

# Nursing students 'dissect' trumpet player

By Ina Fried

What happens to a musician's blood pressure, heart rate and respiration when the musician plays a trumpet?

Ninety-six sophomore nursing students watch as graphs showing the trumpet player's physiological changes are projected from a physiotape, a new teaching tool, onto a screen in front of them. A synchronized voice explains what is happening.

The graphs were made as the trumpet player performed, explained Dr. Pauline Gratz, professor in the School of Nursing.

"As he blew, his physiological parameters were measured and recorded on a physiograph which fed into a cassette," she said.

The advantage of this technique, she added, is that material on the cassette can be plugged into the physiotape and reproduced to be seen by the whole class.

Pre-recorded cassettes are available on a variety of topics such as "Reflex Control of Arterial Pressure," "Effects of Chemicals on Breathing and Blood Pressure," "Adaptation to Heat or Cold" and "Intestinal Motility."

"With students brought up in an era of multi-media, the physiotape makes more impression than having to dissect an animal," Gratz said. She received a \$4,000 grant from the Undergraduate Teaching Council to explore the use of this

innovative teaching method as part of a course in "Human Ecology."

"The physiotape is expensive, but in the long run it's cheaper than providing instruments and animals for this many students," Gratz said. "The students have said they enjoy and appreciate seeing live data without having to spend time setting up an experiment that might not work. An experiment can be visualized and

discussed in 15 minutes rather than in hours.

"The students still have labs, but we can do different kinds of things there now," she said.

Gratz read of the physiotape in the journal *Physiology Teacher*. The tapes are prepared and narrated by Dr. J. D. Witherspoon, Southwestern at Memphis for Narco Bio-Systems, Inc.



**NEW TEACHING TOOL**—Dr. Pauline Gratz, professor of nursing, adjusts the physiotape before a class. Through the use of an overhead projector and cassette combined with a physiograph, the machine can show to a large group of students pre-recorded graphs of physiological changes. A taped voice explains the graphs at the same time. (Photo by Ina Fried)



## Duke cookbook out in time for holidays

If you are looking for some new recipes for the holidays, 300 fellow Duke community members can provide suggestions.

*Duke University Recipes* has been published by the Duke University Library Staff Association.

Among the medical center personnel whose recipes are included are Barbara E. Echols, coordinator, special and regulatory programs, Office of the Vice President for Health Affairs; Dr. Jeffrey J. Collins, assistant professor of surgery and microbiology and immunology; and Catherine O'Foghludha of the Nearly New Shoppe.

Copies of the cookbook are available for \$4 in Room 117, Perkins Library, in the East Campus Library or by calling Catherine Leonardi at 684-6359.

The book, edited by Leonardi, features drawings by Jada Kelley of the Perkins Library staff.

### Bi-weekly payday Dec. 22

Bi-weekly employees will receive paychecks Thursday, Dec. 22, instead of Friday. This early payday was inaccurately reported in last week's *Intercom*.

# Personal touch keeps kids from becoming numbers

(Continued from page 1)

so they will feel they're a part of what's going on. If there is a special grandmother or a minister who can provide support, they will be included also."

Should a mother have trouble coping with her child's illness, the nurses will try to have another mother who lives in the same area and has coped well in the past contact her.

At the same time, they encourage families to treat the affected youngsters

as normally as possible since children who are continually protected, sometimes even after they are well, can grow up to be unproductive adults.

Both agree that because they get so close to their charges over long periods, the death of a child is always the hardest part of their jobs.

"In our work, not every child can be saved," Patton said, "and it can be a devastating personal loss."

"No, we never get used to such a loss

emotionally, but we can't let ourselves get so upset that we don't take care of the families," Bullard said. "We have to make sure that when they want to go home, there's a friend there to drive them so they won't have an accident. If they are going to need support at home, we have to know whom to contact."

### On call 24 hours a day

The young women, whose duties also include teaching other nurses, are on call 24 hours a day and every other weekend. They carry "beepers" wherever they go.

Ten-and 12-hour days are routine, and Bullard recalls working 30 days straight last summer.

The response of patients and their parents indicates how the clinicians make a difference to the hospital experience. Both nurses have thick files of letters in which the words "professional," "caring," "dedicated" and "kindness" appear again

and again.

Gifts have ranged from jogging tee shirts, jewelry and roses to drawings done by the children.

### The highlight

"The gifts are almost embarrassing," Bullard said, "because there are a lot of doctors and nurses who work as hard as we do and don't get them."

Ceeya Patton calls the Wednesday heart clinic where patients are seen for check-ups after surgery "the highlight of our week."

"When children we have spent a great deal of time with come bubbling in as well children six months or a year later saying 'Where's Wendy? Where's Ceeya?' that makes it all worthwhile," she said.

"A great satisfaction of nursing is in healing and caring and helping," Bullard added. "It would be a lot harder if we didn't get to see them."

## Campus Club sets lecture series

The Dukes of Durham, energy, Duke Forest and Africa will be the subjects of four lectures presented by the Campus Club in January and February.

Dr. Robert F. Durden, professor and chairman of the Department of History, will begin the series Jan. 11 with "Dukes of Durham: Typical and Atypical Tarheels."

Dr. Jack B. Chaddock, professor and chairman of the Department of Mechanical Engineering and Materials Science, will discuss "Energy for the Future" on Jan. 25.

The Dean of the School of Forestry and Environmental Studies, Dr. Benjamin A. Jayne, will speak Feb. 8. His topic will be "Duke Forest: A Resource in Transition."

The final lecture will be "Africa: Past,

Present and Future." It will be presented Feb. 22 by Dr. Jean F. O'Barr, director of the Office of Continuing Education, and Dr. William M. O'Barr, associate professor of anthropology.

Tickets for the series are \$4 and may be obtained from Mrs. M. W. Skolaut, Rt. 2, Box 110, Chapel Hill, N.C. 27514, or from Mrs. R.H. Powell, 719 W. Cornwallis Rd., Durham, N.C. 27707. Individual tickets are not available.

The lectures will be held in the East Duke Building Music Room from 10-10:50 a.m. There will be officer-directed parking.

Suggested reading to prepare for the lectures is on reserve in the East Campus Library.



**A FAREWELL FOR DOROTHY HEYMAN**—A large number of her medical center friends passed through the Board Room Nov. 28 to honor Dorothy Heyman on her retirement from the Center for the Study of Aging and Human Development. Here she and her boss, Dr. George Maddox, read the engraved inscription on a silver tray that was presented to her. At right is Betty Ray, secretary in Maddox' office. Heyman had had long service in medical social work before joining the center here on a geriatrics research project in 1958. Since 1971 she also had served as executive secretary to the center and had an academic appointment as assistant professor of psychiatric social work. (Photo by John Becton)