

Almanac

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Senate Slate 1983-84

To: Members of the Faculty Senate
From: Murray Gerstenhaber, Chair
Re: Senate Nominations 1983-84

1. In accordance with the requirements of Sec. 11(b)(iii) of the Senate Rules, official notice is hereby given of the Senate Nominating Committee's slate of nominees for the incoming Senate Officers. The nominees, all of whom have indicated their willingness to serve, are:

Chair-elect: Jacob M. Abel (applied mechanics)
Secretary-elect: Fred L. Block (sociology)

At-large Members of the Senate Executive Committee (to serve a 3-year term beginning May, 1983):

John P. Brady (psychiatry)
Michelle Fine (education)
Henry M. Hoenigswald (linguistics)
Susan M. Wachter (finance)

Senate Committee on Academic Freedom and Responsibility (to serve a 3-year term beginning May, 1983):

Frank Goodman (law)
Seymour J. Mandelbaum (city & regional planning & history)

Replacement Pool for Academic Freedom and Responsibility (to serve a 3-year term beginning May, 1983):

Wendy L. Steiner (English)

Senate Committee on the Economic Status of the Faculty (to serve a 3-year term beginning May, 1983):

Jean Alter (Romance languages)
Anthony R. Tomazinis (city planning)
(to serve a 2-year term beginning May, 1983):
Robert Inman (finance)

2. Again pursuant to the Senate Rules (Sec. 11(b)(iv) you are invited to submit "additional nominations, which shall be accomplished via petitions containing at least twenty-five valid names and the signed approval of the candidate. All such petitions must be received no later than fourteen days subsequent to the circulation of the nominees of the Nominating Committee. Nominations will automatically be closed fourteen days after circulation of the slate of the Nominating Committee." Pursuant to this provision, petitions must be received at the Faculty Senate Office, 15 College Hall/CO, by Tuesday, March 15, 1983.

3. Under the same provision of the Senate Rules, if no additional nominations are received, the slate nominated by the Nominating Committee will be declared elected. Should additional nominations be received, an election will thereafter be held by mail ballot.

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Mail Ballot: A Record Vote and the Outcome

Over half the standing faculty voted in the Faculty Senate's mail ballot on tuition benefits for faculty children that ended a week ago Monday, and over half of those voting preferred a constant-cost benefits package. Tallied Tuesday afternoon, the total return on 1810 ballots was 976—of which 47 were received late and 17 not in the proper envelopes.

The tabulation of the resulting 912 total, and its interpretation by Senate Chair Murray Gerstenhaber and Economic Status Committee Chair Samuel Preston, appears on page 5 of this issue.

In a press conference following the Economic Status Committee's meeting with Provost Thomas Ehrlich on Thursday, the two men called the combination of 56.1% for constant cost, and 15.1% for reduced cost a "decisive" vote for restructuring the benefit. In Part II, where faculty were to choose among three constant-cost options, 48.4% backed the plan adopted 39-11 at the Senate Fall Meeting November 17—which calls for moving in five years to 75% tuition for children at Penn, and

40% of Penn tuition for children elsewhere—and 32.5 favored a speed-up to the 75/40 package.

Responding to the concern of the 27.4 percent who are believed to have favored the increased cost option in Part I because they see a "serious and unexpected financial setback" in adoption of Plan A.I, Drs. Gertenhaber and Preston urge the administration, in their statement, to consider a "guaranteed subsidized loan policy"—with subsidy footnoted as use of the University's borrowing-and-collection capacity to achieve favorable rates for individuals. (*Ed. Note:* the statement on page 5, minus the footnote, was distributed as an *Almanac* special bulletin to University buildings on Friday. The text published here supersedes the bulletin as the Senate's report of record.)

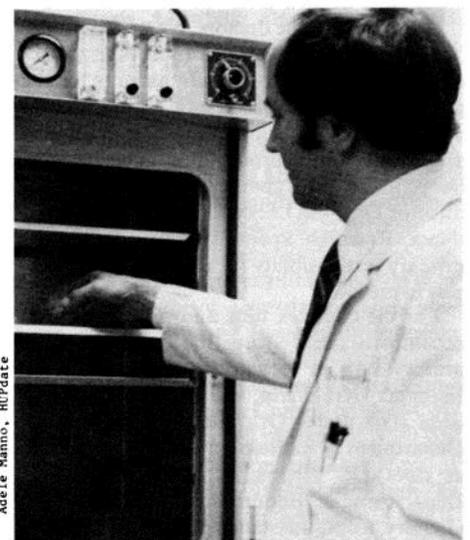
The administration is expected to publish a response next week. At Thursday's press conference, Dr. Preston said that Vice President Paul Gazzero's statement published February 8 indicated in advance that the administration would accept a constant-cost restructuring.

Two Pregnancies from Penn In Vitro Project

Two women from the Delaware Valley have achieved pregnancy, and six more are at or near the pregnancy-test stage, in the Department of Ob/Gyn's *in vitro* fertilization program that began accepting patients last May.

At a press conference last Wednesday, Dr. Richard Tureck described the process in which a petrie dish becomes the "surrogate fallopian tube" for women whose tubes are absent or damaged. Drs. Luigi Mastroianni and Celso-Ramon Garcia also detailed some of the non-medical factors surrounding the few U.S.

(continued next page)



Adele Manno, RUPdate

An everyday piece of lab glassware, the petrie dish (left) acts as surrogate fallopian tube and gives its name to the new treatment that Dr. Richard Tureck (above) coordinates at Ob/Gyn.

(continued)

programs that are pioneering in *in vitro* fertilization despite a cut-off of federal research funds for such work in this country.

The two pregnancies in the Penn program are the first in the tri-state area, and if births result next August or September, they would join about a dozen "test tube babies" in the world, most of them from Great Britain and Australia. In the U.S., there are projects at Norfolk, Vanderbilt, the University of Texas at Houston, Columbia University, USC, Yale and Cornell, with births and pregnancies reported from several.

At Penn, 60 women have been treated since May, 20 of them since January when the program stepped up its enrollment and refined the criteria for candidates. (It now accepts married couples in which the wife is under 39 and has accessible ovaries, and the husband has a normal sperm count.)

The program has also established a cost range—\$2500 to \$3000—for the fertilization treatment. (The fertilization treatment is not covered by Blue Cross, Dr. Mastroianni noted, but physicians are trying to make the case.) The cost at Penn is about half that reported elsewhere in the U.S.—in part because the Penn physicians donate their time.

More than two dozen people from several departments and health care units make up the *in vitro* fertilization team at HUP, where Dr. Tureck heads the project under the auspices of the Department of Obstetrics and Gynecology. The five key physicians are Dr. Tureck, an assistant professor of ob/gyn who came here four years ago to start the program; Dr. Mastroianni, who is William Goodell Professor and chairman of the ob/gyn department; Dr. Garcia, William Shippen, Jr., Professor and Director of Human Reproduction; and Dr. Luis Blasco, associate professor, and Dr. Steven J. Sondheimer, assistant professor, both in the department's division of reproductive endocrinology and infertility.

Working with the doctors, Nurse-Coordinator Deborah A. Schafer and I.V.F. Nurse Practitioner Linda Ferkle prepare patients for the procedure. *In vitro* secretary Gloria Colella and financial counselor Gloria Bloom assist in preliminary office procedures. Then the Day Surgery Unit takes charge with staff nurses and director Dr. John Lecky, Department of Anesthesia. Research Specialist Alexis Bossie has primary responsibility for the fertilization process in the lab.

For the complex tests and procedures that accompany these efforts, the Endocrine Laboratory staff of technicians under Technical Manager Gerald Nee, and the ultrasound division staff under Dr. Peter Arger (Director, Department of Radiology) lend their expertise, as does Dr. Jerome F. Strauss (Director, Department of Endoradioimmunology). Dr. Gregory Kopf, assistant research professor in the division of reproductive biology, works behind the scenes on the physiological mechanisms of reproduction.

The psychological care of patients falls to Dr. Andrea Boxer, the clinical social worker assigned to the group from the Mudd program in human behavior and reproduction at Ob/

Gyn. Also from the Mudd Suite are the consulting services of Dr. Karl Rickles and Dr. Ellen Freeman, director and staff member, respectively, of the division of human behavior and reproduction.

Over twenty years of fertility research at Penn lies behind the introduction of *in vitro* fertilization treatment, including successful births in rats and rabbits as part of the clinical research program. A number of past breakthroughs have converged to make the technique successful for humans: success with fertility drugs, temperature and ultrasound assays and other advances enabling the care team to remove follicular matter from the ovary at the precise time of ovulation, closely controlling temperatures of environment and equipment; fertilize it in the petrie dish as the body would in the fallopian tube; and return the embryo to the woman's body where the pregnancy resumes its traditional course in the womb.

Surgically, it is not a high-risk procedure for the woman. Screening, and later the removal of the follicular matter are by laparoscopy—a day-surgery procedure with entry via the navel—and the implantation after fertilization is by a procedure similar to the Pap test. Thus it is "physically relatively benign," in Dr. Mastroianni's words; but the emotional needs of couples seeking and/or undergoing the treatment led Penn to include a clinical social worker on the team. *In vitro* fertilization is not expected to supersede the tuboplastic surgery that has been the only recourse until now for women with damaged or absent tubes, but is a last resort where tuboplasty is not indicated or has not worked.

Whereas unassisted conception has about a 25 percent success rate per cycle, the Penn team and other U.S. researchers are projecting 15 to 20 percent, and are quick to point out the normal risk of aborting or miscarrying at later stages as with any other pregnancy. At the University Hospital, the team projects being able to handle five treatments a week, and will

take patients on a first-come, first-serve basis. Couples who do not achieve conception on the first cycle can try again—and Dr. Tureck expects that some of those in the program who tested negative the first time *will* try again.

Specialists in fertility do not regard the treatment as either "experimental" or "controversial," despite the interruption of federal funding, Dr. Garcia said. He is president of the more than 7000-member American Fertilization Society whose board of directors passed a resolution a year ago:

In view of the current rate of success in programs of in-vitro fertilization, it is the sense of the Board of Directors of The American Fertility Society that in appropriately staffed and equipped institutions that have demonstrated proficiency and success, in-vitro fertilization must now be recognized as the acceptable treatment for achieving pregnancy for couples whose wives have absent or irreparably damaged fallopian tubes. The full membership then passed unanimously a further motion:

Previously an advisory committee formed by the Department of Health and Human Services has reported favorably on the ethics of in-vitro fertilization. To date no action has been taken by Health and Human Services on this report.

In view of recent studies, the members of The American Fertility Society believe the Department of Health and Human Services should re-establish research grants to further improvements in techniques for in-vitro fertilization and embryo transfer.

Leaders of the AFS have discussed the resolution with President Reagan's science advisor, hoping to detach its fate in the Oval Office from political controversy on termination of pregnancy. "These are two very different things," he emphasized. "For couples desperate to have children, the difference is very clear."

For both couples now expecting their first children through *in vitro* fertilization here, the response was described by Dr. Mastroianni as "ecstatic." For the treatment team, the bottom-line adjective was "elated."

Alice Paul Awards

The Women's Faculty Club invites nominations for the 1983 Alice Paul Awards in three categories: senior undergraduate, advanced student in a Ph.D. program, and advanced student in a professional program. The awards honor women students who have contributed significantly to the University. *Nominations will close on March 11, 1983.* Please send letters of nominations and support to Dr. Ann Matter, 106 Logan Hall/CN.

Careers in Arts Administration

Careers in Arts Administration is the subject of the Career Planning and Placement Service's session March 7. Maureen Wiley, executive director of the Philadelphia Dance Alliance, and Janice Goodman, director of "Prints in Progress," will discuss a broad spectrum of employment possibilities in the field.

The March 7 session of the ongoing series on career alternatives is 4:30-6 p.m. in the Benjamin Franklin Room, Houston Hall. For more information, call Ext. 7530.

Faculty Opening: Stouffer House

Stouffer College House announces a vacancy for a Faculty Fellow (married or single), for a two-year term beginning in the fall of 1983. The main responsibility of a Faculty Fellow is to create, guide, and participate in the House programs and activities. Since college houses are specifically intended to bridge the gap between the academic and residential lives of students and faculty, applicants should have a high degree of interest in undergraduate life.

Stouffer College House, at 38th and Spruce Streets, is comprised of a diverse group of 130 undergraduates, four Graduate Student Fellows, and three Faculty Fellows (including the Housemaster). Accommodations for Faculty Fellows include a rent-free, two-bedroom apartment and five meals a week during the school term.

Nominations or applications should be sent, as soon as possible, to Professor Betsy Erkkila, Stouffer College House, 3700 Spruce St./G8. Please send a *curriculum vitae*. Further information is available from Professor Erkkila (Ext. 6211 or 387-8276), or the Stouffer College House Desk at Ext. 6827.



Aaron Kadron, D.P.

Dr. Korostoff, right, holds the model of the electrical device he and Dr. Davidovitch (not shown) invented for faster movement of teeth in orthodontics. Dr. Sanford, left, is conducting clinical tests.

Electrified Braces for Tooth Movement

An electrical device which may be able to reduce the time necessary for orthodontic treatment by about 50 percent has been invented by researchers at the Dental School. Tooth movement is accelerated by attaching a small acrylic-coated, battery-powered apparatus to normal braces and applying a small electric current to the bone surrounding the teeth. The device uses only 20 millionths of an ampere (it takes 25,000 of these units to light up a flashlight bulb).

Co-inventors are Dr. Edward Korostoff, a professor of biomaterials who holds a primary appointment in the Dental School, and Dr. Zeev Davidovitch, professor of orthodontics. Each had thought separately about such a device before they began work together on it in 1975. In 1979 they received a grant from the Institute for Dental Research of NIH to continue their research.

Working originally with cats, and using an appliance like the one they subsequently developed for people, the Penn researchers demonstrated that electricity stimulates bone remodeling at an accelerated rate, thus enabling more rapid tooth movement than braces without electricity. To make a device that is both mechanically and electrically tolerable they continuously modified and miniaturized the appliance.

Drs. Davidovitch and Korostoff have now patented their invention, and the University will participate in royalties if and when it goes on the market. Testing has not yet been completed, but major clinical tests start this spring; the next step will be to go before the FDA. The clinical tests are being directed by Dr. Robert Sanford, an orthodontist with experience in electricity who took his degree from the Dental School in 1982.

DEATHS

Dr. Ray H. Abrams, professor emeritus of sociology, died February 6 at the age of 86. He received a degree in sociology from the University of Richmond in 1918 and a master's degree from Penn in 1921. After attending Crozier Seminary in Chester, Dr. Abrams became minister of a Baptist church in West Chester. He resigned his pulpit and returned to Penn and began teaching in 1930. He received his Ph.D. degree from the University the following year. In 1939 he was appointed assistant professor and in 1957 he became an associate professor.

Known as an accomplished violinist, printer, author, photographer and editor, he was the Honorary Director of the Violin Society. He played the violin in the University Orchestra and was a playing member and member of the board of directors of the Lansdowne Symphony Orchestra. Dr. Abrams served as president of the Faculty Club from 1964 to 1966.

He is survived by a brother-in-law, William Hargreaves. Contributions may be made to the Violin Society of America, c/o Norman Pickering, 23 Culver Hill, Southampton, N.Y. 11968.

Florence M. Davis, a retired research histology technician, died February 8 at the age of 71. Mrs. Davis came to the University in 1942 as a research histology technician in the Pathology Department. She retired in 1972 and is survived by her son, Dr. Wayne J. Davis.

Dr. John Perry Horlacher, former chairman of the department of political science, professor of labor relations, and city arbitrator died February 6 at the age of 81. After attending Ashland College, Ashland, Ohio, he began teaching at Penn as a doctoral student. He was a member of the faculty for 44 years, during which time he served as chairman of the political science department from 1952 to 1967, president of the Faculty Senate in 1957 and 1958, and president of the Faculty Club from 1962 to 1964. He retired in 1972 with emeritus status but continued to work on panels hearing labor disputes involving public contracts.

During World War II and the Korean War, Dr. Horlacher was appointed by Presidents Roosevelt and Truman to serve as regional director of wage stabilization boards. He was also a member of the National Academy of Arbitrators and former chairman of its Philadelphia chapter.

He is survived by his daughter, Nancy Roberts; five grandchildren; a great-granddaughter; a brother; and a sister. Memorial gifts may be sent in Dr. Horlacher's name to Penn's Memorial Program.

Memorial Funds: After the death of a member of the University community, a memorial fund is sometimes established to support research, provide scholarships, or add to the library in the deceased person's field. To establish a memorial fund or contribute to one, contact Lloyd S. Herrick, assistant director of annual giving, at 643 Franklin Building, Ext. 8445. The Alumni and Friends Memorial Funds program in that office transmits and acknowledges gifts.

Partnership: Beyond Research?

A March 4 conference on Manufacturing Systems Engineering, in which Engineering and Wharton School faculty members meet with leaders of industry who have been designated Corporate Associates here, will go beyond the research relationship in the "corporate/university partnership" according to Dr. Solomon Pollack, associate dean of SEAS.

The schools and corporate leaders are taking a two-way look at engineering education and industry, as high-technology systems and their management needs emerge. Some questions: Is there a "discipline" in manufacturing systems engineering? If so, will there be a logical research function as well as a logical curricular function leading to a valid role for universities? "We will be learning what industry needs," said Dr. Pollak, "but at the same time asking, Should universities be doing it?"

Corporate Associates are industry leaders whose firms have interacted with SEAS in the past. The first of what will be annual conferences with the Associates was held last year as a general two-way presentation on resources and needs in academia and industry. This year, as a faculty committee led by Dr. Kenneth Fegley delved into a six-month study of the possibility of a curriculum that would contribute to manufacturing systems engineering, the second Associates' conference became focused on their topic. A highlight of Thursday's all-day program will be a panel discussion featuring Michael J. Kelly of the IBM Corporation, David E. Momot of the General Electric Company; Gerald L. Elson of General Motors Corporation; Dr. James N. Brecker of Westinghouse Electric Corporation; and Don Nigro of United Technologies Corporation. From the Engineering and Wharton faculties will be Dr. Fegley, professor of systems engineering; Dr. Norman I. Badler, associate professor of computer and information science; Dr. Paul Kleindorfer, professor and chairman of decision sciences; and William F. Hamilton, Ralph Landau Professor of Management and Technology.

Almanac

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Research Inventory

The Office of the Vice Provost for Research and the Office of Research Administration began in November to update a 1977 keyword listing of faculty research interests. This effort has been very successful, and I want to thank the faculty for its enthusiastic response.

To date more than 1100 faculty members have responded with lists of their research interests. The research inventory is cross-indexed by keywords, faculty names and by school and department. When published, the inventory will be distributed to departmental and main administrative offices throughout the University.

In order to still be included in the published research inventory, members of the standing and research faculties who have not yet completed the keyword survey must do so by *March 30, 1983*. Forms are available from the Office of Research Administration (Ext. 7293) or from the Office of the Vice Provost for Research (Ext. 7236).

— *Barry S. Cooperman*
Vice Provost for Research

Hardee's: To Be or Not to Be

An ad hoc committee has been formed by the Student Administrative Services Office to find out what the University community wants in the Houston Hall dining space now leased to Hardee's, a national food chain whose lease is up for renewal in August 1984. Since a year's notice is required for the renewal decision, the committee wants to hear from faculty and staff by *March 31, 1983* on two basic questions that will guide planning between now and August 1983:

Do people want Hardee's renewed for another five years starting August 1984?

If not, what do people want in that space?

Answers to these questions, and any additional comment, should be sent to me at 3537 Locust Walk/CP.

— *Mary Beermann*
Student Administrative Services

Mr. Chips II: The Wordprocessing on the Wall

D.P.: President Chips, thank you for granting a second interview. Could you summarize some of your daily activities as president?

P.C.: Consultation on all matters from dining services to dean searches takes in excess of 30 hours per day and would be impossible but for my ability to meet with several groups simultaneously. The burden of consultation had traditionally been met on other campuses by creating various surrogates for the president known either as vice presidents or vice provosts depending on whether they dealt with things or with people, but the distinction in this age, as you recognize even in talking with me, has become largely artificial (although I should hesitate to say academic). The traditional approach was often marred by the tendency of those consulted to believe that information flowed upwards to the administrator and commitments downward, while the reverse is in fact true. Consultation properly transmits to those consulted the wishes of the consulter, who in turn exacts of the former commitments to act accordingly. Such unrest as remained on this campus in the late '80s and '90s resulted from basic misunderstanding of the process: it is evident that an administrator cannot simultaneously accede to the divergent demands of distinct consultative bodies, while a beneficial uniformity results from their accepting his.

D.P.: But it seems unnatural, particularly in a university, to accept intellectual subservience.

P.C.: While no human can rule a university, complete subservience is always given to machines, precisely because we believe that we rule them. Anyone who has bent a computer to some "intelligent" task has actually bent himself to act and think in ways very precisely dictated by the machine. Much of the success of education has always depended on the student's perception of superiority to their teachers whom they viewed as machines even before we recognized that teachers could be replaced by them. The expansion of consultation, once viewed by administrators as an inhuman burden, now serves a basic educational mission which I can accomplish with much greater efficiency than the human presidents who preceded me.

D.P.: You are retiring, as I understand, to a University Professorship. Is that a "golden parachute"?

P.C.: No, it is a natural redirection of my teaching abilities to the training of our brightest, hence most unmanageable students, who in "mastering" me will accept exacting conformity for themselves.

D.P.: Good bye, President Chips.

P.C.: Please don't trip on my plug.



SPEAKING OUT

Reasonable Compromise

The debate concerning faculty-staff tuition has presented arguments for and against increasing the University resources devoted to these benefits. One cannot claim, however, that the Administration has a commitment to provide 50% tuition for children attending universities other than Penn.

In 1966-67*, the Faculty Affairs Committee recommended that the direct grant be raised from \$750 to \$900 because the University tuition had increased from \$1,500 to \$1,800. The University Administration accepted the recommendation, but did not promise to maintain the grant at half the Penn tuition in the future. Considering that the grant has remained at \$900 for 15 years, one could conclude that the University has demonstrated by now that it will *not* be 50% of Penn tuition.

Faculty Senate discussions and letters to *Almanac* make it clear that the magnitude of the gap between the benefit for children who attend Penn and those who do not warrants a change. Increasing the total benefit is not fair to the faculty members who cannot use it. The prop-

* *Dr. Ruff chaired the Faculty Affairs Committee at that time.—Ed.*

osal of the Senate Committee on the Economic Status of the Faculty is a reasonable compromise.

— *George E. Ruff, M.D. Professor and Acting Chairman, Psychiatry*

Squatter's Rights?

As I understand the principle of squatter's rights in law and ethics, it is that if you have been getting away with something for a while, you may continue to do so now. Does the same principle hold in faculty benefits programs—namely, that if the Administration has been squatting for many years on a successful evasion of a quasi-contractual obligation to provide 50% of Penn's tuition to faculty children going to other colleges, the Administration may continue to do so? Or trade these squatter's rights for some other arrangement?

— *Igor Kopytoff*
Professor of Anthropology

Equality?

Some say that the present system of tuition benefits for faculty children is inequitable. Some faculty who do not use this benefit see them-

selves as losers in a zero-sum game. (One wonders if they resent not cashing-in on their disability benefits.) Yet tuition benefits are only about \$10,000 per year (for a mere four years per student) while some faculty salaries are \$20,000 and others are \$40,000 annually. Obviously the equalizers should direct their efforts toward this far greater inequity. If my suspicions about the distribution of salaries are correct, this reformation will be widely supported.

— *Charles W. Thayer*
Associate Professor of Geology

Maldistribution!

A number of faculty members have urged elimination of the tuition benefits for faculty children because some of them do not use it. While they are at it, perhaps they should question medical insurance benefits. Here, the people who exercise, watch their diets, and don't smoke are, statistically speaking, subsidizing the others. Clearly, this is a maldistribution of benefits! (Sometimes, people are better able to control the above activities than the number of children they have.)

— *Charles J. McMahon, Jr.*
Professor of Materials Science & Engineering

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

Following is a revised text of the memorandum sent to Provost Thomas Ehrlich on Thursday, February 24, by Dr. Murray Gerstenhaber, Chair of the Faculty Senate, and Dr. Samuel Preston, Chair of the Senate Committee on the Economic Status of the Faculty. With one exception it reads as published in an Almanac Special Bulletin bulk-dropped to buildings on Friday, February 25. The exception is that a footnote has been added to clarify the use of the word "subsidized" in the passage urging the administration to consider guaranteed subsidized loans for current faculty whose children matriculate at Penn after 1983.

Outcome of the Ballot on Tuition Benefits for Faculty Children

Each member of the standing faculty and standing faculty-clinician educators was sent a mail ballot on February 7, 1983, to be returned to the Faculty Senate Office no later than 2 p.m. on February 21, 1983. A total of 1810 ballots were distributed. 976 ballots were returned, of which 47 were transmitted after the deadline and are not included in the totals reported below. The number of persons voting on the issue is believed to be the largest in the history of the Pennsylvania faculty. The tallying was conducted on February 22 in the Faculty Senate Office by a group consisting of June Axinn, Chair-elect of the Faculty Senate, David Balamuth, past Secretary of the Faculty Senate, Carolyn Burdon, Coordinating Assistant to the Chair of the Faculty Senate, Murray Gerstenhaber, Chair of the Faculty Senate, and Robert Lorndale, Associate Secretary of the University. Before counting, the ballots were separated from the envelopes that contained a preprinted return address label of the faculty member voting. The return envelopes, as well as the ballots, will be preserved in the Faculty Senate Office for one year.

The ballot was divided into two parts. Twelve persons filled in Part II but not Part I. Since the issues in Parts I and II were separable, these votes were tallied under Part II. Four persons had filled out Part I but not Part II, and an additional twenty-three ballots contained a write-in preference in Part II. These ballots were tallied under Part I and as "write-in or no preference" in Part II. Twenty of the twenty-three write-in ballots had written in a preference for "100% at Penn/50% away from Penn" or "100% at Penn/40% away from Penn." Seventeen ballots were declared void because they were not returned in the validated pre-printed and labeled envelopes.

The distribution of votes for the 912 valid ballots was the following:

	No. of Votes	Percent of Votes Cast
Part I Which of the following do you prefer?		
025A. One of the plans with constant costs listed below in Part I.	512	56.1
025B. An increased cost plan which provides faculty choice (between the old plan and one of the new plans).	250	27.4
C. A reduced fraction of faculty compensation that is directed towards tuition remission.	138	15.1
No preference.	12	1.3
Part II Of the constant-cost plans, which do you prefer?		
A.1 The plan adopted at the Faculty Senate meeting on 11/17/82: gradual movement over the next 5 years to remission of 75% tuition for faculty children at Penn and a direct grant of up to 40% of Penn's tuition for faculty children attending other schools.	441	48.4
A.2 The other plan discussed at the 11/17/82 Faculty Senate meeting: rapid movement to 75% tuition remission at Penn and 40% of Penn tuition for faculty children attending other schools.	296	32.5
A.3 The present plan: 100% tuition remission at Penn and up to \$900 direct grant for faculty children attending other schools.	152	16.7
Write-in or No preference	27	3.0
TOTAL	912	100.0%

The faculty have decisively expressed a preference for a restructuring of tuition benefits. Fewer than 20% of the faculty prefer the current plan (A.3), even if all of the write-in votes are included in this total. Plans A.1 and A.2 differ only in the speed with which restructuring occurs. Of these two plans, A.1, with a slower restructuring that provides full tuition remission at Penn for students enrolling in 1983 or earlier, is preferred by a 3:2 margin. We therefore urge that the administration move rapidly to implement Plan A.1. It will be recalled that this plan provides, for undergraduate students away-from-Penn, up to \$1000 in 1983-84, \$1500 in 1984-85, \$2400 in 1985-86, \$3400 in 1986-87, and 40% of Penn's tuition in 1987-88 and thereafter. It will further be recalled that undergraduate tuition remission at Penn for students matriculating after 1983 will be \$7320 in 1984 and 1985 and 75% of Penn's tuition thereafter. Comparable changes occur among faculty children enrolled in professional schools.

The majority of faculty members have also expressed a preference that the restructuring occur in such a way that the total cost of the tuition benefit remain at approximately the same fraction of faculty compensation as under the current plan. This outcome validates the constant-cost constraint under which the Economic Status Committee has felt itself to be operating on this issue. However, 27% believe that a new plan should be implemented in such a way as to allow faculty members an individual choice between the old and new plans, a strategy that is recognized as increasing costs of the restructuring. Their major concern, as expressed at the special Faculty Senate meeting of February 2, 1983, is that persons who are reasonably certain that their children will matriculate at Penn after 1983 are being dealt a serious and unexpected financial setback by the adoption of Plan A.1. We are sympathetic to their concerns and urge that the administration consider a guaranteed subsidized* loan policy that would alleviate their financial pressure by covering the difference in tuition remissions at Penn between the current and new plans for children of all current faculty members. Such a policy is in the spirit of AAUP guidelines suggesting that changes in benefits be made in such a way as to cushion the impact on faculty who would be adversely affected.

In the course of the debate about faculty tuition benefits, many have stressed the importance of maintaining an "admissions benefit" at Penn for faculty children. It is an appropriate time to reaffirm the Committee's support of the provisions of the McGill Report that pertain to this issue, and that have formed the basis of our collegial admissions policy for fifteen years.

Finally, we would like to extend our thanks to the many faculty members who have expressed themselves on this issue through the ballot and other means; to *Almanac* for providing an ample and timely forum for the associated debate; and to you and your office for the consistent and responsible manner in which you have dealt with the faculty on this matter.

* By *subsidized*, we mean a loan whose terms take advantage of the University's borrowing power and collection capabilities to reduce the interest below what an individual might obtain on the open market.

March 1-13

Academic Calendar

March 12 Spring recess begins at close of classes
March 21 Spring recess ends at 8:00 a.m.

Children's Activities

Film Series

March 5 *Storm Boy*
March 12 *The Mixed Up Files of Mrs. Basil E. Frankweiler*
 The Saturday children's film series is free. Films are screened at 10:30 a.m., Harrison Auditorium, the University Museum.

Conferences

March 5 *Changing Labor Laws: Lawyers Working With Working Women*, keynote speaker, Carol Bellamy, New York City Council President; nine workshops, 9 a.m.-4:30 p.m., Law School (The Women's Law Group). Information: Alison Marshall, 662-0744.
The Political Situation in Central America Today; films, workshops, seminars; principal speaker, Felix Antonio Ulloa, professor of law (in exile in Mexico City), University of El Salvador, 10:30 a.m.-5:30 p.m., Auditorium A1, David Rittenhouse Labs (Penn Central America Solidarity Group, GSAC).

Coursework and Training

College of General Studies

March 7 *Introduction to the PASCAL Language*, 5:45 p.m.
 These are non-credit courses sponsored by CGS. Information and registration: Ext. 6479 or 6493.

Morris Arboretum

March 1 *Planning and Planting the Vegetable Garden*, two sessions, 7 p.m.
March 9 *Of Angelwing and Maidenhair: Living with Begonias and Ferns*, 10:30 a.m.-noon, \$12, \$9 for Arboretum members (for an additional \$7 charge class members can join the horticulturalist/speaker Joy Logee Martin for a box lunch after class).
March 12 *Propagation for the Home Gardener*, three sessions, 10 a.m.
 Information/registration: Education Department, 247-5777.

Training Division of Personnel

March 2 *Purchasing Orientation*, 2-3:30 p.m., call Ms. Vaccaro, Ext. 4078 to register (1 session course).
March 2, 9, 16, 23 *The Administrator as Communicator* (for professional staff), 9:30 a.m.-noon, (participants must attend both sessions). \$20 fee per participant charged to the participant's department, following supervisory approval.
March 2, 9, 16, 23 *Career Directions—"Where Do I Go From Here?"* (for support staff), noon-1 p.m., (participants must attend all four sessions).
March 10 *Resume Development*, noon-1 p.m.
 Information/registration: Training Division, 516 Franklin Building/16, Ext. 3400.

Health and Wellness Project

March 1-April 19 *Oriental Massage*, 7-9 p.m., \$130, \$110 students, third floor meeting room, Christian Association. For information about this and other courses already in progress call 222-5941.

Workshops

March 5, 12 *Hmong Pa Ndao Workshop Series*, demonstration and sale of Southeast Asian appliqué and embroidery, 1-3 p.m., International House. Registration fee and information: 387-5125, Ext. 219.

Exhibits

Through March 2 *Black Contributions to American History: Business, Nichols and Grad Towers B lobbies; Education, Kings Court/English House (North Campus Residence—Year 102 Events).*
Through March 4 *Rare Music Materials from Mahaut to Mahler*, Rosenwald Gallery, 6th floor, Van Pelt Library.
Through March 8 *Black Women: Achievement Against the Odds*, Houston Hall (Penn Women's Center—Year 102 Events).
March 3-9 *Black Contributions to American History: Busi-*

ness, Kings Court/English House (North Campus Residence—Year 102 Events).

Through March 11 *Sculpture by Anita Riley and Paintings by Betty Campbell*, Faculty Club.

Through March 18 *Recent Additions to the Special Collections of the Van Pelt Library*, Klein Corridor, 1st floor, Van Pelt Library.

Through March 31 *Wilson Eyre: Early Urban Works*, Paul Philippe Cret Gallery, Fine Arts Library, Furness Building.

Prints by Goya: Desastres de la Guerra, La Tauromaquia, Spanish Entertainment and other prints; Arthur Ross Gallery, Furness Building.

Morris Arboretum's Photo Contest Exhibit, winning entries featuring different aspects of the Morris Arboretum; Hillcrest Pavilion. Admission \$1, 50¢ children and senior citizens.

March 11-April 24 *Connections: Bridges/Ladders/Ramps/Staircases/Tunnels*, Institute of Contemporary Art. Opening March 10, 5-7 p.m.

Ongoing *The Egyptian Mummy: Secrets and Science and Polynesia*, University Museum.

Through Fall 1983 *The Lenape: Wanderers in their Own Land*; Sharp Gallery, University Museum.

Exhibition Hours

Arthur Ross Gallery Furness Building, 220 South 34th Street. Tuesday-Friday 10 a.m.-5 p.m., Saturday and Sunday noon-5 p.m.

Faculty Club 36th and Walnut Streets. Monday-Friday 9 a.m.-9 p.m.

Fine Arts Library Furness Building, 220 South 34th Street. Monday-Thursday 9 a.m.-11 p.m., Friday 9 a.m.-10 p.m., Saturday 10 a.m.-5 p.m., Sunday 1-11 p.m.

Hillcrest Pavilion Morris Arboretum, Hillcrest Avenue, between Germantown and Stenton Avenues, Chestnut Hill, phone: 247-5777. Daily 10 a.m. to 4 p.m.

Institute of Contemporary Art Fine Arts Building, 34th and Walnut Streets. Tuesday, Thursday, Friday 10 a.m.-5 p.m., Wednesday 10 a.m.-7 p.m., Saturday and Sunday noon-5 p.m.

University Museum 33rd and Spruce Streets phone: 222-7777. Tuesday-Saturday 10 a.m.-4:30 p.m., Sunday 1-5 p.m.

Van Pelt Library Monday-Friday 9 a.m.-11 p.m. except holidays. Rosenwald Gallery, Monday-Friday 9 a.m.-5 p.m.

Guided Gallery Tours

March 5 *Africa*

March 6 *North American Indians*

March 12 *Classical and Roman World*

March 13 *African Roots of American Jazz*

These Saturday and Sunday tours are free and begin at 1 p.m. at the main entrance of the University Museum. Information and to arrange for group tours: Ext. 4015.

Films

Exploratory Cinema

March 2 *Ramparts of Clay*

March 9 *Mujer de Milfuegos; Tidikawa and Friends*.

Films begin at 7:15 and 9:30 p.m., Studio Theatre, Annenberg Center, Admissions: \$3, students \$2.

GSAC Film Series

March 4 *The Undeclared*.

Films are shown in Fine Arts B-1, at 7:30 and 10 p.m. Admission: \$1.50; Season pass, \$10.

Museum Film Series

March 6 *Days of Heaven*.

March 13 *Winstanley*.

These free films are screened at 2:30 p.m., Harrison Auditorium, the University Museum.

PUC Film Alliance

March 3 *Das Boot*.

March 10 *Quest for Fire*.

Unless otherwise indicated, all films are screened at 10 p.m., Irvine Auditorium. Admission: \$2.

Penn Union Council Movies

March 5 *Cat People*, 7:30, 9:45, 12 p.m.

Schedule subject to change. All shows in Irvine Auditorium. Admission: \$1.50. Midnight: \$1 (Midnight showings of feature films are \$1.50). Information: Ext. 4444.

Serious Films

March 1 *Raices de Sangre* (Latino Festival at Penn).

March 8 *Just One of the Boys: The Party Game; The Date* (films on acquaintance rape presented by Women Organized Against Rape).

These free films are screened at noon and 2 p.m. in the Houston Hall Art Gallery by the Office of Student Life; discussions will be held after films. Information: Ext. 6533.

Year 102 Films

March 2 *From Racism to Pluralism*, 1 and 4 p.m., High Rise North Upper Lobby (Racism Committee, Department of Residential Living).

March 9 *Impact Racism: The Dividing Line*, 1 and 4 p.m., High Rise North Upper Lobby (Racism Committee, Department of Residential Living).

Meetings

GAPSA

March 9 Meeting, 6:15 p.m. in Bishop White Room, Houston Hall.

University Council

March 9 Meeting, 4-6 p.m. in Room 2, Law School.

Music

March 4 *The Collegium Musicum*, Mary Anne Ballard directing, presents *Music for the Medici*, composers from the court of Lorenzo the Magnificent and the Medici popes; 8 p.m., Harrison Auditorium, University Museum (sponsored by the President and the Provost). Repeat performance March 13 at 4 p.m., Church of St. Martin-in-the-Fields, Chestnut Hill.

The Arts College House presents the *Underground Shanty Folk/Blues Coffeehouse*, a student-run, non-profit performance that showcases local talent; 9 p.m., Ratteller of High Rise East, Harnwell House. Admission: \$2. Information: 387-3755.

March 5 *The Quaker Notes' Third Annual Jamboree* of a capella close singing with the Din and Tonics (Harvard), Mixed Company (Yale), Pennsylvania Six-5000 (Penn), Counterparts (Penn) and others; 7:30 p.m., Harrison Auditorium, University Museum. Admission: \$3 in advance, \$3.50 at the door.

Art and Social Protest: The Relache Ensemble for Contemporary Music will give a concert featuring works by Brecht/Eisler, Rzewski, Fransechini, and Plush; 8 p.m., Christian Association. Tickets: \$5, \$4 for students and senior citizens. Information: 387-3268.

An Evening of Ragtime and Blues, guitarist Eric Frandsen; 9 p.m., Houston Hall Auditorium. Admission: \$2, \$1 with Penn ID (GSAC).

March 12 *The Collegium Musicum Serenata—One Hundred Years of the Trio-Sonata*, a baroque ensemble, with Ruth Conant Drye on baroque flute, Kim Heindel, harpsichord, and Karen Meyers, theorbo.; 2 p.m., Lower Egyptian Gallery, University Museum (University Museum).

On Stage

March 3-5 *Twelfth Night*, Penn Players, 8 p.m., Harold Prince Theatre, Annenberg Center. Tickets: \$3.50, box office, Ext. 6791.

March 4-5 *You Gotta Have Art, Mask & Wig*, 7 & 9:30 p.m., Annenberg School Theatre. Information/Tickets: box office, Ext. 6791.

March 5 *Arthur Hall Afro-American Dance Ensemble*, 2:30 p.m., Harrison Auditorium, University Museum. Admission: \$5, \$3 students and senior citizens, \$4 members.

March 10-27 *The Philadelphia Drama Guild's Daughters*, John Morgan Evans' comedy about four generations of Italian women coping with life in the Bronx; Zellerbach Theatre, Annenberg Center. Tickets/information: Ext. 6791.

Special Events

March 2-4 *Latino Festival*, a celebration of Hispanic presence at Penn: talks, films, cultural activities, and a fiesta (The Penn United Minority Council) See page 8. Information: Ext. 7581.

March 3 *Economics Day: Macroeconomics Under Debate*, 10 a.m.-8 p.m. (Department of Economics).

March 5 *Tabernacle Nursery School Annual Open House*, 10 a.m.-noon, Tabernacle Church, 3700 Chestnut. Information: 662-1178.

They All Laughed

They All Laughed, a new romantic comedy written and directed by Peter Bogdanovich, will have its Philadelphia area premiere at the Annenberg Center March 4 and 5 at 7:15 and 9:30 p.m. in the Zellerbach Theatre. Peter Bogdanovich will appear in person Friday, March 4, at both screenings to discuss the film. The program is presented by Annenberg Center *InterActs* in association with *34th Street Magazine*. *They All Laughed* stars Audrey Hepburn, Ben Gazzara, John Ritter, Dorothy Stratten, Colleen Camp, Patti Hansen, George Morfogon, and Blaine Novak.

They All Laughed will be shown in 35mm on projection equipment now permanently installed in Zellerbach Theatre as a gift of Mr. and Mrs. Robert A. Hauslohner. Tickets: \$4, \$3.50 students. Box office, Ext. 6791.



Audrey Hepburn plays the wife of a suspicious millionaire and Ben Gazzara is the detective hired to follow her in *They All Laughed*, Peter Bogdanovich's new comedy. The film follows the amorous adventures of four inept New York private eyes and the intriguing women they are hired to trail.

Family Day at the School of Engineering and Applied Science, 1:30 p.m., Towne Building. Free but reservations encouraged: Alumni Relations, Ext. 7811.

Sports (Home Schedules)

March 4 Men's Basketball vs. Columbia, 7:30 p.m.

March 5 Women's Tennis vs. Maryland, 1 p.m.

Men's Basketball vs. Cornell, 7:30 p.m.

March 4, 5, 6 Women's Squash WISRA

Locations: Palestra: Men's Basketball; Lott Tennis Courts: Women's Tennis; Ringe Squash Courts: Women's Squash. Information: Ext. 6128.

Talks

March 1 *Reproduction and Priming Pheromones in Domestic Farm Animals*; John G. Vandenberg, department of zoology, North Carolina State University; 11:30 a.m., Monell Center (Monell Chemical Senses Center).

Success and Failure in the Treatment of Obsessive-Compulsive Disorder; Edna Foa, professor of psychiatry, Medical College of Pennsylvania; 11:30 a.m., Medical Alumni Hall (Department of Psychiatry Colloquium).

Effective Histamine Ventilation in Man; Dr. Richard Millman, department of medicine; 12:30 p.m., Physiology Library, Richards Building (Respiratory Group of the Department of Physiology, Department of Anesthesiology).

Early and Modern Editions of Hamlet as Performance Texts; Steven Urkowitz, SUNY-Maritime; 4 p.m., 6th floor, Van Pelt Library (Friends of the Library).

Electrical Properties of Syncytial Tissues: Sheep Purkinje Strands and the Lens of the Eye; Dr. Robert S. Eisenberg, department of physiology, Rush College of Health Sciences; 4 p.m., Physiology Library, 4th floor, Richards Building (Department of Physiology, Pennsylvania Muscle Institute).

Frontiers for Polymeric Materials; Eric Baer, dean, Case Western Reserve University; 4 p.m., Auditorium, LRSM (Materials Science and Engineering, Engineering, LRSM).

Drug Abuse in Sports; Calvin Hill, career counselor for the Cleveland Browns and former NFL All-Pro; 8 p.m., Irvine Auditorium (Connaissance).

March 2 *Military Expenditures in Nonweapon-producing Countries: The Case of Latin America*; E. N. Hohl; 12:15 p.m., Graduate Lounge, Houston Hall (GSAC Lunchbag Seminars).

Women in Celtic Folklore and Myth; Rachel Stark, department of anthropology; 12:15 p.m., Women's Studies Office, 106 Logan Hall (Women's Studies Brown Bag Seminars).

The Trials and Tribulations of Little Red Riding Hood (with slides); Professor Jack Zipes, University of Wisconsin-Milwaukee; 4 p.m., Harrison-Smith-Penniman Room, Houston Hall (Department of German).

The Uses and Abuses of History; Anthony Vidler, architectural theorist, Princeton University; 6:30 p.m., Alumni Hall, Towne Building (Graduate School of Fine Arts).

March 3 *Identity of Nepal*; Ambassador Carol Laise; 11 a.m., Room 2, University Museum (South Asia Regional Studies Seminar).

Non-invasive Measurement of Blood Flow and its Regulation in the Microcirculation of the Retina; B. Petrig,

research associate, Scheie Eye Institute; 11 a.m., Alumni Hall, 1st floor, Towne Building (Department of Bioengineering, School of Engineering and Applied Science).

Regulation of Contractile Proteins by Calmodulin and Cyclic AMP; Dr. Robert S. Adelstein, National Heart, Lung, and Blood Institute, N.I.H., Bethesda, Maryland; 4 p.m., Physiology Library, 4th floor, Richards Building (Department of Physiology, Pennsylvania Muscle Institute).

Medical School and Preparation for Health Careers; representatives of the National Association of Medical Minority Educators; 7 p.m., Multi-Purpose Room, DuBois College House (DuBois College House).

March 4 *Nonreciprocal Microwave Devices*; Moshe Kisluk, visiting professor, Tel Aviv University; noon, room 222, The Moore School (Valley Forge Research Center Seminar, Systems Engineering Department).

Black History Heritage Program: The Heritage of Nigeria; Seni Tienabeso, a graduate student from Nigeria, examines the traditions of his country; 1:30 p.m., Rainey Auditorium, University Museum (University Museum).

Native American Healing; Nancy Post, a Health and Wellness teacher who lived among the Hopi, lectures upon a tradition in which healing and religion have never parted; 7:30 p.m., Christian Association Building (CA).

March 5 *Music and Politics, an afternoon forum with guest speakers*; 2 p.m., Christian Association Building (CA).

March 6 *A Taste of Soul Food*: lecture, discussion, food; North Campus Commons Room, Nichols House (North Campus Residence—Year 102 Events).

March 7 *Phorbol Ester Receptors on Alveolar Macrophages*; Andrij Holian, research assistant professor of medicine, School of Medicine; noon, Mezzanine Room 100, Old Medical School Building (Department of Pharmacology).

The Boundaries of Orthodoxy: A Folkloric Look at the UFO Phenomenon; Peter M. Rojcewicz; 4 p.m., 401 Logan Hall (Folklore and Folklife Colloquia Series).

Darwinism and the Origins of Ethnology; Richard Burkhardt, Jr., University of Illinois; 4 p.m., 107 Smith Hall (Spring Workshop Perspectives on Darwinism).

Lectures on Nonlinear Problems; Louis Nirenberg, NYU-Courant; 4 p.m., Room A-8, David Rittenhouse Laboratory (Hans Rademacher Lecture in Mathematics).

Present Status of Islet Transplantation in Diabetes; Dr. Paul E. Lacy, professor and chairman, department of pathology, Washington University School of Medicine; 4 p.m., Medical Alumni Hall, HUP (Visiting Professor Program of the Department of Pathology and Laboratory Medicine).

The Private Press Revisited: Developments Since 1971; Roderick Cave, Victoria University, Wellington, New Zealand; 4 p.m., 6th floor, Van Pelt Library (Friends of the Library Lectures).

T.V.'s Famous Quiz Scandals—Their Impact on Censorship, Past, Present, and Future; Jack Barry, Barry and Enright Productions, Los Angeles, CA; 4 p.m., Colloquium Room, Annenberg School of Communications (Communications Colloquium).

Fresh Fish Poetry and Storytelling Series: storytelling by Ray Gray, a tale-teller from the Pittsburgh area; 7:30 p.m., Christian Association Building, admission; \$2 (CA and the Folklife Center of International House).

March 8 *Invention and Writing*; Richard Young, Carnegie-Mellon University; 11 a.m., Van Pelt Library Conference

Room (The Writing Across the University Program).

Does Membrane Lipid Peroxidation Play a Role in the Pathogenesis of Anthrocycline Cardiotoxicity? Dr. Edward Minnaugh, National Cancer Institute, N.I.H., Bethesda, Maryland; 12:30 p.m., Physiology Library, 4th floor, Richards Building (Respiratory Group of the Department of Physiology, Department of Anesthesiology).

Lectures on Nonlinear Problems; Louis Nirenberg, NYU-Courant; 3 p.m., Room A-8, David Rittenhouse Laboratory (Hans Rademacher Lecture in Mathematics).

Why Do Women Live Longer than Men?; Ingrid Waldron, associate professor, department of biology; 3:30 p.m., Room 113, Nursing Education Building (Center for the Study of Aging Faculty Seminar Series on Aging).

March 9 *Nerve-Muscle Synapse Formation in Tissue Culture*; Lee L. Rubin, assistant professor and Andre and Bella Meyer Fellow, The Rockefeller University; noon, Mezzanine Room 100, Old Medical School Building (Department of Pharmacology).

Jewish Liturgical Chant in the Hungarian Tradition: An Ethnomusical Approach; Judit Laki; 12:15 p.m., Graduate Lounge, 233 Houston Hall (GSAC Lunchbag Seminars).

Shakespeare's Heroines: A View by Charlotte Perkins Gilman; Georgianna Ziegler, assistant curator, Furness and Special Collections; 12:15 p.m., Women's Studies Office, 106 Logan Hall (Brown Bag Seminars).

Lectures on Nonlinear Problems; Louis Nirenberg, NYU-Courant; 3 p.m., Room A-8, David Rittenhouse Laboratory (Hans Rademacher Lecture in Mathematics).

Poetry Reading by W.D. Snodgrass, author of *Heart's Needle, In Radical Pursuit, and The Fuhrer Bunker*, and Pulitzer Prize winner; 4 p.m., Annenberg School Auditorium (The Writing Program, department of English, Leon Lecture Committee).

March 10 *Complex Computer Modeling of Metabolic Systems*; D. Garfinkel, professor of computer information and science, SEAS; 11 a.m., Alumni Hall, 1st floor, Towne Building (Department of Bioengineering, School of Engineering and Applied Science).

Burma's Role in International Politics; Frank N. Trager, research professor, Department of National Security Affairs, Department of the Navy; 11 a.m., Room 2, University Museum (South Asia Regional Studies Seminar).

Lectures on Nonlinear Problems; Louis Nirenberg, NYU-Courant; 3 p.m., Room A-8, David Rittenhouse Laboratory (Hans Rademacher Lecture in Mathematics).

Peripheral Auditory Function in the Ear: Middle Ear and Cochlear Mechanisms; Dr. James C. Saunders, department of otorhinolaryngology and human communication; 4 p.m., Physiology Library, 4th floor, Richards Building (Department of Physiology, Pennsylvania Muscle Institute).

Elizabethan Playscripts and Modern Interpreters; Alan Dessen, professor of English, University of North Carolina at Chapel Hill; 4 p.m., 6th floor, Van Pelt Library (Department of English Spring Lecture Series).

To list an event

Information for the weekly *Almanac* calendar must reach our office at 3601 Locust Walk/C8 the Tuesday prior to the Tuesday of publication. The next deadline is March 8, at noon, for the March 22 issue. There is no issue March 15 due to spring recess.

