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Almanac



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Examining the Image of 'Superhumans'

Annenberg School conferees take a serious look at the media's portrayal of doctors and lawyers



Bruce Rosenblum

John Houseman—better known as the imperious Professor Kingsfield to the millions who have seen him in *The Paper Chase*—makes a point in the Annenberg School lobby last week. Taking note are Heather Harr-Mazer and Michael Morgan, two Ph.D. candidates in the communications program.

Marcus Welby rarely lost a patient or failed to diagnose a disease. But the average doctor is not as fortunate.

Perry Mason seldom lost a case for his clients. But the average lawyer is usually less successful.

How can these superheroes—doctors and lawyers—be made more human?

For two days last week, more than 320 doctors, lawyers, and members of the media considered this question and proposed a number of recommendations for action at the close of the conference, sponsored by the Annenberg School of Communications.

In seven panel discussions and two general sessions, those attending the conference heard more than 40 experts in the three areas give their views on how to combat the superhero image that often leads to disillusionment in real life.

Hollywood producer David Victor, who has helped to shape public views of doctors and lawyers over the last 20 years, addressed an opening luncheon with insights into his production of such series as *Dr. Kildare*, *Marcus Welby M.D.*, and *Owen Marshall—Counselor at Law*.

Public belief in Marcus Welby as a real doctor was so strong, Victor said, that Welby received mail from patients looking to him for medical help.

John Houseman, the lovable but gruff Professor Kingsfield in the movie and television series *The Paper Chase*, entertained an evening banquet last Thursday with observations culled from a career that has bridged theater, radio, television, and the movies.

Houseman, who along with Orson Welles was responsible for the infamous airing of H.G. Wells' *War of the Worlds*, told the audience that television has made another *War of the Worlds* impossible.

"Radio made that broadcast what it was," he said. "With television, it never would have been."

Houseman's award-winning TV series, which was cancelled by CBS in what Houseman called "a growing concern across society with numbers," has been purchased by the Public Broadcasting System and will be aired on its member stations.

In group sessions on Friday, the professionals made recommendations for action to

eliminate some of the superhero images.

The recommendations include:

- More adequate personal communication between doctors and their patients, and lawyers and their clients, so that the patients and clients are aware that the professionals possess no superhuman powers.
- An emphasis on the patients' and clients' right to know enough about any situation so that they are able to make important but complicated decisions for themselves.
- An effort on the part of the media to probe beyond self-serving press releases to find out about the current state-of-the-art in the fields of medicine and law.
- An effort on the part of the media to overcome the pressure of ratings and circulation figures so they can provide a more accurate picture of the professions.
- Media support for programs designed to disseminate medical and legal information to the public.

The papers presented at the conference and the recommendations from the conference participants will be published as a book.

—Sue Kinard

The 'Pennsylvania Culture'

A professor who has been at Pennsylvania for many years recently leaned across a table at the Faculty Club and, in a firm voice that reflected genuine concern, reminded me that "the University is a very complex institution; there are many nuances to its culture."

This happened during a conversation, the major thrust of which was that I had not yet come to appreciate all those nuances. Indeed, the unmistakable implication was that, in attempting to change *Almanac* I had managed to violate an assortment of unwritten University codes. Some of Pennsylvania's venerable traditions had been treated indelicately at my hands, he felt.

The professor was of course right. The subtleties of life at an Ivy League institution are not readily discernible to a newcomer, particularly a newcomer educated at institutions quite unlike Penn.

Slowly, however, I am beginning to take note of the ways in which this University operates. Slowly, too, I am beginning to meet the personalities who help it to operate. I am eager to know more about how decisions are made here and about who is instrumental in the decision-making processes.

But that will take time. Penn cannot be taught in the way that, say, simple arithmetic can be taught. I am hopeful that members of the University community will continue to share with me their helpful perceptions of Penn's past as well as their insights into the University's future.

Meanwhile, the good news in the *Almanac* office is that, by week's end, we will be fully staffed for the first time this academic year. (You may note that in the huge-sigh-of-relief department.) This means that the publication will now be able to improve its coverage of campus news—or so we hope.

Our new staffers are highly talented; both come to their positions with sterling recommendations from those who have worked alongside them in the past.

C. Anne Vitullo, our assistant editor, arrived in Philadelphia several days ago from her home in Syracuse, N.Y., where since March of last year she has served as editor of *Syracuse University Alumni News*. That was a rather lofty title for someone who was graduated (albeit with honors) from Cornell University's communications program as recently as 1977, but in the "real world" Anne proved herself quickly. Said one professional journalist who knows her: "She's a five-star person. Hire her." We did, and we are confident she will help us in numerous ways. Anne's interest in magazines (she was awarded a master's degree in magazine journalism from Syracuse University in 1978) was a point decidedly in her favor when we went looking for an assistant who could help us broaden the scope of *Almanac*.

Our new editorial assistant, who begins working with us tomorrow, is Elizabeth Engl, a May graduate (summa cum laude) of St. Bonaventure University. Liz, who had been a mass communication major, has written on a free-lance basis for *Knights of Columbus* publications in New York and elsewhere.

So, our team, as it were, is at last in place. We will be looking to the University for ideas, for guidance, for information. We will also be exploring the "Pennsylvania culture," which my friend in the Faculty Club began to tell me about. It is, I suspect, a rich and textured culture, one that *Almanac* plans to approach with care.

—CN

Speaking Out is a forum for readers' comments on University issues. It is conducted under the auspices of the *Almanac* Advisory Board: Robert Lewis Shavon, chair; Herbert Callen, Fred Karush, Charles Dwyer, and Walter Wales for the Faculty Senate; Curtis L. Barnes, director of communications services; Valerie Pena for the Librarians' Assembly; Shirley Hill for the Administrative Assembly; and Virginia Hill Upright for the A-3 Assembly. Copies of *Almanac's* guidelines for readers and contributors may be obtained from *Almanac's* offices, 513-515 Franklin Building.

To the Editor:

I'd like to express an opinion regarding the letters printed in the September 6 *Almanac* about kids on bikes and loud radios.

If we're going to fence in the campus and patrol them day and night, I think it should be for reasons other than the above.

For the number of neighborhood kids I've seen zooming through campus on bikes, I've seen just as many college students doing the same, including riding over the 38th Street footbridge despite the PLEASE WALK BIKES OVER FOOTBRIDGE sign. Maybe some of those neighborhood kids can't read, but I would think University students can.

The speeding student bicyclists could give us pedestrians a break if they installed bells or carried whistles so that as they silently approach us from behind at 30 m.p.h. they can warn us not to suddenly step sideways into their path.

As for the loud portable radios, at least they're "in transit," and those who can't tolerate the music only have to suffer momentarily. Student radios in campus dorms are "stationary," and for those who dislike the music and work in offices nearby, they're out of luck. Fortunately, neither of these radios situations bothers me, as I like the music.

Sue Williams

Secretary
The Wharton School

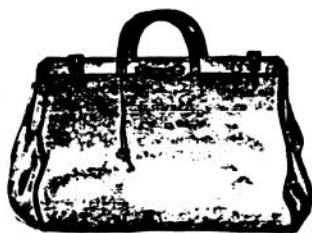
Parents Weekend

Provost Vartan Gregorian has issued the following statement concerning Parents Weekend:

Friday and Saturday, November 2 and 3, will be Parents Weekend at the University. We expect up to 1500 parents of sophomore undergraduates to be our guests on campus.

We have found over the years that, for many parents, one of Friday's high points is the experience of going to classes with their sons and daughters. The members of the faculty have always taken this friendly intrusion in good grace and have proceeded with their usual mode of teaching. I trust that they will do so again this year.

Should other opportunities arise during the weekend for us to make any of these parents feel even more welcome on campus, I know they will appreciate it.



Volume 26

This is the 11th issue of the 26th volume of *Almanac*. We make note of this because several of our recent issues were published bearing the volume number 27. Some of our readers, we know, keep track of such things and were perplexed by our error. We are equally perplexed—and happy to get back on track.

Almanac

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editorial assistant.

Elias Burstein, professor of physics, received the Franklin Institute's 1979 John Price Wetherill Medal yesterday in recognition of his outstanding contributions to the science of optical properties of solids and its application in photoconductive technology. His research has contributed to the general understanding of the interaction between solids and light. Burstein has carried out basic research in lattice dynamics, semiconductor physics, photoconductivity, magneto-optical phenomena, infrared and acoustical Raman spectroscopy.

Founded in 1925, the Wetherill Medal is awarded for discovery or invention in the physical sciences or for new and important combinations of principles or methods already known.

R.M. Showers, professor of electrical engineering presented the keynote address at the IEEE International Electromagnetic Compatibility Symposium in San Diego, Cal. two weeks ago. At the symposium he received the Richard R. Stoddart Award of the EMC Society in recognition of outstanding performance in the development of national and international standards for the control of electromagnetic interference.

Teacher, author and administrator **Timothy Tomlinson** joined the staff of the Morris Arboretum as assistant director. Tomlinson taught high school in St. Louis, Mo. for 13 years and was on the faculty of Washington University for 10 years. He then headed program development in the St. Louis schools and later ran a not-for-profit citizen education center in that city.

Tomlinson's duties at the Arboretum include overseeing its education department, working on grant proposals and program development, and managing the institution's finances.

Dr. Sankey Williams, assistant professor of medicine, was named associate director for medical affairs by the National Health Care Management Center. He has been involved in many of the center's research projects, continuing education programs, and technical assistance programs particularly those involving cost containment and service delivery management. "I'll be working to continue the close relationship between the management center and the medical school," he said of his appointment.

Arthur E. Humphrey, dean of the School of Engineering and Applied Science, received the James M. Van Lanen distinguished Service Award from the American Chemical Society for his "life long dedication and service to fermentation science and the fermentation industry."

Fermentation science, best known for its use in the production of grain alcohol, is also applied in production of antibiotics and "artificial" protein.

Humphrey's research has sought applications of fermentation science to the production of edible protein from plentiful but previously untapped raw materials.

Four Penn faculty members are part of a research team that received a \$750,000 grant from the National Heart, Lung and Blood Institute, Division of Lung Diseases (US Public Health Service, DHEW).

The research team includes **Dr. Nicholas A. Kafalides**, professor of medicine and biochemistry, **Dr. Edward J. Macarak**, assistant professor of histology, **Dr. Rob R. MacGregor**, associate professor of medicine, and **Dr. Harvey Friedman**, assistant professor of medicine.

The grant will enable the investigators to study the response of lung endothelial cells (cells lining the pulmonary arteries and other blood vessels) to infection and disease.

"It has been suggested that when the cellular lining of an artery leading to the lungs, for example, is removed or injured, there is a reaction which can lead to lung disease," Macarak said. "If we can define what causes the injuries to these cells, we may be able to understand how the damage leads to respiratory diseases. And right now, the response of these cells to injury and the implications for the development of these diseases are not well understood."

WORTH NOTING

■ The application deadline for summer fellowships (\$2,000) and grants-in-aid (not to exceed \$1,000) for 1980-81 is February 1, 1980, according to the Committee on Faculty Grants and Awards.

Preference for these awards will be given to applicants with the rank of assistant professor. In general, awards will not be given to faculty members who have received support from the committee in the past three years, and a summer fellowship will not be awarded if the applicant has other sources of salary support for that period (including income from teaching summer schools.)

Applications are available from Deborah Hardy, Office of Research Administration, 409 Franklin Building/16, Ext. 7293.

■ You can lose weight without going on a crash diet by learning to change your eating habits. And a behavior modification program at the Nutrition Counseling Center at HUP will teach you how.

Cost of the program is \$70, half of which is refunded to those participants who successfully complete the course.

Classes will meet at HUP for a 10-week period; a mutually-convenient time for all participants will be arranged.

For more detailed information, call Deb Evans, registered dietician at HUP, at 662-2726.

■ The 1979-80 edition of *Accredited Institutions of Postsecondary Education* has been published by the American Council on Education. Copies are \$12.50, plus \$1.50 per copy for postage from ACE, Publications Division, One Dupont Circle, Washington, D. C. 20036.

Energy Information Center Established

Ever wonder how you can heat your home using wood or solar energy? What a photovoltaic cell is, and how it works? The Energy and Environmental Information Service (EEIS), a joint project of the Penn Energy Club and the Penn Earth Lobby, can provide the answers to those and other questions on energy.

Energy Club coordinator Adam Levine has been collecting information on energy for three years and is willing to loan out the information in his energy "library" for up to two weeks.

"Students can use it for papers, faculty can use it to help them prepare lectures, staff can use it for information on home energy-savers," Levine said. "We think the best way to increase awareness of energy and environmental issues is to make the information readily available."

To use EEIS, simply call Levine at 382-9117. If he cannot answer your question over the phone, he will make an appointment for you to visit the "library," or, for a nominal charge, will mail the information to you.



Chaim Potok

■ An exhibition of art work by writer Chaim Potok opens Thursday, November 1 at the Science Center Gallery, 3624 Market Street.

Potok is perhaps better known for his books which include the novels *The Chosen*, *The Promise*, *My Name is Asher Lev*, *In the Beginning*, and the nonfiction work *Wanderings*. Born in New York City, Potok graduated from Yeshiva University in 1950. He earned a Ph.D. in philosophy from Penn in 1965.

Potok will be present at the opening reception and lecture on November 1 from 4 to 6 p.m. The exhibition continues through November 30.

Edison Anniversary Marked

Preserved almost by chance, a collection of antique light bulbs, some dating back to the 1880s will go on display Monday, to mark the 100th anniversary of the operation of the first successful electric light bulb by Thomas Edison on October 21, 1879.

The exhibit, on display in the lobby of the Rittenhouse Laboratories, was conceived and assembled by James I. Hobbs, building administrator at Rittenhouse Labs. It is composed of about 20 bulbs, most from the collection of the first chairman of Penn's physics department, Dr. Barker.

Discovered shortly after Hobbs arrived at the University in the late '50s or early '60s, the collection was stored for nearly ten years above an air duct in the room where demonstrations of physical phenomena are constructed and stored.

Among the collection, a small bulb which bears the label "EDISON PATENT," is strikingly similar to the drawing included with Edison's 1880 patent application. Its element is held in place by tiny set screws, so that it can be removed when it burns out. The bulb has a tip protruding from the top, through which the air was drawn from the bulb to form the vacuum.

Hobbs has been, in his words, "fooling around with glassblowing for years." Thus he can point out stages in the development of electric illumination from one bulb to the next.

"Here you can see," he said, "that they didn't know how to anneal the bulbs yet. Look at the pockmarks on the surface of the bulb."

Other indications of the development include the kind of base attached to the glass bulb, and the method of holding the filament in place.

Some of the bulbs have hand written numbers inside the glass, others have hand written labels attached to the outside of the glass. Later bulbs have printed labels which bear the names of Edison, or Mazda, or Peerless.

Fellowship Nominations Due November 1

Nominations for the American Council on Education's annual internships in academic administration should be submitted to executive assistant to the provost Joyce M. Randolph, 104 College Hall, by November 1.

The purpose of the fellowships program is to give able faculty and administrators who show promise of a future in academic administration, the opportunity to spend a year in administration either at their home university or at a host institution.

Nominees should have a minimum of five years of university teaching or administrative experience. The program is competitive and the university is invited to nominate two candidates.

The Green Pages

This year's color is green. According to Susan Jarrett, the University communications analyst, the 1979-80 telephone directory departs from previous directories mainly in the expanded, and thus more informative, green pages.

Jarrett, who said copies of the directory will be distributed around campus this week, urges that special attention be paid to the following sections of the green pages:

TWX/TELEX services (page x), mailing guide (pages ix-x), telecommunications glossary (page x), conference calls (page iii), and emergency and service calls (inside front cover).

Jarrett reminds members of the University community that 50 WATS lines are available to centrex users. The service offers a savings on direct-dial toll calls.

Trustees Meeting

The fall stated meeting of the Corporation is scheduled for 2 p.m. tomorrow in the Council Room of Furness Building. The major item on the agenda is the naming of three emeritus trustees.

Today the trustees and some University administrators are meeting on campus in assorted committees.

The stated meeting is open to the public as space permits.

ON CAMPUS

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

Thursday, October 25

Arboretum Events: Morris Arboretum hosts its *Associates Evening* at 8 p.m. at the Woodmere Art Gallery, 9201 Germantown Avenue. Call 247-5777 for information.

Blood Drive: The University Hospital sponsors a blood drive in Vance Hall from 11 a.m. to 5:30 p.m.

Coffee Hours: The Modern Language College House hosts two coffee and conversation hours for students of Italian and German at 4 p.m., Class of 1925 House.

Lectures: The Arts College House sponsors a slide show and discussion by Professor Irwin Hauer of Yale University on his sculpture at 9 p.m. in the upper lobby, Harnwell House. Call Ext. 5258 for information.

The English department features Professor Margaret Doody of the University of California, Berkeley on *Women, Wit, and Late 18th Century Theater: Fanny Burney's Suppressed Comedy* at 3 p.m. in Room 109, Chemistry Building.

Movies: Ray's *The Middleman* and Sander's *The All-Around Reduced Personality* are offered by the International Cinema Series at the International House at 7:30 and 9:45 p.m.

Seminars: Connaissance and the Penn Political Union present the SANE Education Fund in a *SANE Symposium on the Nuclear Threat* at 7:30 p.m., Fine Arts. Admission Free.

Ms. Kay Winters of the Upper Darby School System leads the discussion on *Feminist Issues in Places of Study and Work* at this week's Brown Bag Lunch Seminar at noon, University Lutheran Church, 37th and Chestnut Streets.

Workshops: The A-3 Assembly sponsors a workshop on *The A-3 Student* from noon to 1 p.m. in the Harrison Smith Penniman Room, second floor, Houston Hall.

Morris Arboretum sponsors a one-day class on

Houseplant Propagation at 10 a.m. (members \$7, non-members \$10).

Friday, October 26

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 1925 House.

Exhibit: The Dutch Studies Program and the Bryn Mawr College Library open an exhibition illustrating the life and culture of 16th and 17th century Holland at 8 p.m., Class of 1912 Rare Book Room, Mariam Coffin Canady Library, Bryn Mawr College.

Lecture: The department of regional science features Professor Ottar Brox of the University of Tromsø, Norway on *Recent Trends in the Development of Scandinavian Settlement Patterns: Are Urban Deconcentration and Rural Reconsolidation Generated by the Same Process?* at 2 p.m. in Room 169, McNeil.

Movies: Ray's *The Middleman* is shown at 4 p.m. and 9:30 p.m. and Sander's *The All-Around Reduced Personality* at 7:30 p.m. at the International House. Admission is \$1.50 and \$1 for matinees.

Sports: Penn competes in the IC4A meet in men's cross country in New York; Penn plays Millersville in freshman football at 3 p.m. at Millersville; a session of the Penn figure skating group is held at the Class of '23 Ice Rink from 4 to 6 p.m. All students, faculty, and staff are invited to attend.

Theater: The Annenberg Associates and the General Alumni Society host a dessert party for alumni and members of the Goodman Theater Company of Chicago. Call Ext. 7811 for information.

Saturday, October 27

Sports: Penn meets Yale in football at 1:30 at Yale; Penn meets Navy in lightweight football at 2 p.m. at Navy; Penn plays in the West Chester Regionals for women's

cross country at 11 a.m. at West Chester; Penn faces off against Yale in women's field hockey at Yale; Penn takes on Yale in men's soccer at 11 a.m. at Yale; Penn plays Kutztown and Messiah in women's volleyball at 2 p.m. in Weightman Hall; Penn competes in sailing in the Area Dinghy Eliminations Area #3 at Penn's Landing and the Women's Monosloop Championships at Princeton; Penn meets Cornell in women's tennis at 2 p.m. at Cornell.

Workshop: Morris Arboretum holds a one-day pruning clinic from 10 a.m. to noon (members \$7, non-members \$10).

Sunday, October 28

Movie: The University Museum Film Series offers *I Know Where I'm Going* at 2:30 p.m. in the Harrison Auditorium, University Museum. Admission free.

Seminar: Ms. Paula Kadel, Coordinator for Promotion and Interpretation, ICA, leads this week's forum on *Communication Within the Church and Without* at 6 p.m., University Lutheran Church. Call 387-2885 for information.

Monday, October 29

Lecture: The chemical and biochemical engineering department features Professor Ephraim Kehat of Technion, Israel on *The Dead Sea Resources from an R and D point of View* at 3:30 p.m. in Alumni Hall, Towne Building.

Tuesday, October 30

Blood Drive: The University Hospital sponsors a blood drive in High Rise South from 1-7 p.m.

Lectures: The geology department presents Dr. Edward F. Glynn of the civil engineering department on *Risk Analysis for Rock Slopes* at 4 p.m. in Room 104, Hayden Hall.

The psychology department features Dr. Joseph Glick of the City University of New York at 4:45 in Room B-21, Stiteler Hall.

Dr. Willits Dies

Headed Wharton, 1933-39

Dr. Joseph Henry Willits, former dean of the University's Wharton School, died October 7 in Portland, Maine. He was 90.

Willits had a long career in business education, economic research, and government service. While completing his Ph.D. at the University he was appointed by the mayor of Philadelphia to study unemployment in the city. He served as president of the National Bureau of Economic Research in 1930 and as executive director in 1936.

Dr. Willits received his B.A. and M.A. degrees from Swarthmore College and his Ph.D. from Penn. Later he was awarded LL.D. degrees from both institutions. He served as lecturer and assistant professor in industry and geography in the Wharton School and became professor in 1920. He was dean from 1933 to 1939.

After leaving Wharton in 1939, Dr. Willits became the director of social sciences for the Rockefeller Foundation. He was also made a member of the American Philosophical Society.

Later he turned to educational research. In 1954 he conducted a survey of the educational goals and attainments of the University of Pennsylvania. He suggested

that the school place emphasis "upon learning rather than teaching. Modern society cannot operate without more and better specialists all the time," he wrote. "But this splitting apart of the disciplines was purchased at a price and that price was a sense of unity of all knowledge and, thereon, a sense of perspective. Indeed the two great causes of lack of perspective in our day are specialization and immediacy. The one narrows the range of our thought and the other gives us no time for reflection."

Dr. Willits is survived by his second wife Therese, his son, Dr. Robin Willits, and six grandchildren.

□

Professor Walter B. Jones, retired professor of education died October 15 at his home in Lansdowne. He was 86.

Jones was graduated from the Carnegie Institute of Technology, majoring in industrial education. He received his M.A. degree at the University of Pittsburgh and his doctorate at Columbia University in psychology and education.

He joined the faculty as an assistant professor in 1938. He later became a professor and director of vocational education and spent three years abroad on leave as a vocational education consultant. He retired from the university as professor emeritus of education in 1963.

During his retirement, Jones wrote four books; *Education for Work*, *Manu-Mental Wizardry*, *Tree Tops* and *Thrice-Told Tales*.

He was a member of Phi Delta Kappa, Delta Phi and Phi Kappa fraternities and was a Mason and a Shriner. Jones is survived by a son, W. Benton Jones, Jr., and four grandchildren. Contributions may be made to the Memorial Fund of the First Presbyterian Church, Lansdowne, Pa.

Dr. Lauren Howe Smith, a nationally prominent psychiatrist associated with the Institute of Pennsylvania Hospital for more than 50 years, died October 14. He was 78.

A graduate of the State University of Iowa, he also earned his M.D. degree from that university in 1925. He began his residency at the Institute of Pennsylvania Hospital in 1926 and was named executive director of the institute in 1931. In 1938, Smith was appointed physician-in-chief and administrator of the institute, a position he held for 24 years.

In addition to his position with the institute, Smith served as chairman of the neurology and psychiatry departments at Penn's Graduate School of Medicine. He was also a professor emeritus of psychiatry at the medical school.

He is survived by his wife, Mary Frances Smith, two sons, Robert Lauren and Richard Ralph; and nine grandchildren.

Seminar: The physical therapy department sponsors Professor Carol Oatis on the *Use of Mathematical Modeling in Human Motion Research* at 11 a.m. in Room 212, Nursing Education Building.

Sports: Penn faces off against Temple in women's field hockey at 3 p.m. at Temple; Penn meets Paterson and Ursinus in women's volleyball at 7 p.m. at Paterson.

Theater: The Annenberg Center presents The Warsaw Mime Theater of the Warsaw Chamber Opera at 8 p.m. in the Zellerbach Theater. Call Ext. 6791 for information.

Wednesday, October 31

Movies: Exploratory Cinema offers Lorentz's *The River*, Flaherty's *The Land*, and Van Dyke's *Valley Town* at 7 and 9:30 p.m. in Annenberg's Studio Theater. Admission is \$1 for students with I.D. cards and \$2 for others.

Meszaros' *Women* and Leto's *Black Holiday* are shown by the International Cinema Series at the International House at 7:30 and 9:30 p.m. Admission is \$1.50.

The Curtis Organ Restoration Society presents the original *The Phantom of the Opera* with musical accompaniment on the Curtis Organ at 8 and 10 p.m. in Irvine Auditorium.

Museum Tours: The University Museum offers a special tour in honor of Halloween at 1 p.m. Call Ext. 4025 for information.

Thursday, November 1

Blood Drive: The University Hospital sponsors a blood drive from 11 a.m. to 5:30 p.m. in the Veterinary School.

Coffee Hours: The Modern Language College House hosts coffee and conversation hours for students of Italian and German at 4 p.m., Class of 1925 House.

Lectures: The microbiology department features Dr. Nancy Kleckner of Harvard University on *Translocatable Drug Resistance Elements in Prokaryotes* at 11:30 a.m. in Room 153-64 Mezzanine, Medical School.

The Women's Faculty Club presents Professor Emily Mudd of the family studies department and Dr. Sara Taubin of Drexel University on *What is Success in Family Living and Does it Last?* at noon in Room 152 of the Veterinary School.

Movies: Leto's *Black Holiday* and Orzu's *Record of a Tenement Gentleman* are shown in the International Cinema Series at 7:30 and 9:30 p.m. in the International House. Admission is \$1.50.

Seminar: Dr. Leonard Swidler of Temple University leads the discussion on *Responding to the Visit of Pope John Paul II* at this week's Brown Bag Lunch Seminar at noon, University Lutheran Church, 37th and Chestnut Streets.

Friday, November 2

Alumni Events: The General Alumni Society sponsors a seminar on *Investments* featuring George W. Connell and Ted Aronson from 10 a.m. to 2 p.m. in Vance Hall.

The Engineering Alumni Society invites all alumni to its Annual Dinner Meeting at 6 p.m. in the University Museum. Call Ext. 6564 for information.

The Alumni Soccer Club hosts its Homecoming Reception and Dinner in Weightman Hall at 6 p.m. Call Ext. 7811 for information.

Coffee Hours: The Modern Language College House holds coffee and conversation hours for students of French, Spanish, and Russian at 4 p.m., Class of 1925 House.

Movies: Meszaros' *Women* is shown at 4 and 9:30 p.m. and Orzu's *Record of a Tenement Gentleman* at 7:30 p.m. in the International House. Admission is \$1.50 and \$1 for matinees.

Sports: Penn plays Princeton in men's soccer at 8:30 p.m. on Franklin Field; Penn competes in the HEPS meet in men's cross country at Lehigh; Penn plays in the Ivy Championships for women's volleyball at Brown through Saturday; the last session of the Penn figure skating group meets today at 4 p.m. at the Class of '23 Ice Rink.

Saturday, November 3

Alumni Events: The Graduate School of Education sponsors Educators Day at 8:30 a.m. in the International House. Call Ext. 7811 for information.

Lecture: The Folklife Center of the International House features the second in a series of five lectures entitled *Making Music Together: An Introduction to Improvisational Music* at 8 p.m. in the International House. Jazz will be discussed by Professor John Szwed and performed by Anthony Davis. Admission is \$1.50 for house members and \$2 for others.

Sports: Penn meets Princeton in football at 1:30 on Franklin Field; Penn plays Princeton in freshman football at 10 a.m. on Franklin Field; Penn takes on Rutgers in lightweight football at 1:30 p.m. at Rutgers; Penn competes in sailing in the MAISA Monosloop Championships at Kings Point and the Women's Dinghy Championships at Navy.

Sunday, November 4

Movie: The University Museum Film Series offers *Old Treasures From New China* at 2:30 p.m. in the Harrison Auditorium, University Museum.

Events Upcoming

Almanac would like to publish during the first week of spring semester a complete schedule of all colloquia and major lectures which will be occurring during the semester. The objective is to help members of the University community plan ahead. If your school or department has a series or major event slated for next semester, we would like to hear about it. Please have the details to us by December 6.

The following listings are condensed from the personnel office's bulletin of October 18. 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 prepares journal entries, subsidiary ledgers, financial statements, and reports. (B.A. in accounting, computational skills) \$10,375-\$14,375.

Applications Programmer Analyst II consults with users of systems and programs, analyzes segments/systems for computer operations, develops system flow charts. (B.A. in computer science or experience with PL/I or Cobol, IBM 370 RCL; three years' experience in programming concepts using large operating system) \$14,850-\$20,550.

Assistant to the Associate Dean interprets department policies, collects enrollment statistics, prepares grant materials. (B.A., two years' administrative experience, good writing skills) \$10,375-\$14,375.

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

Assistant to the Comptroller helps manage payroll accounting and special line accounting interface. (B.A. in accounting) 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 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 to the Director, Annual Giving 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 to the Vice-President of Commonwealth Relations 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 (two positions) (a) 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); (b) plans and implements fund-raising for professional schools, develops and implements cultivation, solicitation and stewardship techniques for various constituencies of the schools, liaison with deans and faculty of the schools to develop fund-raising objectives. (bachelor's degree, 3-5 years experience in institutional fund-raising, public relations, or marketing) \$16,125-\$22,725.

Associate Development Officer III 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.

Associate Editor supervises institute's technical communications, edits scientific documents, procures photographic and printing services. (B.A. in English, journalism, or related field, extensive writing and editorial experience, knowledge of scholarly research writing processes) Salary to be determined.

Biostatistical Data Manager constructs and maintains computerized clinical data based on melanoma; prepares reports. (experience in computer programming, statistical software, and medical base data management) Salary to be determined.

Business Administrator establishes regular routines for budget and financial review, maintains billing system, supervises support staff, cost analysis and compilation of data for allocation and expenditures (college degree or college certification for course-work in business administration, 1 year business experience, preferably in accounting) \$10,375-\$14,375.

Comptroller 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.

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.

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 (M.A. in social work, experience in counseling, administration, women's leadership programs and assertiveness training); (b) 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.

Fiscal EDP Coordinator 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.

Junior Research Specialist (five positions) (a) assists with biochemical experiments, prepares and purifies membrane components, performs assays and binds them with radioactive material (B.S. in chemistry, biochemistry, or biology, research experience); (b) performs biochemical analyses of subcellular fractions of bacteria, researches molecular aspects of bacteria pathogenicity (M.A. in biology or chemistry, two years' experience); (c) fabricates electrodes, produces and tests microelectrodes for measuring pH, K⁺, CA²⁺, O₂, and H⁺ responsible to PI (B.S. in biophysics or biochemistry); (d) oversees all phases of research in physiological psychology laboratory, performs and directs small animal surgery, running of rats, 2-DG autoradiography, histology, and computerized image processing (B.A. or B.S. in a natural science major); (e) performs standard hematological tests. (college graduate, research laboratory experience, biochemical or hematological background) \$10,375-\$14,375.

Managing Editor screens articles for interest and style, decides what is published, handles business distribution and subscriptions, solicits advertisers and promotion media. (B.A., training in journalism, familiarity with layout and design, several years' experience with business publications) Salary to be determined.

Personnel Relations Assistant assists in the selection of job applicants and interviews for promotion within the University (B.A. in business administration, personnel administration, or liberal arts or specific work experience) \$11,250-\$15,850.

Programmer Analyst I conducts daily computer programming for projects, maintains records for ongoing studies in genetics of diabetes (B.A. in statistics, knowledge of FORTRAN) \$12,900-\$17,850.

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

Regional Director of Admissions 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 cardiversion and clinical studies) \$12,900-\$17,850.

Research Specialist I (three positions) (a) observes feeding and behavior of dogs in palatability tests, makes statistical analyses and etiological interpretation of results (Ph.D. in etiology or related field, ten years' experience in etiology); (b) prepares tissue cultures, produces cell lines and monoclonal antibodies (tissue culture and biochemistry experience); (c) designs experiments on experimental demyelinating diseases in small animals (B.A., four years' experience in biology or immunology laboratory) \$11,250-\$15,850.

Research Specialist II designs and develops electronic systems for particle physics research (knowledge of modern digital electronics, experience with minicomputers) \$12,900-\$17,850.

Research Specialist III (two positions) (a) makes cultures of blood, spinal fluid, and thymic lymphocytes and monocytes from patients with autoimmune diseases (B.A. in science geared to this position); (b) 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' in nuclear magnetic resonance spectroscopy) \$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 (three positions) (a) creates on-line data acquisitions systems for compatibility with other facilities; prepares programs for colliding beam experiments; consults on physics problems (Ph.D. in physical science, knowledge of Fortran on IBM + DEC, CDC computers and PDP II Macro and Graphics); (b) submits program applications for series 1, evaluates application programs for series 2 assembler and data base applications (B.A., experience with Fortran and IBM equipment); (c) prepares feasibility studies, systems designs, programming specification; trains user groups (B.A. in business, several years' experience in data processing and systems analyses, ability to design on-line, real-time computers) \$16,125-\$22,725.

Staff Dentist (two positions) examines, treats, and prescribes for patients, maintains records and questionnaires on patients. (graduate from a recognized dental school with certificate in appropriate field of specialty) \$28,325-\$39,950.

Staff Nurse serves as clinic coordinator and teacher, assumes CPR and emergency team duties, administers general anesthesia in oral surgery. (B.S.N., training in critical care nursing, anesthesia, and surgical nursing in oral surgery) \$10,375-\$14,375.

Support Staff

Abstractor I maintains prospect records, updates prospect files from newspaper clippings, keeps files, types cards and forms (high school graduate, at least two years clerical experience) \$6,875-\$8,750.

Accounting Supervisor handles day-to-day activity of the department, controls disbursements, income and revenues (accounting background) \$8,625-\$10,950.

Administrative Assistant I (six positions) (a) secretarial work, preparation of budgets, maintenance of financial records, personnel forms and records, handles departmental purchasing (typing skills, shorthand, familiarity with medical vocabulary, college degree desirable); (b) prepares schedules, faculty evaluations, secretarial duties (high school graduate and/or medical experience, good typing skills); (c) conducts interviews, coordinates schedules, course planning, and grant proposals (experience in office management, typing skills); (d) assists the undergraduate chairman in program planning, schedules undergraduate courses, and screens correspondence (college preferred, knowledge of the study of English preferred, good typing); (e) processes summer school enrollees, handles patient complaints, Secretary to Clinical Review Board (good typing, office

experience helpful); (f) is responsible for all budget related activities, maintains personnel records, and performs general secretarial duties (some college, three to five years' experience, familiarity with University budget system) \$7,975-\$10,150.

Administrative Assistant II (*New Bolton Center*) maintains budget and employee time sheets, buys and leases equipment, schedules farm collections (minimum two years' college, business and accounting experience, typing) \$8,625-\$10,950.

Air Conditioning and Refrigeration Mechanic maintains and repairs air conditioning and refrigeration systems, (five years' experience, educational background in air conditioning from a technical or trade school) Union wages.

Cashier (*four positions*) operates electric cash register, keeps records of cash receipts and cash transfers, (high school graduate, aptitude for detailed clerical work) Minimum wage.

Clerk I prices, stocks, and arranges merchandise, takes inventory and performs other duties in various departments, (knowledge of retail sales) Minimum wage.

Coordinating Assistant II organizes information dissemination system, assists with consultation reports and demonstration projects (B.A., research and writing experience) \$8,625-\$10,950.

Coordinator, Non-Academic Facilities handles applications for reservations, arranges special functions, types schedules, and supervises work-study students, (good typing skills, bookkeeping experience, ability to deal with the public) \$7,975-\$10,150.

Custodian handles general custodial functions, checks building on rotating night shift, (high school graduate, ability to communicate effectively with visitors and staff) Union wages.

Data Control Clerk (*two positions*) (a) organizes data for reports, maintains data files (experience in computer programming desirable, statistical data and research design); (b) prepares data and quality controls, screens/audits data processing reports, develops improvements to data preparation, maintains controls and schedules for receipt and distribution of source documents and input/output data (high school graduate, two years' experience in computer operations) \$7,975-\$10,150.

Duplicating Machine Operator I operates mimeograph and paper folder puncher binder; maintains files and supplies inventory, (high school graduate with six to twelve months' experience in operating duplicating machines) \$5,500-\$7,000.

Duplicating Machine Operator II operates duplicating machines, performs all maintenance on machines, orders supplies and equipment (high school graduate preferred, knowledge of the operation of duplicating machines) \$7,425-\$9,450.

Electronic Technician Trainee learns to design, assemble, test and troubleshoot modern digital electronic circuits, (mechanical aptitude, high school or vocational school, preferably with courses in electronics) \$6,700-\$8,450.

Electron Microscopy Technician II (*two positions*) (a) embeds tissues for thin sectioning examination, develops EM negatives, prints, and micrographs; dissects animals, prepares chemical solutions (B.S. in biology or chemistry, experience in EM laboratory); (b) processes a variety of granulocytic and reproductive tissues, performs routine electron microscopic duties, and prepares photographic projection prints (B.S. in biology, one year of experience as an electron microscope technician) \$9,650-\$12,225.

Gardener performs general gardening throughout campus, (training or past experience in landscaping, operation of normal routine equipment) Union wages.

Herdman II (*position available for twelve months*) conducts evaluation of dairy cattle, observes health of animals, feeds and cares for calves, and performs other tasks, (course work in the sciences, experience in handling dairy cattle, interest in veterinary medicine) \$6,275-\$8,025.

Mail Carrier sorts, bundles, and delivers mail to campus buildings; operates postage machines, (knowledge of postal rates, experience) Union scale.

MCST Operator transcribes correspondence, types, operates various magnetic memory media, (excellent typing, spelling, grammatical skills, experience 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 power typewriters) \$6,875-\$8,750.

Programmer I programs applications software; writes, maintains, and documents programs for data acquisition, reduction, display, and instrument control on mini/micro computers, (knowledge of DEC RT11 Macro, Fortran and TTL devices) \$9,275-\$11,800.

Project Budget Assistant (*three positions*) (a) prepares monthly commitment and expenditure reports; assists with the preparation of budgets and types varied materials (knowledge of University accounting system desirable, bookkeeping experience); (b) - *New Bolton Center*) assists business administrator in completing data and grant proposals, budgets, records, and expenditures; keeps summary sheets (some college or business school, good typing, and bookkeeping skills, knowledge of University procedures); (c) processes requisitions and time reports, prepares journal vouchers, proposals and staff budgets (bookkeeping, typing, knowledge of University accounting system desirable), \$7,975-\$10,150.

Receptionist works closely with the director on a variety of matters, handles a variety of administrative and informational responsibilities, (good telephone manner, must type 50 w.p.m.) \$5,900-\$7,525.

Receptionist Medical/Dental (*four positions*) (a) keeps patients' records and bills, schedules appointments, completes insurance forms, (high school graduate, two years' experience, preferably in a dental office); (b) types from notes, manuscripts, and tapes, locates doctors by page, (high school graduate, good typing, experience in medical office); (c) greets visitors, admits patients to appropriate medical office, works with accounts receivable and related business machines (high school graduate, knowledge of accounts receivable's functions); (d) registers patients into clinics (high school graduate, works well with people) \$6,875-\$8,750.

Recorder handles general office functions, distributes information, assists with orientation, posts grades on transcripts, other projects related to grading system, (two years' college, two years' experience in similar office, typing, dictaphone, organizational ability) \$7,425-\$9,450.

Research Laboratory Technician I (*four positions*) (a) isolates and characterizes bacterial mutants, maintains stocks, performs bacterial genetic techniques and enzyme analyses (B.A. or medical training); (b) 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); (c) - *New Bolton Center*) performs isolation of glucose for radiochemical assays; assists in experiments with animals; processes blood samples (three years' experience, ability to care for and handle animals); (d) maintains lab, purifies proteins, column chromatography, gel electrophoresis, enzyme assays (chemistry through organic required) \$7,575-\$9,600.

Research Laboratory Technician II (*six positions*) (a) performs radioimmunoassay of thyroid hormones; general laboratory work (B.S. in biology or chemistry preferred); (b) performs routine laboratory work; orders supplies; injects animals and removes tissue (B.S. in the sciences required, laboratory experience); (c) grows virus in tissue culture, conducts serological tests including neutralization, CF, immunodiffusion and RIA, conducts *in vitro* lymphoblast transformation and cell-mediated cytotoxicity assays (B.A. in biology or physical sciences, ability to work with laboratory animals and knowledge of infectious agents); (d) performs blood and analysis for carbon monoxide, blood gas and pH measurements, routine laboratory duties (B.S., experience in research setting, basic chemical skills); (e) prepares and maintains lymphocyte cultures, assay of lymphocyte cultures for cytotoxicity and blastogenesis, lymphocyte separation, cell freezing (B.A. or B.S. in biology, microbiology or related field, one year direct laboratory research experience); (f) assists in research on the biosynthesis of phospholipids in bacteria, preparation of media, culturing bacteria, isolation of lipids, gas-liquid chromatography, thin-layer chromatography (B.A., courses in organic chemistry) \$8,575-\$10,850.

Research Laboratory Technician III (*10 positions*) (a) fabricates microelectrode and animal experiments with tissue measurements (B.A./B.S., prior experience preferred); (b) prepares *in vitro* and *in vivo* studies and gastric analyses; uses dynographs, recorders, transducers; draws blood for samples (B.A. in life sciences, one year's experience with patients); (c) prepares and uses

tissue cultures, reagents and radioisotopes (B.S. in biology; sterile technique, tissue culture and hematology experience); (d) performs immunofluorescent and cytotoxic studies of cultured peripheral and central nervous system cells, makes studies of cell-mediated immunity to isolate nervous system cells (academic background specifically directed to this specialty, laboratory experience essential); (e) produces radio-pharmaceuticals labeled with short-lived isotopes (B.S. in chemistry, chemical engineering, physics, or biochemistry); (f) prepares sterile media, enzyme assays, radioisotopes, enzyme purification (experience with tissue culture and general laboratory techniques, particularly sterile techniques); (g) carries out acute animal experiments, physiological monitoring using polygraph equipment, prepares brains for autoradiography, maintains laboratory (biological science background including physiology, experience in a biological laboratory, interest in animal research); (h) handles radioactive materials, uses atomic absorption spectrometer, and x-ray fluorescence, high pressure liquid chromatography, measures mitochondrial activity in bone and cartilage, performs trace element analysis (B.S. and knowledge of routine biochemistry); (i) research in molecular genetics, use of recombinant DNA techniques, nucleic acid hybridization and gel electrophoresis (B.A. in biochemistry, biology, or chemistry); (j) immunochemical and immunobiological techniques, tissue culture with human and animal cells (research or clinical lab experience, medical technology training helpful) \$9,650-\$12,225.

Residence Hall Clerk answers telephones, provides information, keeps records of maintenance work and reports any disturbance to security (high school, some college preferred, mature individual) \$9,425.

Secretary II (*25 positions*) \$6,875-\$8,750.

Secretary III (*16 positions*) \$7,425-\$9,450.

Secretary IV schedules appointments, files, uses dictaphone (minimum six years' secretarial experience, preferably at the University or at another academic institution, excellent typing and organizational ability, knowledge of University procedures) \$8,625-\$10,950.

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

Secretary/Technician, Word Processing (*two positions*) (a) operates Lexitron for scientific manuscripts, transcribes from dictating machine (excellent typing, word processing, and medical terminology); (b) takes dictation, transcribes, and uses word processing equipment (high school graduate, office experience) \$7,975-\$10,150.

Sergeant (*two positions*) (a) supervises campus police (six months' active police duty and Commonwealth-approved police academy training); (b) supervises fifteen police officers; is responsible for emergency decision making in the absence of higher ranking departmental personnel (six months' active police duty, Commonwealth-approved police academy training program) \$11,550-\$14,775.

Stack Attendant takes care of arrangement/order of material in library collection. Union wages.

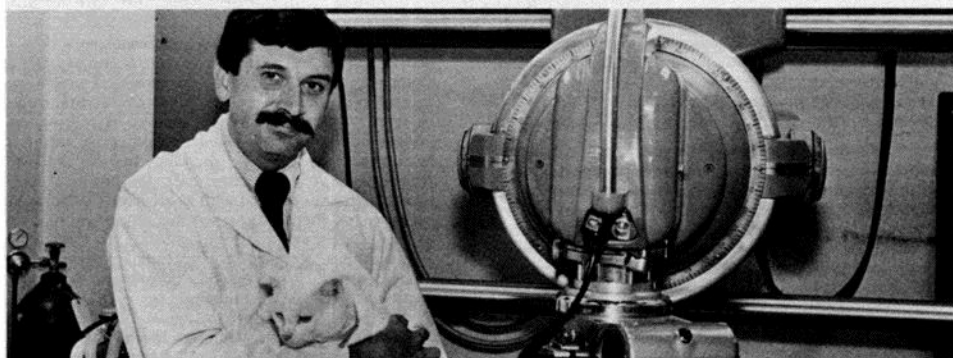
Statistical Assistant verifies the accuracy of information which enters the accounting system; maintains permanent orderly records of the accounting system output (high school graduate, bookkeeping and/or accounting experience helpful) \$8,625-\$10,950.

Veterinary Anesthesia Technician II (*New Bolton Center*) manages research projects involving anesthetization of animals, instructs students and lower level technicians, may be assigned to emergency call, weekend and/or holiday duty (knowledge and technique in handling anesthesia equipment, biomedical education and previous experience with horses, at least two years direct professional level experience in the specialty) \$14,100-\$17,850.

Word Processing, Secretary/Technician operates Lexitron for scientific manuscripts, transcribes from dictating machine (excellent typing, word processing, and medical terminology) \$7,975-\$10,150.

Part-Time

Two administrative professional and 12 support staff positions are listed on campus bulletin boards.



Dr. Thrall and one of his patients.

X-rays for Man's Best Friend

Donald Thrall uses radiation therapy to treat pets

For 12 years now, doctors at the Tumor Clinic of the School of Veterinary Medicine's Small Animal Hospital have been treating dogs and cats that have developed cancer, expanding on veterinary radiation research that actually had its origin here during the mid 1930s.

The patients, often brought in from hundreds of miles away, are treated with surgery, radiation therapy, chemotherapy, or a combination of these.

The clinic, founded by the late Dr. Robert S. Brodey in 1967, has facilitated the development of clinical oncology as a specialty in veterinary medicine.

Dr. Donald E. Thrall, who has been running the Tumor Clinic with Dr. Ann Jeglum since Dr. Brodey's death in an auto accident this summer, is one of the few veterinarians who has had training in radiation biology and diagnostic radiology.

He interprets radiographs (x-rays) to diagnose diseases in animals, but he spends most of his time at the clinic supervising radiation treatments for dogs and cats.

Seated beside the awkward, odd-looking radiation therapy equipment he uses in his work, Dr. Thrall relaxed and talked about his patients.

"The pets we see here have been in the family for years, and they have become an integral part of their owners' lives," he said.

"Unfortunately, in many cases we cannot cure the disease. Then, we try to make the patient as comfortable as possible. The personal feedback from the owners is good, whether we succeed or fail," he said. "Even when we fail, the owner says, 'at least we tried.'"

Treatment of animals with x-rays goes back almost as far as x-ray treatment of humans. "The first radiation therapy machine in a U.S. school of veterinary medicine was installed here at the University of Pennsylvania," Thrall pointed out, "right in this room."

According to a history of the School of Veterinary Medicine, Dr. Mack A. Emmer-

son was put in charge of the x-ray program during the mid-'30s when it was instituted.

The technology and its applications to veterinary medicine were imported from Vienna, according to a recently translated chapter from a German handbook on radiological medicine.

The medical cost for an uncomplicated case, from diagnosis through treatment, is \$400.

"We recently received a cobalt radiation therapy machine, a gift from the Medical School, and we hope to have that installed soon," he added. "This will increase our ability to effectively treat more patients and increase response of tumors. We are collecting data on which kinds of tumors respond to treatment. Also, dog tumors are a model system for human disease," he said.

Research is another aspect of Thrall's work. He spends two days a week writing articles for veterinary publications and taking care of clinical paperwork. He has 40 research articles to his credit.

Dr. Thrall, 34, was born in Indianapolis. He attended Purdue University, receiving his D.V.M. degree there in 1969. He then attended Colorado State University, receiving his M.S. in radiology in 1971 and his Ph.D. in radiation biology in 1974.

In 1976, he joined the faculty of the University, teaching radiographic interpretation and working in the radiotherapy clinic.

He currently is president of the American College of Veterinary Radiology and the University's chapter of Phi Zeta, the national honor society of veterinary medicine.

When he is not working, Dr. Thrall pursues hobbies which include squash, tennis, and photography. The photography is not really related to his diagnostic x-ray work, but he does like to photograph cats. He owns two cats. As he explained it, "I am fascinated by them. They have great agility, personality, and facial expressions."

—Max Lebow

70th Anniversary

School of Social Work

Congressman William H. Gray III (D-Phila.) will be the key speaker when the School of Social Work celebrates its 70th Anniversary today.

Gray's speech, 7:30 p.m. at the University Museum, will top a full day of activities at the school. Activities during the day will include a luncheon for University trustees and the board of overseers of the School of Social Work. Dr. Harold Lewis of the Hunter College School of Social Work will address the luncheon audience.

"Improvement for the '80s" will be the topic of a panel discussion which will begin at 3:30 p.m. in the International House. Panel members will include Ruth McClain, executive director of the Interchurch Child Care Agency in Philadelphia; Leonard Stern, of the National Association of Social Workers in Washington, D.C.; Wilbur Hobbs, co-executive director of the Crime Prevention Association in Philadelphia; and Tess Okin, associate provost of academic affairs at Temple University.

Six deans of various schools of social work will be honored. Each of the six are graduates of the Penn School of Social Work who have gone on to become deans of social work schools. The deans to be honored are Shirley Ehrenkrantz of New York University, Lloyd Setleis of Yeshiva University, Morton I. Teicher of the University of North Carolina, Leverne McCummings of the University of Denver, Louise Shoemaker, present dean of Penn's School of Social Work, and Lewis of Hunter.

In its 70 year history, the School of Social Work has gone from a private school which opened its doors in 1909 to five students to an institution with 300 full-time students. The school offers master of social work and doctor of social work degrees.

Exploring 504

Conference on Handicapped

To a handicapped person the number 504 holds a very special significance. It is the number of the section of the federal Rehabilitation Act of 1973 which outlaws discrimination against anyone because of his or her handicap in any program or activity receiving federal assistance.

"Beyond 504: Exploring Handicapped Regulations and their Intent" is a conference co-sponsored by the Women's Committee of the University of Pennsylvania Museum and the Greater Philadelphia Cultural Alliance (GPCA).

It will be held next Thursday, November 1. Call GPCA at 735-0570 for a registration form.