

Almanac

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Dr. Domenico Fazio, director general for university instruction of the Italian Ministry of Education, was on campus last month to talk with President Meyerson, Provost Gregorian, and others about the University's year-old Italian Studies Center. While here, Fazio was presented with a University of Pennsylvania Medal. He said in his acceptance remarks that he hoped United States and Italian universities would continue "to build a strong cultural bridge." The Italian Studies Center, headed by acting director Jerre Mangione, emeritus professor of English, is currently offering a graduate-level program in Italian language and literature, the first of its kind in the Philadelphia area. According to FAS Dean Robert Dyson, an M.A. degree is being offered through the department of Romance languages and a Ph.D. degree is in the planning stages. The University to date has raised more than \$200,000 in contributions and pledges toward its \$1.3 million goal for the Italian Studies Center.

Search Committee Announced

The names of the four faculty members who will serve on the 12-member presidential search committee were expected to be announced today by Trustees Chairperson Paul Miller.

Professor Walter Wales, chairperson of the Faculty Senate, said earlier this week that the names of the faculty nominees would be presented to Miller this morning.

As of Tuesday night, three faculty members had been tapped for the position and had agreed to serve. A fourth had not yet been selected. Wales did not disclose the names of any of the individuals.

He did say, however, that the choosing of the faculty contingent to the search body, a job undertaken by the Senate Advisory Committee, had not been a painless process. After SAC had been unable to agree on the

procedure for the selection of candidates, letters were sent to all members of the Faculty Senate asking for suggestions on procedure and names of possible candidates. About 100 persons responded, Wales said.

Still, SAC encountered "some snags" in applying the procedure it had settled on, Wales said. They were largely disposed of during a Tuesday morning session, however, at which time SAC members partially rank-ordered a list of 12 prospective nominees to the search committee.

According to Wales, SAC, after much deliberation, finally decided that at least two of the faculty representatives on the committee had to have been elected at some time to serve as chairperson of the Senate, a scheme that would allow for the chairperson-elect to

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AAUP Discusses Faculty Status

The strength of any university lies in its faculty. And across the nation, that faculty is in trouble: its economic status is declining, its tenure system is under attack, and its prestige is faltering.

These are among the conclusions reached by three University faculty members and President Martin Meyerson at last Thursday's meeting of the University chapter of the American Association of University Professors.

"The American university is in about as sad a situation as we've seen it since World War II," Meyerson said. To illustrate this decline, Meyerson noted that "in the past, when you found the best students in arts and sciences in major American universities, you would assume they would be going on to an academic career." That's no longer the case, however. Today, the best students are forsaking academia for the larger job market and higher salaries of the business world.

Why aren't the best and the brightest going on to academic careers today? What is the nature of the decline among the American professoriate?

Speaking for the faculty, Professors Robert Lucid, Walter Wales and Peter Conn addressed these issues. They outlined three areas in which the professoriate is losing ground: the decline in economic status and in faculty decision-making power, and attacks on the tenure system.

Lucid noted that "you don't have to know anything about economics to know about faculty salaries. There's no question about the fact that our economic status has declined." While salaries at the University are comparable to those at the Ivy League schools and other top educational institutions, they have not kept pace with inflation or with the salaries of other professionals.

He believes that if the decline is not halted, "the American professor will be changing. We're moving from the serious to the melodramatic in this situation," Lucid said. "It is one of real concern."

Not only doesn't academia pay as well as the business world, but opportunities for advancement may not be as numerous. Of late, the tenure system has been attacked as antiquated, as stifling the academic job

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PENN PEOPLE

Dr. Robert D. Friedman was recently appointed acting associate director of the clinical research center at the School of Dental Medicine. Friedman will continue to hold a faculty position with the department of oral medicine and pursue his own research programs.

Friedman earned his bachelor's degree in chemistry at Brooklyn College, his dental degree from New York University, a master's degree in biochemistry from Brandeis University and a Ph.D. in human genetics from Indiana University. He also continues to practice family dentistry in his private office.

Friedman has special interest with funding from the National Institute of Dental Research to study the genetics, epidemiology, biochemical structure and functional interrelationships of heritable salivary proteins in health and disease. Penn's clinical research center is helping to coordinate research activities among various clinical and basic scientists studying oral disease, and will also be engaged in helping to develop a collaborative systems approach to the study of diseases with oral and systematic manifestations, Friedman said.

Roland M. Frye, Schelling Professor of English, will be presented the Milton Society's James Holly Hanford Award for his recent book *Milton's Imagery and Visual Arts* at the annual meeting of the Society in December. Frye spent the fall semester as a member at the Institute for Advanced Study in Princeton, N.J.

Claire M. Fagin, Ph.D., R.N., dean of the School of Nursing, has been elected to the Institute of Medicine of the National Academy of Sciences. Dr. Fagin is one of six University faculty elected to the Institute.

DEATHS

Dr. Esmond R. Long, professor emeritus of pathology and a specialist in tuberculosis, died November 11 at the Devon Manor Nursing Home, Devon, Pa. He was 89.

Long had served on the University faculty from 1932 to 1955, most of that time as director of the Henry Phipps Institute for the Study, Treatment and Prevention of Tuberculosis.

Born in Chicago, Long was graduated from the University of Chicago and its Rush Medical College. He was on the university's staff from 1919 to 1932, when he took the post at Penn.

Long was the author of many books, among them *The Chemistry of Tuberculosis* and *A History of Pathology*.

Also active in the study of leprosy, Long edited the *Journal of Leprosy* from 1964 to 1969.

He is survived by a son, Esmond R. Jr. and a daughter, Judith L. Neal.

Other members include Renee Fox, Ph.D., and Henry Riecken, Ph.D., both of the School of Medicine. The Institute was created in 1970 to examine vital public health issues.

Stuart M. Dolgin, M.D., fellow in gastroenterology, received the 1979 Annual Fellow Award of the American Liver Foundation for his work in analyzing radiographic studies of gallstone composition. This work will help refine the criteria for the selection of patients for treatment with chenodeoxycholic acid, a substance which will dissolve cholesterol stones.

W. Bruce Allen, associate professor of public management and member of the coordinating committee of the Wharton Transportation Program, presented a paper, "Examination of the Unrelated Trucking Experience in New Jersey," to the Interstate Commerce Commission's Federal-State Workshop on Motor Carrier Regulation in Reston, Va. October 23.

John F. Lubin, associate dean and chairman of the department of management, was appointed Director of Wharton International Activities. Lubin will now represent the dean and the Wharton School in activities which involve relationships and possible associations with institutions outside the U.S.

Alfred R. Golze received the D. Robert Yarnall Award November 2 at the 1979 meeting of the University of Pennsylvania Engineering Alumni Society. Golze, a prominent civil engineer who supervised the design and construction of the highest embankment dam and highest pump lift in North America, is a 1939 graduate of the University's Towne Scientific School, civil engineering department. The Yarnall Award was established in 1968.

Steven P. Gigliotti, medical artist from the medical biocommunications department at the School of Medicine was awarded first prize for his drawing "Chaetodontidae," in the continuous tone, scientific division at the annual meeting of the Guild of Natural Sciences in Pittsburgh, Pa. last summer. The same illustration also won first prize in the continuous tone, wildlife division at the meeting and exhibition of the Association of Medical Illustrators, the Biological Photographers Association and the Health Sciences Communications Association in Kansas City, Mo. in August.

Dr. William Fitts, Jr., professor of surgery, received the Union University Alumni Association's Distinguished Service Award November 17 on the Union University campus in Jackson, Tennessee.

Dr. John Murphy, professor and director of the division of urology participated in urology seminars in Doha, Qatar, November 14-16 at the invitation of the Qatar Ministry of Health. Murphy also visited the National Cancer Institute at Cairo University November 16-20 at the invitation of Dr. Salah Shahbender, dean of the institute.

AAUP Meeting on Faculty Status (continued from page 1)

market by limiting job openings, and as hindering the advancement of younger faculty members.


As a result of various attacks on the system, Wales noted, at some universities, tenure has been replaced with term contracts, has been bargained away altogether, or has been circumvented by extensive use of part-time faculty, or by establishment of a permanently revolving faculty with no possibility of ever earning tenure.

Wales noted that none of these things are being done at present at the University; he concluded that the system here was basically a good one.

He suggested, however, that there are a couple of alterations in the system—the adoption of the clinician/educator track and research professorships both of which are non-tenured—that may pose future problems. Generally, Wales said he did not see many threats to the tenure system at the University, adding that the president has been a more consistent supporter of the system than—at times—the faculty themselves.

Less faculty participation in the decision-making process has contributed to a decline in the prestige of faculty members, concluded Peter Conn. While academic and curricular decisions tend to be the faculty's bailiwick, budget planning and long-range decisions are falling increasingly to administrative decision-makers. Yet, Conn noted, faculty are just as much a part of the university's management as the administration is, and thus should have a role in the latter decisions as well.

—C.A.V.



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School of Medicine Receives Grant for PETT Center

The School of Medicine's neurology department received one of six \$1.25 million grants for a three-year period from the National Institute of Neurologic and Communicative Diseases and Stroke of the National Institutes of Health. The grant will be used to establish a positron emission transaxial tomography (PETT) center within the school's Cerebrovascular Research Center by February 1980.

Dr. Martin Reivich, professor of neurology at the school and a neurologist at the Hospital of the University of Pennsylvania, will be principal investigator for the study, which will be a collaborative effort conducted at the hospital. Reivich has been director of the Cerebrovascular Research Center, one of 15 such centers in the U.S., since 1974.

Among other co-principal investigators will be Dr. Abass Alavi, associate professor of radiology at the school and chief of the section of nuclear medicine at the school's department of radiology, and Alfred Wolf, of the Brookhaven National Laboratories on Long Island, New York. Wolf has been instrumental in synthesizing radioactive biological compounds used in the research.

According to Reivich, the "ability to make [these radioactive] tracers" is PETT's "only limitation."

PETT is a technique which is used to take three-dimensional "pictures" of the body. It is similar to computerized axial tomography (CAT) scanning; however, CAT scanning is a transmission technique which uses x-rays to construct the picture. With PETT, a patient is injected with or inhales a biochemical such as ammonia or oxygen that has been tagged with a short-lived radioisotope. The radioactive tag emits positrons—charged particles detectable by a computerized imaging device. A scanning detector then follows the tagged compound's progress

through brain tissue. Chemical activity is displayed on a television screen as a grid of color patterns, much like a patchwork quilt.

Depending upon the isotope used, various information can also be obtained using PETT that is not available with a CAT scan, such as blood flow through an organ, or the amount of glucose metabolized by an organ.

The isotopes used in PETT are isotopes of naturally-occurring elements, nitrogen, oxygen and carbon. To assure availability of these isotopes, the investigators will use an accelerator under the direction of Professor Roy Middleton, physics. Since the half-life of many of these isotopes are measured in minutes, they will have to be pumped via tubing from the physics lab two blocks away.

Future plans call for the addition of a cyclotron facility at the hospital. This will enable researchers to study patients both night and day.

At first, this new PETT capability will be used to study the human brain's blood flow and the utilization of oxygen and glucose by cerebral structures. These metabolic studies or "normal studies" will be used to measure

increased brain activity to determine which brain centers are involved in processing different types of information. For example, in response to a visual stimulus, certain regions of the brain increase utilization of glucose. The information can be used to determine which parts of the brain are involved with processing information related to vision.

Clinically, the information obtained with this technique potentially will be of importance in contributing to the knowledge of abnormalities present in various disorders, such as strokes, seizures, head injuries and certain mental disorders.

Yet according to Reivich, PETT's greatest benefit in the future will be its use as a means of evaluating the effectiveness of therapy and the development of new types of therapy based on that information. For example, PETT can potentially be used to determine the extent of brain damage a patient receives during a stroke and, after medication has been administered, to see how helpful the treatment has been to the patient.

—E.E.

Presidential Search Committee (continued from page 1)

fit into that category. The other faculty member (or members) would not have had to have held office within the Senate.

Wales said he hoped this procedure "would permit diversity" on the faculty delegation. He added that he had been asked to consider himself as a nominee, but that he had rejected the notion. He said too that no individual holding faculty rank whose primary responsibility nowadays is as an administrator was considered by SAC as a committee nominee.

Earlier this week the names of two stu-

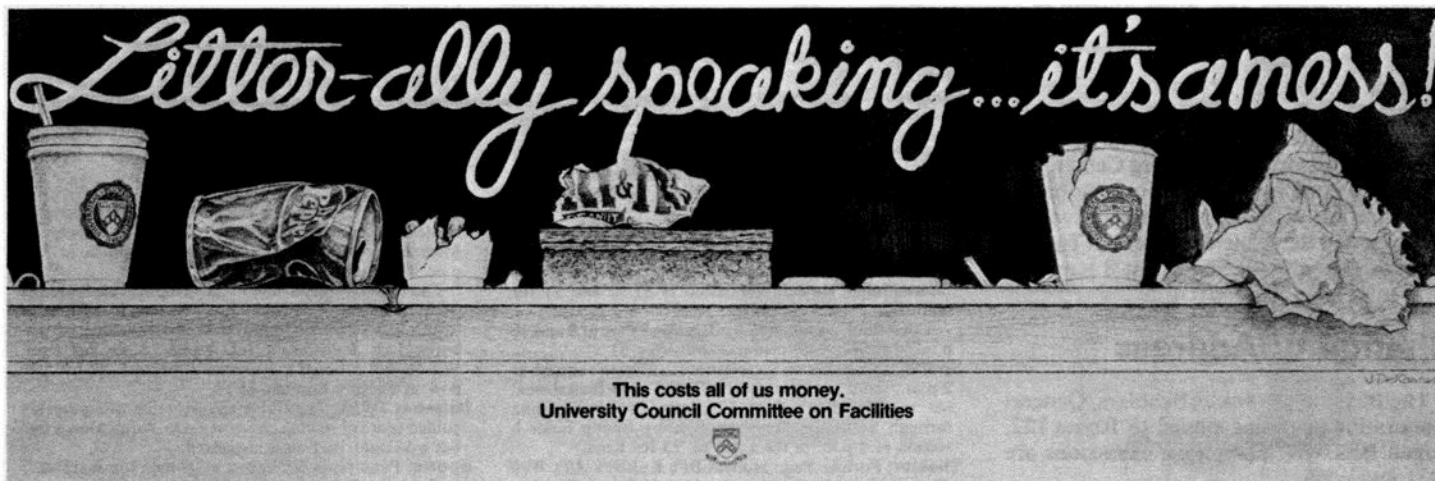
dents who will sit on the search committee—providing they are approved by the trustees executive board—were announced.

Kenneth Kronhaus, president of the Medical Student Government, was named by the Graduate and Professional Student Assembly to represent graduate and professional students. Kronhaus is both a medical and Ph.D. (physiology) student. He has been at the University since 1975.

Undergraduate students will be represented on the search committee by Marc Sandler, a sophomore in FAS.

Pick it up!

The University Council Committee on Facilities has gone graphic. Its newly launched anti-litter campaign is being promoted by a series of posters, such as this one, which soon will be seen at key locations around the campus. The point is simple: Don't put your empty Dr Pepper cans and M&M bags anywhere but in one of Penn's trash receptacles. As the poster notes, littering "costs all of us money."



WORTH NOTING

• The A-3 Coordinating Committee invites all A-3 employees to its Holidays' Party, Wednesday December 12, from noon to 2 p.m. in the Bowl Room, first floor, Houston Hall. Coffee, tea, dessert and entertainment will be provided, but party-goers are asked to bring their lunches. Anyone who wishes to donate cakes, cookies, brownies or other desserts should call Margaret Sabre (Ext. 5285), Inge Larson (Ext. 4560), or Phyllis Friedman (Ext. 7894).

• The W.W. Smith Trust Fund currently provides funds for term time and summer job experience for qualified handicapped students currently not participating in the federally-funded College Work-Study Program. If you know of a handicapped student (undergraduate or graduate) who might want such employment experience, have him or her contact Sally H. Johnson, associate administrator of the Office of Equal Opportunity, 3537 Locust Walk, Ext. 6993 for further information and an application.



Martha Schlamme and Alvin Epstein in A Kurt Weill Cabaret

• Direct from Broadway, Martha Schlamme and Alvin Epstein present their lively and elegant musical potpourri *A Kurt Weill Cabaret* at the Annenberg Center. The celebrated composer's songs, many done in collaboration with Bertoldt Brecht, will be performed in the Annenberg School Theater through December 9, nightly at 8 p.m.

Change of Address

The Benjamin Franklin Scholars/General Honors Program has moved to Room 122, Logan Hall/CN. The phone extensions are 7451 and 6066.

ON CAMPUS

Items for On Campus should reach the Almanac office by noon the Thursday preceding desired publication.

December 6-12 6 Thursday

Blood Drive: The University Hospital sponsors a blood drive, 11 a.m.-5 p.m., Phi Kappa Sigma fraternity.

Coffee Hours: The Modern Language College House hosts coffee and conversation hours for students of Italian and German at 4 p.m., Class of '25 House.

Lecture/demonstration: International House presents pedal steel guitar and banjo player Winnie Winston as part of the monthly series *Making Music Together: Improvisation in Five Traditions* at 8 p.m., International House. Admission is \$1.50 for House members, \$2 for the general public.

Lectures: The microbiology department features Dr. Ponzy Lu on *Using Genetics to Do Protein Chemistry: The Lac Repressor*, 11:30 a.m. in Room 163-64 Mezzanine, Medical School.

The geology department presents Professor Bruno J. Giletti of Brown University on *Is the Ion Microprobe the Answer to a Geologist's Prayer? What Has It Done For You Lately?*, 4 p.m., Hayden Hall 104.

The Graduate Group in Ancient History features Professor William V. Harris on *The Slave Supply and the Slave Trade of the Roman Empire*, 4:30 p.m. in the west lounge, fourth floor, Williams Hall.

The G.S.F.A. sponsors Christopher Cairns, sculptor and professor of art at Haverford College on *Agostini and David Smith*, 7:30 p.m., Fine Arts room B-3. Ernest Scheidegger's film *Giacometti* will also be shown. Admission: free.

The Center for the Study of Aging presents Dr. Robert Johnson on *Histological Survey of Age-Related Changes in the Nervous System* at 4 p.m. in Room 113, Nursing Education Building.

Movies: The International Cinema Series shows Bockmayer and Buhrmann's *Jane Is Jane Forever* at 7:30 p.m. and Rohmer's *Perceval* at 9:30 p.m. in the International House. Admission: \$1.50.

Poetry Reading: The English department presents Robert Pack at 4 p.m. in the Philomathean Halls, fourth floor, College Hall.

Seminars: The School of Public and Urban Policy features Martha Derthick of the Brookings Institute on *The Politics of Deregulation* at 2 p.m., School of Public Policy.

The South Asia Program presents an interdisciplinary seminar on *Ritual as Interaction at Bamilyan* with Deborah Klimburg-Salter of UCLA from 11 a.m. to 12:30 p.m. at the University Museum, classroom II. Call Ext. 7475 for more information.

Theater: *A Kurt Weill Cabaret* continues through Sunday at the Annenberg School Theater. Call Ext. 6792 for information.

Former Penn student Bob Kolsby's *All's Well That Ends* is presented in the Harold Prince Theater, Annenberg Center at 8 p.m. Admission: \$2.

7 Friday

Coffee Hours: The Modern Language College House hosts coffee and conversation hours for students of French, Spanish, and Russian at 4 p.m., Class of '25 House.

Concert: The University's Choral Society performs works by Haydn, Brahms, and Purcell at 3:30 p.m. in the Tabernacle Church, 3700 Chestnut Street.

Lecture: The English department presents Professor G.K. Hunter of Yale University on *Hearing Shakespeare's Poetry* at 3 p.m. in Room B-13, Chemistry Building.

Movies: The International Cinema Series offers Bockmayer and Buhrmann's *Jane Is Jane Forever* at 4 p.m. and 10 p.m. and Rohmer's *Perceval* at 7:30 p.m. in the International House. Admission is \$1.50 and \$1 for matinees.

The Penn Union Council offers *Foul Play* at 8 and 10 p.m. in Irvine Auditorium. Admission: \$1.

Sports: Penn takes on Swarthmore in women's squash at 2 p.m.; Penn competes in the First Union Invitational for men's basketball at Charlotte, North Carolina through Saturday; the Penn Skating Group holds a session at 4 p.m. in the Class of '23 Ice Rink.

Theater: Former Penn student Bob Kolsby's *All's Well That Ends* is presented in the Harold Prince Theater,

Annenberg Center at 8 p.m. Admission: \$2.

The Ballet de Jeunes performs in the Zellerbach Theater at 8 p.m. Call 473-2253 for information.

8 Saturday

Movies: The Penn Union Council shows *The Paper Chase* at 7:30 and 11:15 p.m. and *The Harrod Experiment* at 9:45 p.m. in Irvine Auditorium. Admission: \$1.

Sports: Penn meets Delaware in men's wrestling at 2 p.m.; Penn takes on Princeton in men's swimming at Princeton; Penn competes in the Lehigh Invitational for men's indoor track; Penn plays Harvard in men's basketball at Harvard.

Theater: Former Penn student Bob Kolsby's *All's Well That Ends* is presented in the Harold Prince Theater, Annenberg Center at 8 p.m. Admission: \$2.

The Ballet de Jeunes performs in the Zellerbach Theater at 8 p.m. Call 473-2253 for information.

9 Sunday

Children's Program: International House's Children's Folklore Program presents a Christmas celebration for children and their parents at 2 p.m. at the International House. Tickets are \$2 for adults, \$1.50 for children. For more information, call 387-5125 ext. 201.

Concert: The University Museum Film Series sponsors a concert at 2:30 p.m. in the Harrison Auditorium, University Museum. Admission: free.

10 Monday

Lectures: The department of history and sociology of science features Professor John Parascandola of the University of Wisconsin on *John J. Abel and the Development of American Pharmacology* at 4 p.m., Smith Hall 107.

The department of chemical and biochemical engineering sponsors Greg Powers on *Characterization of Macromolecular Films Absorbed in Track-Etched Membranes* at 3:30 p.m. in Alumni Hall, Towne Building.

The department of geology features Dr. Daniel Murray of the Weston Observatory on *Metamorphic Relationship in the Hudson Highlands* at 4 p.m. in Room 104, Hayden Hall.

Sports: Penn competes against Widener in women's swimming at 7 p.m. at Widener.

11 Tuesday

Alumni Events: The General Alumni Society and the Weightman Society sponsor a pre-basketball game cocktail party and dinner at the Faculty Club. Call Ext. 7811 for information.

Lecture: The psychology department presents Dr. Byron Campbell of Princeton University at 4:45 p.m. in Room B-21, Stiteler Hall.

Meeting: Faculty Tea Club meeting featuring The Collegium Musicum A Program of Renaissance Music (Mary Ann Ballard, director) at 1:30 p.m., the Faculty Club.

Seminar: Dr. Una S. Ryan of the University of Miami leads this week's Respiratory Physiology Seminar on *Pulmonary Endothelial Cells* at 12:30 p.m. in the Physiology Library, Richards Building.

Sports: Penn takes on Duke in men's basketball, 9 p.m., at the Palestra.

12 Wednesday

Lecture: The Language in Education Program sponsors Professor Anne E. Berthoff of the University of Massachusetts on *The Philosophy of Rhetoric* at 2:30 p.m. in Room A-18, Education Building.

The physics department is Goodspeed-Richards Memorial Lecture features Prof. Robert R. Wilson of Columbia University on *World Accelerators*, Rittenhouse Lab Auditorium A2, 4 p.m. A tea for Prof. Wilson will proceed the lecture. It's scheduled for 3:30 p.m. at Faculty Lounge, 2E17.

Museum Tours: The University Museum offers weekly guided tours of its collections at 1 p.m. Admission is free but a \$1 contribution is suggested.

Sports: Penn plays Villanova in women's basketball, 7 p.m., at the Palestra.

FOR THE RECORD

Provost Sets Rules For Final Exams

1. No student may be required to take more than two final examinations on any one day during the period in which final examinations are scheduled.

2. No instructor may hold a final examination except during the period in which final examinations are scheduled and, when necessary, during the period of postponed examinations. No final examinations may be scheduled during the last week of classes or on reading days.

3. Postponed examinations may be held only during the official periods: the first week of the spring and fall semesters. Students must obtain permission from their dean's office to take a postponed exam. Instructors in all courses must be ready to offer a make-up examination to all students excused from the final examination.

4. No instructor may change the time or date of a final exam without permission from the appropriate dean or the vice-provost.

5. No instructor may increase the time allowed for a final exam beyond the scheduled two hours without permission from the appropriate dean or the vice-provost.

6. No classes (covering new material) may be held during the reading period. Review sessions may be held.

7. All students must be allowed to see their final examinations. Access to graded finals should be ensured for a period of *one semester* after the exam has been given.

We encourage professors to be as flexible as possible in accommodating students with conflicting exam schedules.

—Vartan Gregorian
Provost

Guidelines for Use of Facilities at La Napoule

From time to time questions are raised concerning the possibility of visiting the Chateau and other facilities at La Napoule, France. The installation at La Napoule is a French National Monument which is owned by the La Napoule Art Foundation, a non-profit educational corporation chartered in New York. Although the University of Pennsylvania names a significant majority of the Board of Trustees, it must nevertheless abide by the conditions of the charter and laws and regulations applying to French National Monuments.

Under the charter the Foundation is to exhibit the works of Henry Clews and to encourage Franco-American cultural exchanges. Neither the charter nor the laws of France and the ordinances of Mandelieu-La Napoule permit the Chateau to be used as a hotel or restaurant. It is possible to use the

facilities for courses and conferences and in connection with them to provide housing facilities and to make arrangements for catered meals.

If a faculty member from the University wishes to visit La Napoule for the purpose of planning a conference it is essential that he or she communicate with Donald Murray in the International Programs Office who will notify the concierge/intendant at the Chateau of the planning visit. The concierge will not admit anyone to the grounds unless he has received notice from Dr. Murray's office. If a faculty member wishes to stay overnight in connection with such a visit the charge is \$25 per night per person including a continental breakfast. No other meals can be provided. Overnight stops in the colder months are not recommended since the Chateau is heated only to about 55 degrees.

For the individual who simply wishes to have a look at the Chateau it is possible to take a guided tour with a French speaking guide. From September through June with the exception of December tours are conducted Monday to Friday in the afternoon and daily in July and August. Tours are not usually available when conferences are in session. The charge for the tour is currently seven francs.

—Donald S. Murray
Acting Coordinator of
International Programs and Vice
President, La Napoule Art Foundation

Space Committee to Review Requests

The University Space Committee is responsible for allocating space to programs *whose needs cannot be met by a department's or responsibility center's existing facilities*. Program space needs in an individual school should be submitted first to the school's space committee. If space is not available in the school's facilities, then it is appropriate for the program to present its proposal to the Space Committee.

The Space Committee is beginning its review of space requests and asks that programs which are in need of space by September 1980 or earlier and have not yet submitted a request do so prior to January 1, 1980. The requests should be submitted in writing to Dr. Louis Girifalco, chairman, University Space Committee, 106 College Hall/CO. The letter should describe the amount and type of space needed, the purpose for which it will be used, source of funding for any renovation, if required, and latest acceptable move-in date.

—Louis Girifalco
Chairperson, Space Committee

HUP Receives Grant from HEW

The Nutrition Support Service of HUP has received a grant of \$160,000 for each of the next three years from the Health Resources Administration of the Department of Health, Education and Welfare. The grant will help develop curriculum for an interdisciplinary nutrition education program.

Dr. John Rombeau, assistant professor of surgery at the School of Medicine and a member of the surgical staff at the hospital, will direct the program. Rombeau has served as chairman of the education committee for the American Society of Parenteral and Enteral Nutrition, a national organization dedicated to the clinical application of nutrition and support procedures.

Dr. James L. Mullen, director of the Nutrition Support Service, and Lon Crosby, executive director, will also be instrumental in this program.

The interdisciplinary nutritional education program will provide a focal point for nutrition education activities in the health professions. It will involve students in medicine, nursing, dentistry, pharmacy, dietetics, and social work from various hospitals and schools in the Philadelphia area.

WEOUP Elects New Officers

Women for Equal Opportunity at the University of Pennsylvania (WEOUP) installed a new slate of officers at its November 30 luncheon meeting in the Faculty Club. New officers include: Jeanne Jensen, president; Ruth Wells, A-1 vice president; Rosalyn Eisenberg, A-2 vice president; Rachel Clifton, A-3 vice president; Gretchen Ray, student vice president; Debbie Levinson, secretary and Carol Tracy, treasurer.

A committee to deal with all types of grievances was also nominated; Carol Tracy will serve as chairperson. Others nominees of the Grievance Committee include: Helen Davies, Jocelyn Somers, Sylvia Butcher and Linda Potemken.

CORRECTION

In last week's list of individuals who have been nominated to the Senate's 1980-81 nominating committee, Janice Madden was identified in ALMANAC as a member of the regional planning faculty. She should have been identified as a member of the regional science faculty.

Two telephone numbers published in the Safety Resources Guide, a supplement to last week's ALMANAC, were incorrect. The correct numbers are: Suicide and Crisis Intervention (HUP)—MU 6-4420; HUP Emergency Room—662-3920.

OPPORTUNITIES

The following listings are condensed from the personnel office's bulletin of November 29. Because of the delay occasioned by printing schedules, these listings should not be considered official. Some of the positions may no longer be available. Bulletin boards at several campus locations list full job descriptions. For further information, call personnel services, Ext. 7285. The University of Pennsylvania is an equal opportunity employer. Where qualifications include formal education or training, significant experience in the field may be substituted. The two figures in salary listings show minimum starting salary and maximum starting salary (midpoint). An asterisk (*) before a job title indicates that the department is considering promoting from within.

Administrative/Professional

Accountant I (two positions) (2671) assists in development of indirect cost rates applicable to research and instruction effort; reviews service center costing rates and journal entries (knowledge of University's financial system; college degree or extensive course work in accounting; two years' experience); (2694) is responsible to the director for accounting of all financial aid funds; assists in preparation of fiscal reports; prepares journal vouchers; processes refunds (college degree with courses in accounting; familiarity with financial reporting; thorough and accurate; supervisory ability; basic knowledge of data processing) \$10,375-\$14,375.

Assistant to the Associate Provost (2573) helps plan and maintain academic programs and budgets (Ph.D., M.B.A., or terminal degree) Salary to be determined.

Assistant Controller of Physical Plant (two positions) assists operating accounting functions and managing personnel (B.A. in accounting with budget, audit, finance, and statistics course work) Salary to be determined.

Assistant Director (2569) collects and analyzes energy data for the University conservation program data base, performs technical analyses of various conservation projects, and assists in the formulation and implementation of special procedures for energy calendar management (degree in architecture, mechanical, or electrical engineering, knowledge of Fortran, APL, or Mark IV helpful) Salary to be determined.

Assistant Director II (B84) supervises day-to-day management of clinical facility; screens patients for research projects; advises investigators about protocol; develops new grant proposals and assesses existing projects; trains dental and dental hygiene students (M.S. in health sciences; registered dental hygienist; five years' experience in supervision of clinical facility) \$14,850-\$20,550.

Assistant to the Chairman (2688) schedules appointments and meetings; types letters, reports, manuscripts; acts as liaison; processes applications and appointments; prepares material for distribution (typing 60 wpm; two years' secretarial experience; knowledge of medical terminology and a transcription machine; ability to maintain confidentiality; knowledge of University procedures) \$10,375-\$14,375.

Assistant to the Director, Annual Giving (2607) encourages large gift totals, cultivates and solicits major gift prospects, coordinates design and writing of solicitation material (3 years direct fund raising preferred, graduation from recognized college or university, preferably Pennsylvania) \$10,375-\$14,375.

Assistant Director, Annual Giving (2633) plans and administers annual giving programs for graduate and professional schools; presents programs to alumni groups (college degree; three years' fund-raising experience; ability to direct large-scale volunteer programs) \$12,900-\$17,850.

Assistant to the Director (2707) is responsible for maintenance and amendment of all Affirmative Action and Equal Employment programs of University; advises University community on content and administration of the program (extensive experience and knowledge of affirmative action and equal opportunity regulations; administrative experience in and knowledge of higher education) \$18,625-\$26,250.

Assistant to the Vice-President of Commonwealth Relations (2542) helps represent the University's interests to the General Assembly, the Governor's office, civic organizations, the school board, et. al. (B.A., preferably from Penn., teaching academic administration, and/or administration of student activities experience; familiarity with socioeconomic and political problems of the Commonwealth) \$16,125-\$22,725.

Associate Development Officer II (2518) manages fund-raising program, implements corporate communications projects, prepares major gift appeals (three to five years' experience in public relations or promotional or fund-raising work) \$16,125-\$22,725.

Associate Development Officer III (2541) coordinates fund-raising activities, works with dean on campaign objectives, presents attractive programs to bring in funds (fund-raising experience in higher education and academic administration work) \$24,650-\$34,750.

Buyer (two positions) is responsible for procurement of services, supplies, and equipment, prepares invitations to bid, determines capacities of vendors, interviews salesmen (business background desirable or comparable education, five years' experience in purchasing and procurement) \$12,900-\$17,850.

Career Counselor (2631) develops alumni advising and other career planning; implements career planning seminars and workshops; conducts job hunting strategy sessions (master's degree in student personnel, industrial relations, counseling or related field) \$12,900-\$17,850.

Comptroller (2403) maintains accounting systems and financial reports, monitors receipts and disbursements (advanced degree in accounting, five years' experience with financial and administrative duties) Salary to be determined.

Clinic Director (B41) supervises staff relevant to multidisciplinary research; administers clinical activities; screens patients and makes judgments regarding treatment; responsible for daily operation of clinic (DMD degree with board certification, five years' private practice experience; knowledge of University systems) \$28,325-\$39,950.

Department Head II supervises and operates technical services, acquisitions, cataloging, and serials; plans procedures; supervises work in technical services and photocopy input into on-line cataloging data base (M.A. in library science from ALA accredited school with medical, computer, and natural sciences background; three years' technical processing experience) \$14,850-\$20,550.

Deputy Director (02651) assists in managing department which has responsibility for development, maintenance and operations of the University information system (prefer master's degree in related discipline; five years' experience; demonstrated knowledge of systems and ability to communicate and manage) Salary to be determined.

Director (two positions) (a) serves as chief executive officer of the trustees' publishing arm, plans budgets, contracts, editorial program, establishes basic production and marketing strategies (minimum of ten years' experience in publishing scholarly books, extensive knowledge of financial aspects, acquisition, editorial procedures, familiarity with shipping, printing, and promotion); (b-A992) directs a research center involved in the study of contracts and the management process (M.B.A., D.B.A., or Ph.D. degree, ten or more years experience with a leading management consulting firm) Salary to be determined.

Director, Residence Unit (2630) is responsible for all aspects of staffing, training and evaluation of resident advisors and graduate assistants; creates and maintains a resource of materials and contracts in the area of programming and counseling (master's degree in college student personnel administration or equivalent; residence hall experience) \$10,375-\$14,375.

Editor Assistant (B40) edits manuscripts, books, letters; proofreads; writes miscellaneous copy; prepares dummy copy for publication; deals with publishers; designs covers and brochures (thorough knowledge of English; appropriate college degree or editorial experience) \$10,375-\$14,375.

Executive Assistant to the President (2708) is responsible for the daily operation of the Office of the President, including staff supervision, meetings, correspondence, preparation of events, budget administration and liaison to other offices (superb ability in oral and written expression; organizational ability; productivity; tact and discretion; administrative experience, including familiarity with budget and finance; college or university teaching experience; familiarity with the University) \$24,650-\$34,750.

Fiscal EDP Coordinator (2415) handles systems planning, researches and designs approach to data generated within the organization (B.A. in business administration, experience with budgets, accounting, and data analyses procedures) \$12,900-\$17,850.

Foreman, Repair and Utility (2689) supervises, schedules and assigns work; orders materials and services;

maintains records; inspects employees' work (graduation from trade school; five years as journeyman and steamfitter; thorough knowledge of HVAC systems, automatic temperature control systems, pumps and compressors) \$12,900-\$17,850.

Job Analyst (2625) audits and classifies non-exempt positions; writes and revises job descriptions; assists in cost computational analysis; conducts salary surveys and analyzes results (college degree or equivalent experience; exposure to job evaluation and related salary administration activities) \$10,375-\$14,375.

Junior Research Specialist (six positions) \$10,375-\$14,375. See campus bulletin boards for information.

Operations Accountant (2668) helps prepare University financial report; performs analysis for special projects (college degree or extensive course work in accounting; three years' experience in fund accounting for higher education institutions) \$16,125-\$22,725.

Programmer Analyst I (three positions) (B2) conducts daily computer programming for projects, maintains records for ongoing studies in genetics of diabetes (B.A. in statistics, knowledge of Fortran); (2657) performs systems analyses; develops and implements computer programs; trains users and maintains ongoing liaison with users (B.A. in mathematics or business; expertise with minicomputers and Basic language); (2695) provides technical analysis, design and programming support for various businesses, financial and student systems; heavy user contact (bachelor's degree in computer science; two to four years' experience in COBOL or PL/I utilizing an IBM 370/MVS, CICS network and TSO environment; knowledge of JES.2, VSAM and Mark IV) \$12,900-\$17,850.

Programmer Analyst II (two positions) (B25) defines and implements computer-related tasks, identifies issues of statistical methodology and analytic techniques for data analysis activities, translates research needs into data management and statistical programming tasks, selects appropriate statistical design and testing procedure for center research projects (M.A. in sociology, economics or related field, strong quantitative emphasis, two years of statistics courses); (B22) develops and implements comprehensive systems programming, works with project investigators in statistical and computer processing (degree in mathematics or business administration, two years' systems programming, programming languages: Basic, Fortran, Assembly); (B85) performs comprehensive systems planning, both development and implementation; works with and advises principal investigators and clinicians in areas of systems analysis and application development (bachelor's degree in mathematics and business administration; two years' systems programming experience, preferably on mini system; Basic, Fortran or Assembly) \$14,850-\$20,550.

Project Coordinator (two positions) supervises support staff; implements protocols for new studies; maintains timetables; compiles research data; coordinates day-to-day operations of clinical facility (some college, three to five years' direct clinical or research experience) \$10,375-\$14,375.

Project Manager (2433) develops application software, plans network expansion, deals with vendors, service-men, and Uni-Coll technicians, trains operators, coordinates installations in physical plant (four years' experience with programming systems, programming languages, and heavy PLI and CICS on-line development) \$16,125-\$22,725.

Public Information Officer (B54) develops and coordinates public information program, including media relations, information materials and events with emphasis on marketing programs and services (college degree with three years' public information experience in a non-profit organization) Salary to be determined.

Regional Director of Admissions (2592) is responsible for developing programs for the recruitment of secondary school students (college graduate with educational background and at least three years' experience) \$14,850-\$20,550.

Research Coordinator prepares clinical studies, directs research protocol, interviews patients, orders diagnostic procedures, collates clinical data (nursing skills, familiarity with hemodynamic monitoring equipment, and resuscitation procedures including cardiopulmonary and clinical studies) \$12,900-\$17,850.

Research Specialist I (three positions) \$11,250-\$15,580. See campus bulletin boards for information.

Research Specialist II (2644) assists in research programs involving electron and ion beam fabrication of high temperature, high pressure devices, is responsible for maintaining equipment (knowledge of vacuum

technology, electron microscopes or ion implanters; engineering or basic science degree and experience in semi-conductor materials) \$12,900-\$17,850.

Research Specialist III (2544) maintains, troubleshoots, and repairs Bruker WP-250, NMR Spectrometer, JEOL-PS-100 NMR Spectrometer, Varian A-60A NMR Spectrometer (advanced degree in electronics, physics or chemistry or training with five years' experience in nuclear magnetic resonance spectroscopy); (A682) designs and develops novel electronic systems for particle physics research (advanced knowledge of digital electronics; five years' experience with mini-computers, interfacing and experimental data collection methods) \$14,850-\$20,550.

Secretary of the Corporation is responsible to the president and the chairman of the trustees for trustee affairs and for commencement and special projects; assures staff support for the internal governance operations of the University and its committees (education and experience in academic, administrative, supervisory and communicative functions) Salary to be determined.

Senior Systems Analyst (four positions) \$16,125-\$22,725. See campus bulletin boards for information.

Staff Hygienist (B0095) does patient evaluation, including charting of existing conditions and oral health needs, health history, vital signs; evaluates patient diet in relation to oral health; instructs students in the utilization of a dental hygienist in clinical care (ability to deal with a variety of patients and staff; registered dental hygienist certification and license; two years' direct experience; evidence of continuing education) \$12,900-\$17,850.

Staff Writer II (2679) develops and promotes news of the University with local and national news media; maintains liaison among the University community, higher education areas and the news media; originates and places stories with editors; handles arrangements for media coverage of major campus events; helps to maintain and improve the University's relations with local and national media; identifies and produces newsworthy stories from various assigned beats among the schools of the University (several years' experience in professional news writing and copy editing, ability to deal with higher education subjects, knowledge of news media standards, bachelor's degree, ability to write quickly and in an interesting manner) \$12,900-\$17,850.

Superintendent of Construction and Repairs (2690) supervises, schedules and assigns work; orders materials and services; maintains records; inspects employees' work (graduation from apprenticeship program or two years' technical or engineering school education; 10 years' experience in construction work with five years as a supervisor) \$14,850-\$20,550.

Supervisor, Primate Colony is responsible for propagation, care and use of monkeys for experimental purposes; directs keepers' work; supervises records on animals; acts as medical aide; performs non-routine laboratory functions (college course work in zoology, animal husbandry and mammalogy; five years' experience in care and feeding of primates; knowledge of primate behavior and reproductive performance) \$12,900-\$17,850.

Support Staff

Accounting Clerk (2697) posts revenues and cash to receivables; aggressively follows up on delinquent accounts through correspondence and telephone (high school graduate; legible handwriting and general clerical skills; good typist) \$6,875-\$8,750.

Administrative Assistant I (10 positions) \$7,975-\$10,150. See campus bulletin boards for information.

Administrative Assistant II (four positions) \$9,850-\$12,525. See campus bulletin boards for information.

Admissions Assistant (two positions) (2621) is responsible for the preparation of typed documents; prepares reports, memoranda, documents; maintaining highest standards in the preparation of office's communications to its various constituencies is a priority (accuracy and efficiency; consistency and productivity; excellent typing; knowledge of Mag Card helpful); (2682) interviews prospective applicants; arranges itineraries for campus visitors; makes meeting and travel arrangements; supervises student workers; runs office in absence of director on trips; secretarial duties (articulate and ability to work under pressure; some college preferred, with four or five years' secretarial experience; familiarity with University) \$7,975-\$10,150.

Clerk, Accounts Payable (2669) manually prepares selected accounts payable checks; audits incoming requests for disbursements (high school graduate; light

typing skills; aptitude for figure work; prior university experience) \$7,425-\$9,450.

Coordinating Assistant II (2662) implements internal policies pertaining to student affairs; maintains and reviews records for status of students in degree programs; handles registration for master's, doctoral students and doctoral foreign language examinations (excellent typing; good managerial skills; eye for detail; concern for students) \$10,000-\$12,725.

Custodian (two positions) is responsible for variety of cleaning and moving tasks; reports improper activity by building occupants; maintains surveillance; furnishes information to visitors; locks and unlocks spaces for authorized persons (experience with floor cleaning equipment or general housekeeping experience) Union wages.

Data Control Clerk (three positions) (B0067) assists in periodic training of coders; monitors performance and hours of staff; reviews completed codings; indexes and files forms; maintains data archives and updates documentation; types reports (typing and organizational skills; knowledge of general research procedures; B.A. or B.S. in social sciences); (2658) establishes and maintains controls and schedules for the receipt and distribution of all source documents and input/output data; maintains quality controls for input preparation, screening and auditing of data (H.S. graduate; training in office skills and computer operations) (2672) sets up, distributes and maintains accounts; arranges meetings; general office responsibilities (two years' experience in computer operations; experience dealing with people) \$7,975-\$10,150.

Delivery Clerk (2676) delivers and collects mail; schedules errands; operates photocopier (Pennsylvania driver's license; H.S. graduate) \$5,500-\$7,000.

Duplicating Machine Operator I (two positions) operates duplicating machines (H.S. graduate; experience in duplicating processes) \$5,500-\$7,000.

Editor, Office Automation (two positions) (2629) operates IBM 6 system 6 word processor, maintains files, keeps up to date log of work produced, orders supplies for system, assists in training back-up operator (experience with computer-based word processing systems, highly developed typing skills, ability to work with mathematical symbols and Greek characters) (b) enters and edits text; produces final copy; uses computer based word processing system (highly developed typing skills; experience with computer-based word processing systems) \$7,975-\$10,150.

Electron Microscope Technician II (A913) processes a variety of granocological and reproductive tissues; performs routine electron microscopic duties; prepares photographic projection prints (B.S. in biology, one year of experience as an electron microscope technician) \$9,650-\$12,225.

Groom (2706) is responsible for daily maintenance of assigned wards/stables for large animal patients; maintains diet program; assists in patient treatment (experience in care and handling of large animals; physically able to move about actively and lift considerable weight; ability to work without supervision and in a 48-hour work schedule) \$5,725-\$7,325.

Herdman I (two positions) (B89) raises new-born calves; maintains isolation barn stalls; bleeds and injects for experiments; maintains good health of calves (self-motivated; ability to work independently; experience in handling cows; ability to move around and to endure irregular hours up to 54-hour work schedule); (B90) takes care of cattle involved in radioisotope experiments; collects and processes blood, urine, milk, fecal and feed samples (experience in care and feeding of dairy cattle; aptitude for careful measurement; capable of lifting 100 lbs.) *New Bolton Center* \$5,500-\$7,025.

Hygienist, Dental (B0068) exposes and develops radiographs; prepares instruments and dental units; performs standard epidemiological assessments; performs dental hygiene services; monitors patients (graduation from accredited program in dental hygiene, licensed to practice in Pennsylvania) \$10,900-\$13,800.

Junior Accountant (2670) is responsible for month-to-month reconciliation of accounts payable subsystem to the financial accounting system (H.S. graduate with some college course work in accounting; computational skills, accuracy) \$7,975-\$10,150.

Mechanic (2664) services and maintains Best University Lock system; makes keys; opens locks without keys; changes locks; services exterior doors, panic devices, electric floor openers; repairs clocks (H.S. graduate; journeyman locksmith) Union wages.

MCST Operator (2482) transcribes correspondence, (excellent typing, spelling, grammatical skills, expe-

rience in a word processing environment) \$7,425-\$9,450.

Office Automation Operator operates word processing equipment on computer-based system using remote control terminal; prepares drafts (highly developed typing skills, experience with standard and electric typewriters) \$6,875-\$8,750.

Personnel Data Coordinator (2626) assists University hiring officers in following affirmative action guidelines by coordinating and evaluating application and selection forms in the employment process (high school graduate; four years' personnel or administrative experience, or some college; ability to work well with people and detailed numerical reports; familiar with computers) \$9,275-\$11,800.

Psychology Technician I (B32) assists in interviewing psychiatric patients, keeps record of ongoing clinical studies, assists patients with self-rating scales (B.A. in psychology or equivalent experience) \$9,650-\$12,225. *Department will be considering applications in late December.*

Laboratory Course Preparator (2640) prepares organs and dissected parts for class and museum display; maintains anatomical museum, cadavers, preparation rooms; orders supplies; instructs students for gross anatomy class (high school chemistry, physics, and biology, with further training in medical technology, comparative anatomy, and biology) \$12,350-\$15,625.

Programmer I programs applications software; writes, de-bugs, maintains and documents programs for data acquisition, reduction, display and instrument control to run on mini/micro computers (proficiency in DEC RT-11 Macro; familiarity with Fortran; working knowledge of TTL devices and associated design techniques; desire to learn hardware design, troubleshooting procedures) \$9,275-\$11,800.

Receptionist (B0071) answers phones; makes patient appointments; accepts fee payments; reviews insurance forms; types correspondence (H.S. graduate; experience in dental office) \$5,900-\$7,525.

Research Laboratory Technician I (two positions) (A971) sets up experiments, records data for small animals, assists in therapy sessions acting as an in-chamber patient assistant (B.A. in science and knowledge of hyperbaric medicine procedures preferred, one year laboratory aide experience); (A750) isolates and characterizes bacterial mutants; maintains stocks; bacterial genetic techniques; some enzyme analysis (bachelor's degree or medical training) \$7,575-\$9,600.

Research Laboratory Technician II (868) performs blood analysis for carbon monoxide, blood gas and pH measurements, routine laboratory duties (B.S., experience in research setting, basic chemical skills; \$8,575-\$10,850).

Research Laboratory Technician III (eight positions) \$9,650-\$12,225. For more information, see campus bulletin boards.

Research Machinist I (B28) operates all standard metal working machine tools, fabricates, modifies, repairs, and assembles experimental apparatus (completion of four-year apprenticeship or equivalent experience, knowledge of shop mathematics and the working properties of all metals, alloys, and synthetic materials); \$9,525-\$12,200.

Secretary II (19 positions) \$6,875-\$8,750.

Secretary III (18 positions) \$7,425-\$9,450.

Secretary Medical/Technical (seven positions) \$7,975-\$10,150.

Secretary/Technician, Word Processing (two positions) (B0077) operates CRT equipment to produce scientific grant applications and manuscripts; some transcription of letters from dictating equipment (excellent typing, spelling, word processing experience); (2680) does typing, dictation, transcribing (H.S. graduate; some knowledge of Lexitron equipment helpful) \$7,975-\$10,150.

Stack Attendant (2692) shelves or stores library materials in accordance with appropriate classification system; maintains order of materials by shelf classification number, file scheme, or special system; substitutes for circulation desk clerks and exit attendants as required; provides directional information/assistance in locating materials; serves occasionally as messenger to campus and off-campus points *Union wages.*

Technician I (B92) assists in radioisotope experiments in cattle; processes samples for chemical and radiochemical assays; prepares bone samples for histomorphometric analysis (B.S., M.T. or equivalent in physiological sciences; experience in physiology or pathology laboratory; aptitude for orthopedic laboratory techniques) \$7,575-\$9,600.

Bits and Silicon Chips

Professor Harvey Garner helps compile the history of the electronic computer

A third of a century has passed since the world's first large-scale digital electronic computer, ENIAC, was completed here at the University of Pennsylvania. A new generation of students is now arriving at the Moore School of Electrical Engineering in the School of Engineering and Applied Sciences. Many have had computer programming or computer literacy courses in high school or junior high, but most know virtually nothing about the origin of our silicon-chip society.

To Harvey Garner, professor of computer information science, the history of the computer has become a tale worth preserving. "If we are ever going to get the stories of the pioneers of the computer age," Garner said recently, "we are going to have to get them in the next ten years or so. Otherwise they will be lost forever."

Garner has been appointed one of four representatives of the American Federation of Information Processing Societies (AFIPS) to sit on the board of trustees of the Charles Babbage Institute, founded in 1977.

The Institute was named for the irascible English genius who is referred to by computer aficionados as "the father of the computer." Babbage designed and supervised the building of a series of increasingly complicated mechanical calculators in the early 1800s.

Garner's appointment is something of a landmark in the efforts of the Institute. "This is the first time we have had broad support from the industry and from AFIPS for a project to preserve the history of the computer," Garner said.

In addition to endorsing negotiations with the Charles Babbage Institute, AFIPS has established a history of computing committee, to which Garner has been appointed.

In his dual role Garner will be, according to an AFIPS spokesman, "in a position to provide a synergistic approach to the activities of that (history of computing) committee while simultaneously contributing to the development of the newly created (Charles Babbage) Institute."

"Personally, I tend to view the history of the computer from a technical point of view," said Garner, whose research interests include computer arithmetic and computer architecture. (Computer architecture is "that part of the computer of which the programmer remains unaware.")

Garner is quick to point out that in his view the business, management, and entrepreneurial perspectives are just as interesting as the technical ones. He notes that several historians have also been included in the project.

In 1978 Garner toured China, learning firsthand about the state of Chinese compu-



Tea for Two

Education study finds that most students prefer monogamy

Monogamy is not dead and, in fact, it is preferred by most students who responded to a questionnaire at the University.

In an attitude questionnaire designed to measure feminism and religiosity, Professor Andrew R. Baggaley of the Graduate School of Education, said that "even non-Christians who might consider themselves big city sophisticates believe in monogamy."

Baggaley's survey involved 100 students on the Penn campus. Seventy-seven percent of the respondents were females. All were undergraduates.

Baggaley concluded from his survey that these students are "strongly in favor of more legal rights for women and moderately in favor of less differentiated sex roles." Further, he said, "they have mixed feelings about perceptions of male chauvinism and they still value traditional monogamous marital arrangements."

The questionnaire focused on attitudes in four areas: legal rights, alteration of monogamy, role dedifferentiation and male chauvinism. A separate section of questions measured religiosity.

The more religious students opposed feminism, according to Baggaley. Further, the more religious students were more in favor of monogamy and role differentiation. However, the professor pointed out that religiosity had very little to do with legal rights and male chauvinism, according to survey results.

On the questions regarding alteration of monogamy, Baggaley said students who would score high in this area believe that

ter technology, and writing about it for the Institute of Electrical and Electronic Engineers (IEEE), of which he is a senior member.

From 1970 to 1976 he was director of the Moore School of Electrical Engineering, where he is now involved with the development of graduate programs, as well as research and teaching.

While at the University of Michigan Garner served as acting chairman of the department of communications sciences from 1965-1967, director of the systems engineering laboratory from 1965-1966, and director of the information systems laboratory from 1960-1964.

He received his B.S. in physics in 1949 and his M.S. in physics in 1951 from the University of Denver. He earned his Ph.D. in electrical engineering from the University of Michigan in 1958.

—Max Lebow

"husband and wife should be able to enjoy sex relations outside the marriage, that marriage vows should be changed to read 'As long as you both shall love,' and that marriage is *not* a sacred institution involving ultimate values."

On role dedifferentiation, Baggaley explains that people scoring high in this area, "want father and mother to share equally in caring for infants and small children, do not want fathers to be clearly 'masculine' and mothers clearly 'feminine'."

In the area of legal rights, where Baggaley said religiosity does not play as great a role as in other areas on the survey, a high score indicated that the individual "would like to see about an equal number of men and women in high-level employment, is in favor of governmental child care centers and believes that employers do *not* have a right to know the marital and family status of job applicants."

Baggaley defined a male chauvinist as someone who "believes that men have always treated women as the inferior sex, that men are more likely to relate to women as sex objects than as coequal persons and that most of the frustrations experienced by women stem from the need of men to keep them subjugated."

The respondents on the questionnaire were drawn from students in nursing, education and marketing classes at the University of Pennsylvania. Virtually all students were white, according to Baggaley, and under 25 years old.

—Robert Mitchell