

United Way

The university-wide United Way campaign had raised \$51,000 as of Sept. 18, according to chairperson Janet Sanfilippo, who noted that approximately \$26,000 of that amount has been contributed by medical center personnel.

The medical center goal this year is \$48,000. Co-chairing the drive in the medical center are R.C. (Bucky) Waters, assistant to the vice president for health affairs, and William O. (John) Robinette, assistant administrative director of the hospital.

The university-wide goal is \$97,500, nearly 10 percent of the entire United Way goal for Durham County.

New text clarifies how disease occurs

The processes that underlie diseases in the human body are the subject of a new book just published by Little, Brown and Co. of Boston.

The book, "Pathobiology: How Disease Happens," was written by Dr. Frances K. Widmann, associate professor of pathology and assistant chief of Laboratory Service at the VA Hospital.

Widmann said her 400-page volume is designed primarily for students in allied health professions who are taking their first course in pathology. Such students include medical technologists, physicians' associates, nurses and pathology assistants.

Facts often isolated

"I wrote it because I felt that too many textbooks in the health professions are arranged like medical dictionaries," she said. "Students are too often left with a broad range of isolated facts that are easy to forget."

"Pathobiology: How Disease Happens" is an attempt to show how disease conditions are inextricably bound to the normal functions of the body, the physician said. The material represents a

framework upon which students can set knowledge gained in later studies, she added.

Widmann, who is also medical director of Duke's Medical Technology Program, said the text has been divided into 10 chapters that build on one another.

"Students who use the book will have to memorize less, but think more," she said

Glossary aids beginners

Among the subjects covered are cells, tissues, circulatory function, inflammation, immunology, infectious diseases, cancer, genetics and metabolic

diseases. There is also a glossary that explains many of the technical terms that confront and confuse beginning allied health students.

The physician said she believes educated laymen with an interest in medicine would enjoy reading the work because clarity was one of her principal concerns in writing it.

Widmann is the author of numerous articles and reviews. She is also the editor of the American Association of Blood Banks' Technical Manual and the past three editions of "Clinical Interpretation of Laboratory Tests."

Studies of 'motors,' fruit flies among projects funded by NSF

The National Science Foundation has awarded grants totaling \$191,878 to four scientists at Duke.

Dr. Jacob J. Blum, professor of physiology, has received \$45,000 to finance a study entitled "Ciliary Motility." Cilia are tiny hair-like structures that propel certains microorganisms through liquids and are also important in higher animals.

In humans, for example, they line parts of the lungs and help clean those organs by sweeping inhaled dust back to the throat. Blum will be studying how an enzyme called dynein promotes movement of cilia, which scientists say are among the "world's smallest motors."

Dr. Sheila J. Counce, associate professor of anatomy, has received \$61,878 in support of a two-year project entitled "Genetic Embryology of Drosophila."

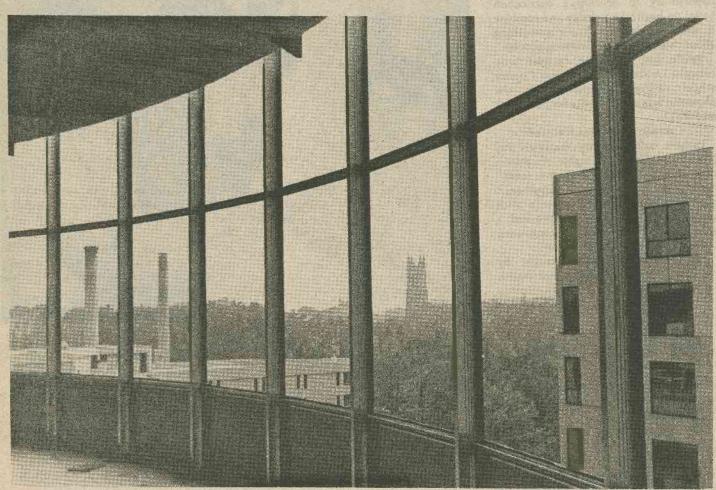
She will examine the effect of different temperatures on the development of embryos produced by sterile fruit flies. Because they are inexpensive, are easy to handle and breed rapidly, the insects have long been a source of genetic information for scientists.

Dr. Robert E. Webster, professor of biochemistry, will continue his studies of the "Morphogenesis of the Filamentous Bacteriophage" with the aid of a \$45,000 grant.

Webster said he is trying to elucidate steps in the buildup of bacteriadestroying virus on the cell membranes of the host bacteria. He hopes the research will provide information about membranes and how certain proteins assemble along them.

Dr. Robert L. Hill, professor and chairman of the Department of Biochemistry, has received an additional \$40,000 in support of his "Structure and Function of Glycosyl Transferases" study.

Glycosyl transferases are important enzymes involved in the synthesis of complex sugars in humans and animals, Hill said.



CHAPEL IN THE ROUND — Duke University Chapel is visible from the central core on the Duke Hospital North construction site. A portion of

the south bed tower is seen on the right and the roof of the Seeley G. Mudd Building is visible on the left. (Photo by Parker Herring)

Imaging Division

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involved in diagnosing illness from the outset rather than simply performing and evaluating tests ordered by a referring physician.

The reorganization also should aid research by allowing radiologists to be more accurate in comparing existing diagnostic procedures with each other and with those developed in the future, he added.

Putman said Ravin, who earned both his A.B. and M.D. degrees at Cornell University, will be associate professor here.

Ravin completed an internship in surgery in 1969 at the University of California's San Francisco Medical Center and his residency in radiology at the University of Utah in 1974. He served as Winchester Fellow in diagnostic chest radiology at Yale-New Haven Hospital the following year and was named to the Yale faculty in 1975.

His scientific efforts have been directed toward non-invasive methods of evaluating pulmonary arterial hypertension. He also has been analyzing physical factors that affect tomographic images in an effort to minimize distortion and improve picture quality.

The appointment of Stephen F. Phelps as administrative director of radiology in May is helping the department cope with the business aspects of its reorganization, Putman said.

Phelps, a 1959 graduate of the University of North Carolina, is a former vice president of Wachovia Bank and Trust Co. He has been assistant treasurer at Duke for the past four years.

This week on TV

Duke's Cancer Information Service will be featured on WRAL-TV's (Channel 5) "Aware" program tomorrow at 7 p.m.

Hostess Waltye Rasulala will interview Dr. Diane McGrath, director of cancer control for the Comprehensive Cancer Center, and information specialists Karen McCrory and Andy Silberman to learn about all the types of information offered by the service.

North Carolinians can call the service toll-free from anywhere in the state by dialing 1-800-672-0943. From Durham County, dial 286-2266.



SHE WAS A MAINSTAY AT DUKE — This photograph of Lillian Daniels Trevathan, which was taken in the 1930s or '40s, shows her in a pose familiar to long-time Duke employees. Mrs. Trevathan was an original staff member of Duke Hospital and was head of the hospital information desk until her retirement in 1969. She died Sept. 14 in her Durham home and is survived by her husband, one daughter, one grandson, three brothers and one sister. Memorial contributions may be made to the Trinity Avenue Presbyterian Church.