

ments in two minutes, thus greatly lessening the time and labor cost.

Also he noted, when the same set of surgical instruments is needed for two consecutive operations, the stepped-up cleaning process reduces the time lapse between operations. This makes possible more efficient use of operating room facilities.

The machine at Duke not only saves time and money, but gets instruments cleaner than was formerly possible with the best of conventional methods, Dr. Hart stated.

He explained that the machine's action depends on high frequency sound waves of 18,000 cycles per second striking the submicroscopic nuclei or particles found in all liquids. When one of these nuclei is struck by a sound wave, it collapses inwardly for a fraction of an instant. This creates a vacuum in the pin point of space formerly occupied by the nucleus.

The terrific pulling power of these vacuums attacks caked blood and other "protein soil" like countless vacuum cleaners, working in joints and crevices impossible to reach by any other practical method.

After immersion in the ultrasonic bath, the instruments are sprayed with hot water to remove loosened protein soil and then are dried by warm air. Steam sterilization completes the process of preparing the instruments for operating room use again.

Developed cooperatively by the American Sterilizer Company and Bendix Aviation Corporation, the new machine represents the first ap-

plication of ultrasonic cleaning for hospital use. Another such machine currently is in use in Augusta, Ga.

## Miss Jeffers at Italian Meeting

Miss Frances C. Jeffers of the Duke psychiatry staff participated in the 4th International Gerontology Congress July 14-21 in Merano and Venice, Italy.

She attended under provisions of a travel grant from the National Heart Institute, U. S. Public Health Service.

Miss Jeffers presented a paper on "The Impact of Awareness of Aging on the Individual" prepared by members of the Duke geriatrics research group and while abroad, she will also conduct gerontological research.

## This 'n' That

(Continued from page 6)

International Congress for Cell Biology at St. Andrews, Scotland. He isn't going to golf, but he might goof.

### Psychiatry

New residents in the Department are Drs. Dorothy Dobbs, Marvin Silverman, Victor L. Slater Jr., Donald Carter, William I. Stryker and Theodore Marshall.

Drs. Thad Barringer and William Dobbs have joined our Senior Staff.

Mrs. Nellie Andrews is Dr. Albert J. Silverman's new secretary. Mrs. Anne Smith has taken over the duties as secretary to Dr. Robert Dovenmuehle.

Mr. and Mrs. Carl Eisdorfer are the proud parents of a baby girl. Dr.

and Mrs. Dietrich Heyder also have a new baby girl.

On July 11, Dr. and Mrs. Ewald Busse entertained at a wiener roast for our new residents, staff, research assistants, and psychology interns.

Dr. and Mrs. Gus Newman are receiving congratulations on the birth of a baby girl. —By Ann M. Hood.

### Anesthesia

New residents in anesthesiology are Drs. John Harland, Vartan Vartanian and Akio Banzai.

Dr. Leonard W. Fabian and family spent two weeks vacation in Little Rock, returning July 18.

Miss Mary Ann Powers and Dr. Frank Fazio were married July 20 and Mrs. Fazio will join our staff of nurse anesthetists August 1.

Mrs. Mary Gardner returned to full time work in our department July 15.

Six nurses who completed the post-graduate course in anesthesia July 31st were: Patricia Brown, Barbara Lyons, Lucy Morris, Mary Ann Powers, Golden Ray and Catherine Reilly.

After two years here in the anesthesia department, Dr. Koji Take-shima has returned to Japan.

Mrs. Ruth Jolls is replacing Mrs. Inez Champion who resigned June 1 to move to Florida.—By Ruth Jolls.

### Physiology

Dr. Penrod and family enjoyed a week's vacation at Roaring Gap.

Dr. Hull and family have returned from a vacation trip of two weeks in Miami. —By Sue Gaines.

## Duke Hospital

Durham, N. C.

Miss Nellie Sue O'Briant  
# 12 Carolee Apts.  
City.

