

Almanac

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NEWS IN BRIEF

TRUSTEES: ELECTION AND REELECTION

At their May meeting, the University Trustees named Ernest Scott a Life Trustee Emeritus and elected Term Trustee John Eckman a Life Trustee. Mr. Scott, chairman of Pepper, Hamilton and Scheetz, is also among the University's honorary degree candidates this year (below). Mr. Eckman is president of Rorer-Amchem, Inc.

Four Term Trustees were reelected at the May meeting: the Hon. A. Leon Higginbotham of the U. S. District Court; General Electric Company chairman Reginald H. Jones; Charles S. Wolf, president of York Container Corporation; and Franklin D. Murphy, chairman of the Times Mirror Company, Los Angeles. Alumni Trustee, Julian Burs, President of Burs & Co., Inc., was named a Term Trustee.

COMMENCEMENT: HONORARY DEGREES

Along with its 4,972 regular degrees, at Commencement May 21 the University will award ten honorary doctorates to distinguished leaders in industry, government and education, and an honorary master of arts degree to a lady described as "the right arm of Provosts" by one of the six living Provosts she has worked for.

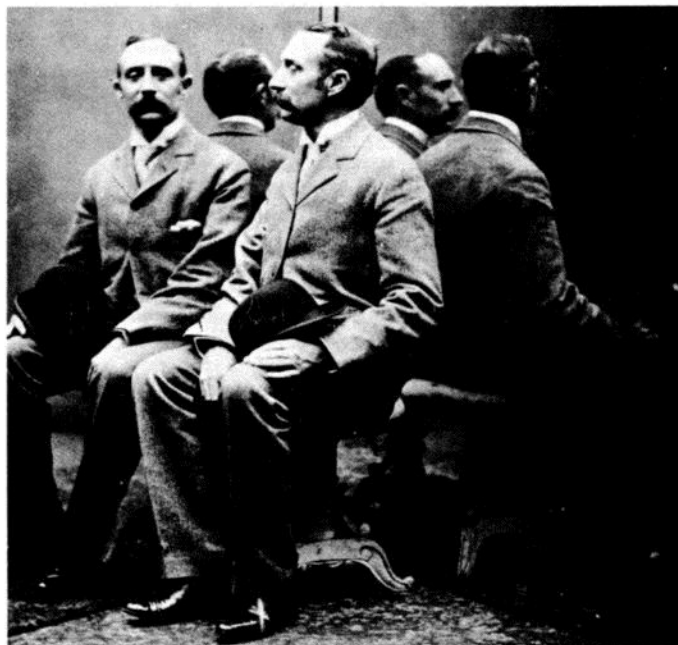
Miss Mary Crooks, now assistant to Provost Eliot Stellar, has been at the University since 1924 and has been aide to seven Provosts in all, plus a President and an academic Vice President early in her career.

Honorary Doctor of Science degrees will be awarded to the three Penn men who won the Nobel Prize this past year: Professor J. Robert Schrieffer and alumni Christian Anfinsen and Gerald Edelman.

Doctor of Laws degrees will be conferred on the Commencement speaker, the Rt. Hon. Roy Jenkins, Deputy Leader of the Labour Party in Great Britain; former U. S. Ambassador to Sweden Jerome Holland; former University of California Chancellor Clark Kerr, now chairman of the Carnegie Commission on Higher Education; Leon Levy, 1915 dental alumnus who is honorary board chairman of DRT Industries and chairman of the Atlantic City Race Course; Trustee Ernest Scott, College '25 and Law '29, chairman of Pepper, Hamilton and Scheetz; George Shultz, Secretary of the Treasury of the U. S.; and Emeritus Professor Morris Viteles, an alumnus who was dean of the Graduate School of Education 1963-67.

ALMANAC TAKES A SHORT BREAK

Like the rest of the University, *Almanac* must make some adjustments in its service to make ends meet this spring. To do so, we will skip the May 15 and May 22 publication dates, and come out May 29 with a final issue of the term. It will include coverage of the three Council meetings (May 9, 14 and 23), along with 1973-74 budget information, AAUP salary comparisons and Lindback Award winners. Faculty who will have left the campus by May 29 should arrange for their departments to forward *Almanac* to them; we have no postage budget. And anyone expecting to publish information in the final May 29 issue should give warning immediately: Ext. 5274.



Alfred Fitler Moore Started It . . . Page 4

HEBREW LITERATURE: DR. JUDAH GOLDIN

Dr. Judah Goldin, who has been professor of Classical Judaica at Yale University since 1962, has been named Professor of Post-Biblical Hebrew Literature in the Department of Oriental Studies here, in an appointment made possible by the Reinvestment Fund.

Dr. Goldin is an international authority in midrashic literature. His translation and commentaries of classical texts, including *The Living Talmud*, *The Fathers According to Rabbi Nathan* and *The Song at the Sea*, are regarded as classics, and his *Period of the Talmud* contribution to L. Finkelstein's *The Jews* is considered a standard work in the field. He has taught at Duke, the University of Iowa, Columbia and the Jewish Theological Seminary, where he was dean of the College of Jewish Studies from 1952 to 1958.

Rabbinic literature occupies a pivotal position in Pennsylvania's Oriental Studies Department, bridging the gap between ancient and medieval periods and uniting areas covered by several departments, including Oriental Studies and Religious Thought. The tradition of Jewish studies here dates back to the 1880's when Penn became the first major university to establish a chair in rabbinic literature.

COLONIAL PENN CENTER: MAY 12

Senator Henry Jackson is expected to speak at opening ceremonies for the Colonial Penn Center, the new home of the Leonard Davis Institute of Health Economics. Both the Center and the Institute were made possible by gifts of the Leonard and Sophie Davis Foundation. Mr. Davis, director and chairman of the executive committee of the Colonial Penn Group of life insurance companies, and Mrs. Davis, President Meyerson and Dean Carroll will

(Continued on page 8)

Report on University Life

In a 75-page final report available at the Office of the Secretary (112 College Hall) the University Council's Joint Subcommittee on University Life has issued 55 recommendations which will be presented for discussion at the May 14 special meeting of Council. The thrust of the report, the chairman notes, is to "achieve the Integrative Educational Life and to minimize the risk that life on campus will be compartmentalized into academic and nonacademic components." Following are text of the introduction and a summary of the recommendations in the full report.

INTRODUCTION

The quality and character of a university depend upon the richness, intensity, and seriousness of its intellectual life. These in turn depend upon a consistent concern with what goes on outside as well as inside the classroom. The type of life we envision is the Integrative Educational Life (IEL) which we articulated in our Preliminary Report (*Almanac*, October 10, 1972). In this report we propose the development of a coherent pattern of educational life to help create a true community of interests and contribute positively to the educational aims of the University. The organization of this report is essentially that of the Agenda published in the above issue of *Almanac*.

Morris Mendelson, Chairman	Alan C. Kors
Vincent Conti	John D. Minyard
Clifford H. Jordan	Diane Willing

RECOMMENDATIONS

1) That the University endorse the policy of the integration rather than segregation of freshmen and that the necessary steps be taken by the proposed Vice Provost for University Life and the proposed Director of Residence and Off-Campus Housing to begin the mixing of freshmen in the general residential pattern after the next academic year.

2) That the University reduce the occupancy level of Hill House to approximately four hundred. If this is done, the proposed Director of Residential Programs and Life should work with representatives from Hill House on the reformulation of their development program to include all four classes.

3) That the proposed Director of Residence and Off-Campus Housing work with his staff, and the proposed Director of Residential Programs and Life, on a plan to implement an area retention policy in accordance with the framework, both in structure and spirit, outlined [in the Report on University Life].

4) That the proposed Vice Provost for University Life and the proposed Director of Residence and Off-Campus Housing use High-Rise North for undergraduate housing.

5) That the proposed Director of Residence and Off-Campus Housing establish an affiliation of non-resident students with residential units.

6) That the proposed Director of Residence and Off-Campus Housing and the proposed Director of Residential Programs and Life be concerned with the selection of residential life staff that can contribute to the intellectual vitality of their areas and that, apart from exceptional circumstances, such positions be reserved for graduate students, both as a means of fostering an Integrative Educational Life and of supporting graduate education.

7) That the proposed directors of the various residential units form a council to be chaired on a rotating basis or by the proposed Director of Residence and Off-Campus Housing.

8) That the proposed Director of Residence and Off-Campus Housing encourage the participation of students in the administration of their residences on the model of the bodies existing in Hill House and Van Pelt College House.

9) That an information service be reinstated which would list off-campus housing approved by the University.

10) That the University continue to support educational-residence programs and proceed with the development of those

recommended in the Development Commission Report for the four new houses in the Quad, subject to the reservations in the last paragraph on page 16 [of the Report on University Life].

11) That the Master of an educational-residence program have authority over the selection of staff and the space utilized by the program.

12) That the proposed Director of Residential Programs and Life encourage diversity among the programs and allow each program enough autonomy so that it may develop in ways that follow naturally from their own particular circumstances.

13) That educational-residence programs open and publicized to members of the University who are not members of the program and the participation of the community be encouraged where feasible.

14) That the Masters of educational-residence programs constitute a council which will meet periodically in order to review outstanding problems.

15) That all members of the full-time faculty should be provided with comfortable and adequately appointed individual offices.

16) That Deans should undertake an assessment of the adequacy of both commons rooms and extracurricular activities in promoting the integration, interaction and collegial life of their academic units, and insure that budgetary funds be allocated to correct such inadequacies as are found to exist.

17) That the proposed Advisory Committee to the Provost on Dining Services should monitor and review the relationship between the policies of Dining Services and the needs of the educational community.

18) That the University should encourage, wherever feasible, the allocation of spaces in special residential programs to permanent faculty residents and to short-term academic visitors to the University.

19) That the University should encourage the development of faculty-affiliate programs for all residences and student groups on a mutually voluntary basis, along the lines of the Hill House and Van Pelt College House models.

20) That the University should consider a faculty member's participation in the extracurricular life of the educational community as an important element of her or his service to the University.

21) That the University undertake the steps necessary to provide better lighting, particularly along major walkways. The heavily traveled routes, such as the routes from the residences to the libraries should be *corridors of light*. In addition, emergency telephones should be kept fully functional (it has been estimated that perhaps as many as one third of the existing telephones do not operate), and a security force should be maintained at such size and quality that it can competently patrol the campus area and handle such incidents as may arise. While we recognize the successful efforts of the women's group which recently brought special attention to the security problem and the University's responsibility in solving it, we feel that the problem must remain a high priority until students, faculty and staff can traverse the campus and reach 30th Street Station in the evenings with confidence.

22) That, while the University has no direct control over security in the West Philadelphia community, it provide bus service to 30th Street Station if SEPTA does not and negotiate with the City of Philadelphia to extend the hours of the loop bus from center city and to provide better lighting, security and access to the off-campus residential areas.

23) That the Panel of Community Advisors be made responsible to the proposed Vice Provost for University Life and that the Panel be encouraged to assume an active role in mediating such problems as may arise between the University and the community, while actively working with the City of

Philadelphia to improve security and schools (particularly elementary schools) in the University area.

24) That the renovation and redevelopment of the Houston Hall facilities be completed as rapidly as possible and that the reshaped complex include specifically a rathskeller, an arts and crafts center, an art gallery, a grille, a refurbished auditorium, and refurbished lounge facilities.

25) That the University proceed as rapidly as possible with the development of a park as an outdoor center for campus interaction at the 40th and Walnut Streets site, the park specifically to include facilities for theatrical and musical performances, an outdoor cafe, a bazaar, recreation, and art display.

26) That the Deans encourage the development of additional common space facilities in departmental areas in the manner already provided for anthropology in the University Museum, for the philosophy department in Logan Hall, for the department of religious thought in Duhring Wing, for the MBA program in Vance Hall, and for Ph.D. students in Dietrich Hall; suitable areas can be found in Williams Hall, College Hall, and other campus buildings.

27) That the University investigate the possibility of providing outdoor cafes on the Junior Balcony above the McClelland Lounge, on the terrace between the Graduate Towers and especially in the plaza outside the Class of 1920 Commons.

28) That the proposed Director of the Arts encourage the development of an outdoor theater in the Quadrangle (see *Daily Pennsylvanian* March 9, 1973), and seek ways to develop a program of outdoor performances by musical groups and outdoor art exhibits in the plaza areas of the campus and along Locust Walk.

29) That the University investigate expanding and improving the facilities of the Bookstore as a center for interaction furnished with facilities appropriate to its principal role (such as a periodicals room, a reading room, etc.).

30) That the University plan to expand the number of specialized activities rooms in the residential complexes, when the residence crisis abates.

31) That in choosing the firms to which commercial space is rented the Vice President for Business and Financial Affairs be directed to consider their potential contribution to the University's purpose and character, specifically encouraging those which can foster an Integrative Educational Life, such as coffee houses, bookstores, restaurants, music stores, and crafts stores of high quality.

32) That there be established a Division of University Life that includes within its area of jurisdiction, among other things, the present areas of jurisdiction of the Vice Provost for Undergraduate Studies and the Dean of Students.

33) That the head of the Division of University Life have the rank of Vice Provost and be designated as the Vice Provost for University Life.

34) That as a matter of policy the Vice Provost be a person with academic stature.

35) The Division of University Life is to be divided into six operating units: The Arts, Campus Activities, Residential Programs and Life, Academic Programs, Advising, and Admissions and Financial Aid. Each of these units is to be headed by a Director.

36) That one of the Directors be designated the Executive Director.

37) That the unit headed by the Director of Residential Programs and Life include an office of Off-Campus Housing to help

students identify suitable off-campus accommodations and offer guidance in the negotiation of leases.

38) That the counselling service be organized in the fashion indicated in the text of the Report [on University Life] in the section on supportive services and on pages 38-40.

39) That all the advising services, other than school or departmental advising, including placement, be brought together and be included in the advising unit of the Division of University Life.

40) That a coordinator of academic advisors be appointed and that coordinator have the functions indicated in the text of the reports under the discussion of the Director of Advising.

41) That a Director of the Arts, responsible to the Vice Provost, be appointed. The Director should be responsible for all types of nonacademic artistic exhibitions. The Director should be knowledgeable in music, dance, theatre and the visual arts.

42) That a Council of the Arts, including representatives from the various departments concerned, other members of the University community—including students, and persons in the arts to formulate policy and advise the Vice Provost be appointed.

43) That the University Council appoint an ad hoc committee to explore the desirability of appointing three coordinators—a coordinator of theatre and cinema, a coordinator of visual and plastic arts, and a coordinator of musical activities—to aid the Director of the Arts.

44) That the President appoint an inquiry committee to determine the extent to which it is desirable and possible to make the units operated by the various Directors responsibility centers.

45) That the office of Assistant to the Vice Provost be established. The Assistant to the Vice Provost is to be a staff officer, not a line officer, and one of his functions is to be to monitor the Division's organization to make sure it remains appropriate to the needs of the campus.

46) That the Vice Provost for University Life initiate an inquiry into the feasibility of establishing a council of religious associations to act as an advisory group to the director of Campus Activities.

47) That there be established a staff conference attached to the office of the Director of the Arts. The conference is to include appropriate members of the Director's staff and the appropriate members of the corresponding academic units. The purpose of this conference is to coordinate the efforts of the Director and his staff with those of the corresponding academic units.

48) That a recreation coordinator be appointed.

49) That the area of jurisdiction of the Buildings and Grounds Supervisor and his staff assigned to the Superblock be extended to the other dormitories.

50) That for each of the following services: dining, parking, security, residence maintenance, and the bookstore, the Provost shall appoint an operating committee that shall include both faculty and students to oversee the operation of the service with which it is charged. The Provost is to choose a chairman for each committee from among the faculty and students on that committee. Each committee shall hold an advertised open meeting at least once a year to permit dialogue between the administrators of the service in question and its users. Each committee shall submit a report annually to the Provost, the Vice President in charge of the service, and the appropriate Council committee.

51) That an investigation of the possibility of making the manager of the Faculty Club responsible to the Vice Provost and making the Board of Governors of the Faculty Club advisory to the Vice Provost be undertaken.

52) That the University periodically hire consultants to determine the efficiency with which the various units in the Vice Provost's office are run.

53) That the management of the residences be reviewed to determine whether lingering adherence to the old philosophy of *in loco parentis* results in staffing errors.

54) That Security train dormitory receptionists, and other residence personnel if necessary, in proper security procedures and that Security monitor the practices of the personnel so trained.

55) That the parking facilities be made more flexible so that those who drive to participate in evening activity can find parking facilities near the event.

MORE ON UNIVERSITY LIFE

The recently-issued Report of the Senate Ad Hoc Committee on Students discusses in detail some aspects of residential living programs now in progress. It is now available from the Office of the Secretary. Also available on request are the October 10 *Almanac* referred to here, and reprints of a March 13 article, "Questions and Answers on Living-Learning Programs," by Director of Residential Programs Margo Marshall.

From now through next January, the Moore School celebrates its 50th anniversary year with a series of professional programs and special events. In preparation, here is a condensation of a short history being circulated by the School.

The Moore School: A 50th Anniversary View

The Moore School was established in 1923 through a bequest of Alfred Fitler Moore, head of an old Philadelphia business enterprise that got its start in 1820 providing wire for use in bonnets and hoopskirts. When Samuel F. B. Morse telegraphed "What hath God wrought?" from Washington in 1844, it was over copper wire made by Mr. Moore's father, Joseph, and grandfather, Abednego Moore.

Alfred Moore's estate provided funds to endow a memorial to his parents: a school of electrical engineering. Foreseeing that a first-rate engineering school would need the intellectual nourishment of a major university, the trustees of the Moore estate gained the consent of the Orphans' Court to locate the new school at the University of Pennsylvania.

SEEDS OF THE FUTURE

The Moore School was favored from the start by Harold Pender's leadership. A scientist who had first demonstrated quantitatively that a moving electrical charge produces a magnetic field, he was to be dean for the School's first 26 years.

Under Dean Pender the early curriculum was based not only on scientific principles, but on cultural and social content—ingredients then rare in engineering education. A two-year collateral reading program, for example, exposed the students to ideas ranging from Plato's to those of the President's Budget Message. It was the germ of a requirement set many years later by the nationally-recognized accrediting agency.

In 1926 the Moore School moved into a building of its own (once a musical instrument factory) at 33rd and Walnut Streets. A third floor was added in the 1940s; in 1959 the Harold Pender Laboratory was built and, in 1967, the glass-faced Graduate Research Laboratory.

Initially the Moore School was an undergraduate school. Its technical interests, like those of the profession, were focused mainly on the generation and transmission of power and on communication. But interdisciplinary research at Moore pioneered new fields. One faculty member working with a Penn medical scientist developed the first X-ray equipment that could show the heart at a given instant of its cycle; it was the beginning of the School's leadership in radiologic physics and bio-engineering. Another professor explored servo-mechanisms, presaging automation—though a major company declined to support his work on the grounds that feedback theory and practice were of little importance.

During the 1920s, when Philadelphia was the chief manufacturing center for radios, a Moore faculty member and chemistry professor together developed the coated resistor, which helped to produce world-wide radio and, later, television broadcasts. At the end of the decade, Moore School introduced the nation's first evening program leading to the master's degree in electrical engineering. Now the graduate program prepares more than 550 candidates, nearly half of them for the Ph.D.

THE PROPHETIC THIRTIES

Years before most of its sister institutions, the Moore School offered a graduate program for full-time students, as if foreseeing the future demand for research and development personnel with master's and doctoral credentials.

The School began a major thrust in applied mathematics, including high-speed computation. It built two of the earliest "mechanical brains"—differential analyzers based on a prototype developed at M.I.T. One of these it delivered to the Army; the other it kept for its own research.

It also did promising work in analysis of nonlinear circuits and electromagnetic radiation. It "bounced" signals not only off the ionosphere, but also off distant water tanks—anticipating radar. The "sound prism" was developed at the Moore School; it was the first device for showing a continuous spectrum of an audible signal.

BIRTH OF THE COMPUTER

When World War II called for new feats of technology, the Moore School was prepared. Its early war work in radar, short-distance communication (underwater as well as overland) control systems, circuitry and the development of cloak-and-dagger devices all contributed to the Allies' success. But all of these accomplishments were to be overshadowed by ENIAC.

Having built and used differential analyzers, the Moore School had a background in machine computation. One of its war research groups, meanwhile, had designed an advanced numerical counter. The School also had a record of successful research management. So the Moore School was given the mathematical task of compiling ballistic tables for Army artillery, using "Differential Annie" and several hundred people whom it trained for this work. As new weapons were introduced and new war fronts were opened up, however, the demand for these calculations mounted and the task of compiling and training grew.

Meanwhile, Dr. John W. Mauchly, a physicist with an interest in forecasting weather by mathematical methods, had come to the School to take a short course in electronics; he stayed to join the faculty. Dr. Mauchly had struck up a friendship with his young lab instructor, J. Presper Eckert, Jr., who had played the leading part in designing the numerical counter.

The upshot of these circumstances was that Dr. Mauchly wrote a memorandum to Dr. J. G. Brainerd, then Director of the Moore School, in which he envisaged a computing system of circuits and vacuum tubes that would be able to perform calculations for firing data or anything at a speed far greater than any mechanical device. Accepting the risks involved in a project of this magnitude, Dr. Brainerd prepared and submitted an extensive proposal to the Ballistic Research

Laboratory of the Aberdeen Proving Ground, which was accepted in June, 1943.

Through its work of the preceding ten years, the Moore School developed a combination of background experience and knowledge which was probably unique, and such that enabled farsighted discussion of an electronic computer. At the remarkably low cost of \$450,000, a group of highly qualified engineers, including Eckert (later chief engineer) and Mauchly and administrators researched, developed and designed the Electronic Numerical Integrator and Computer. ENIAC was built in the Moore School by a work force of women and telephone repairmen under the supervision of Joseph Chedaker. Unveiled publicly in February, 1946, the ENIAC was the first large-scale, general-purpose all-electronic digital computer.

Part of ENIAC is now at the Smithsonian Institution. From the Moore School, moreover, came not only the computer, but also many of the founders and leaders of the great new industry that sprang up for its manufacture and applications.

WORDS INTO PLOWSHARES

One thing that America learned from the war was that organized brainpower could work near wonders. Together with the availability of the computer, this lesson led to the postwar "R&D" boom epitomized by the space program. Postwar demand for creative, adaptable engineers and for new engineering knowledge stimulated the growth of both the Moore School's enrollment and its research activities.

In the light of the Moore School's wartime accomplishments, Uncle Sam turned again to the School during the Cold War era for highly sophisticated research into various aspects of national security. Concurrently with the work, however, the School continued to build upon its early leadership in the computer field, electro-medical development, and other applications of technology to civilian needs.

In the mid-fifties the School resolved to make its graduate program the national leader; within 15 years it had succeeded. In 1969 it awarded 226 degrees, of which 54 were Ph.D's and 136 master's—making it one of America's largest producers of graduate degrees in electrical engineering, if not the largest. Practicing engineers in the Delaware Valley, many of whom are taking courses in their own plants via the School's 2500-megahertz TV setup with two-way voice, still benefit from the graduate program.

LOOKING AHEAD

In the 1970's, research directed to human and social needs has grown to the point where it now strongly characterizes the School.

Power—the School's paramount interest at its founding—has again become a subject of national interest. In this area, the Moore School has been involved in studies dealing with interconnecting high-voltage AC and DC transmission lines and it is a partner with several other University departments in the work of the National Center for Energy Management and Power.

Transportation, pollution control, wildlife management and the civilian uses of holography are among the School's other people-oriented research interests. So are computer applications to management, the graphic arts, linguistics, history, psychology and even musical composition.

Many of the Moore School's recent advances have grown out of its traditional interest in human health. With faculty members of the School of Medicine, its investigators have

been the first to freeze, thaw and re-implant successfully the kidney of an animal. They have also helped to build a computer model of the human circulatory system and they are refining the uses of ultra-sound as a surgical implement and as a potential pain-killer for arthritis.

Dr. Carl C. Chambers, Dr. Brainerd, Dr. S. Reid Warren and Dr. Cornelius N. Weygandt lead the list of dozens of faculty members, past and present, whose instruction and discoveries have made the School an exciting place.

Now, under its present Director, Dr. Harvey L. Garner, the Moore School looks to the future. For the next half-century, its highest hope is to help society to realize to the fullest the human benefits that have been brought within view by these "fifty years that changed the world"—and to build upon that strong foundation an equally rich and successful structure for learning.

THE MOORE SCHOOL AT ALUMNI WEEKEND

Alumni, faculty and staff attending Alumni Weekend May 18 and 19 can take part in a Moore School Open House, hear a seminar on "Technology for People" and sandwich at least six demonstrations between rounds of refreshments under the tents on the Dorm Quad:

Open House is from 12:30 to 2:30 and from 4 to 5 p.m. Friday at the School, 33rd and Walnut. Faculty will demonstrate educational television, the Spectra '70 computer, solid state labs, optics research, holography and lasers and biomedical engineering.

"Technology for People", Friday at 2:30 p.m. in Alumni Hall of the Towne Building, is moderated by Dr. Harvey L. Garner. Panelists are Dr. Abraham Noordergraaf on "Heading Off Consequences of Heart Attacks"; Dr. Jay Zemel on "What's Left for Science and Technology to do in the '80s?"; Dr. Cornelius Weygandt on "Is the Energy Crisis for Real?" and Dr. Nabil Farhat on "Tools of Tomorrow: Lasers and Holography."

On the Quad Saturday from 11 a.m. to 2 p.m., Dr. Octavio Salali runs a two-way hook-up that lets visitors talk back to the Engineering educational TV studios; Dr. Noordergraaf simulates the human cardiovascular system by analog computer; and there are demonstrations of computer graphics by William Park, solar energy by Martin Wolf, organ preservation by Dr. Frederick Ketterer and lasers and holography by Dr. Farhat.

OTHER ALUMNI WEEKEND EVENTS

Less futuristic activities are also scheduled for alumni and the University community:

Friday, May 18

- 1 p.m. *Traditional Locust Walk Luncheon*, following a 12:30 sherry reception. Provost Eliot Stellar will review the Development Commission report. Locust Walk in front of Dietrich Hall; rain location, basement gallery, Fine Arts Building. Tickets: \$4.50
- 3:30 p.m. *May Bowle* for Alumnae of the School of Medicine. HUP Medical Women's Lounge. By invitation only.
- 5 p.m. *Reception* prior to 6 p.m. *Theater Buffet Supper* Alumni Dining Room, Faculty Club. Tickets: \$6
- 8 p.m. "It's About Time," Rerun of this year's Glee Club show, Zellerbach Theater, Tickets: \$1.
- 9 p.m. *Senior Class Party*. Hot dogs, beer, and rock music at the Quad, 37th and Spruce; rain location, grill room, Houston Hall.

Saturday, May 19

- 9:30 a.m. *Coffee hour* in honor of the Class of 1923 alumnae. Vance Hall.

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ALUMNI WEEKEND Continued

10:15 a.m. *Campus Bus Tours*. Departing every half hour from the northwest corner of 37th and Spruce.

10:30 a.m. Seminar sponsored by the Education Alumni Association. Williams Auditorium, Vance Hall.

11 a.m. *Alumni Day Gathering* at the Dormitory Quads. Class tents, Mask and Wig, Glee Club, the Penn band plus the Engineering exhibits, Children's Corner and free soft ice cream.

12 noon. *Picnic lunch* in the Quad. Luncheon and beverage tags: adults, \$3; children, \$1.

2 p.m. *Parade of Classes*. Down Locust Walk to College Hall green under the eye of President Meyerson.

2:30 p.m. *Concluding Ceremonies*. Steps of Van Pelt library.

Extras: Limited free parking. Saturday babysitting, with cribs and constant supervision, at McClelland Hall. Swimming at Sheerr Pool, Gimbel Gym, Friday from 11:30 a.m.-7 p.m.; Saturday from 10 a.m.-5 p.m. Class of '23 Rink: Friday, 11:30 a.m.-1 p.m.; 8 p.m.-10 p.m.; Saturday, 2-4:30 p.m.; 8-10 p.m. Skates for rent.

Tickets for meals are available at the Alumni Relations Office, Ext. 7811. Please notify that office if you wish to attend seminars or the Senior Class party.

HONORS

AMERICAN PHILOSOPHICAL SOCIETY

Three professors have been elected members of the American Philosophical Society: *Dr. Ward Goodenough*, Anthropology; *Dr. Michael H. Jameson*, Classical Studies; and *Dr. James B. Pritchard*, Religious Thought.

HONORS IN BRIEF

Dr. Mark J. Dresden, Iranian Studies, has been elected president of the American Oriental Society and *Dr. Albert J. Stunkard*, Psychiatry, was named president of the American Psychosomatic Society. *Dr. Fay Azjenberg-Selove*, Physics, takes office as the first woman chairman of the nuclear physics division of the American Physical Society.

Dr. Roland Frye, English, has been appointed to a one-year Fellowship at the Institute for Advanced Studies in Princeton. *Dr. Arnold Thackray*, History and Sociology of Science, has been elected a Fellow of the Center for Advanced Studies in the Behavioral Sciences at Palo Alto; he will take up the fellowship next January.

THINGS TO DO

ICA PORTABLE PREVIEW. "Made in Philadelphia" exhibit expands to the city and spray paint takes over SEPTA buses at the opening of Philadelphia Festival '73. ICA is sponsoring a bus tour with musicians, lemonade, cookies and ice cream to unexpected sculptural projects. Buses depart from 34th and Walnut May 12 at 1:30 p.m. Reservations \$2, Ext. 7108.

FILMS BY WOMEN. Thirty-four films spanning 51 years of cinema history. Annenberg Auditorium, Thursday evenings May 17-June 28, 7:30 p.m. Admission: \$1.

LANGUAGE OF MOVEMENT AND DANCE. Final lecture in a series on ethnochoreology presented by *Dr. Nadia Chilkovsky Nahumck* of the University Museum will emphasize choreographic design and dance traits such as masks, props and costumes. Performing Arts Gallery, University Museum, May 19, 11 a.m.

CLASSICAL JAPANESE LITERATURE: The Visual Dimension. Exhibit of classical and medieval Japanese manuscripts given to the University by *Dr. Saburo L. Kitamura*. Van Pelt Library through June.

COUNCIL

MAY 9 REGULAR MEETING

Incoming members of Council will attend the May 9 meeting along with present Council members, with current members voting on old business and incoming members voting on new business before Council.

The agenda will include election of the faculty component of the Steering Committee for 1973-74 from the following slate:

Nominations for two faculty members from those eligible to continue: *Jean Crockett*, *Ward H. Goodenough*, *Philip G. Mechanick* and *Peter C. Nowell*.

Nominations for the three remaining faculty positions: *Morris Mendelson*, *Benjamin F. Hammond*, *Howard Lesnick*, *Phoebe S. Leboy*, *Thomas H. Wood*, and *Maria Z. Brooks*.

Undergraduate and graduate student nominations will be announced in the fall.

Council will also consider the following Steering Committee resolution on tenure and promotion:

Personnel recommendations of the Schools, which involve favorable actions on appointment, reappointment or promotion of significance in the tenure system of the University, are reviewed by the Provost upon presentation by the appropriate Dean. In each case, all relevant information compiled and all views, including dissenting views, at the department and school level, should be included in the Dean's presentation.

Among the matters on which the Provost seeks assurance is the full compliance with all procedural standards for appointments, reappointments, and promotions, including guidelines on affirmative action. If the file is insufficient or if it is apparent that procedural irregularities have occurred, the matter will be referred back to the Dean for corrective action.

The Provost communicates his decision to the Dean, who in turn informs the faculty or faculty committee, as appropriate. It is recognized that only in extraordinary circumstances does the Provost act favorably on an appointment, reappointment or promotion contrary to the advice of the faculty concerned. Such decisions are not forwarded to the Trustees until the Provost has informed the Dean in writing of the recommended action and of the reasons therefor. It shall be the responsibility of the Dean to communicate this information to the Personnel Committee of his School. The Dean shall report the response of the School to the Provost, after which the matter shall be reexamined.

The decisions of the Provost, after approval by the President, are transmitted by him to the Trustees for final action. Actions of the Trustees are minuted and communicated by the Secretary of the Corporation to the individuals concerned as well as to the Provost, appropriate department chairman and Deans.

Council will continue its deliberations on the Whitney Report (Educational Policy Committee's response on Development Commission, *Almanac* March 20), and will begin discussion on the Mendelson Report (summary on page 2 this issue).

SPECIAL MEETINGS MAY 14 AND MAY 23

The Mendelson Report is the single agenda item for the special meeting *Monday, May 14 at 3 p.m.* in the Council Room. At a second special meeting *Wednesday, May 23 at 4 p.m.*, the agenda will include continuation of the Mendelson Report, plus the Report of the *ad hoc* Committee on Representation in University Governance.

NEH SENIOR FELLOWSHIPS: JUNE 18

The National Endowment for the Humanities is offering grants to support six to twelve months of study by experienced scholars, teachers or others who have produced significant work in the humanities. The award enables applicants to do further research in special fields or to undertake more general study.

Language, linguistics, history, philosophy, the arts and aspects of the social sciences which employ humanistic methods are among subjects eligible for support. In recognition of the American bicentennial, the Endowment has a special interest in studies relating to the Revolutionary era and the development of the ideals and institutions of the times. Proposals to study the ways in which these ideals and institutions have affected the modern world are particularly encouraged.

The Senior Fellowship carries a maximum stipend of \$1500 per month. Fellows may not hold other major fellowships or grants except for grants or sabbaticals from their own institutions. They must devote full time to their Fellowship study. Deadline for application is June 18; announcement of awards will be in mid-November, 1973. For information and application materials, write: Division of Fellowships, National Endowment for the Humanities, 806 15th Street, N.W., Washington, D.C. 20506.

GRANTS

SPONSORED RESEARCH

A Summary of Contracts and Grants for Research and Related Activities Received by Faculty Members during March 1973

PUBLIC HEALTH SERVICE: *A. Kaji* (Microbiology/Med) "Biochemical Control of Macromolecule Synthesis" \$50,051 . . . *P. Sterling* (Anatomy) "Anatomy and Physiology of Visuo-Motor Systems" \$44,432 . . . *D. Berkowitz* (Biochemistry/Med) "A Biochemical Genetic Study of Bacterial Lipids" \$34,662 . . . *W. Donawick* (Clinical Studies/Vet) "Heart Transplantation and Als Treatment" \$24,000 . . . *W. Hare* (Animal Biology) "Chromosome Studies of Mammalian Embryos" \$45,880 . . . *W. Henle* (Pediatrics) "Research Career Award" \$31,050 . . . *F. Karush* (Microbiology/Med) "Interactions of Immunoglobulins" \$96,512 . . . *P. Leboy* (Biochemistry/Dent) "Effects of Alterations in RNA Methylase Activity" \$24,000 . . . *E. Pye* (Biochemistry/Med) "Cell Growth and Enzyme Production and Applications" \$19,722 . . . *H. Rawnsley* (Pathology/Med) "Analogue and Inhibitor Studies in Clinical Enzymology" \$16,348 . . . *M. Reivich* (Neurology) "CBF and Metabolism in Stroke and Shock" \$307,669 . . . *W. Silvers* (Pathology/Med) "The Lymphocyte and Cellular Immunity" \$140,347 . . . *T. Yonetani* (Johnson Foundation/Biophysics) "Structure and Function of Respiratory Hemoproteins" \$75,672.

SOCIAL AND REHABILITATION SERVICE: *F. Furstenberg* (Sociology) "The Consequences of Unplanned Parenthood" \$67,967.

ATOMIC ENERGY COMMISSION: *S. Frankel* (Physics) "Synchrotron Research and Operating" \$200,000 . . . *D. Pope* (Metallurgy and Materials Science) "Dislocation Mobilities in Ordered Alloys" \$30,800.

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION: *C. Lambertsen* (Institute for Environmental Medicine) "Acute Acclimatizations to Subnormal PO₂ and Elevated PCO₂" \$40,000.

NATIONAL SCIENCE FOUNDATION: *F. Ajzenberg-Selove* (Physics) "Compilation of Information on the Energy Levels of the Light Nuclei" \$41,500 . . . *G. Belton* (Metallurgy and Materials Science) "Physical Chemistry of Metallurgical Slags" \$90,000 . . . *R. Erickson* (Biology) "Growth and Development in Higher Plants" \$6,500 . . . *P. Freyd* (Mathematics) "Research in Categorical Algebra" \$8,200 . . . *O. Goldman* (Mathematics) "Research in Algebra" \$14,284 . . . *W. Goodenough* (Anthropology) "Lexi-

cography and Grammar of the Language of Truk, Trust Territory of the Pacific Islands" \$38,500 . . . *W. Grigsby* (City and Regional Planning) "Private Renewal Efforts in a Declining Area" \$14,089 . . . *R. Jeffrey* (Philosophy) "Extension and Revision of Carnap's Inductive Logic" \$9,400 . . . *C. Laird* (Metallurgy and Materials Science) "High Temperature Cyclic Plasticity" \$21,799 . . . *D. O'Kane* (Graduate School of Arts and Sciences) "Graduate Traineeship Program" \$63,000 . . . *S. Shatz* (Mathematics) "Research in Algebra and Algebraic Geometry" \$13,500 . . . *E. Thornton* (Chemistry) "Origin and Interpretation of Isotope Effects: Solvolysis Mechanisms and Biochemical Studies" \$55,000 . . . *J. Zemel* (Moore School) "Variable Band Gap Emitter and Detectors" \$14,000.

GENERAL ACCOUNTING OFFICE: *J. Emery* (Wharton School) "Instruction In Automatic Data Processing and Related Disciplines" \$76,000.

COMMONWEALTH OF PENNSYLVANIA: *N. Gross* (Education) "Addiction Prevention Institute" \$50,000.

PRIVATE FOUNDATIONS, RESEARCH ORGANIZATIONS AND ASSOCIATIONS AND INDUSTRY: CRIME PREVENTION ASSOCIATION OF PHILADELPHIA: *L. Shoemaker* (Social Work School) "Day Care Program" \$20,000. FIDELITY BANK: *R. Ackoff* (Management Science Center) "Fidelity Bank—Marketing" \$30,000. GRANT FOUNDATION: *J. Sprague* (Anatomy) "Electron Microscope" \$75,000. RESEARCH CORPORATION: *J. Gardner* (Physics) "Near Neighbor Satellite NMR in Dilute Magnetic Impurity Systems" \$12,100. SLOAN FOUNDATION: *R. Hardin* (Fels Institute) "Student Task Force to Study the Problems of the Elderly in America" \$15,000. WISTAR INSTITUTE: *P. Moorhead* (Medical Genetics) "Cellular Senescence and the Control of All Proliferation" \$41,650.

SUMMARY: Contract and Grant Awards July 1972 through March 1973: 473, totaling \$28,884,152.

JOB DESCRIPTIONS ON VIEW

In an effort to keep employees abreast of the current job descriptions for non-exempt (A-3) classifications, the Personnel Services Department has set up job description books in four campus libraries for reference, open to any employee for examination. As jobs are created, revised, or deleted from our classification structure, changes will be sent to the following locations and the library department head will maintain the book:

Dentistry Library 4001 Spruce Street	John Whittock Circulation Desk
Medical School Library Johnson Pavilion 36th and Hamilton Walk	Mary Lawler Circulation Desk
Towne Scientific Library 217 Towne Building 33rd and Locust Streets	Rose Lonberger Circulation Desk
Van Pelt Library Walnut Street Between 34th and 36th Streets	Jane Bryan Reference Desk

—Barbara D'Ulisse, Salary Administrator

CLARIFICATION ON HUP COURTESY ALLOWANCE

In response to inquiry from the A-3 Assembly, it should be noted that the OF RECORD statement on HUP Courtesy Allowance benefits (*Almanac* April 10) is a statement for the forthcoming faculty and staff handbooks of the University and the benefits apply to all full-time, fully-affiliated University personnel.

—Gerald L. Robinson,
Executive Director of Personnel Services

JOB BOARDS

Personnel Bulletin #500 lists 18 A-1 and 47 A-3 position vacancies. It is posted in the twelve locations where Personnel now maintains job boards (*Almanac* April 24).

NEWS IN BRIEF continued

participate in the dedication at 11 a.m. Saturday on the lawn of the new Center at 3641 Locust Walk. The Institute's Executive Director Dr. Robert Eilers and S.S. Huebner Foundation Director Dr. Dan McGill will also speak.

CASTER BUILDING: MAY 19

The School of Social Work building will be dedicated in honor of Harold J. Caster, '21 W, at 11 a.m. ceremonies in the courtyard at 3701 Locust Walk on May 19. As announced on Founder's Day last January, the building takes its new name in recognition of the gifts of the Caster Family Foundation, of which Mr. Caster is president. Dean Shoemaker, President Meyerson and Chaplain Stanley Johnson will participate in the dedication.

SMALLEY SYMPOSIUM: MAY 25

The School of Social Work and alumni of the School will sponsor the second Ruth E. Smalley Symposium on "Educating for Social Change: A Professional School in a University" at International House, May 25, 9:30 a.m.-4 p.m. Professor June Axinn is Symposium chairman. Participants will be able to attend three of six discussion seminars with panelists from the University faculty and guests. Dean Shoemaker will make the closing address on "The Ivory Tower: Expendable or Expandable." Program information and reservations at \$10 (includes lunch) are available until May 15 at the School, Ext. 5511.

UNDERGRADUATE EDUCATION

Faculty members of the Council on Undergraduate Education have been chosen by the faculties of the various undergraduate schools, Vice Provost Humphrey Tonkin announced. The Council will be advisory to the Vice Provost and will meet shortly to establish its mode of operation and to discuss its expansion to include students, administrators and representatives of graduate and professional schools involved in undergraduate teaching. Members are:

Jacob M. Abel, Associate Professor of Mechanical Engineering; Charlotte E. Fiechter, Lecturer in History and Director of Continuing Education; Jamshed K. S. Ghandi, Associate Professor of Finance; Eugene Michels, Assistant Professor of Physical Therapy; Regina Quinn, Instructor in Nursing; Jack E. Reece, Assistant Professor of History; W. John Smith, Associate Professor of Biology; Charles A. Thrall, Assistant Professor of Sociology and Gretchen A. Wood, Assistant Professor of English.

ADMINISTRATIVE ASSEMBLY: GEORGE KIDD

Director of Auxiliary Services George Kidd, Jr., was elected Chairman of the Administrative Assembly at its annual spring meeting April 26. He takes office immediately, succeeding William G. Owen. Gloria K. Olmstead, Director of the Federal Insured Student Loan Program, takes office as secretary.

Also elected April 26 were a Chairman-elect and Secretary-elect to serve in 1974-75: Karen C. Gaines, Editor of *Almanac*, and Raymond Saalbach, Director of Memorial Programs.

Elected to two-year terms on the executive board were Helena F. Clark, Director of Placement at the Law School; Edwin M. Ledwell, Jr., Director of Residential Life; and Effie Thompson, Director of Personnel Records. (Continuing on the board will be Charles F. Farrell, Director of Administrative Affairs (Vet); John R. Kershner, Assistant to the Provost; and Barbara Oliver, Assistant to the Dean of Students.)

In his committee's Report on Economic Status, Mr. Ledwell said the administrative salary survey shows Penn administrators to be competitive with other major universities except for lower compensation to some financial management and facilities management personnel; but with a few exceptions in scientific/technical areas we are not competitive with local business and industry. The local disparity affects ability to attract and hold the best individuals, he said.

A-3 ASSEMBLY ELECTIONS: MAY 17

A-3's may elect Assembly Spokesman and two at-large members of the Steering Committee and seven of 17 nominees for the 24-member Coordinating Committee at May 17 elections. Balloting will take place from noon to 2 p.m. at the following locations:

Dental School, main lobby; Johnson Pavilion, entrance; Houston Hall, Ivy Room; Stiteler Hall, faculty lounge; Law School, room 100; Towne Building, southwest entrance.

There will be no proxy voting. Nominating Committee chairman Virginia Hill will dispense absentee ballots until noon, May 16. Information about nominees appeared in March and April issues of the A-3 Assembly newsletter; copies available from Virginia Hill, 412 FB, Ext. 6171.

APPOINTMENTS

OFFICE OF THE PROVOST

The new Executive Assistant to the Provost is Dr. James E. Davis, a former Associate Professor of Chemistry and Assistant Provost at Oakland University in Michigan. He is a graduate of Mississippi State who took his Ph.D. at MIT in physical chemistry and did postdoctoral work in biophysics at Caltech. Dr. Davis came to the University a year ago as an administrative intern of the American Council on Education, assigned to the office of President Meyerson.

The Provost also announced that he has assigned staff handling of proposals on implementation of the Development Commission Report to H. Michael Neiditch, a Commission member who headed the work team on educational living patterns. Mr. Neiditch, an alumnus and Thouron Scholar, will continue as lecturer in history and administrative fellow of Van Pelt House.

BIDDLE LAW LIBRARY

Paul Gay, formerly Assistant Librarian of Biddle Law Library, is now Associate Librarian. The promotion, wrote Dean Wolfman, "is but a token of our recognition" for Mr. Gay's 28 years of service.

DINING SERVICE

Michael Orson has been appointed resident manager of the Dining Service by Delta Management Corporation. He replaces Tom Stempkowski, who has been promoted to district manager for Delta.

FINE ARTS

Joseph T. Looby, who has been Assistant to the Vice President for Facilities Management, is now Executive Assistant to Dean Peter Shephard at the Graduate School of Fine Arts.

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