Development Commission Set Up; Six-Day Demonstration Ends

A quardripartite commission "to coordinate community and University development and as a mechanism for securing community consent to development plans" was established by the Executive Board of the Trustees February 23 (Sunday) as the result of a six-day sit-in of College Hall by students.

The commission, composed of five members each from community leaders, University of Pennsylvania students and faculty and University trustees or their representatives is "empowered to review and approve all existing plans involving future land acquisition or development of currently owned land contiguous to existing residential neighborhoods," and "to develop funds and funding sources needed for community renewal programs with a goal of establishing a community development fund with resources of ten million dollars."

The proposal also specifies that in all future University expansion which involves demolition of existing housing units, the University will undertake to guarantee the provision of "an equivalent number of housing units at equitable prices and rentals."

According to the proposal, the University will provide $75,000 a year to operate the quadrupartite commission.

DEMANDS FORMULATED

The sit-in began on Tuesday afternoon following a protest organized by the University Chapter of Students for a Democratic Society to protest the razing of homes to expand the University City Science Center, and seemed to have evolved spontaneously. Students later formulated three demands based on demands presented to the President last December. The three demands were:

- that the University City Science Center turn back land to West Philadelphia via Renewal Housing, Inc.
- that corporations represented by the Board of Trustees of the University and the West Philadelphia Corporation finance and donate money necessary to build low rent housing.
- that the University City Science Center clearly state it will not accept classified or military-related or Defense Department research.

RESEARCH POLICY APPROVED

The third demand, concerning the nature of work conducted by the Science Center, was resolved Friday, February 21 during a regular meeting of the Executive Board of Trustees. That group endorsed the February 12 action of the University Council approving a report from its Committee on Research dealing with the research policy of the University City Science Center and the relationship between the University and the Science Center. (This report had earlier been approved by the University Forum.)

The report of the Committee on Research recommends that no contract should be entered into where the needs for secrecy are so extreme as to forbid revelation of its very existence and where its general objectives and content cannot be revealed. However, reasonable time restrictions on complete openness of research would be permissible by virtue of the very nature of the undertaking.

(Continued on page 3)

Provost to Retire End of Next Year

Dr. David R. Goddard, provost of the University, has announced his intention to retire as provost at the end of the 1969-1970 academic year. Dr. Goddard, who has served as the University's chief academic officer since October 1961, will continue to serve as professor of biology.

In a recent letter to President Gaylord P. Harnwell Dr. Goddard wrote, "The time has come when I am convinced that I should resign as provost. Although I have enjoyed working with you and have appreciated your support and friendship, I am now in my eighth year as provost and I find the load is heavy. Since the mechanics of selecting a new provost are slow, I believe I should not postpone my decision. . . .

"The University has markedly advanced in the 15 years of your leadership—advanced in academic stature, in physical plant, in endowment and, above all else, in self-confidence. I am deeply honored to have been with you as provost through one-half of that period. . . ."

Dr. Harnwell has announced his intention to retire from the University presidency on or around his 67th birthday in September 1970.

Education Program Prepares Residents for Business Careers

A Community-Wharton Education Program (CWEP) to prepare community residents of Philadelphia for careers in business began last month on a scholarship basis.

The objective is to provide able community residents, without the means for continued education, a college education in the area of business administration so that each student has the opportunity to grow in the business economy at a rate commensurate with his abilities.

The program is based on the realization that minority group members have limited opportunity to become administrators, supervisors, and staff members in industry and that there are few programs to fill this gap.

Though businesses themselves are embarking on training and are opening jobs to minority groups at the unskilled and skilled worker level, they are doing much less to increase the number of minority employees at higher level jobs. The same is true for government sponsored or financed training programs. Further, though many essentially white colleges and universities are seeking to increase enrollments of minority group members, they are only slowly developing non-traditional means of recruitment, selection, orientation and instruction.

Thus, for five months, members of the following eight organizations have been trying to develop and implement a pro-

(Continued on page 4)
Committee Helps Black Students Get Into College

The Philadelphia Committee for College Placement, a clearinghouse which locates college vacancies for black high school students, has issued a call for high school seniors due to graduate in June.

P.C.C.P. works with some 200 colleges across the nation, its executive director Peter Conn said, and it now has two offices where teenagers may come for free counseling.

His own office in the basement of Bennett Hall is open on a “drop-in” basis from 2:30 to 4:40 p.m. five days a week, so that youngsters can come in after school without appointments. Mr. Conn is an English instructor at the University.

In the Center City branch (at 1803 Market Street) P.C.C.P. Project Director Robert R. Byrd keeps the office open from 9 a.m. to 5 p.m. daily, and makes appointments for students at other hours convenient to their school and work schedules.

On the Pennsylvania campus, where P.C.C.P. originated as a volunteer effort, the directors of counseling for the placement program are two black undergraduates, Samuel Cooper III and James L. Winston. Their staff of six is also made up of black undergraduate students at the University.

A student interested in being helped by the new program is interviewed in a general way about his interests, his grades and career goals. He is given P.C.C.P.’s newsletter, made up of quotes from letters in which the various college admissions officers have outlined their recruiting needs.

The student may also pick up such standard forms as the SAT application, the Parents Confidential Statement which most colleges use to weigh financial aid requests, and in some cases the actual application blanks for certain schools.

“Some admissions officers would rather have the student take the initiative by writing for the forms,” Mr. Conn said. “With others, we just pick up a phone and call long distance to put the student in contact with a college which may be looking for someone like him.”

P.C.C.P. views itself as one of several channels a black high school student may take in Philadelphia if he is interested in going to college. The teenager’s own high school counselor, and older programs such as College Bound and the American College Admissions Center, all work to get more black youngsters into college.

“We think of ourselves as providing an additional opportunity for the youngster who might not otherwise find the college for him,” Mr. Conn said. P.C.C.P. is not a screening point, but a matching service, he emphasized. “The college itself will do the screening; we just want the student and the college to have an opportunity to choose each other if they match.”

Among the colleges which have found recruits through P.C.C.P. are several Catholic schools (Holy Cross interviewed 12, offered admission to 10 and successfully enrolled 8 last year; small Marygrove College in Detroit offered admission to 12 girls).

Some of the cooperating schools are well-known giants (the University of Chicago, and the University of Pennsylvania itself), but others’ names are not likely to occur spontaneously to a West Philadelphia youth looking for a place to apply: Mount Angel College in Mount Angel, Oregon for example; or Western New Mexico University at Silver City, New Mexico. Colgate University in New York, Stephens College in Missouri, and Clark University in Massachusetts are also among those Mr. Conn listed.

Mr. Conn, the two student directors of counseling (Mr. Cooper and Mr. Winston) along with Barry Slepian, a West Philadelphia High School English teacher who is also a Lecturer in English at the University and William R. Adams, assistant director of admissions at Pennsylvania, started P.C.C.P. on a shoestring last year, paying the expenses by pooling personal funds. This year, support emerged from the University and other sources.

An advisory board was set up, chaired by Mr. Adams and including Thomas Forkin, director of lay personnel for the Roman Catholic Archdiocese of Philadelphia; Marcus Foster, principal of Simon Gratz High School; Thomas Gallagher, director of administration of the Young Great Society; Dr. Robert Lumiansky, chairman of the department of English at the University; Miss Jette Newkirk, dean of students at West Philadelphia High School; Arthur Peters of The Philadelphia Tribune staff; Herbert Showell, assistant director of the Temple Opportunity Program; Dr. Bernard C. Watson, deputy superintendent for planning at the School District of Philadelphia; the Rev. James Woodruff, urban missioner of the Episcopal Church Diocese of Pennsylvania; and announcer Georgie Woods, of station WINS.

University Forum Sponsors Study of Freshman Year

A study of teaching, advising, living conditions and the social atmosphere in the freshman year at the University has begun under sponsorship of The University Forum, a 44-member advisory group composed of students, faculty members and administrative officers.

The survey’s objective is to make specific recommendations in nine general areas concerning the academic and extra-curricular program for 1,700-member freshman class. These areas are orientation; registration and course selection; teaching; advising; dormitories and living conditions; alternatives to fraternities; fraternities and rushing; other extra-curricular activities; and the general social and community climate.

An advertisement was placed in The Daily Pennsylvanian on January 30 to survey the reactions of students in all divisions of the University to the freshman year program.

Coordinating the survey are Dr. Roland M. Frye, professor of English and a member of the University Forum, and Joseph H. Cooper, the president of student government who is also a Forum member.

“We hope that this survey will provide a basis for recommendations to give greater personal attention to the problems and desires of freshmen as they enter the University,” Cooper said.

“The suggestions from this survey should provide the basis to enable freshmen to be introduced to the whole community of higher education at the University, more happily, creatively, and productively,” Dr. Frye said.

50 Horse-Drawn Vehicles Given to Veterinary School

A collection of horse-drawn vehicles gathered over the past quarter century has been given to the School of Veterinary Medicine from theater magnate William Goldman. The collection will be housed on the school’s New Bolton Center campus near Kennett Square, Chester county.

Among the 50 vehicles are a turn-of-the-century Brewster yellow and black park drag, a private hansom cab, a pony phaeton, a double Russian sleigh, a rickshaw, a Conestoga wagon and a horse-drawn fire engine.

Mr. Goldman’s gift also includes oriental conveyances with sliding doors on the side and a pair of tall Japanese palanquins. The palanquins, also borne on men’s shoulders by means of poles, are at least three centuries old. Each is fitted with a tea caddy for royal tea-taking.

Ten life-like horses—four of them hand-carved wooden ones and the others made of plaster of paris—have also been donated to the School.
Policy Regarding Science Center Research Also Approved . . .

(Continued from page 1)

The report also recommends that the Science Center seek research contracts oriented to the enrichment and prolongation of human life and should not accept contracts whose purpose is the destruction of human life or the incapacitation of human beings.

It is further recommended that members of the University faculty and administration who serve on the Board of the Science Center work toward the establishment of an advisory committee to the management of the Center composed of members of the faculties and professional staffs of the institutional members of the Science Center. The purposes of this committee would be to advise on appropriateness of contracts; to serve as an improved channel of communication between the faculties of the member bodies and the Center; to identify where the expertise lies within the member institutions for a particular field of research of interest to the Center; and conversely, to suggest to the Center areas of research in which the Center might wish to engage because of the professional interest and expertise of the members of the participating institutions.

In endorsing the report of the Committee on Research, the Board of Trustees did recommend that the University Council consider including students on the advisory committee.

GUIDELINES FOLLOWED

From the outset of the demonstration, students adhered to the statement "On the Exercise of Free Speech and Lawful Assembly" approved by the University Council March 13, 1968 in which demonstrators must refrain "from interference with the normal conduct of University business and the normal utilization of University facilities." In addition, the "Guidelines on Open Expression" formulated by the Mundheim Commission were kept in mind.

The various kinds of action that could be taken by the University if violations of the March 13 statement occurred were thoroughly discussed with the students at a meeting in which faculty members were also present.

The population in College Hall varied from 30 to 300 to 900 students and included students from Bryn Mawr, Villanova, Drexel, Swarthmore, Temple and Haverford. The students had their own marshals keeping order, swept up each morning, had an efficient communications center, a marshal's office, a food procurement system and constant meetings.

In fact meetings were a major factor in the week-long demonstration.

Wednesday morning, a meet of staff and faculty was called by Provost David Goddard—with approximately 800 attending—at which representatives of the administration, faculty and students presented facts about the situation.

On Wednesday afternoon members of the Senate Advisory Committee issued a statement urging a reexamination of the priorities of assignment of University resources and the need to develop an effective and feasible plan to promote adequate housing and community development.

Members of the Senate Steering Committee also offered to contribute at least one percent of their annual salaries to initiate such a cooperative venture and asked other faculty members, staff and students to contribute as well.

Certain members of the Trustees' Student Affairs Committee were scheduled to meet at dinner with a small group of black students on February 19 as part of the continuing program of trustee contact with student groups. In view of the sit-in and in response to a suggestion from the black students, the trustees agreed to meet instead with the appointed leaders of the sit-in. Members of the administration and faculty also sat in on the meeting.

The result of their discussion was a proposal to authorize negotiations with Renewal Housing Inc. to determine the requirements for low income housing in the surrounding community for those persons

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Demonstration Agreement

The University has accepted the principle of community involvement by means of a quadripartite commission composed of community leaders, faculty, students and administration as a means of jointly advancing and coordinating community and University development and as a mechanism for securing community consent to development plans.

The Trustees declare a policy of accountability and responsibility that accepts the concerns and aspirations of the surrounding communities as its own concerns and aspirations and that to insure community of purpose in joint initiation, planning and execution of programs and effective mobilization of University talents and facilities, the quadripartite commission shall be the instrument through which these activities, at least initially, shall be carried out and that commission shall proceed to its work with the utmost urgency as set forth, in part, below.

The Trustees resolve that in order to proceed with immediate effectuation of this policy, that

1. the quadripartite commission shall, at least initially, be composed of five community members designated by Renewal Housing, Inc., five University of Pennsylvania students designated by the community of demonstrators, five faculty designated by the University of Pennsylvania Faculty Senate, all but one of whom must be resident in West Philadelphia, and five Trustees or their representatives, and

2. the quadripartite commission shall be empowered to review and approve all existing plans involving future land acquisition or development of currently owned land contiguous to existing residential neighborhoods, and shall be informed of the initiation of all such future plans and studies and

3. that the quadripartite commission shall operate on the principle that in all future University expansion which involves demolition of existing housing units, the University undertakes to guarantee the provision of an equivalent number of housing units at equitable prices and rentals.

4. that, in keeping with principle of accountability and responsibility of the University to the surrounding community the members of the Board of Trustees individually and collectively agree to concert their efforts through the corporations, businesses, institutions and agencies to which they have access, to develop the funds and funding sources needed for community renewal programs with the goal of establishing a community development fund with resources of $10,000,000 and

5. this quadripartite commission shall bear the same relationship to the Board of Trustees in matters of physical expansion relating to community development as does the University Council

6. that the University shall commit, initially, the sum of $75,000 per annum as well as appropriate space for the purpose of adequately staffing and operating the quadripartite commission.

The black community and student-faculty community of demonstrators publicly proclaim to the Board of Trustees their dedication to the proposition that the demanded housing be funded not at the expense of a wage tax increase of the people of Philadelphia, nor a general lowering of the standard of living of the people of Philadelphia.
Community, Wharton Work Together . . .

(Continued from page 1)

program to help fill this basic inequity in the distribution of employment: Mantua Community Planners, National Association for the Advancement of Colored People, National Association of Market Developers, Inc., Opportunities Industrialization Center, Inc., Urban Coalition, Urban League of Philadelphia, Wharton School of Finance and Commerce and the Young Great Society.

Each student in the program is admitted with a full scholarship except for a five dollar fee per course for educational materials. Classroom space in Dietrich Hall on the University campus is being provided by Wharton School while the administrative services are being made available by various divisions within the School. Counselors are being provided by various community organizations and interested individuals and the teachers largely come from the Wharton School on a voluntary basis.

Programs are being sought to put the program on a more permanent foundation which includes a paid head counselor, administrative support, and funds for educational materials.

The first semester—February to May—is designed as a trial period and has been limited to about 50 students selected by each participating community organization. Subsequent semesters will admit larger classes if the program is successful. Student selectees are based on their potential abilities, interest in business, and need. The program is designed specifically for those able students who do not have the financial resources or educational background to attend other college institutions.

The program cycle is essentially designed as a two year evening effort. Each course will meet once a week for two hours. The length of the program depends on the particular needs of each student, his ability, the kind of final employment for which he is training and his weekly course load. The program will involve extensive counseling and placement services which will aid the student in determining his direction, his course load, and finally his placement in a job or in other educational training programs. Flexibility to student needs is a foundation block of the program so that each student can be helped as much as possible to reach his full potential.

If an individual student shows the ability and desire to compete in a regular college program CWEP will help him transfer into an undergraduate program at the University of Pennsylvania or other college.

Those students who do not move into regular college programs but demonstrate abilities in business administration will continue education in the program.

Finally, those students who are best suited for training in specific skills will take general business courses from CWEP and then receive admissions help in entering a specific outside skill training program. The general business background is designed to aid the student in adjusting as his job changes and advancing in the system.

Commission Set Up . . .

(Continued from page 3)

sons displaced by the Science Center project—and who would return to occupy such housing.

The proposal was considered at length on Thursday by the "Community of Demonstrators" and further talks on demands one and two were suspended while the students met with community leaders to decide whether, indeed, Renewal Housing Inc. was the most representative community body.

Thus at the Thursday evening meeting with trustees the student leadership confined their negotiations to demand three. At this time the trustees agreed to recommend to the Executive Board of Trustees the approval of the University Council-backed report on the Science Center.

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Museum Begins Excavation In Its Own Back Yard

The University Museum began a major excavation in its own back yard last December to make room for a $5,400,000 education and research wing to house facilities for its public education program and university-level teaching and scientific activities.

The Museum's education program dates back to the 1920's and includes conducted tours for school groups—more than 30,000 youngsters are given gallery tours and organized instruction annually—puppet shows, films, lectures, special exhibitions, concerts, inservice courses for teachers and traveling exhibitions with narrators. The children's education area in the new wing will provide classrooms, workshops and other facilities.

At the University level, the structure will provide teaching quarters, laboratories and faculty offices for the departments of anthropology, archaeology, oriental studies and religious thought. It will also provide a library with a 100,000-volume stack capacity.

Other facilities are planned for analysis, restoration and storage of objects owned by the Museum and for the development of technological aids to archaeology.

Funding for the new wing, planned for completion in 1971, is being provided by a number of sources, the largest being a grant of $941,500 from the National Science Foundation. Members and friends of the Museum and its Board of Managers are also providing substantial funds, and gifts have been presented by several private foundations including the Old Dominion, the Avalon, the Kress, the Phoebe Waterman, the Grundy and the Kevorkian foundations.

Ewan Clague, Eugen Pusic Named Pray Professors

Dr. Ewan Clague, the U.S. commissioner of labor statistics from 1946 to 1965, is serving as the Kenneth L. M. Pray Visiting Professor of Social Policy in the School of Social Work for the 1968-69 academic year.

Dr. Eugen Pusic, dean of the Advanced School of Public Administration at the University of Zagreb in Yugoslavia, will serve as the Pray Visiting Professor for the spring semester of the 1969-70 academic year. He is president of the International Conference on Social Welfare.

The Kenneth L. M. Pray Professorship of Social Policy in the School of Social Work is named in memory of the School's first Dean and is endowed by a bequest of the late Fred Maytag, II.
Air Pollution and Disease May Be Related

A three-state air pollution commission with full power to set and enforce standards for cleaner air in the Delaware Valley has been recommended by the Fels Institute of State and Local Government as a result of an intensive two-year study on the health hazard of air pollution.

The Institute warns there is a strong relationship between air pollution and death by cancer, strokes, heart attacks and birth defects, and hints that it may even speed the process of aging.

"The impact of air pollution on human health is dramatically more important than commonly understood or accepted," says the report.

"Our studies clearly indicate the real and present danger to human life in cumulative exposure to low-level concentrations of airborne contaminants which are present in this regional atmosphere at high levels of concentrations."

The proposed interstate commission would have broad powers to investigate pollution sources, develop plans, establish air quality standards, require controls and enforce rules. According to the study it could be in operation in a year and a half if the governors of New Jersey, Pennsylvania and Delaware go along with the plan.

The Fels Report, drawn up by its Government Studies Center upon the request of the Regional Conference of Elected Officials, is based on an analytical study headed by Dr. Richard J. Hickey, senior research investigator in the Institute for Environmental Studies. Working with him were Dr. Richard C. Clelland, chairman and professor of statistics and operations research; Mrs. Lydia Tomasello, computer programmer; Mrs. Evelyn B. Harner, graduate student; and Elizabeth P. Schoff.

By using multivariate analysis, the research team was able to study possible "causes" and "effects" simultaneously on a computer. The results do not prove cause-effect relationships, but show statistical associations that indicate possible cause-effect relationships.

Statistics Indicate Relationship

Using statistics on 11 different pollutants and on death rates from ten different disease categories in 38 American cities they found that:

- Sulfur dioxide and nitrogen dioxide were associated with an increase in deaths from arteriosclerotic heart disease (while Cadmium was associated with a decrease) and with an increase in deaths from stomach and intestinal cancer and in total cancer deaths (while copper was associated with decreased deaths in these categories).
- Nitrogen dioxide was associated with increased deaths from stroke and copper and vanadium with decreased deaths.
- Lead was associated with increased deaths from birth defects while nitrogen dioxide and zinc were associated with a decrease in such deaths.
- Sulfates and chromium were associated with increased deaths from lung cancer and copper and titanium with a decrease.
- Dr. Hickey points out that sulfur dioxide and nitrogen dioxide in body fluids yield substances that can damage the basic genetic apparatus of body cells. He hypothesizes that exposure to chemicals at any level over a long period of time results in accumulative damage in much the same way damage from radiation takes place. Such an accumulation could contribute to the process of aging and diseases associated with aging, such as cancer and heart disease.

Dr. Hickey's theory would explain the association of the two pollutants with so many different diseases. He also points out that there is some evidence in medical literature that certain metals in small amounts have a protective effect against these same diseases; these would be consistent with the findings on copper and other metallic pollutants.

Short-Term Efforts Criticized

Because of the accumulative effect of pollution, the Fels Report criticized present efforts to combat short-term pollution. "Abatement policies and standards de-

Henry Herbert Dead at 74: Developed the News Bureau

Henry Laux Herbert, one of the nation's early college public relations men who directed publicity at the University of Pennsylvania for 37 years, died February 14 at the age of 74 after a long illness.

Mr. Herbert served as the night city editor of the old Philadelphia North American until 1925, when he joined the University of Pennsylvania, a few months before the North American ceased publication.

At Pennsylvania, he developed what is now the News Bureau and served on the University Committee on Radio and Television. He was cited in 1953 by the American College Public Relations Association for his "solid and realistic development" of the University's public information service.

Later he was honored as one of the earliest educational publicists by the Ivy League Publicity Committee at a 1962 meeting at Cornell University. On his retirement later that year he was elected an honorary member of the Class of 1915 by the University of Pennsylvania.
Nobel Winner Heads Lecture Schedule

Dr. George Wald, Nobel Prize winner and Higgins Professor of Biology at Harvard University, will conclude this year's Leon Lecture series with a talk on "The Origin of Death." The lecture, to be held April 15 in the auditorium of the Fine Arts Building, will begin at 8 p.m.

Dr. Wald is perhaps best known for first identifying vitamin A in the retina. In 1939 he received the Eli Lilly Award for "Fundamental Research in Biochemistry" from the American Chemical Society and in 1953, the Lasker Award of the American Public Health Association "in recognition of his outstanding discoveries in biochemistry with special reference to the changes associated with vision and the function of vitamin A." He has been the recipient of numerous other awards and in 1967 received the Nobel Prize in Physiology or Medicine along with Drs. Hartline and Granit.

FILMS SHOWN IN FINE ARTS

Several films will be shown March 24 by Alex Hume, film editor for the ABC-TV documentary division, as part of the lecture series sponsored by the Graduate School of Fine Arts. Later lectures in the series include Richard Sharpe, architect, who on March 31 will discuss research in chemical bonding; Billy Klüver, president of the experiment in art and technology, who on April 7 will describe the work of the New York group which is composed of artists and scientists; and Peter Millard, professor of architecture at Yale University, who will talk April 14.

All lectures in the series are held at 7 p.m. in the Colloquium room of the School and begin at 2 p.m.

Nobel research conducted in the Fine Arts Building.

Engineering Research Activities Described in Annual Report

Engineering Division Research Activities 1967-1968, the fourth annual report describing research conducted in the Engineering Schools, has been published by the Office of the Vice-President for Engineering Affairs.

The report summarizes the activities on each of 169 separately reported research programs, projects, and tasks, and on 149 thesis investigations. Each project brief identifies the sponsor, lists the investigators, and lists the resulting publications. In addition, the recipients of engineering degrees are listed with their prior degrees, and the titles of their theses or dissertations.

The report has been distributed to the officers of the University, the faculties of the Engineering Schools, the members of the Commission and empowered them to select the fifth; the four unanimously agreed upon Miss Barlow.

The five representatives of the Trustees sitting on the Commission will be Trustees John Eckman, Henry M. Chance, III, and Robert L. Trescher, chairman of the Trustees' Student Affairs Committee; Harold Manley, vice president for business and financial affairs; and John Hetherston, vice president for coordinated planning.

Faculty representatives will be Sol Worth, associate professor of communications; Lawrence A. Goldfarb, assistant professor of city planning; Howard Lesnick, professor of law; Dr. Russell L. Ackoff, professor of statistics; and Dr. Howard Holtzer, professor of anatomy.

Community representatives are expected to be named soon.

ERRATUM

In last month's *Almanac* it was incorrectly reported that Dr. Schuyler Cammann was a Professor of Oriental Studies instead of East Asian Studies. Dr. Cammann is now teaching at the University of Copenhagen and advising that school on the establishment of new courses on East Asian art and archaeology. His appointment is one of five made by NATO annually of American scholars to teach or do research in the academic institutions of the NATO members.
Hans Rademacher Is Dead; Famed Mathematician

Dr. Hans Rademacher, one of the world's leading mathematicians, died February 7 at the age of 76. The former Thomas A. Scott Professor of mathematics at the University, Dr. Rademacher in 1962 was named emeritus professor of mathematics and continued his scholarly work as visiting professor at New York University and at Rockefeller University until interrupted by failing health.

Dr. Rademacher was perhaps best-known as the discoverer of the long-sought formula for the number of ways in which any positive whole number can be represented as the sum of whole numbers.

For example, 10 is the sum of 5 and 5. It is also the sum of 6 and 4. The formula gives the number of possible combinations of positive whole numbers that will equal a given positive whole number. He was also known for his contributions in analytic number theory, the functions of real variables, quantum theory and mathematical genetics.

The Massachusetts Institute of Technology Press is publishing his collected scientific papers as part of their series on distinguished American mathematicians and another book, on comprehensive analytic number theory, is being published by Springer.

Dr. Rademacher was born in Hamburg, Germany, and after receiving a Ph.D. from the University of Göttingen, taught at the University of Berlin, the University of Hamburg and the University of Breslau. Although not Jewish he was dismissed by the Nazis from his professorship at Breslau in 1934 because he was a pacifist and because he had placed Jewish faculty members in important positions.

Wishing to honor Professor Rademacher in his lifetime by associating his name creatively with the future of mathematics, a group of mathematicians and scientists recently began to establish a fund at the University to endow the Hans Rademacher Instructorships in Mathematics.

Campus Torch Fund Drive Exceeds Goal by $9600

Approximately $133,000 was given to the 1969 United Fund Torch Drive by the University staff and faculty, exceeding its established goal by $9600.

Donations included $44,813 from the Hospital, $16,642 from the Graduate Hospital and $71,655 from the faculty and staff. Chairmen for the drive were Miss Trisha A. Flynn, Mrs. Agatha Rapt, Dr. Charles C. Price and Windle McMahon.

Faculty Contribute to Encyclopedia

Twenty-eight University faculty members were selected to contribute to the new 17-volume reference work, International Encyclopedia of the Social Sciences, which provides the only codification available of present knowledge and theory in the social sciences and related fields.

Just published by the Macmillan Company and The Free Press, the encyclopedia had its genesis in the work of a study group sponsored by a grant from the Ford Foundation in 1955.

The resultant work re-evaluates the basic work done before the 1930s and surveys the important developments since that time. All of the principal disciplines are covered, including anthropology, economics, geography, history, law, political science, psychiatry, psychology, sociology and statistics.

University of Pennsylvania contributors are: Dr. Robert H. Dyson, Jr., Dr. Ward H. Goodenough, Dr. Dell Hymes, Dr. Anthony F. C. Wallace, professors, and Dr. A. Irving Hallowell, emeritus professor, of anthropology; Thomas C. Cochran, Benjamin Franklin Professor of History; Dr. Douglas Vickers, professor of finance.

Dr. Richard A. Easterlin and Dr. Irving K. Kravis, professors of economics, and Dr. Lawrence R. Klein, Benjamin Franklin Professor of Economics; Dr. William M. Evans, professor of sociology and industry; Dr. Walter Isard, professor, and Dr. Thomas A. Reiner, associate professor, of regional science; Dr. Zellig S. Harris, Benjamin Franklin Professor of Linguistics; Dr. Glenn R. Morrow, Adam Seybert Professor Emeritus of Moral and Intellectual Philosophy.

Dr. Marvin E. Wolfgang, Dr. Vincent H. Whitney, Dr. William M. Evan, Dr. Thorsten Sellin, professors, and Dr. Samuel Z. Klausner, associate professor, of sociology; Dr. Hope T. Eldridge, director of the population laboratory for the Population Studies Center; Dr. Russell L. Ackoff, professor of statistics and operations research.

Dr. J. K. Zawodny, Dr. Robert Strausz-Hupé, Dr. Henry J. Abraham and Dr. Herbert J. Spiro, professors of political science; Dr. Richard L. Solomon, professor of psychology, and Dr. R. Duncan Luce, Benjamin Franklin Professor of Psychology.

Another former member of the Psychology Department, Professor Robert R. Bush, also contributed to the encyclopedia.

Burglar Alarms On Sale

Pocket burglar alarms are now on sale at the University Bookstore.

The alarm, priced at 60c, is roughly the size of a cigarette pack and can be carried in a pocket, purse or palm of the hand. It is activated by pulling a pin, and even if dropped or thrown to the sidewalk it automatically continues a loud, shrill, alarm until the pin is reinserted. The device can also be installed on doors and windows.

Among other things . . .

APPOINTMENTS:

Dr. Harold I. Lief, professor of psychiatry and director of the Division of Family Study, has been named Director of the Marriage Council of Philadelphia effective next July. He succeeds Dr. Donald R. Young, assistant professor of family study, who will become chairman of marriage and family studies and director of the Marriage and Family Study Center at the Institute of Religion, Texas Medical Center in Houston. Dr. David M. Reed, director of training and assistant professor of family study in psychiatry, has been appointed assistant director of the Marriage Council.

Mr. Gerald R. Beaver, assistant to the Director of Alumni Annual Giving, has been elected Annual Fund Chairman of District II of the American Alumni Council which represents 736 institutions of higher learning in the Middle Atlantic States.

AUTHORS:

Dr. Patricia Anne Davis, assistant professor of Russian, has compiled 201 Russian Verbs which has been published by Barron's Publishing Company.

Dr. Warren Slider, assistant professor of chemical engineering, is the author of the article, "Time Sharing in Engineering Education" which appeared in the January issue of Journal of Engineering Education.

HONORS:

Dr. Lester Luborsky, professor of psychology in psychiatry, has been given a Research Scientist Award by the National Institute of Mental Health. The award allows him to continue his research on "Effective Conditions for Psychotherapy" and on a large-scale project on "The Psychological Antecedents to a Variety of Psychological and Physical Diseases"; the (Continued on next page)
grant will continue for five years.

DR. GAYLORD P. HARNWELL, president of the University, has been named chairman of the Carnegie Foundation for the Advancement of Teaching.

MRS. MARTHA HUNSCHER, assistant professor of nursing, has been elected to membership in the international organization, The Royal Society for the Promotion of Health.

An exhibition of the work of ANGELO SAVELLI, associate professor of fine arts, was on display last month at the Henri Gallery in Washington, D.C. In addition to this one-man show, the artist's work was also included in the 31st Biennial of Contemporary American Painting opening at The Corcoran Gallery of Art there. The work in the Henri Gallery exhibition was based on Dante's Inferno while that in the Biennial was one of several versions based on Dante's Paradise.

DR. GARY H. COHEN, assistant professor of microbiology, has been selected for a Research Development Award by the Virology and Rickettsiology Branch of the National Institutes of Health. Dr. Cohen will study the antigens of herpes simplex virus in infected mammalian cells.

DR. Y. H. KU, professor of electrical engineering, last month received the first Professional Accomplishment Award from the Chinese Engineers and Scientists Association of Southern California at Los Angeles.

DR. FRANKLIN B. ZIMMERMAN, professor and chairman of music, has been asked to be a lecturer this summer for the Merton College Seminar on "Music in England 1560-1690" held at Merton College, Oxford. Lectures and seminars will be supplemented with concerts and recitals, many of them to be held in medieval and renaissance halls and chapels.

TRAVELERS AND SPEAKERS:

DR. GEORGE A. MIHRAH, assistant professor of electrical engineering, attended the University of North Carolina-National Science Foundation Conference on the Use of Computers in Statistics Instructions held last January at Chapel Hill, North Carolina.

DR. DANIEL HOFFMAN, professor of English, participated in a panel discussion on "The Sounds of Literacy" held as part of the program of the Popular Literature Group during the Modern Language Association convention in New York.

DR. ABRAHAM NOORDERGRAAF, associate professor of biomedical engineering, and DR. NICOLAS WESTERHOF, research investigator in electrical engineering, attended the Annual Conference on Engineering in Medicine and Biology held in Houston, Texas. Dr. Noordergraaf chaired the session on Muscle Models and was elected a member on the Committee on Membership of the recently founded Biomedical Engineering Society. Dr. Westerhof read his paper, "Wave Reflection in the Human Systemic Arterial Tree," co-authored by Dr. Noordergraaf.

DR. JOHN W. CARR, professor of electrical engineering, presented a lecture on "Growing and Syntax Learning Machines," at the Conference on Extensible Languages, held at Carnegie-Mellon University last December.

DR. WILLIAM KROGMAN, chairman and professor of physical anthropology and director of the Philadelphia Center for Research in Child Growth, spoke before the ninth District Dental Society in Billings, Montana in February and this month spoke to the 11th District Dental Society in Queens County, New York City.

DR. DAVID HSIAO, lecturer in electrical engineering, was one of 219 participants from 15 countries who participated in the First International Seminar on File Organization held at Helsingor, Denmark late last year. He later co-authored an invited paper with Dr. Frank Harary, professor of mathematics at the University of Michigan, which was given at the International Conference on Graph Theory and Computing held in Jamaica last January.

DR. DAVID SHEN, professor of electrical engineering, presented two papers at the IFAC Symposium on Multivariable Control Systems in Düsseldorf, Germany and was invited to attend the opening meeting of the 1968 INTERKAMA (Fourth International Congress with Exhibition for Instrumentation and Automation). While in Germany he also visited the Institute for Regelungstechnik at both Stuttgart and München.

BRITTON HARRIS, professor of city and regional planning, this month addressed the Graduate School of the University of Southern California on "The New Technologies and Urban Planning." In late January he spoke before the Department of Urban Planning at the University of Michigan on "Art and Science in Planning and Design" and conducted a seminar on "Problems in Planning Theory." Earlier in the month he addressed the architectural undergraduate Society of McGill University in Montreal and the Institut d'Urbanisme, Université de Montréal.

Among other things . . .