purification of Uremic Blood" \$189,448 . . . *E. Henefer* (Oral Surgery) "Clinical Cancer Training (Dental)" \$10,104 . . . *J. Hobstetter* (Vice Provost of Research) "Biomedical Sciences Support Grant" \$27,035 . . . *S. Inoué* (Biology) "Studies of Submicroscopic Structure of Living Cells" \$125,986 . . . *R. Kallen* (Biochemistry/Med) "Mechanism of Biochemical C-C and C-N Bond Formation" \$20,586 . . . *S. Katz* (Anthropology) "Training Grant in Physical Anthropology" \$97,191 . . . *F. Kayne* (Johnson Foundation/Biophysics) "Monovalent Cation Control of Cellular Reactions" \$18,000 . . . *A. Kleinzeller* (Physiology) "Active Sugar Transport in Renal Cells" \$44,527 . . . *N. Klinman* (Microbiology) "Research Career Development Award" \$22,000 . . . *D. Kritchevsky* (Surgery/Neurosurgery) "Acid and Alkaline Lipases in Aortas of Various Species" \$13,608 . . . *D. Kuhl* (Radiology) "Image Separation Isotope Scanning in Cancer Detection" \$34,930 . . . *S. Lahiri* (Physiology) "Developmental Adaptation to High Altitude" \$58,107 . . . *W. Lawrence* (Pathobiology) "Herpes Virus Replication in Synchronized Cell Cultures" \$29,332 . . . *F. Lief* (Animal Biology) "Human Wart Virus as an Oncogenic Agent" \$30,836 . . . *O. Maller* (Monell Chemical Senses) "Taste Sensitivity in the Human Infant" \$29,596 . . . *L. Mela* (Surgery/Neurosurgery) "Career Development Award" \$22,000 . . . *P. Moorhead* (Medical Genetics) "Clinical and Chromosomal Variation in 11,000 Children" \$21,898 . . . *A.*

Noordergraaf (Moore School) "Computer Studies of Human Circulatory System" \$46,135 . . . *R. Piddington* (Dental Histology and Embryology) "The Role of Glutamine Synthetase in Neurogenesis" \$7,220 . . . *M. Reichgott* (Medicine) "Vasoactive Agents as Mediators of Endotoxic Shock" \$36,548 . . . *B. Roberts* (Chemistry) "Synthesis of Sesquiterpene Antitumor Agents" \$48,873 . . . *B. Rosan* (Bacteriology/Microbiology—Dental) "Microbiologic Studies of the Human Oral Streptococci" \$78,938 . . . *L. Rowland* (Neurology) "Neurology" \$54,000 . . . *D. Rowlands* (Pathology) "Experimental Bacterial Endocarditis" \$17,245 . . . *R. Rutman* (Animal Biology) "Chemical Basis of Nitrogen Mustard Activity" \$95,058 . . . *I. Singer* (Medicine) "Renal Ion Transport Fixed Charge Membrane Model" \$37,973 . . . *J. Sprague* (Anatomy) "Anatomical Sciences" \$99,542 . . . *E. Stellar* (Institute of Neurological Sciences) "Neurological Sciences" \$31,686 . . . *F. Taylor* (Medicine) "Allergy and Immunology—Training Grant" \$80,291 . . . *F. Taylor* (Medicine) "Activation of Plasminogen and the Fibrinolytic System" \$31,239 . . . *R. Teitelbaum* (Psychology) "Physiological Psychology" \$42,948 . . . *D. Wilson* (Johnson Foundation/Biophysics) "Mitochondrial Electron Transport and Energy Conservation" \$21,050 . . . *J. Wishner* (Psychology) "Personality and Experimental Psychopathology" \$48,066.

DEPARTMENT OF LABOR: *R. Glover* (School of Medicine) "Medical Secretarial Transcriptionist Program" \$69,498.

NATIONAL SCIENCE FOUNDATION: *J. Bordaz* (Anthropology) "Excavation of the Neolithic Site of Erbabba Etc." \$3,500 . . . *H. Callen* (Physics) "Statistical Mechanics and Theory of Solids" \$60,500 . . . *B. Gerber* (Biology) "Physicochemical Studies on Bacterial Motility" \$50,000 . . . *M. Gerstenhaber* (Math) "Modern Geometric Methods in Algebra" \$23,500 . . . *J. Gots* (Microbiology) "Mechanisms of Gene-Enzyme Interactions in Bacteria" \$40,000 . . . *B. Harris* (City and Regional Planning) "Evaluation of the State of the Art in Urban Modeling" \$181,100 . . . *A. Heeger* (Physics) "Resonance Studies in Solids" \$75,000 . . . *H. Holitzer* (Anatomy) "The Mitotic Cycle and the Synthesis of Cell Specific Molecules" \$54,300 . . . *W. Melody* (Annenberg School) "Telecommunications Services: A Policy Reorientation" \$71,100 . . . *A. Myers* (Chemical Engineering School) "The Free Energy of Immersion of Solids in Liquids" \$55,000 . . . *A. Nijenhuis* (Math) "Differential Structures" \$40,600 . . . *J. Pack* (Fels Institute) "Use of Urban Models in Urban Policy Making" \$45,300 . . . *A. Wallace* (Math) "Classification of Singularities" \$23,600 . . . *W. Worrell* (Metal and Material Science School) "High Temperature Thermodynamic and Kinetic Investigation" \$35,000 . . . *C. Yang* (Math) "Differential Transformation Groups" \$10,800.

PRIVATE FOUNDATIONS, RESEARCH ORGANIZATIONS AND ASSOCIATIONS, AND INDUSTRY:

AMERICAN HEART ASSOCIATION: *P. Beisswenger* (Medicine) "Composition of the Glomerular Basement Membrane" \$16,060 . . . *K. Lanoue* (Johnson Foundation/Biophysics) "Control of Anion Transport in Heart Mitochondria" \$12,540 . . . *E. Moore* (Animal Biology) "Electrophysiology of Cardiac Arrhythmias" \$9,790 . . . *M. Reivich* (Neurology) "Neonatal Cerebral Blood Flow and Metabolism" \$16,830 . . . *T. Yonetani* (Johnson Foundation/Biophysics) "Molecular Mechanism of Hemoglobin Functions" \$12,100.

AMERICAN PHILOSOPHICAL SOCIETY: *H. Li* (Biology) "Studies on American Oaks" \$6,000.

ARTHRITIS FOUNDATION: *W. Simon* (Orthopaedic Surgery) "In Vivo Effects of Chondrocyte Death on Articular Cartilage" \$1,500.

DELAWARE HEART ASSOCIATION: *D. Capuzzi* (Medicine) "Lipid and Lipoprotein Synthesis in Avian Cells" \$5,000.

ORTHOPEDIC RESEARCH FOUNDATION: *W. Simon* (Orthopaedic Surgery) "Development of Prosthetic Replacement Material for Articular Cartilage" \$7,028.

WEST PHILADELPHIA MENTAL HEALTH CONSORTIUM: *R. Leopold* (Community Medicine) "Salary Grant" \$61,001.

**SUMMARY: Contract and Grant Awards for the Period Ending May 31, 1973: 161, totaling \$8,254,259.**

## NIGHT WALKERS: PLEASE TAKE NOTES

Seventy new lights now illuminate campus walks and buildings; 19 more are to be installed in the Superblock area by September. Planning for emergency lighting on the periphery of the campus continues as University administrators and City lighting engineers study lighting needs. Staff members of Buildings and Grounds, the Office of Planning, Design and Project Management, and External Affairs are seeking advice from the University community on where additional lights are most needed.

According to External Affairs Director Andrew Sullivan, the Philadelphia Department of Streets will consider suggestions from West Philadelphia residents in carrying out its "impact lighting" project. Whether suggestions deal with University City or with the campus itself, they should be as specific as possible: notice whether first-floor lights are on in campus buildings; include house numbers on poorly-lighted blocks, if possible; and indicate where foliage obscures otherwise adequate lighting.

Planning Assistant Roosevelt Dicks is coordinating University and City lighting studies and will welcome written or phoned suggestions at his office, 748 FB, Ext. 5831.

## BULLETINS

### CAMPUS MAIL SPEED-UP

Beginning August 1, a new identification system for both intramural and U.S. mail will help assure that letters will be processed the day they are received. By the end of this month each budgetary unit will have a set of pre-punched identification cards and a reorder card. The cards, indicating each department's account number and subcode number 306 (Mail Service), will accompany all U.S. mail sent to the mailroom. Budget officers are asked to make sure that the number 306 is included in departmental budget codes; if not, contact the Budget Administration Office, third floor FB.

Intramural mail—including paychecks, which have been known to wander—will be sorted according to a two-character building code. The new Zip and building codes will be included automatically on 1973-74 stationery. Next year's directory will list building codes in both the yellow and white pages.

Director of Mail, Telephone and Parking Services Joseph P. Burke recently conducted two seminars on the new system; he or Roy Savell or Don McNally, Mail Service supervisors, will answer further questions on the new procedure at Ext. 8665.

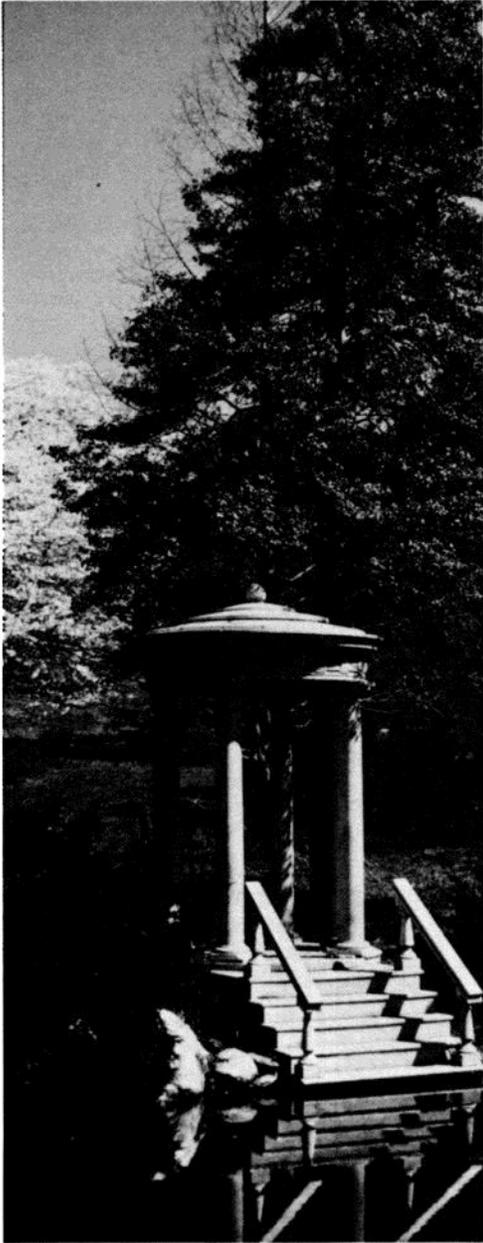
### MIXED BOWLING LEAGUE

The University bowling league will begin its 1973-74 season on Thursday, September 6 at 6:30 p.m. at Fleetwood Alleys West, 73rd and Elmwood Avenues. Cost per bowler is \$2.75 for three games. The league, a handicap one which meets weekly, is open to University employees, their spouses and friends. Sign up with Marion Hearn, Ext. 8591.

### EXTRAS! EXTRAS!

*Almanac* is cleaning house. Anyone who would like to complete a file of *Almanacs* or who needs bulk copies of a particular issue is asked to place requests with the editors, Ext. 5274, before September 7, when surplus issues will be delivered to a paper recycling firm.

Our next issue will be distributed on September 4.



*William Wright, a gardener at Morris Arboretum, photographs unexpected pleasures of Penn's green world.*



Like the first two pleasurable places described in this series\* the University's Morris Arboretum in Chestnut Hill is academically useful as well as ornamental—and in this case has a strong element of community service as well. Besides serving as a resource for the botany and landscape architecture programs of the campus, the Arboretum offers a continuing education program open to all faculty, staff and students of the University, their families, and the general public.

But the Arboretum is first of all a place to go. Any day of the year except Christmas, the visitor can take a map at the entrance/gift shop on Hillcrest Avenue and then ramble at his own pace through 175 acres of nametagged trees and shrubs both foreign and domestic. There is something to see at all seasons: the continuous flowering of spring and summer, the turning of leaves in the fall, even the witch-hazel, holly and evergreens of wintertime. The Arboretum staff knows its seasons and with notice can arrange a winter walk or other seasonal guided tour for groups. University groups can also schedule picnics on the adjoining Bloomfield Farm and even borrow the Arboretum's volleyball and softball equipment.

The rolling grounds are dotted with curiosities: a garden of herbs and plants that once were or still are used for medicinal purposes . . . a formal rose garden . . . a wilderness area . . . neat plots that local school children plant and care for . . . authentic Japanese gardens . . . and such follies, fountains, ponds and sculptures as remain or have been

*\*The Campus Botanical Garden, July 1972, and New Bolton Center in Chester County, October 17, 1972.*

# Unexpected Pleasures of Penn: III. Morris Arboretum

restored to evoke the nineteenth-century origins of the Arboretum.

In 1887 Miss Lydia Morris and her bachelor brother John, descendants of the patriot Samuel B. Morris, began the planting of a garden around their Chestnut Hill home. The house is gone now, but what has endured is the living museum they created out-of-doors. They collected trees and shrubs from near and far, and nursed them until they took permanent root in Pennsylvania soil. Especially from the East they brought rare and slow-growing specimens that can now be seen full-grown.

Miss Morris's will created the Morris Foundation and placed the property in the care of the University's botany department (now part of the biology department). Since receiving it in 1931 the University has gone through phases of adding to its plantings and letting them alone. Individual displays here and there show the specific interests of faculty botanists who felt like experimenting with acid soil or comparing many varieties of pine.

Last year, with the appointment of Associate Trustee F. Otto Haas as head of its revitalized board, the Arboretum began making a serious comeback as an ecological showplace and educational resource for the community. A staff of 20, under the scientific direction of Dr. Hui-Lin Li and with day-to-day management by Gordon Brandes, is housed in Gates Hall on Meadowbrook Avenue. The Hall is headquarters for the Arboretum Associates, for publications such as the quarterly *Morris Arboretum Bulletin*, and the news letter, *Woodchips*, for the grounds staff that does daily battle with weeds, bugs, diseases and other onslaughts

of nature, and in addition provides a herbarium, laboratories and classrooms for the educational program.

For the fees shown at right, anyone can take part in short-term programs such as the Saturday gardeners' clinic, sign up for a specialized horticulture course or enroll in a longer-term certificate program in botany. Under a new agreement with the Pennsylvania Horticultural Society it will also start a PHS-Morris Series this year.

Like Tom Sawyer with a fence to whitewash, the Arboretum cheerfully allows its friends to help with the care of its grounds and plantings, but in return offers them unusual plants from the Arboretum collection. School and community groups, as well as Associates, find they like playing Huck Finn in Chestnut Hill. To join in, check the courses and workshops at right, or contact the office at CH 7-5777 about Associates membership.

## GARDEN TOPICS

*Lectures and workshops for novice or experienced gardener.*

*Home Greenhouse Care.* Thursday, October 11, 10 to noon. Fees \$2 for Associates, \$2.50 others.

*Oriental Garden Design.* Two Wednesdays, October 24, 31, 1:30-3 p.m. Limit 20. Fees: \$5 Associates, \$7.50 others.

*Fern Workshop.* Dual session Monday, November 5, 10 a.m.-3 p.m. Bring sandwich; tea/coffee furnished. Limit 20. Fee: to be announced.

*Saikei Workshop.* Dual session Tuesday, December 11, 10-3. Bring sandwich, take home finished tray garden. Fee includes materials; \$20 Associates, \$25 others.

*Christmas Decorations.* More than one session may be arranged depending on enrollment. Limit 20 per class. Fresh greens furnished, bring own accessories. Fee \$5 Associates, \$7.50 others. December 10 deadline.

## SATURDAY GARDENERS

Practical, how-to sessions including Arboretum walks. Classes meet 10 a.m. to noon in Gates House. Enrollment by series or at the door any Saturday when class is not oversubscribed. *Single sessions \$2 Associates, \$2.50 others. Series \$10 Associates, \$13 others.*

September 8: *Lawn Care*

September 22: *Selecting and Planting Spring Bulbs*

September 29-30: *Field Trip to Pennsylvania Horticultural Society's Fall Harvest Show at Memorial Hall in Fairmount Park*

October 6: *Plants for the Home Grounds*

October 13: *Fall Gardening*

October 27: *Arboretum Walk for Fall Colors*

November 3: *Fall and Winter Pruning*

December 1: *Big Tree Care*

## SHORT COURSES

*Nontechnical courses combine lecture, demonstration and discussion. Fees: \$17.50 for Morris Associates; \$22.50 for others.*

*Introduction to Plant Ecology.* Six Mondays, September 17 through October 22, 8-9:30 p.m. (Prerequisite: *Basic Botany*.)

*Basic Botany.* Six Tuesdays, September 18 through October 23, 8-9:30 p.m.

*Plant Propagation.* Six Wednesdays, September 26 through October 31, 10-11:30 a.m. Limit 10.

*Important Plant Families.* Six Fridays, September 21 through October 26, 10-11:30 a.m.

*Field Study of the Fungi.* Six Saturdays, September 22 through October 27, 10-11:30 a.m. Lecture, five field trips.

## PHS-MORRIS SERIES

Pennsylvania Horticultural Society and Morris Associates members only. Four sessions on *Basic Flower Arranging*, plus one each on *Lawn Clinic*, *Bulb Forcing*, *Terrariums*, *Christmas Wreaths*. Fees range from \$2 to \$20; the costly ones include materials.

The following APPOINTMENTS, PROMOTIONS and LEAVES are based on Trustees' actions completed September, 1972, through June, 1973. They reflect personnel action that cleared the Provost's Staff Conference through May 23, 1973.

## APPOINTMENTS

### ANNENBERG SCHOOL OF COMMUNICATIONS

*Dr. Virginia H. Ingersoll*, Assistant Professor of Communications; graduate of Marquette University; Ph.D., University of Illinois; assistant professor of administration, California State College since 1971.

### COLLEGE OF ARTS AND SCIENCES

*Dr. Thomas L. Bott*, Adjunct Assistant Professor of Biology; graduate of Wheaton College; Ph.D., University of Wisconsin; since 1969 assistant curator of limnology, Philadelphia Academy of Natural Sciences.

*Dr. Jeffrey M. Cohen*, Associate Professor of Physics with tenure.

*Dr. William T. Ford*, Assistant Professor of Physics; graduate of Carlton College; Ph.D., Princeton; research fellow, California Institute of Technology, 1969-1972; research assistant professor here since 1972.

*Dr. Frank B. Gill*, Adjunct Assistant Professor of Biology; B.S., Ph.D., University of Michigan; assistant curator of birds, Philadelphia Academy of Natural Sciences since 1969.

*Dr. Michael P. Peinovich*, Assistant Professor of English; graduate of St. Olaf College, Minn.; Ph.D., University of Wisconsin.

*Dr. John D. Vergados*, Assistant Professor of Physics; graduate of Athens (Greece) University; Ph.D., University of Michigan; research physicist, Lawrence-Berkeley Lab, 1971; since 1972, research assistant professor here.

### COLLEGE OF ENGINEERING AND APPLIED SCIENCES

*Dr. Takeshi Egami*, Assistant Professor of Metallurgy and Materials Science; graduate of University of Tokyo; Ph.D., Penn; since 1972, postdoctoral scientist, Max Planck Institut für Metallforschung.

*Dr. William T. Park*, Assistant Professor, Moore School (until October 30, 1973); graduate of MIT; Ph.D., Penn.

*Dr. Bernard Steinberg*, Professor of Electrical Engineering; B.S.E.E., M.S.E.E., MIT; Ph.D., Penn; founder, vice president and head of research department of General Atronics Corp., 1957-71; since 1971, visiting professor at Moore and director of the Valley Forge Research Center.

### GRADUATE SCHOOL OF ARTS AND SCIENCES

*Dr. Mark B. Adams*, Assistant Professor of History of the History and Sociology of Science; A.B., A.M., Ph.D., Harvard; lecturer here, co-founder and resident faculty member, Van Pelt College House.

*Dr. Judah Goldin*, Professor of Rabbinic Literature (*Almanac*, May 8, 1973).

*Dr. Thomas P. Hughes*, Professor of the History and Sociology of Science, secondary appointment in the Faculty of Engineering and Applied Science; B. Mech. Engr. and Ph.D., University of Virginia; fellow, Center for Recent American History, Johns Hopkins, 1963-66; presently professor of History of Technology, Southern Methodist University Institute of Technology.

*Dr. George Makdisi*, Professor of Arabic (*Almanac*, November 21, 1972).

*Dr. Gregory L. Possehl*, Assistant Professor of South Asia Regional Studies; B.A., M.A., University of Washington (Seattle); Ph.D., University of Chicago; conducted archaeological field work on Harappan settlement patterns in Gujarat State, India for the past year.

*Dr. Donald White*, Associate Professor of Classical Archaeology; graduate of Harvard; Ph.D., Princeton; associate professor, University of Michigan; since 1969, chairman, interdepartmental program for classical archaeology there; since 1970, research curator, Kelsey Museum of Ancient and Mediaeval Archaeology.

### LAW SCHOOL

*Dr. Frank I. Goodman*, Visiting Professor of Law; graduate of Harvard; B.A., Oxford; LL.B., Harvard Law School; assistant to Solicitor General of the United States, 1962-65; acting professor, University of California Law School (Berkeley), 1965-72; director of research, Administrative Conference of the United States, for the past year.

*George Schatzki*, Visiting Professor of Law; LL.B., LL.M., Harvard; professor of law, University of Texas School of Law.

*Dr. Mark Spiegel*, Assistant Professor of Law; graduate of University of Michigan; J.D., University of Chicago Law School; Reginald Heber Smith Fellow in OEO-sponsored community legal services program in Chicago; teaching fellow, University of Michigan Law School; assistant director of Mandel Clinic, University of Chicago Law School.

*Laurie Wohl*, Assistant Professor of Law; graduate of Sarah Lawrence College; LL.B., Columbia Law School; associate, Debevoise, Plimpton, Lyons and Gates, New York City, 1969-71; overseas service fellow, International Legal Center, and visiting lecturer, University of Nairobi, 1971-72; assistant professor of law, Northeastern University School of Law since 1972.

### SCHOOL OF DENTAL MEDICINE

*Dr. Daniel Isaacson*, Professor of Restorative Dentistry (effective January, 1973; *Almanac*, January 30).

*Dr. Donald W. Kreuzer*, Assistant Professor of Fixed Prosthodontics; attended Fairfield University, 1963-66; D.M.D. and postgraduate work, Penn; since 1971 instructor and teaching fellow here.

*Dr. Peter J. Robinson*, Assistant Professor of Periodontics; graduate of Drake University; D.D.S., University of Missouri (Kansas City); intern and staff member, Walter Reed General Hospital, 1966-69; Ph.D. certificate in periodontics from Penn, 1972.

### SCHOOL OF MEDICINE

*Dr. Sidney I. Altman*, Assistant Professor of Clinical Psychiatry; pre-med and M.D., University of Toronto; internship, Mt. Sinai Hospital (Cleveland); residency, University of Cincinnati General Hospital; associated with Temple School of Medicine, 1957-72.

*Dr. Johannes Ipsen* (previously Professor of Medical Statistics and Epidemiology, Graduate Hospital), reinstatement as Adjunct Professor of Community Medicine, School of Medicine.

*Dr. Seung U. Kim*, Assistant Professor of Pathology; pre-med and M.D., Seoul National University; Ph.D., Kyoto University; postdoctoral fellowships at Kyoto and College of Physicians and Surgeons, Columbia; visiting scientist and associate professor, University of Saskatchewan.

*Dr. Harold Kolansky*, Associate Professor of Clinical Psychiatry; graduate of University of Scranton; M.D., Georgetown University School of Medicine; internship, Walter Reed Army Hospital; residency, Coatesville Veteran's Administration Hospital; assistant professor of psychiatry, Hahnemann 1952-63; director, section of child psychiatry, Einstein Medical Center, Philadelphia, 1955-69.

*Dr. Morris N. Kotler*, Assistant Professor of Medicine; M.D., University of Witwatersrand (Johannesburg); internships, Coronation Hospital and Johannesburg General Hospital; residencies, Beth Israel and Bronx Municipal hospitals and Albert Einstein College of Medicine (New York City); taught at Einstein, 1966-70, assistant professor of medicine, Johns Hopkins, 1970-72.

*Dr. William T. Moore*, Associate Professor of Clinical Psychiatry; B.S., M.D., University of Pittsburgh; internship, Mercy Hospital (Pittsburgh); residencies, St. Francis Hospital (Pittsburgh) and Norristown (Pa.) State Hospital; private practitioner in Jenkintown and faculty member at Hahnemann since 1957.

*Dr. Ralph M. Myerson*, Adjunct Clinical Professor of Medicine; graduate of Tufts College; M.D., Tufts College Medical School; residency, Boston City Hospital; assistant in medicine at Tufts, 1947-48; ward physician, Wilmington V.A. Hospital, 1948-52; assistant chief of medical service, Philadelphia V.A. Hospital, 1952-67; professor of medicine, Medical College of Pennsylvania since 1967; chief of staff at Philadelphia V.A. Hospital since 1972.

*Dr. Joseph K. Perloff*, Professor of Medicine with secondary appointment as Professor of Pediatrics; graduate of Tulane; pre-

med, University of Chicago; M.D., Louisiana State University School of Medicine; internship and residency, Mt. Sinai Hospital; Fulbright Fellow, 1952-54; Institute of Cardiology, London, 1954-55; fellow in cardiology and associate of Georgetown University School of Medicine since 1955.

*Dr. Henry W. Riecken*, Professor of Behavioral Science, School of Medicine, with secondary appointment as Professor of Psychology, College; graduate of Harvard, M.A., University of Connecticut, Ph.D., Harvard; lecturer in social psychology and research associate in clinical psychology at Harvard, 1949-54; professor of sociology and member of senior staff of Laboratory for Research in Social Relations, University of Minnesota, 1954-58; director, division of social sciences and associate director of NSF, 1954-66; vice chairman, Behavioral and Social Science Survey, 1966-69; president, Social Science Research Council, 1969-72.

*Dr. Mary Ann South*, Associate Professor of Pediatrics; graduate of Eastern New Mexico University, M.D., Baylor College of Medicine; internship, Presbyterian St. Luke's Hospital of Chicago; residency, Baylor; instructor of pediatrics at Minnesota, 1964-66; assistant and associate professor at Baylor, 1966-73.

*Dr. James L. Stinnett*, Assistant Professor of Psychiatry; graduate of Princeton, M.D., Penn, internship and residency, HUP, research fellowship, HUP and Philadelphia V.A. Hospital, chief resident, psychiatry, HUP; chief of psychiatry, Munson Army Hospital, Ft. Leavenworth, Kan., 1970-72.

*Dr. Robert M. Stote*, Assistant Professor of Clinical Medicine; B.S., Albany College of Pharmacy, M.D., Albany Medical College, internship, L. A. County Hospital; fellow, Mayo Clinic, 1968-71.

#### SCHOOL OF VETERINARY MEDICINE

*Dr. Omar O. Barriga*, Assistant Professor of Parasitology; D.V.M., University of Chile, M.S., Penn; assistant professor, School of Medicine, University of Chile, 1964-71; research associate and instructor, School of Veterinary Medicine, University of Illinois 1970-71; associate professor of parasitology, School of Medicine, University of Chile, 1971-72.

*Dr. Anthony Girardi*, Professor of Microbiology for the academic year 1973-74; graduate of Pennsylvania State University, Ph.D., Penn; associate member of Wistar Institute since 1963.

*Dr. Richard E. W. Halliwell*, Assistant Professor of Dermatology; Cambridge University, 1955-61.

*Dr. Gerhard A. Schad*, Associate Professor of Parasitology; graduate of Cornell, Ph.D., McGill; taught at McGill, 1954-64; taught at Johns Hopkins since 1964, chief of parasitology at Johns Hopkins Center for Medical Research and Training (Calcutta, India), 1968-70.

*Dr. Charles L. Tate*, Adjunct Assistant Professor of Pathology for the academic year 1973-74; attended Trinity College (Hartford) and University of Massachusetts, V.M.D., Penn.

*Dr. Kentaro Yoshimura*, Visiting Professor of Parasitology; graduate and B. Vet. Sci, Gifu University (Japan), M. Vet. Sci., Ph.D., Hokkaido University; research fellow, parasitologist, department of medical zoology, U.S. Army Medical Command, Japan; research fellow, NIH, Tokyo, 1970-72; associate professor of parasitology, Juntendo University (Tokyo) since 1972.

#### WHARTON SCHOOL

*Dr. Ann Hill Beuf*, Assistant Professor of Sociology; A.B., M.A., Ph.D., Bryn Mawr.

*Dr. J. David Cummins*, Assistant Professor of Insurance; graduate of University of Nebraska, Ph.D., Penn.

*Dr. Bruce C. Dieffenbach*, Assistant Professor of Economics; A.B., Ph.D., Harvard.

*Dr. Robert Edelstein*, Assistant Professor of Finance; A.B., A.M., Ph.D., Harvard; lecturer and assistant professor of finance, Penn, 1970-72.

*Dr. Russell Hardin*, Assistant Professor of Political Science; graduate of University of Texas, B.A., Oxford, Ph.D., MIT; junior postdoctoral fellow, Columbia University Research Institute on Communist Affairs, 1971-72.

*Dr. Roberto Mariano*, Associate Professor of Economics; A.B., Ateneo de Manila, M.S., University of the Philippines, M.S., University of Illinois, Ph.D., Stanford; research associate, instructor and assistant professor of economic statistics, University of the Philippines, 1963-73.

*Dr. Richard C. Marston*, Assistant Professor of Economics; A.B., Yale, Ph.D., MIT.

*Dr. Louis W. Miller*, Associate Professor of Industry; B.M.E., M.I.E., Ph.D., operations research, Cornell; associate of Rand Corp., 1964-72.

*Dr. Monique Spielberg-Guignard*, Assistant Professor of Statistics and Operations Research; Licence es-sciences mathématiques, Des. de mathématiques pures, DEA de mathématiques appliquées. TB avec félicitations du Jury; maitre assistante à la faculté des sciences de Lille, Université de Lille, professeur à l'IDN; professeur à l'ENSAE, Paris, consultant à IBM in France, 1968-70; in New York City, 1968, in Philadelphia, 1971.

*Dr. James R. Morris*, Assistant Professor of Finance; B.S., M.B.A., Ph.D., California (Berkeley); lecturer, Penn, 1970-72.

*Dr. Jack Nagel*, Assistant Professor of Political Science; (Fels Center); graduate of Swarthmore, Ph.D., Yale.

*Dr. Talcott Parsons*, Visiting Professor of Sociology (1973-74); graduate (1924), L.H.D. (1949), Amherst, student at London School of Economics, 1924-25; Ph.D., University of Heidelberg; began teaching at Harvard in 1927, professor since 1944, chairman of sociology, 1944-46.

*Dr. John R. Percival*, Assistant Professor of Finance; B.A., M.B.A., Ph.D., State University of New York (Buffalo).

*Dr. Etienne van de Walle*, Professor of Demography in Sociology; Dr. in Law, M.A., University of Louvain; special program in demography, Princeton, 1962; researcher and adviser to the government of Ruanda-Urundi, 1957-61; associated with Princeton, 1962-72; since 1967 associate editor, *Population Index*.

#### SECONDARY APPOINTMENTS: ALL SCHOOLS

*Dr. Joseph R. Ashman* (Associate Professor of Anatomy in Oral Medicine/Dent), secondary appointment as Associate Professor of Anatomy, School of Medicine.

*Dr. Steven C. Batterman* (Associate Professor of Mechanical Engineering), additional appointment as Research Associate Professor of Orthopaedic Surgery, School of Medicine.

*Dr. Darryl Biery* (Assistant Professor of Veterinary Radiology), additional appointment as Assistant Professor of Radiological Sciences, School of Medicine.

*Dr. Francis A. Castano* (Assistant Professor of Pedodontics), secondary appointment as Assistant Professor of Community Medicine, School of Medicine.

*Dr. Kohn Kapp Clark* (Associate Professor of Medicine), additional appointment as Associate Professor of Community Medicine.

*Dr. Jesse Cameron Denton* (Director, National Center for Energy Management and Power), appointment in a second department as Professor of Mechanical Engineering.

*Dr. Michael Harty* (Associate Professor of Anatomy), appointment in a second department as Associate Professor of Surgery.

*Dr. Dell Hymes* (Professor of Folklore and Linguistics, GSAS), secondary appointment as Professor of Sociology, Wharton School.

*Dr. Nicholas A. Kefalides* (Associate Professor of Medicine), additional appointment as Associate Professor of Biochemistry, School of Medicine.

*Dr. Frederick L. Newman* (Assistant Professor of Psychology in Psychiatry), appointment in a second department as Assistant Professor of Community Medicine, School of Medicine.

*Dr. Charles Reid* (Associate Professor of Radiology/Vet), additional appointment as Associate Professor of Radiological Sciences, School of Medicine.

*Dr. William Rhodes* (Professor of Veterinary Radiology), additional appointment as Professor of Radiological Sciences, School of Medicine.

*Dr. Mehdi G. Shayegani* (Assistant Professor of Public Health and Preventive Medicine), secondary appointment as Assistant Professor of Microbiology, School of Veterinary Medicine.

*Dr. James W. West* (Associate Professor of Pharmacology/Med), additional appointment as Associate Professor of Medicine.

*Dr. Marvin E. Wolfgang* (Professor of Sociology, Wharton School), secondary appointment as Professor of Sociology and Law, Law School.

# PROMOTIONS

## ANNENBERG SCHOOL OF COMMUNICATIONS

*Dr. Larry P. Gross* to Associate Professor of Communications . . . *Dr. Sol Worth* to Professor of Communications.

## COLLEGE OF ARTS AND SCIENCES

*Dr. Richard R. Beeman* to Associate Professor of History . . . *Dr. Robert K. Bishop* to Associate Professor of French . . . *Dr. Peter Conn* to Associate Professor of English . . . *Dr. Lancelot K. Donaldson-Evans* to Associate Professor of Romance Languages . . . *Dr. Robert F. Evans* to Professor of Religious Thought . . . *Dr. Charles I. Minott* to Associate Professor of the History of Art . . . *Dr. Elliott D. Mossman* to Associate Professor of Russian . . . *Dr. Gerald Prince* to Associate Professor of Romance Languages . . . *Dr. Frank W. Warner, III* to Professor of Mathematics.

## COLLEGE OF ENGINEERING AND APPLIED SCIENCES

*Dr. John A. Lepore* to Associate Professor of Civil Engineering.

## GRADUATE SCHOOL OF ARTS AND SCIENCES

*Dr. Roger Allen* to Associate Professor of Oriental Studies . . . *Dr. James D. Muhly* to Associate Professor of Oriental Studies . . . *Dr. Arnold Thackray* to Professor of History and Sociology of Science.

## LAW SCHOOL

*Dr. Bruce A. Ackerman* to Professor of Law and Public Policy Analysis.

## SCHOOL OF DENTAL MEDICINE

*Dr. John Amsterdam* to Assistant Professor of Community Dentistry . . . *Dr. Gary H. Cohen* to Associate Professor of Microbiology . . . *Dr. Patricia Cormier* to Assistant Professor of Community Dentistry . . . *Dr. Fred B. Dunkelberger* to Assistant Professor of Periodontics . . . *Dr. Gerald Einhorn* to Assistant Professor of Periodontics . . . *Dr. Martin S. Greenberg* to Associate Professor of Oral Medicine . . . *Dr. Jeffrey S. Ingber* to Assistant Professor of Occlusion . . . *Dr. E. Victor Long* to Assistant Professor of Fixed Prosthodontics . . . *Dr. Charles Mallon* to Assistant Professor of Restorative Dentistry . . . *Dr. Garry M. Miller* to Assistant Professor of Periodontics . . . *Dr. Ronald L. Piddington* to Associate Professor of Oral Medicine . . . *Dr. David E. Snyder* to Assistant Professor of Oral Medicine . . . *Dr. Ray Spyrer* to Assistant Professor of Periodontics . . . *Dr. Don I. Trachtenberg* to Associate Professor of Fixed Prosthodontics.

## SCHOOL OF MEDICINE

*Dr. Mary D. Ames* to Professor of Pediatrics . . . *Dr. John F. Aronson* to Assistant Professor of Biology in Medicine . . . *Dr. Thomas E. Atkins* to Assistant Clinical Professor of Psychology in Pediatrics . . . *Dr. Jan Baan* to Assistant Professor of Bioengineering in Medicine . . . *Dr. Arthur G. Baker* to Assistant Clinical Professor of Surgery . . . *Dr. William J. Bank* to Associate Professor of Neurology . . . *Dr. William W. Beck* to Assistant Professor of Ob/Gyn . . . *Dr. William P. Burns* to Associate Professor of Ophthalmology . . . *Dr. Harry M. Burros* to Associate Professor of Urology in Surgery . . . *Dr. Robert E. Campbell* to Associate Clinical Professor of Radiology . . . *Dr. Robert M. Cohn* to Assistant Professor of Pediatrics . . . *Dr. John Paul Decker* to Professor of Pathology . . . *Dr. Maria Delivoria-Papadopoulou* to Associate Professor of Physiology and Pediatrics . . . *Dr. David B. P. Goodman* to Research Assistant Professor of Pediatrics . . . *Dr. Milton H. Donaldson* to Associate Professor of Pediatrics . . . *Dr. Walter L. Eaton, Jr.*, to Associate Professor of Radiology . . . *Dr. Joel G. Flaks* to Professor of Biochemistry . . . *Dr. Frances McNiell Gill* to Assistant Professor of Pediatrics . . . *Dr. Robert M. Glass* to Assistant Clinical Professor of Ophthalmology . . . *Dr. John Royer Hansell* to Associate Clinical Professor of Radiology . . . *Dr. Ella Haugaard* to Assistant Professor of Pharmacology . . . *Dr. Eugene A. Hildreth* to Professor of Clinical Medicine . . . *Dr. F. Thomas Hopkins* to

Assistant Clinical Professor of Medicine . . . *Dr. Luther M. Houser* to Assistant Clinical Professor of Radiology . . . *Dr. Milton Ivker* to Assistant Clinical Professor of Urology in Surgery . . . *Dr. Akira Kaji* to Professor of Microbiology . . . *Dr. John A. Kastor* to Associate Professor of Medicine . . . *Dr. Norman Klinman* to Associate Professor of Pathology and Microbiology . . . *Dr. Otakar Koldovsky* to Associate Professor of Pediatrics . . . *Dr. David Kritchevsky* to Professor of Biochemistry in Surgery (appointment in a second department) . . . *Dr. Christian J. Lambertsen* to Professor of Medicine (promotion in a second department) . . . *Dr. Stephen B. Langfeld* to Assistant Professor of Community Medicine . . . *Dr. Peter Lau* to Assistant Professor of Pathology . . . *Dr. James J. Leyden* to Assistant Professor of Dermatology . . . *Dr. Milos J. Lota* to Associate Professor of Clinical Physical Medicine and Rehabilitation . . . *Dr. Richard B. Lower* to Associate Clinical Professor of Psychiatry . . . *Dr. Joe Mendels* to Professor of Psychiatry . . . *Dr. Ronald R. Minor* to Assistant Professor of Anatomy . . . *Dr. Robert D. Mulberger* to Associate Professor of Ophthalmology . . . *Dr. Paul E. Oberkircher* to Assistant Professor of Radiology . . . *Dr. John S. Parks* to Assistant Professor of Pediatrics . . . *Dr. George J. Peckham* to Assistant Professor of Pediatrics . . . *Dr. Robert Perry* to Professor of Biophysics . . . *Dr. Lewis I. Pizer* to Professor of Microbiology . . . *Dr. Joel I. Polin* to Assistant Professor of Ob/Gyn . . . *Dr. Michael J. Reichgott* to Assistant Professor of Medicine . . . *Dr. Wolfram Rieger* to Assistant Professor of Psychiatry . . . *Dr. David J. Ritchie* to Assistant Clinical Professor of Radiology . . . *Dr. Richard K. Root* to Associate Professor of Medicine . . . *Dr. Lucy B. Rorke* to Professor of Pathology . . . *Dr. Ernest F. Rosato* to Associate Professor of Surgery . . . *Dr. Richard H. Rothman* to Associate Clinical Professor of Orthopaedic Surgery . . . *Dr. M. William Schwartz* to Assistant Professor of Pediatrics . . . *Dr. Frederick A. Simeone* to Associate Professor of Neurosurgery . . . *Dr. Irwin Singer* to Associate Professor of Medicine . . . *Dr. Marvin E. Steinberg* to Associate Professor of Orthopaedic Surgery . . . *Dr. T. Ramsey Thorp* to Assistant Clinical Professor of Ophthalmology . . . *Dr. Rosalind Y. Ting* to Assistant Professor of Pediatrics . . . *Dr. Linton A. Whitaker* to Assistant Professor of Surgery . . . *Dr. James M. Wilhelm* to Assistant Professor of Microbiology . . . *Jean E. Wolfe* to Research Assistant Professor of Medical Art in Ophthalmology . . . *Dr. Elaine H. Zackai* to Assistant Professor of Pediatrics and Assistant Professor of Human Genetics.

## SCHOOL OF SOCIAL WORK

*Samuel Sylvester* to Associate Professor of Social Work.

## SCHOOL OF VETERINARY MEDICINE

*Dr. Marayan G. Avadhani* to Assistant Professor of Biochemistry . . . *Dr. Thomas N. Haviland* to Associate Professor of Anatomy . . . *Dr. Benjamin Wolf* to Professor of Microbiology.

## WHARTON SCHOOL

*Dr. Marten S. Estey* to Professor of Management . . . *Dr. William F. Hamilton* to Associate Professor of Management . . . *Dr. Chong-Sik Lee* to Professor of Political Science . . . *Dr. Morris Mendelson* to Professor of Finance . . . *Dr. Donald F. Morrison* to Professor of Statistics and Operations Research . . . *Dr. Richard L. Rowan* to Professor of Industry . . . *Dr. Donald Smith* to Professor of Political Science . . . *Dr. John M. Stockton* to Professor of Business Law . . . *Dr. Michael L. Wachter* to Associate Professor of Economics . . . *Dr. Randolph Westerfeld* to Associate Professor of Finance . . . *Dr. Yoram Wind* to Professor of Marketing.

## NONACADEMIC APPOINTMENTS

In addition to the academic appointments and promotions published here, the University has made new appointments and assignments in many nonacademic areas this summer. These will be summarized in a fall issue, along with the designation of department chairmen, assistant and associate deans of the various schools and colleges.

## DESIGNATION TO NAMED PROFESSORSHIPS, 1972-73

*Dr. William T. Fitts* as John Rhea Barton Professor of Surgery.

*Dr. Bruce N. Goldreyer* as Samuel Bellet Professor of Cardiology.

*Dr. Britton Harris* as 1907 Professor of Transportation Planning.

*John Honnold* as William A. Schnader Professor of Commercial Law.

*Dr. Richard C. Jeffrey* as Adam Seybert Professor of Moral and Intellectual Philosophy.

*Dr. Adele Rickett*, Assistant Professor of Chinese, as the first incumbent of the M. Mark and Esther K. Watkins Chair in the Humanities.

*Dr. Truman G. Schnabel Jr.*, as the first incumbent of the C. Mahlon Kline Professorship in Medicine.

*Dr. Laurence J. Silberstein* as Moritz and Josephine Berg Assistant Professor of Religious Thought.

*Dr. James Sprague* as Joseph Leidy Professor of Anatomy.

*Dr. Michael L. Wachter* as the first incumbent of the Janice and Julian Bers Chair in the Social Sciences.

*Dr. Harry Wollman* as the first incumbent of the Robert Dunning Dripps Professorship of Anesthesia.

*Dr. Hsuan Yeh* as Asa Whitney Professor of Dynamical Engineering.

*Dr. Rochel S. Gelman*, Psychology, to work with Professor Luce on the axiomatic foundations of the young child's concept of numbers.

*Dr. Oscar Goldman*, Mathematics, for research in algebra and number theory at University of California, Berkeley.

*Dr. Daniel Harris*, English, to accept the invitation of Swarthmore College to serve as a visiting lecturer.

*Dr. Edwin Hartman II*, Philosophy, to complete a book on *Aristotle and the Mind/Body Problem*.

*Dr. Daniel G. Hoffman*, English, to serve as the consultant in poetry at the Library of Congress.

*Dr. Theodore Hornberger*, History and English, to serve as visiting professor at the University of Uppsala.

*Dr. Maurice Johnson*, English, to complete a book on William Blake.

*Dr. Adolf D. Klarmann*, German, to continue work toward a book on the German drama from Kleist to Expressionism, and to complete his edition of the works of Franz Werfel.

*Dr. Robert H. Koch*, Astronomy, plans to divide the year between the Nice and Haute Provence observatories mastering new image tube and Lallemand camera techniques and pursuing research in his field.

*Dr. Bruce Kuklick*, History, on an American Council of Learned Societies Fellowship to work on the project "The Cambridge Pragmatists: Philosophy at Harvard, 1860-1930".

*Dr. Donald N. Langenberg*, Physics, to carry on experimental research in superconductivity at the Ecole Normale Supérieure in Paris.

*Dr. Paul M. Lloyd*, Romance Languages, to continue work on his *Manual of Spanish Historical Grammar*.

*Dr. Edward M. Peters*, History, to begin work on a study of political biography in the Middle Ages.

*Dr. Gerald Porter*, Mathematics, for research in algebraic topology at University of Capetown, South Africa, and Hebrew University, Israel.

*Dr. Alfred J. Rieber*, History, to complete his book, *The Politics of Economic Development in Nineteenth-Century Russia*.

*Dr. George Rochberg*, Music, to begin the composition of a large-scale opera.

*Dr. Stuart Samuels*, History, on a fellowship from the National Endowment for the Humanities.

*Dr. Arthur H. Scouten*, English, to be exchange professor at the University of Warwick, England, during the fall term.

*Dr. Craig R. Thompson*, English, for research on a commentary to Erasmus' *Colloquia*.

*Dr. Frank Trommler*, German, for research at several European archives and libraries for the project "the literary emigrants and their re-integration into postwar German literature".

*Dr. Gerald C. Weales*, English, to continue research and work on a book dealing with a number of midwestern writers of popular fiction, poetry and journalism.

*Dr. John E. Wideman*, English, for research and writing on the Afro-American novel.

*Dr. Herbert S. Wilf*, Mathematics, for research in combinatorial analysis at Rockefeller University with Professor M. Kac.

## COLLEGE OF ENGINEERING AND APPLIED SCIENCES

*Dr. Richard F. Schwartz*, Electrical Engineering, to serve as chairman of the department of electrical engineering at Michigan Technology University.

*Dr. Hsuan Yeh*, Mechanical Engineering, to accept appointment by the Winston Churchill Foundation as an overseas fellow of Churchill College, Cambridge University.

*Dr. Iraj Zandi*, Civil Engineering, to spend the term in Washington, D.C., with Congressman L. Coughlin of the Science and Technology Committee. Dr. Zandi has been working in the general field of environmental engineering and his specialty has been water resources and waste treatment.

(Continued on page 14)

## LEAVES

### ANNENBERG SCHOOL OF COMMUNICATIONS

*Dr. Robert L. Shayon*, Communications, to pursue an intensive investigation of cable television systems in the United States and Canada.

### COLLEGE OF ARTS AND SCIENCES

*Dr. Kenneth R. Atkins*, Physics, to concentrate on a research program testing the foundation of relativity and cosmology.

*Dr. Frank P. Bowman*, Romance Languages, to do research in Paris and work on volumes 2 and 3 of his study on French romantic Christology.

*Dr. Elias Burstein*, Physics, to pursue theoretical research on the linear and non-linear properties of surface electromagnetic waves and surface elastic waves and to write and edit a treatise on *The Macroscopic Properties of Solids*.

*Dr. Michael P. Cava*, Chemistry, to collect new tropical plant materials in Brazil and Haiti for research in alkaloid chemistry.

*Dr. Hennig Cohen*, English, to hold a newly established chair in American studies at the Institute of U.S. Studies, University of London.

*Dr. George H. Crumb*, Music, to devote full time to the composition of an orchestral work and a work for voice and orchestra.

*Dr. Lloyd W. Daly*, Classical Studies, to see the text of his *Summa Brittonia* (a mediaeval dictionary) through the press in Padua, Italy, and pursue further manuscript studies.

*Dr. Henry Faul*, Geophysics, to do research abroad and to write a book.

*Dr. Elizabeth Flower*, Philosophy, to complete work on a book on William James; to make arrangements for a seminar on the Eighteenth Century for the bicentennial year and to finish a paper on *Sidgwick in Retrospect*.

*Dr. Roland M. Frye*, English, to complete research and a book on the relevance of the visual arts to Milton's *Paradise Lost* and *Paradise Regained*.

*Dr. Charles R. Gallistel*, Psychology, to collaborate with Professor Luce (University of California, Irvine) on mathematical analysis of data on synoptic summation in the self-stimulation system being collected by Dr. Gallistel.

## LEAVES continued

### GRADUATE SCHOOL OF ARTS AND SCIENCES

*Dr. Robert H. Dyson*, Anthropology, to complete his reports on the excavation at Hasanlu in Iran.

*Dr. Kenneth Goldstein*, Folklife and Folklore, to return to the "field" (England, Scotland, Ireland) to replenish his concern with the living reality of folklore as performance and communication.

*Dr. Ernst Steinkellner*, Oriental Studies, to accept a position at the University of Vienna.

*Dr. Arnold Thackray*, History and Sociology of Science, to study at the Center for Advanced Study in Behavioral Sciences, considering historical sociology of science.

*Dr. Robert Zemsky*, American Civilization, to study linguistics on a Social Science Research Council Fellowship.

### GRADUATE SCHOOL OF EDUCATION

*Dr. Arthur A. Dole*, to study critical adaptive problems facing urban and suburban youth in contemporary America, which will involve visiting a number of junior colleges and secondary schools.

### LAW SCHOOL

*Paul Bender*, to prepare a monograph on his examination of the Equal Protection Clause and to read more extensively about the utility (or non-utility) of punishment as a means of controlling human behavior.

*Robert A. Gorman*, to accept an appointment for the year at Harvard Law School.

*John Honnold*, to complete his current work at the United Nations.

*Noyes E. Leech*, to do research and writing in Geneva, Switzerland at the European headquarters of the United Nations in an area of United Nations law.

*Covey T. Oliver*, for teaching and lecturing in the southwestern part of the United States and in Mexico.

### SCHOOL OF MEDICINE

*Dr. C. Paul Bianchi*, Pharmacology, to rewrite his book on cell calcium, which will involve visiting laboratories in America and Europe.

*Dr. S. Walter Englander*, Biochemistry, to do research on protein chemistry and to finish a monograph on hydrogen exchange for Oxford University Press.

*Dr. Harold S. Ginsberg*, Microbiology, to serve as visiting professor of molecular biology at the University of Geneva and to do research on the regulation of protein synthesis in mammalian cells using the *in vitro* system.

*Dr. Lester B. Luborsky*, Psychology in Psychiatry, to continue research on behavioral methods for treating hypertension at the Catholic University of Rome, working with Dr. Leonardo Ancona, and to write a book on *Factors Influencing the Outcome of Psychotherapy*.

*Dr. R. Price Peterson*, Anatomy, to perform cattle-breeding experiments in the Republic of Panama.

*Dr. George Ruff*, Psychiatry, to be visiting professor of psychiatry at the University of Edinburgh and to observe methods of psychiatric education and training in the United Kingdom.

*Dr. M. Harriss Samitz*, Dermatology, on a research grant from the U.S. Public Health Service and to examine continuing education programs in dermatology at foreign laboratories.

### SCHOOL OF SOCIAL WORK

*Dr. Max Silverstein*, to develop the design and program for a Center for Study of Social Work Process; to teach and engage in research in community organization and planning at School of Medical Sciences, University of Puerto Rico.

### SCHOOL OF VETERINARY MEDICINE

*Dr. Uen Hwang*, Pathobiology, to prepare the manuscript of a book, *Diseases of Ducks*.

*Dr. Donald G. Lee*, Animal Biology, Anatomy, to work with Dr. R. E. Munford, at Massey University.

*Dr. Robert J. Rutman*, Biochemistry, to serve as visiting professor of biochemistry at the University of Ibadan, Nigeria, and to undertake a limited research program.

*Dr. D. B. McNair Scott*, Biochemistry, to write on the metabolic role of zinc ions and the results of insufficient zinc in the diet; to travel to Bangkok to give invited lectures.

### WHARTON SCHOOL

*Dr. Edward W. Brennan*, Accounting, to complete a text on tax planning and to pursue continuing education.

*Dr. Francis E. Brown*, Marketing, to work on a manuscript for additional analysis of current market research data.

*Dr. William M. Evan*, Sociology, to complete a book-long manuscript on organization theory.

*Dr. Francine Frankel*, Political Science, an extension of present leave of absence.

*Dr. Irwin Friend*, Finance, to carry out new analysis of the impact of financial institutions and markets on savings and investment.

*Dr. Frank F. Furstenberg*, Sociology, to complete his study of the consequences of unplanned parenthood.

*Dr. William Kephart*, Sociology, for research and writing on experimental family organization.

*Dr. Chong-Sik Lee*, Political Science, to complete a manuscript, *Communism and Counterinsurgency in Manchuria, 1925-1941*.

*Dr. Herbert S. Levine*, Economics, to do research and writing on Soviet economic planning as a visiting fellow at Columbia University's Russian Institute.

*Dr. Robert A. Pollak*, Economics, to complete *The Theory of Consumer's Choice*, a book he is writing with H. S. Houthakker of Harvard.

*Dr. Vincent H. Whitney*, Sociology, to head an international survey and evaluation of research and training in demography in the LDCs, including preparation of a monograph.

## DEATHS

WILLIAM D. BURKE (April 5 at 72), steam operator in the Buildings and Grounds Department from 1947 until 1962.

REUBEN E. CLOUSER (May 15 at 64), a janitor since 1961, he was employed at Van Pelt Library at his retirement two years ago. He is survived by his wife, Irene, who has been a member of the Buildings and Grounds staff for twelve years.

ROBERT N. GLASGOW (October at 71), draftsman since 1923 and building construction coordinator at retirement in 1967.

KATHLEEN M. GRAY (April 15 at 18). A CW freshman and member of the National Honor Society, Miss Gray was the daughter of Dr. Harry J. Gray, Professor of Electrical Engineering at the Moore School. The family would appreciate remembrances in her name to the American Cancer Society, 1740 State Road, Upper Darby, Pa. 19082.

JAMES T. MCTAMNEY (May 4 at 74); he first came to the University in 1920 as a Museum guard and was employed there as a janitor and night attendant for 39 years.

EMILY MCMAKIN PETTINOS (June 17 at 65), membership secretary of the University Museum. She was former manager of the sales departments of the Museum shop and of the Smithsonian Institution.

ADA SMITH (April 7), cleaner here for seventeen years until retirement in 1960.

# HONORS

## HISPANISTAS DE PENNSYLVANIA

Three of the ten world scholars of Spanish singled out by Spain's popular literary review, *La estafeta literaria*, in a recent series are Pennsylvania professors. The magazine published lengthy biographies, highlighting the scholarship of all three plus the teaching influence of former Provost and Emeritus Professor Edwin B. Williams; the witty poetry and translations of Professor Emeritus Otis H. Green; and the identification of Professor Russell Sebold with the current renaissance in eighteenth-century Spanish literature. All three have also chaired Penn's Department of Romance Languages, where Dr. Sebold is now chairman.

## HONORS IN BRIEF

DR. MORTON AMSTERDAM received the Torch of Learning Award of the American Friends of the Hebrew University; in addition the Philadelphia dental division of the American Friends has established in his honor the Morton Amsterdam Chair in restorative dentistry at the University's School of Dental Medicine, in Jerusalem.

DR. GEORGE F. BASS is the first recipient of the Philadelphia Explorers Award, which will be given annually to a Delaware Valley resident who has contributed to geographic exploration. Dr. Bass, presently head of the new American Institute of Nautical Archaeology and research associate at the University Museum, directed the first complete excavations of ancient shipwrecks in the Mediterranean.

DR. LOREN EISELEY gave the address at the two-hundredth commencement of Dickinson College and received an honorary Doctor of Laws degree.

DR. HERBERT R. HAWTHORNE, Emeritus Professor of Surgery of the Graduate School of Medicine, was presented the Strittmatter Award of the Philadelphia County Medical Society.

ELSTON HILLMAN, Director of Motion Picture Services, produced the 11-minute film "Town and Country," a documentary about the School of Veterinary Medicine which has been awarded a silver bowl at the Harrisburg Arts Festival in June. The movie touches on the close ties between human and animal medicine at Penn; the star is an elephant whose knee joint is reset in sound and color.

DR. LOUIS I. KAHN was awarded the Gold Medal for Architecture at the seventy-fifth anniversary meeting of the National Institute for Arts and Letters.

DR. AND MRS. DAVID KNIGHT won the first gold medal for America in the individual slalom races (mixed canoe) at the International Canoe Federation races in Muotathal, Switzerland. With DR. PAUL A. LIEBMAN and DR. LENA MELA as members of a three-boat team, the Knights also won a silver medal in the two-person canoe wild-water event.

MARTHA ROSSO, secretary to Dr. Philip Rieff, received first prize in the Deeper Owen Essay competition of the Dickens Fellowship in London. The topic was "Dickens' Portrayal of Women"; Mrs. Rosso concluded that Dickens' best women characters were "monsters", while his heroines were dependent.

DR. HAROLD SCHEIE was cited for his "skills and affectionate concern for humanity" at the annual convention of the Pennsylvania Society of Dispensary Opticians. Dr. Scheie addressed the Society and accepted a \$1000 donation to the Scheie Eye Institute.

## EMERITUS PROFESSORS

Dr. Detlev W. Bronk, Emeritus Professor of Biophysics, member of the faculty from 1929-49.

Dr. Edward M. DeYoung, Emeritus Professor of Radiology, member of the faculty since 1961.

Dr. William F. Diller, Emeritus Professor of Biology, member of the faculty since 1939.

Dr. Holden Furber, Emeritus Professor of History, member of the faculty since 1948.

Dr. Robert Groff, Emeritus Professor of Neurosurgery, member of the faculty since 1946.

Dr. Frederick C. Gruber, Emeritus Professor of Education, member of the faculty since 1938.

Dr. Robert C. Hammock, Emeritus Professor of Education, member of the faculty since 1958.

Dr. Dale T. Harroun, Emeritus Professor of Civil Engineering, member of the faculty since 1949.

Dr. Wesley G. Hutchinson, Emeritus Professor of Biology, member of the faculty since 1934.

Dr. William A. Lell, Emeritus Professor of Clinical Otolaryngology, member of the faculty since 1932.

Clarence Morris, Emeritus Professor of Law, member of the faculty since 1952.

Dr. Craig Muckle, Emeritus Associate Professor of Clinical Obstetrics-Gynecology, member of the faculty since 1936.

Dr. Jesse T. Nicholson, Emeritus Professor of Orthopaedic Surgery, member of the faculty since 1930.

Dr. William M. Parkins, Emeritus Professor of Surgical Research, member of the faculty since 1944.

Dr. Arnold G. Reichenberger, Emeritus Professor of Romance Languages, member of the faculty since 1946.

Dr. Joseph B. VanderVeer, Emeritus Professor of Clinical Medicine, member of the faculty since 1933.

Dr. Irving J. Wolman, Emeritus Professor of Pediatrics, member of the faculty since 1932.

## AMONG OTHER THINGS

### PAPERS

Dr. Fay Ajzenberg-Selove, *The Future Funding of Nuclear Physics* (Lawrence Livermore Laboratory, Livermore, California); *The Light Isobars*, colloquia at University of Texas (Austin) and Ohio University . . . Dr. Peter F. Binnion, *Plasma-digoxin Levels and the Electrocardiographic Changes in Man and The Ratio Between Myocardial and Plasma Levels of Digoxin* (International Symposium on Digitalis, Oslo) . . . Dr. Britton Chance, *Brain Bioenergetics* (American Philosophical Society, annual general meeting, Philadelphia) . . . Dr. Mirjan Damaska (Rapporteur General) *Road Traffic Offenses by Foreigners* (*Revue Internationale de Droit Penal, Paris*) . . . Susan Dudley and Dr. David R. Goddard, "Joseph T. Rothrock and Forest Conservation," (*Proceedings of the American Philosophical Society*, v. 117, no. 1). (Dr. Rothrock, physician-botanist and University faculty member who formulated Commonwealth forest policy and was commissioner, and, until his death, a member of the Pennsylvania State Commission of Forestry, was honored by having his birthday, April 9, declared National Arbor Day.) . . . Dr. Richard A. Easterlin, "Does Money Buy Happiness," *The Public Interest* (answer: a qualified yes) . . . Dean Arthur E. Humphrey, *Problems in Modeling Bio-Systems and Construction and Utilization of a Mathematical Model for Computer Control of an Antibiotic Fermentation* (Donald L. Katz Lectures in Chemical Engineering, University of Michigan) . . . Dr. Paul M. Lloyd, *Lat./-/esp./h-/y el problema de la explicación histórica* (International Linguistic Association, annual conference on linguistics, Peru) . . . Dr. Wilfred Malenbaum, *Materials Requirements in the United States and Abroad in the Year 2000*, report of a study directed for the National Commission on

## AMONG OTHER THINGS continued

Materials Policy . . . Dr. Janette L. Packer, *Current Practice of Teacher Preparation in the Health Professions: Assessment and Recommendations* (American Educational Research Association, New Orleans) . . . Dr. Arnold G. Reichenberger, *Aesthetics of Tragedy in the 17th-century Spanish Theatre* (University of North Carolina, Chapel Hill) . . . Dr. Elias Schwartz, *Compensation for Abnormal Globin Synthesis in Thalassemia* (New York Academy of Sciences, third conference on Cooley's Anemia, New York City) . . . Dr. Jacob Schut, *A New Pattern of Drug Addiction* (American College of Physicians, annual meeting, Chicago) . . . Dr. Richard Schwartz, *Maternal and Fetal Risks in Amniocentesis* (symposium on prenatal diagnosis, Jefferson Medical College, Philadelphia) . . . Dr. Martin Seligman, "Fall into Helplessness," *Psychology Today*, June, 1973 . . . Dr. Sidney Shore, *The Static and Dynamic Analysis of Horizontally Curved Bridge Structures and Spectrum of Dynamic Problems in Cable Structures* (American Society of Civil Engineers, national structural engineering meeting, San Francisco) . . . Dr. Eliot Stellar, *Brain Mechanisms in Hunger and other Hedonic Experiences* (American Philosophical Society, annual general meeting, Philadelphia) . . . Dr. Paul F. Watson, *Italian Wedding Furniture of the Early Renaissance* (College Art Association of America, annual meetings, Metropolitan Museum of Art) . . . Dr. Vincent H. Whitney, *Research Directions in Social Science Population Studies* (NIH population research and training committee, Elkridge, Md.) . . . Dr. Ruth L. Widmann, *Perception in "Dr. Faustus" and "Macbeth"* (MLA annual meeting, Shakespeare section, New York City) . . . Dr. Marvin E. Wolfgang, *Crime in a Birth Cohort* (American Philosophical Society, annual general meeting, Philadelphia).

### BOOKS

Dr. D. Bruce Johnstone, *New Patterns for College Lending: Income Contingent Loans* (Columbia University Press) . . . Dr. Chong-Sik Lee, co-author, *Communism in Korea* (2 volumes, University of California Press) . . . Dr. Benjamin F. Miller, co-author, *Freedom from Heart Attacks* (Simon and Schuster) . . . Dr. Morris Rubinfoff, editor, *Advances in Computers*, vol. 12 (Academic Press) . . . Sol Worth, co-author, *Through Navajo Eyes: An Exploration in Film Communication and Anthropology* (Indiana University Press) and author, "Toward an Anthropological Politics of Symbolic Forms," *Reinventing Anthropology*, Dr. Dell Hymes, editor (Pantheon). . . Dr. Sidney Weintraub, *Keynes and the Monetarists* (Rutgers University Press).

### TRAVEL

#### RECENT

Dr. Otto E. Albrecht to Boston to attend a conference on early music as a guest of the Colonial Society of Massachusetts . . . Dr. Joseph Bordogna to Moscow and Akademgorodok (Academic City) to present papers on possible uses of holography at the All-Union Symposium on the Principles of Holography and to meet with members of the USSR Ministry for Higher and Special Secondary Education . . . Drs. Benjamin G. Brackett and Gene Oliphant to San Francisco to participate in a program on Radio-Immune Assay for Changes in Sperm during the Process of Capacitation at the annual meeting of the American Fertility Society; at the same meeting Dr. Luigi Mastroianni chaired a panel on Oocytes and Ovary . . . Dr. William M. Evan to New York City as member of the program committee of the annual convention of the International Studies Association; Dr. Henry Teune was named chairman of the same committee for next year's meetings . . . Dr. Alfred P. Fishman to England as first resident Litchfield Lecturer at Oxford University . . . Dr. Celso-Ramon Garcia to San Francisco as director of a post-graduate course in surgery in female infertility sponsored by the American Fertility Society . . . Dean Neal Gross to Jerusalem to present the Invitational Lecture Series on Education at Hebrew University and to the Institute of

Educational Studies of Oxford University to speak on "Sociological Perspectives on the Failure of Promising Educational Innovations" . . . Dr. Samuel Z. Klausner to universities in The Hague, Amsterdam, Utrecht and Rotterdam as consultant on social-scientific aspects of environmental programs to the Scientific Council on Long-term Government Policy . . . Dr. Alan G. MacDiarmid to the University of Karlsruhe and to other German universities as guest professor of chemistry . . . Dr. Carroll Smith-Rosenberg to the University of Minnesota (Minneapolis) to teach in an interdisciplinary women's studies course on contemporary feminism; she was one of five visiting professors . . . Dr. Vincent H. Whitney to Puerto Rico to participate in a conference on "Race and its Relevance in the Americas," sponsored by the Inter-American Universities . . . Dr. Irving Wolman to New York City as member of the advisory committee of the third conference on Cooley's Anemia, sponsored by the New York Academy of Sciences . . . Dr. Ruth L. Widmann to the University of Bonn to present a paper and seminar on "Textual Problems in 'A Midsummer Night's Dream' and 'Comedy of Errors.'"

#### UPCOMING

Dr. George Hoshino to Britain as member of a United States-United Kingdom exchange project team sponsored by the Ford Foundation to study the British system of social services . . . Dr. Wilton Krogman; to Boca Raton in October, where he will be honored by the Edward H. Angle Society of Orthodontists for his research in growth of jaws, face and teeth . . . Dr. Felice Perlmutter to New York City to help plan the program on "Consultation and Education" for the Tri-Regional Conference of Community Mental Health Centers . . . Dr. Barbara Ruch to Kyoto to participate in a collaborative research conference on 15th-century Japanese life; results of the studies will be discussed at a "Conference on Ashikaga Japan" in August . . . Dr. Samuel C. Vila to Warsaw to speak on his specialty, white dwarf stars, at a symposium on "Late Stages of Stellar Evolution"; the symposium is part of an Extraordinary General Assembly of the International Astronomical Union to commemorate the 500th anniversary of the birth of Copernicus.

### ELECTIONS/APPOINTMENTS

Dr. Bernard E. Anderson to the board of directors of the Philadelphia Urban League . . . Dr. Samuel G. Armistead as a Fellow of the Mediaeval Academy of America . . . Dr. Walter R. Cuskey as advisory editor and consultant to the international quarterly, *Public Health Reviews* and as program chairman of the 1973 Pennsylvania Health Conference on "Personal-Community Environmental Health: A Critical Balance" . . . Dr. Alfred P. Fishman to the World Health Organization panel on cardiovascular diseases . . . Dr. Kenneth Goldstein as first vice-president of the American Folklore Society . . . Dr. Dell Hymes as president of the American Folklore Society . . . Dr. Frederick G. Kempin as associate editor of the American Journal of Legal History . . . Dr. Ezra S. Krendel as chairman of the biocentral committee of the American Automatic Control Council . . . Dr. Wilton M. Krogman as senior honorary president of the third International Congress of Orthodontics . . . Dr. Lester B. Luborsky as president-elect of the Society for Psychotherapy Research . . . Dr. Wilfred Malenbaum to the steering committee of the National Council for International Health . . . Dr. Almarin Phillips as consultant to Secretary of the Treasury George Schultz . . . Dr. Arnold G. Reichenberger to membership in the Hispanic Society . . . Dr. Ernest F. Rosato to membership in the Society of University Surgeons . . . Dr. Karl Shell as Fellow of the Econometric Society . . . Dr. Anthony R. Tomazinis to the State transportation planning advisory task force to advise PennDOT . . . Dean Bernard Wolfman to the Philadelphia regional planning council of the Governor's Justice Commission.

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