



Social Sciences Computer Center Is Established

A Center for Computer-Oriented Research in the Humanities and Social Sciences has been established at the University.

Dr. Bernard W. Wishy, a systems advisor for International Business Machines Corporation and former Columbia University faculty member, assumed full-time duties as Center director on January 1.

"The Center will work in three areas," Dr. Wishy has explained. "In information and instruction, it will publish periodic indexes of all known work in the humanities and social sciences using computers. It will conduct special courses and seminars on campus for Pennsylvania faculty and students, and it will provide research facilities for national and foreign fellows of the Center.

"It will provide an organization so that various models can be created to provide more extensive data processing services for scholars in the humanities and the social sciences. These services will include specialized systems analysts and programmers.

"The Center will be involved in research and publication," Dr. Wishy continued, "on broad general areas such as content analysis, in which computers analyze texts and other media for their grammatical, intellectual, or symbolic meanings and patterns. This could, for example, authenticate editions, establish predominant themes in literature, and show the indebtedness of an author to another.

"We also hope to establish links between computers and photographic files for storage and retrieval, and to publish

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President's Message Cites Pennsylvania's Urban Role

America's urban universities can either turn their backs on their environment—reopening the distinction between town and gown—or they can mobilize their resources in the "search for national solutions to the revolutions which are shaking the entire fabric of urban society," Dr. Gaylord P. Harnwell, president of the University, reported in his 1966 President's Message.

Dr. Harnwell, whose report was published in the December issue of The Pennsylvania Gazette, stated that "Pennsylvania's choice is with the latter, a mobilization of all its resources for the common good."

Discussing the contemporary role of the American university, President Harnwell observed that it "is out of its ivory tower—if indeed it ever occupied one—and never before have its unique resources been so widely utilized for the general welfare of man and the quality of his environment as they are today."

"Retaining something of its heritage, much of its customary pattern, all of its professional identity, and greatly increasing its presence as a social force, Pennsylvania's environment has expanded in a very meaningful sense to include society as a whole with all of its attendant problems," he added.

"The long popular view of universities as cloistered enclaves of study, meditation, and reflection," President Harnwell commented, "is gradually being replaced by one which more accurately reflects their contemporary role as centers of action for the solution of many of society's pressing and emerging problems.

"As communities of concerned and knowledgeable people, the major urban universities, especially, are meeting the challenges of urbanization at an accelerating pace."

He reported that American universities are "no longer passive filter beds through which a trickle of the population passes to high office or high remuneration." Instead, "American universities have become elements in a dynamic process—reacting to the students who pass through their halls and to the political, social, economic, and technical changes in society to which they have themselves been major contributors."

Open Windows

The faculty, Dr. Harnwell continued, "has opened the windows of Pennsylvania's many towers and the environment of a receptive audience in business and government has been won in recent decades . . . It was as if the age of innocence had passed from academe . . . The world's problems became the University's problems; students and faculty alike were challenged by the real and the contemporary."

The city itself, particularly "an old, established city such as Philadelphia," provides a laboratory for the University.

The Fels Institute of Local and State Government, for example, is analyzing Philadelphia metropolitan area information systems, the feasibility of a computer-based system linking all Delaware Valley police agencies, and the applicability of computer technology to the activities of the 62-agency Bucks County government.

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a series of volumes on the problems and uses of computers in individual disciplines."

"We shall use the University's Computer Center computers for the foreseeable future," he points out. Underlining this intention, he credits Dr. Lee Benson, professor of history, and Dr. John F. Lubin, director of University Computing Activities and associate professor of industry, with laying the groundwork for the Center. The IBM Corporation has provided financial assistance for the Center.

First project of the Center to see fruition is a series of lectures on "The University and the New Technology," now being given monthly to invited Pennsylvania faculty members. The series will include a description of changes computers are bringing about in the analysis of literary texts and a discussion of the problems in planning the new computer-oriented campus of the University of California at Irvine.

Explaining the lecture series, Dr. Wishy has commented "The use of computers, xerography, microphotography, and other new devices is accelerating in most disciplines at a remarkable rate.

"Increasingly, also, many academic persons are involved in national and international projects concerned with the rationalized use of this new technology for the general convenience of their scholarly guilds. These projects involve data banks, information retrieval, bibliography control, and other automated or semi-automated systems.

"Pennsylvania's Computer Center next summer will install a new computer of very great power, the IBM System/360 Model 67. Eventually it will be capable of placing many users simultaneously in touch with the central processing unit through such devices as console typewriters and small display screens located in faculty offices, laboratories, and libraries. These changes are likely to affect fundamentally the organization of the scholarly community and its means of communication, the standards of research and intellectual performance, and the undergraduate and graduate curriculum."

Now being planned is a course, probably offered initially without credit, in which Dr. Wishy would examine some of the principal types of computer appli-

cations in the humanities and social sciences. Without delving into programming, the course for graduate students, faculty members and selected undergraduates will describe resources available at Pennsylvania and elsewhere so that interested scholars can properly launch computer-oriented research projects.

"This Center," Dr. Wishy claims, "will be the first in the world to take a national and international view of what are, in fact, common problems now being approached by individual scholars working in isolated areas. They are, in reality, re-inventing the wheel daily.

Social Scientist Directs Center . . .

Dr. Bernard W. Wishy is a specialist in the analysis and design of computer systems for individual scholars in many of the humanities and social sciences as well as full systems for institutions. He is especially interested in information systems which are a network of substations of a central computer.



Dr. Wishy

Dr. Wishy's academic credentials include a bachelor of arts degree from Columbia University in 1948; a master of arts from Yale University in 1949; a B.Litt. from Oxford University in 1952; and a Ph.D. from Columbia in 1958. He was named assistant professor of American history at Columbia in 1959, a post he held until joining IBM in 1963.

He is a member of the American Council of Learned Societies committee on fellowships for computer-oriented research and of the ACLS committee working to establish a national bibliography center for scholars in the humanities and social sciences.

He is the author of a number of books dealing with American history, and has edited other volumes.

"In the area of bibliographic control, for instance, large-scale interdisciplinary efforts are already underway. A scholar can get from a data bank the statistics which interest him, or the results of work which has been completed recently in his area. This eliminates the frustration and wasted effort of duplication."

The director emphasizes that "The Center's concerns are primarily scholarly, not technological. It has not been established to do things with machines just for the sake of the technology involved.

"The primary purpose of the Center," he continued, "will be to present the University of Pennsylvania as a model and as an international training and information institution, showing what can be done to advance the use of computers by students and teachers in the humanities and social sciences."

Periodically the Center will compile and publish a continuing index of computer work in the humanities and social sciences, using computer prepared indexes and abstracts.

Volumes on the work of computers in various applicable fields will be commissioned. These will consist of essays describing the history and special problems of computer usage in a humanity or social science, followed by a series of papers illustrating various computer applications.

The Center also will create and collaborate with other institutions in creating a national repository of outstanding and most-used computer programs. These will be available through the normal channels between university computer centers.

Regarding the need for the Center, Dr. Wishy points out that "No one really knows the extent and quality of current American work in data processing for the humanities and social sciences. Information filters through in bits and pieces from various agencies and publications, but we have nothing approaching recent thick inventories of work in biology and medicine.

"Most American university computing centers are still oriented predominantly toward scientific and administrative work. The special needs of other scholars are dimly understood and poorly aided because of this tradition."

Pennsylvania's new Center is dedicated to ending the frustrations of just such scholars.

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Graduate School of Fine Arts faculty members are providing leadership in the expanding concern of architects for the total urban setting, the development of new attitudes and more refined methods of analysis in city planning, and the recognition of the ecological basis for landscape architecture and regional planning.

That School's Institute of Environmental Studies houses research encompassing the planning sciences, urban social policy planning, natural sciences in regional planning, architecture and building, civic design, and urban studies. The Institute also now includes the University's Human Resources Program whose director, Dr. Howard E. Mitchell, has been appointed professor of human resources in the city and regional planning department.

Human Resources

Established in 1964, the Human Resources Program "provides the University with an experimental mechanism which could respond more effectively to the social and economic changes occurring in the urban community." The Program has studied motivation problems among the underprivileged and has encouraged economically disadvantaged youngsters to pursue a college education.

"Many undergraduates," the report stated, "are taking the initiative in joining the program as tutors and counsellors to students and families in the community." With the advice of the Program staff, Pennsylvania students last year formed the Community Involvement Council to provide information on social service projects for student organizations and to encourage students to engage in such activity. During 1966 the Council sponsored about 25 projects involving more than 800 students. These projects included a bail bond program, tutoring educationally disadvantaged youth, working in prisons, and assisting in Veterans Administration Hospital wards.

The President's Message delineates some of the external programs involving city planning faculty members. These include plans for Lower Manhattan and Boston, a traffic and transportation plan

for Philadelphia, and developing analytical methods for the Penn-Jersey Transportation Study.

Wharton School

In the Wharton School of Finance and Commerce, the regional science department is studying metropolitan Philadelphia's economic base, the Management Science Center is doing research on the management of organized activities, and the Econometric and Forecasting Unit is predicting the economic health of the community at large. Under Dr. Lawrence R. Klein, University Professor of Economics, the Forecasting Unit has developed an econometric model of simultaneous equations which express the relationships among 118 economic variables. Its forecasts of the gross national product for 1963, 1964, and 1965 were in error by less than one-half of one per cent.

Dr. Herbert R. Northrup, chairman of the Wharton School's industry department and its Industrial Research Unit, has begun a three-year study of racial employment policies of American employers. This study may permit a more rational attack on employment discrimination.

Areas of Law School concern for the

community range from a combined graduate and in-service program with Philadelphia's Voluntary Defender organization, to provide representation for indigent persons charged with crime, to the preparation of police guidance manuals for Philadelphia police.

The School of Social Work has developed community organization as a major field of study. Students in the course are providing professional leadership to local community groups in Philadelphia "poverty pockets" so that the groups can assess their own problems and solve them.

The University's medical divisions for years have ministered to the needs of the community. More than a fifth of all the short-term hospital beds in Philadelphia, for example, are in University-owned or -affiliated hospitals.

Besides the traditional services of clinics for treatment of dental problems, the School of Dental Medicine now serves physically handicapped persons through its Special Patient Clinic. Here are met the special dental needs of persons handicapped by cerebral palsy, facial disfigurement, and neurological disease. The new George A. Coleman Preventive Dentistry Clinic provides orthodontic, pedo-



THE "PHENOMENON OF URBANIZATION" will be the area of concentration of the University's newly-created Council on Urbanism and Related Human Resources. Participants in the initial meeting last month included Dr. George W. Taylor, left, Gaylord P. and Mary Louise Harnwell Professor of Industry; Robert B. Mitchell, chairman and professor of city planning; and President Harnwell.

dontic, and diagnostic X-ray service for child referrals from the dentists in the community.

"Clearly," President Harnwell reported, "great medical universities such as Pennsylvania have become the generators of new scientific knowledge. In their own teaching hospitals, they perform with consummate skill the new procedures derived from that knowledge. But if their influence is not extended, expanded and intensified beyond their walls, the great universities will widen, rather than bridge, the split between the cultures of science and practice."

University Council

Turning to the "phenomenon of urbanization," Dr. Harnwell reported the creation of a University Council on Urbanism and Related Human Resources. The Council, which is beginning its task by identifying urban-related activities throughout the University, will assist the University in responding still more effectively to the teaching, research, and service opportunities and responsibilities associated with urbanism. Members of the Council, chaired by Dr. Jefferson B. Fordham, dean of the Law School, include President Harnwell; Dr. William G. Grigsby, professor of city planning; Dr. Michael H. Jameson, dean of the Graduate School of Arts and Sciences and professor of classical studies; Dr. A. Leo Levin, vice provost—student affairs and professor of law; Dr. Howard E. Mitchell; Mr. Robert B. Mitchell, chairman and professor of city planning; Dr. Morton J. Schussheim, professor of city planning; Dr. George W. Taylor, Gaylord P. and Mary Louise Harnwell Professor of Industry; and Dr. Luther L. Terry, vice president for medical affairs.

Diverse as these activities are, they are only a partial inventory of University programs associated with the community. For years the Graduate School of Education, for example, has provided a variety of services to school systems and boards. Current significant programs are the teacher intern program, which trains teachers for urban schools; University related schools, where University faculty give demonstration lessons; the master teachers program, which brings experienced high school teachers from nearby school systems to the University for a year; the reading clinic, which gives

diagnostic examinations and reading instruction to members of the community; and a new program which will utilize University facilities in the training of principals for urban schools.

Printing Office Winner Of Gold Medal

The University of Pennsylvania Printing Office has been awarded a Franklin Gold Medal for "best of the year" performance in annual competition associated with National Printing Week, January 15-21.

The Printing Office, directed by Robert C. McCorkle, won the award for a commemorative program issued in connection with the retirement of Dr. Ruth E. Smalley, dean of the School of Social Work, and Dr. Rosa Wessel, associate dean.

As its part in Printing Week in the Delaware Valley—the local observance of National Printing Week—the Printing Office has displays of its work, including the award-winning pieces, at the Bellevue-Stratford Hotel, Broad and Walnut Sts. and in the Rare Book Room of the Van Pelt Library.

Foreign Scholars Are Eager For Lecture Assignments

Each year approximately 1,000 foreign scholars hold university lecturing and advanced research appointments in the United States under the Fulbright-Hays program. Many of the scholars in residence during the 1966-67 academic year would welcome invitations to give occasional lectures at other institutions than the ones serving as official hosts.

A list of over 100 such scholars, with biographical data, has been prepared by the Committee on International Exchange of Persons and may be consulted at the office of Pennsylvania's Fulbright Faculty advisor, James B. Yarnell, 226 S. 38th St., who also has for reference purposes a directory of visiting foreign scholars under the 1966-67 program.

New Supplementary Insurance Program Now In Effect

At their October meeting the University Trustees approved a supplementary life insurance program that will make possible an insurance coverage in the amount of two years' salary to a new maximum of \$60,000 for University personnel with annual salaries of more than \$10,000.

Under the laws of the Commonwealth of Pennsylvania, the amount of group term insurance on an individual cannot exceed \$40,000 with the additional restriction that for insurance amounts of more than \$20,000 the level may not exceed one and one-half times the annual salary.

The new supplemental program with the Equitable Life Assurance Society is called "Group Double Protection Life Insurance" and is a combination of term and whole life insurance. A staff member with an annual salary of \$16,000 would be presently insured under the group term program for \$24,000. Under the new arrangement his life insurance coverage with the University effective January 1, 1967 will be \$32,000 with \$8,000 of this total covered under the supplemental plan.

Premium rates paid by the individual for the group term insurance range from 40¢ to 60¢ per \$1,000 of insurance depending on age with the maximum rate applicable to all personnel 40 years of age and older. Although the cost of the supplemental insurance is somewhat higher than that of the term insurance, the rate to be paid by the individual staff member will be at the same level as his term coverage.

Combination insurance amounts will be recalculated annually on July 1 to reflect changes in salary. The supplemental insurance will continue in force until age 65 or at such an earlier date that the individual might leave the employ of the University. Present eligible personnel have been given the opportunity of waiving participation in the supplemental program prior to December 23, 1966. Personnel appointed to or receiving salary increases in full-time or fully-affiliated positions at more than \$10,000 on or after January 1, 1967 will be included in the new program as part of their regular life insurance participation.

Job Opportunities Are Available At Pennsylvania

As a result of the high level of employment and the shortage of available skilled workers, regular personnel procurement sources are not producing sufficient numbers of qualified candidates to meet the University's growing needs. According to Dr. Fred C. Ford, director of personnel, all University positions are eventually filled, but the increasing length of time required to recruit suitable personnel is impairing departmental operations and research programs throughout the campus.

Dr. Ford suggests that many Philadelphians interested in improving their employment situations are unaware of the highly diversified occupational areas, attractive career opportunities, and generous dependent educational benefits afforded by large educational institutions and thus confine their search to the commercial and industrial fields.

Accordingly, he suggests that relatives, friends or acquaintances now unemployed or interested in exploring new job opportunities on a confidential basis be referred to the University Personnel Office at 3025 Walnut St. between 9 and 11 a.m. weekdays, or have them call that Office at 594-7284 for further information and interview appointments.

While current openings are numerous and varied, the greatest needs are for clerical personnel with typing and/or shorthand skills, medical laboratory and research workers, professional and non-professional librarians, and persons with backgrounds in such areas as engineering, electronics, trade skills and data processing.

HUP Report A Winner

In case you haven't taken a close look at the 1965-66 Annual Report of the University Hospital, better do so—it's an award winner.

The Hospital's public relations department, headed by Mrs. Lynne F. Lamberg, received first prize in annual reports for hospitals with over 400 bed-capacity in annual competition sponsored by the Public Relations Society of the Hospital Association of Pennsylvania. The award was presented at the HAP annual meeting in Harrisburg.

Among other things...

AUTHORS:

Dr. George Czerlinski, assistant professor of biophysics in the University's Eldridge Reeves Johnson Research Foundation, is the author of the recently published *Chemical Relaxation: An Introduction to Theory and Application of Stepwise Perturbation*.

Dr. J. K. Zawodny, professor of political science, is editor of a new two-volume work on *Man and International Relations: Contributions of the Social Sciences to the Study of Conflict and Integration*. It is the first attempt to focus on international relations, in a single comparative format, the findings, hypotheses and theories of the social sciences on three levels—intrapersonal, interpersonal and intergroup, and nation-state. The work is also the first attempt in one work to contrast the behavioral factors of conflict and integration on these three levels.

GRANT:

The Ford Foundation has awarded a \$250,000 grant to the University's Center for Studies in Criminology and Criminal Law for a five-year program of interdisciplinary research.

University Press

A variety of staff positions at the University of Pennsylvania Press have been filled in the five months since Gordon Hubel assumed its directorship in August.

Joseph Tustin, a 1963 graduate of Villanova University, has been appointed business manager. Tustin, an accountant with the firm of Armstrong and Baber during 1964-65, has been a senior auditor with the University since 1965.

Donald A. Boyle, with the University Printing Office since 1964, has been named production manager. A 1961 graduate in printing management of the Rochester Institute of Technology, he has previously worked at the Pearl Pressman Liberty Printing Co., Philadelphia, and the Downham Company, Chester.

Other recent staff additions include Rochelle Carson, promotion manager; and editors Jane P. Alles and George Shriver.

The Center, formerly called the Center of Criminological Research, is co-directed by Dr. Marvin E. Wolfgang, professor of sociology, and Anthony G. Amsterdam, professor of law.

Among the subjects proposed for investigation under the grant are career patterns displayed by individuals in moving from non-delinquent status in childhood to become imprisoned adults; whether the threat and assumed deterrent value of arrest and imprisonment is adequately transmitted to all segments of society; the role of the victim in crime, including questions of victim compensation; effectiveness of various community action programs in preventing crime; aspects of the police function; and the prison environment.

Kaplan Wing Plaque Unveiling December 9

A plaque unveiling ceremony December 9 formally named The Florence and David Kaplan Memorial Wing, located adjacent to the University's Leidy Laboratory of Biology, 38th St. and Hamilton Walk.

The wing, opened two years ago, was made possible through a \$100,000 gift from the late Mr. Kaplan, a founder of the Penn Fruit Company, as a memorial to his late wife, who died in 1962. Mr. Kaplan died in 1965.

Participating in the ceremony were members of the Kaplan family; Bernard G. Segal, a life trustee of the University; Dr. Seymour S. Cohen, Hartzell Professor of Therapeutic Research and chairman of the Department of Therapeutic Research, School of Medicine; Dr. I. S. Ravdin, emeritus professor of surgery; and Dr. Luther L. Terry, vice-president for medical affairs.

Laboratories in the wing are being used by Dr. Cohen, who has won distinction for original studies on the metabolism of bacteria and virus-infected cells; Dr. Leonard Warren, professor of therapeutic research, who has carried out extensive research on the chemical behavior of cellular surfaces; and several other medical investigators.

APPOINTMENTS:

Dr. Iraj Zandi, associate professor of civil engineering, has accepted the offer of the executive committee, American Society of Civil Engineers, pipeline division, to serve as the division's technical editor.

Dr. Otis H. Green, professor of romance languages, has been appointed to the selection committee of the National Endowment for the Humanities. The fourth and last volume of Dr. Green's work, *Spain and the Western Tradition*, was published in October. The first three volumes were published in 1963, 1964 and 1965. Dr. Green has already revised the Spanish translation of the first three volumes to be published together with the translation of the fourth by Editorial Gredos, Madrid.

Dr. George L. Schrenk, assistant professor of civil engineering, Towne School, whose research activities have made him a frequent user of the University's Computer Center in the past, is now even more actively involved in the Center's affairs. In his new post as associate director, he will work with Dr. John F. Lubin, associate professor of industry and director of the Center, on matters involving long-range planning for computing activities.

Dr. Schrenk holds a Ph.D. in theoretical physics from Indiana University. He will remain on the faculty of the Towne School and will continue his research activities as branch chief of plasma engineering in the University's Institute for Direct Energy Conversion.

Dr. Marvin E. Wolfgang, professor of sociology and co-director of the University's Center for Studies in Criminology and Criminal Law, was elected president of the American Society of Criminology at that organization's annual meeting in Philadelphia November 18-20.

Dr. Henry Faul, professor of geophysics since 1963 at the Southwest Center for Advanced Studies, Dallas, Texas, has been appointed professor of geophysics and chairman of Pennsylvania's department of geology.

Born in Prague, Czechoslovakia, Dr. Faul attended that city's Real Gymnasium until 1939. He received a bachelor of science degree from Massachusetts Institute of Technology in 1941, a master of science degree from Michigan State University in 1942, and Ph.D. from M.I.T. in 1949.

Dr. Alice F. Emerson, acting dean of women at the University since last July, was named dean of women in November.

Dr. Emerson, born in Durham, N. C., was graduated from Radnor High School in suburban Philadelphia. She received a bachelor of arts degree from Vassar College in 1953 and a Ph.D. in political science from Bryn Mawr College in 1964, after which she remained at Bryn Mawr as a lecturer.

TRAVELERS AND SPEAKERS:

Dr. Lynn M. Case, professor and chairman of the history department, spoke on "Historical Research-Training,

Among other things...

Opportunities, Problems and Values" at a November 15 lecture at Lebanon Valley College. Dr. Case's talk was sponsored by the Pennsylvania Nu chapter of Pi Gamma Mu, national social science honorary society.

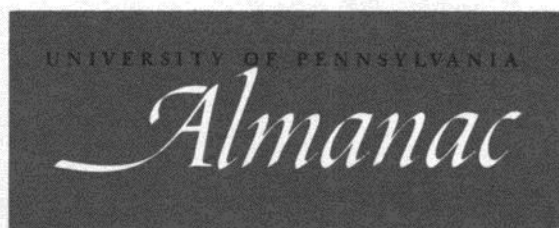
Mrs. Doris K. Dannenhirsch, instructor of women's physical education, spoke on "Choreography in Relation to the Aquatic Art" at the annual meeting of the Association for Synchronized Swimming for College Women, held November 11-13 at the University of Massachusetts.

Dr. John O'M. Bockris, professor of chemistry, will speak at an electrochemical energy conversion meeting in Dresden, East Germany, in April.

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