

DEPARTMENT of PHYSIOLOGY, HEALTH and HYGIENE

Olive Huber '25, *Chairman*

We live in exciting times on the threshold of a research explosion in science touched off by the deciphering of the very code of life. The members of the Department of Physiology and Health are aware of their responsibility to bring modern physiology concepts to the students, who in turn are more than anxious to derive maximum benefits. All Department activities are geared toward the student's physiological orientation in this modern world.

To bring the world of scientific technology to the laboratory, the department has kept pace with modern developments and gradually has added to its equipment which broadens the horizons for investigation into life processes. As teaching aids, the Department depends upon its counters and scalers for radioactivity measurements in animal experimentation, oscilloscope for muscle nerve physiology, electrocardiograph for heart activity, photoelectric blood pressure recorders for small mammals, spectrophotometers for biochemical identification, and metabolimeters for human and small mammal oxygen consumption. Further modernization of its laboratory experimentation will be realized through a National Science Foundation matching grant for a total of \$16,200 for a dynograph, a recorder for simultaneous measurements of respiration, circulation, and nervous system effects. We look forward to the acquisition of a phase microscope to make possible more viewing of less and less, and other equipment. The Department has received grants from the National Science Foundation, the National Institute of Health and the Health Research Council of the City of New York.

An active Honors program under the direction of staff members is available for the superior physiology student. Research projects are carried out by Honors students and by Physiology Club members and results are presented at the Eastern Colleges Science Conference for Students and at the Annual Sigma Xi meeting at Hunter. (Sigma Xi is the national graduate honorary science society.)

Outstanding students are encouraged to join the American Association for the Advancement of Science and the New York Academy of Sciences which help them to realize the vastness of the national and international frontier of scientific thinking.

Physiology is dynamic biology, which is concerned with the laws of physics and chemistry quantitated mathematically, as they apply to life processes. Majors must satisfy prerequisites in chemistry and physics for an adequate understanding of physiology. During the past year, there was a forty percent increase in the number of majors in the Physiology Department.

Courses in the Department are also taken by students who major in Biology, Home Economics, Nursing, Physical Education, Psychology and Speech in order to round out their backgrounds. Many students take optionals in the Department.

For the seventh consecutive summer, thirty superior high school students have benefited from the Summer Institute in Physiology at Hunter, which is supported by an NSF grant. This student group is chosen from eight hundred applicants. Dr. Melvin Schwartz has served as the director, through the years.

Physiology majors on fellowships in graduate schools, as recorded on the Dean of Faculty report for this year, numbered third, only exceeded by students from the Departments of English and History. We are gratified by the accomplishments of our majors after graduation, in graduate work at Brown, the City University, California Institute of Technology, the University of Illinois, Rochester, Rutgers, the University of Massachusetts, the University of Pennsylvania, Washington University; in medical schools at Buffalo and Downstate; in teaching at the City University, Flower Fifth Avenue Medical School, in high and elementary schools; in working at Rockefeller Institute and serving as assistant pathologist at Roosevelt Hospital. Our former students return for alumni reunions and inspire the undergraduates in their efforts. Expressions of appreciation have been numerous through the years and among the more tangible ones is a bronze plaque to the Department for inspirational teaching.

This past summer, two of our senior physiology majors received grants to teach physiology to exceptional high school students, in the program at the Rockefeller Institute, and at Nason College in Maine.

The Department of Physiology and Health contributes to the M.A. program in Biological Sciences, in Teacher Education and to the M.A. and Ph.D. programs

in the Arts and Sciences by assisting with administration, teaching courses in mammalian physiology, health and biometrics and guiding students in their thesis research. We look forward to the completion of a contemplated graduate building which will do much to solve the space problem which is becoming critical in the face of the population explosion at the college level.

Department personnel consists of the following members: Professors—Olive Huber* (Ph.D. Columbia University) and Beatrice G. Konheim* (Ph.D. Columbia University); Associate Professors—Mae A. Burns* (Ph.D. Fordham University), Helen V. Downey* (Ph.D. Fordham University), Katherine V. Kreidel* (Ph.D. Fordham University), and Anne S. Loop* (Ph.D. New York University), Dorothy N. Naiman (Ph.D. Columbia University); Assistant Professors—Helen R. Benjamin (Ph.D. Columbia University), Constance R. Martin (Ph.D. State University of Iowa), Ruth S. Novel* (Ph.D. Fordham University), Eleanor E. Reilly* (M.A. Columbia University), Joanna B. Roseman* (M.A. Columbia University), Anne B. Tipton* (M.A. Columbia University); Instructors—

Eugene S. Handler (Ph.D. New York University), C. Robert Jones (Ph.D. Fordham University), Evelyn Varsa* (Ph.D. New York University).

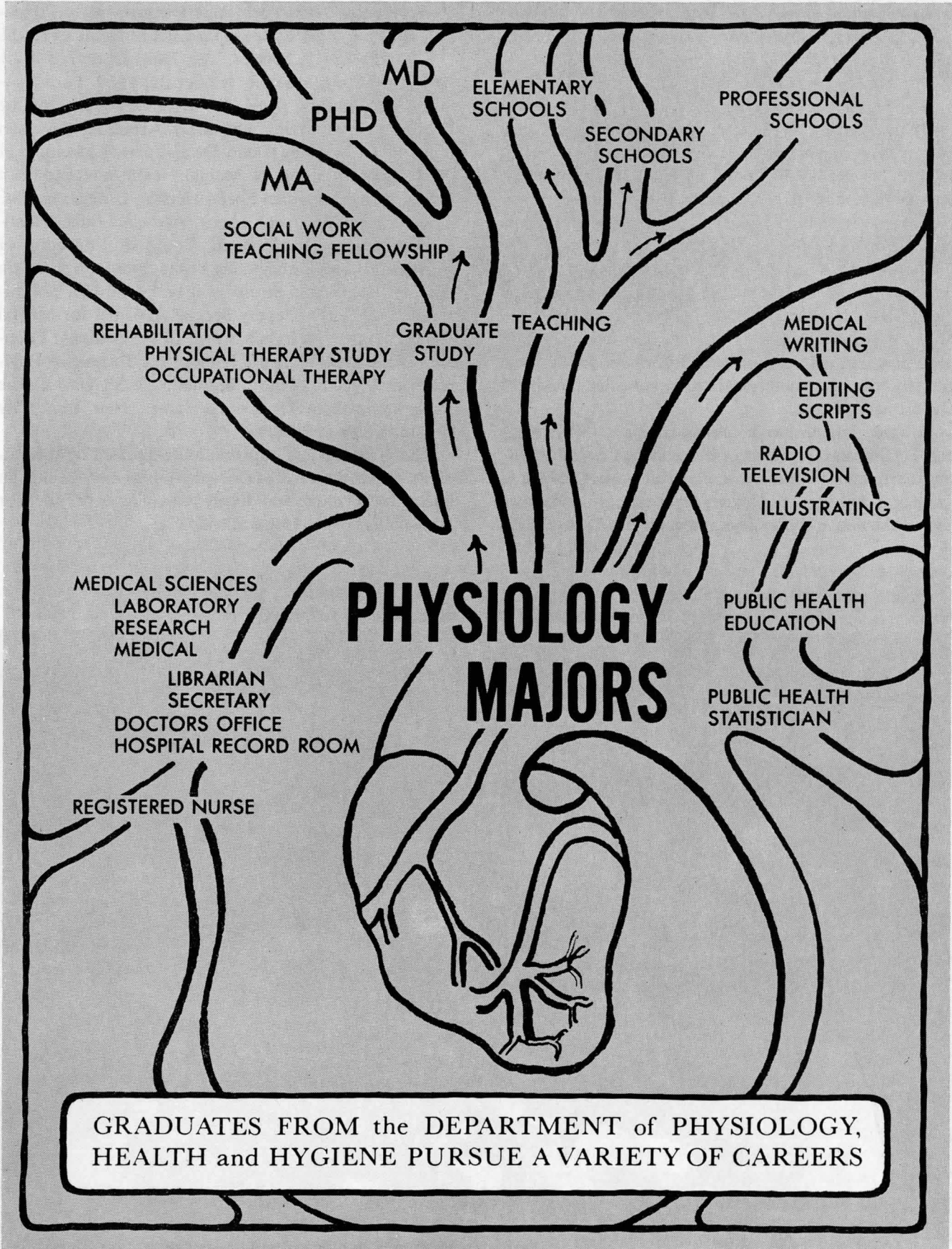
In graduate work, courses are given, and theses supervised by Drs. Benjamin, Konheim, Loop and Martin, and Dr. Carl Barlow (M.D. Columbia University) and Dr. Melvin S. Schwartz (M.D. New York University) as adjunct assistant professors. Dr. Anne Kaplan of the Rockefeller Institute joined our staff this Fall. Miss Mary E. Fitzgerald, Dr. Louis Kleinfeld and Mr. Abraham Marten instruct in the graduate Teacher Education program.

Members of the Department have published over one hundred articles in scientific journals such as *Acta Haematologica*, *American Journal of Physiology*, *American Journal of Public Health*, *American Journal of Roentgenology and Radiation Therapy*, *Anatomical Record*, *Blood*, *Endocrinology*, *Journal of the American Medical Association*, *Journal of Biochemistry*, *Journal of Cellular and Comparative Physiology*, *Journal of Endocrinology*, *Journal of Health*, *Physical Education*

*Graduate of Hunter.

Junior and senior students prepare for the study of the autonomic nervous system of the guinea pig





and Recreation, Proceedings of the Society for Experimental Biology, Science, The Teaching Biologist, Transactions of the New York Academy of Sciences.

Department faculty are members of numerous professional societies including American Association for the Advancement of Science, American Physiological Society, American Public Health, Animal Care Panel, Institute of Radio Engineers, Mental Health Society, New York Academy of Sciences, New York City and New York State Public Health Associations and Sigma Xi, of which half of the Department are members.

Unification of activities in the day session at Park Avenue and in the Bronx, in the School of General Studies and summer sessions on both campuses, and graduate work is attempted by meetings, a brochure of procedures, circulation of timely information sheets and cooperation of faculty, laboratory assistants and the Department secretary.

To give impetus to communications in Physiology and Health, the Department has assumed responsibility for the Annual Institute for Health Sciences, which is sponsored by the City University, the Board of Education of the City of New York, the New York City Board

of Health, the New York State Department of Education, the New York State Department of Health, and the U.S. Public Health Service. The Third Institute will be held in the Playhouse on October 29, 1964. Participating in the morning panel on "Health Problems of the Family in Urban Living" will be Dr. Arthur A. Anderson of the Payne Whitney Clinic, Dr. E. James Lieberman of the National Institute of Mental Health and Elizabeth Force of the American Social Health Association. The moderator will be Jacob Shack, Associate Superintendent, Curricular Development, Board of Education of New York City. Participating in the afternoon panel on "Mental Health and Stress" will be Edward H. Forgotton, White House Deputy Special Assistant for Mental Retardation, Dr. Virginia Apgar of the National Foundation and Dr. William Loring of the Bureau of Environmental Health of the U.S. Public Health Service. The moderator will be Dr. George James, New York City Commissioner of Health.

The gratitude and appreciation expressed by the students make the teaching of physiology and health an interesting, exciting and deeply rewarding experience for all members of the Department.

Professor Loop conducts a class in "Personal Hygiene"

