We're number one in (celebrity) golf

By John Becton

Monday they kicked off a golf tournament by talking about basketball.

The golf tournament is the fifth annual Children's Classic, celebrity golf invitational, which raises money to "help Duke heal children." It will be held May 27-28.

The kickoff was a luncheon and press conference at the Royal Villa in Raleigh, and the basketball talked about was Duke basketball which was represented by Coach Bill Foster and All-ACC player Jim Spanarkel.

To fight neurological disorders

Dr. Samuel L. Katz, professor and chairman of the Department of Pediatrics, announced that proceeds from this year's tournament will go to the Division of Pediatric Neurology to support the treatment and care of children with neurological disorders, especially epilepsy.

Katz also described briefly the fifth floor of the new Duke Hospital North which will house the pediatrics department.

"It is designed to provide maximum comfort for the patients and to make their stay in the hospital as effective and pleasant as possible," he said.

Biggest group of stars

Jerry Neville, executive director of the tournament, said this year's event would feature "the biggest group of stars ever assembled for the classic, and probably the biggest group of celebrities ever to come to this area at one time."

Some features which have been added to the tournament weekend include mini-clinics given by sports stars and a prize of a new Dodge automobile for a hole-in-one during tournament play.

Among the sports stars who will be here are National Football League quarterbacks Ron Jaworski and Jim Hart, along with Hart's teammate Steve Jones, a former Duke star; Duke and professional basketball greats Jeff Mullins and Jack Marin; former Yankee pitching ace Whitey Ford; and ACC basketball coaches Dean Smith and Norman Sloan.

Good morning, David

A new but familiar face at this year's classic will be David Hartman, another well-known Duke graduate who turned down a professional baseball contract to enter the entertainment field. He currently is the host of ABC's "Good Morning, America."

Of course, honorary tournament chairman Perry Como will return as will "Mr. Guitar" Chet Atkins, actors Mickey Rooney, Jack Albertson and Al Freeman Jr., comedian Woody Woodbury and sportscaster Billy Packer.

Appearing for the first time will be the "comedian's comedian" Jack Carter and popular country music star Jimmy Dean.

According to the coach

That last one really pleased Foster who said he was a fan of country music.

Spanarkel also said he was impressed

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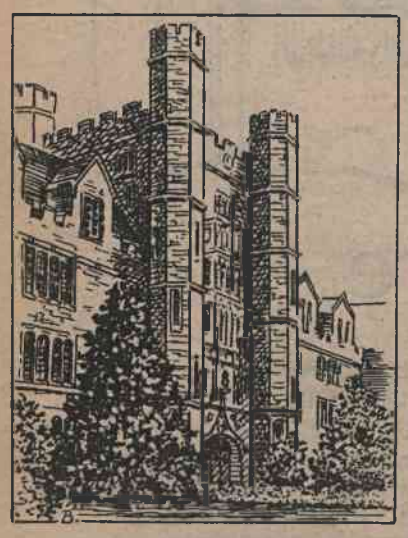
SPEAKING OF TOURNAMENTS — Duke basketball coach Bill Foster was a featured speaker at Monday's kick-off for the Children's Classic, celebrity golf invitational.



Duke University Medical Center Intercom

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Simple, rapid technique gives clearest picture

By David Williamson

Scientists here have developed what they say is an important new microscopic technique for studying meiosis, a stage in the biological process by which sperm and egg cells are produced.

The technique, according to Dr. Montrose J. Moses, professor of anatomy, is both simple and rapid, and also offers the clearest picture yet of certain abnormalities in chromosomes, the carriers of all genetic information.

"Among the potential benefits of this new method are improved diagnosis of infertility and more accurate genetic counseling for patients whose children may suffer birth defects," Moses said.

"It has already provided us with new information about the mechanics of meiosis and promises to supply much more," he added.

Until now, the most commonly used laboratory technique for studying meiosis has involved imbedding tissue samples from animal and human testes in plastic and then shaving off hundreds of extremely thin sections to photograph under the electron microscope.

Preparation of the specimens and photographs can take a week or more.

The scientist said the new technique involves a "microspreading" process in which cells are placed in a small puddle of saltwater in a dish. When the puddle is swept clean with lens paper, the surface

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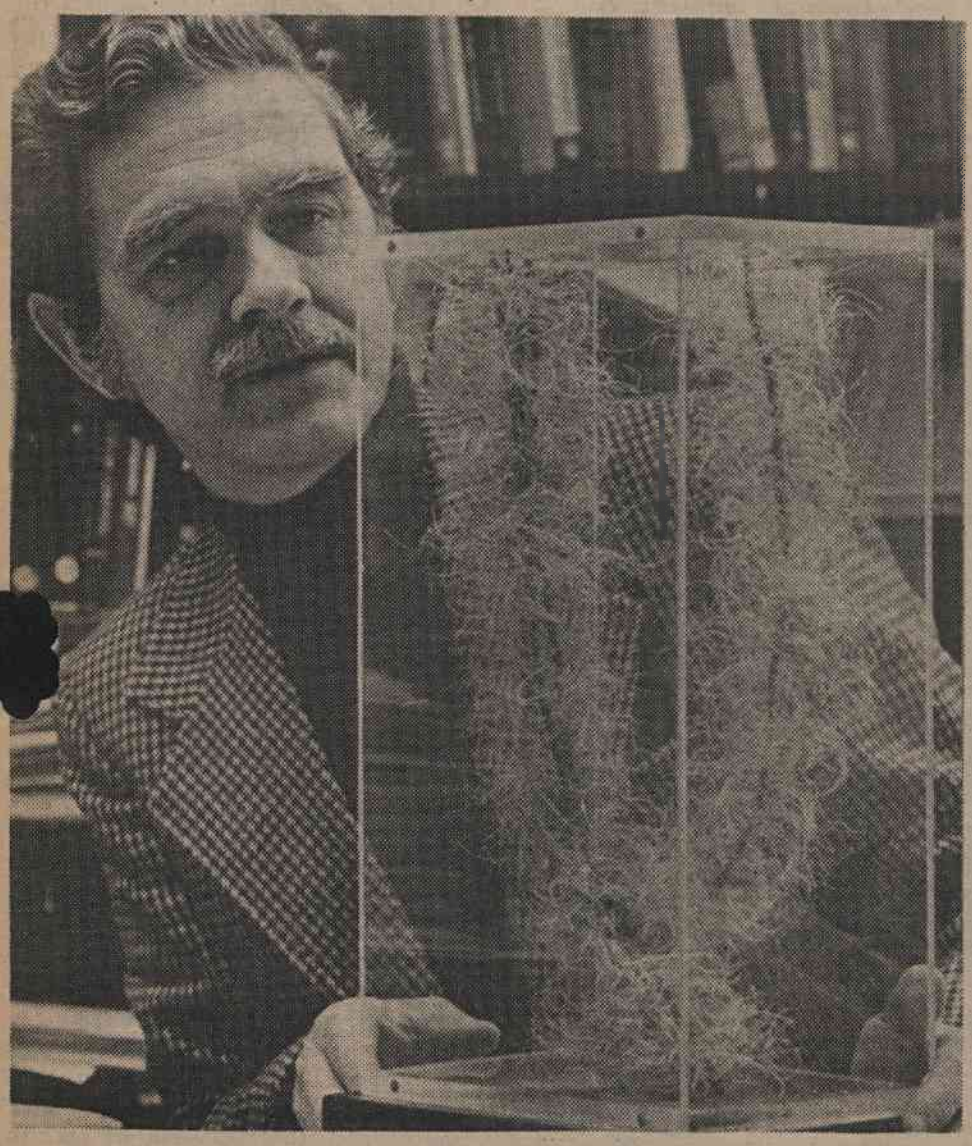

LARGER THAN LIFE — Dr. Montrose J. Moses, professor of anatomy, examines a model of two chromosomes he constructed many years ago. He is currently using a promising new microscopic technique to study certain abnormalities in chromosomes, the carriers of all genetic information. The technique clearly outlines the synaptonemal complex, a kind of backbone structure formed during meiosis. *(Photo by Jim Wallace)*

Sixteen-year-old creates device to make heart surgery safer

By David Williamson

There aren't many high school juniors who can say that they have helped to make open heart surgery safer, but John Karis of Durham can.

The 16-year-old Jordan High School student has designed and constructed a device that has been used almost every day since Christmas in the open heart rooms at Duke.

John's device is a tool for anesthesiologists, the physicians who put patients to sleep before operations and keep watch over vital signs during surgery. It assures them that electrical interference will not disrupt electrocardiogram readings when those readings are most critical.

A clear signal...

Dr. Larry Burton, assistant medical research professor in anesthesiology, said he and Dr. Fritz Klein, also an assistant professor, served as "sounding boards" for John, but the young man did all the work himself and "made a real contribution to health care at Duke."

Explaining the need for the device, Burton said that before surgery, a technician attaches electrodes to the arms and legs of a patient so that an electrocardiograph machine can monitor and record electrical activity in the heart.

Occasionally, however, an electrode is defective or the technician applies it without preparing the patient's skin for the best conductivity.

"When the operation begins, you can still see a nice clean signal on the electrocardiogram, and so there is no indication that anything is wrong," he said.

...but a hostile environment

"Later, though, after the patient is put on the heart-lung bypass machine, many more electrical machines are used. What you wind up with is a more and more hostile environment, electrically speaking."

If one of the electrodes malfunctions, electrical fields generated by equipment in the operating room can distort an

(Continued on page 3)