



DTH/Jamie Francis

**New view**

Rich Beckman instructs his Journalism 180 class (advanced photojournalism) in front of Howell Hall. The students here are learning how to use a view camera, used for large format photography.

**New cancer treatment to be tested at NCMH in fall**

By TOM CONLON  
Staff Writer

Doctors at N.C. Memorial Hospital this fall will begin testing a cancer treatment that uses heat to kill tumor cells, called hyperthermia.

The treatment, which is still in the research stages, involves heating tumor tissues with microwaves to reduce their size and make the patient more comfortable. "Hyperthermia is yet another means of treatment for patients who have not been cured by chemotherapy (a drug treatment) or radiation therapy," said Danny Bourland, a research assistant for the UNC department of radiology.

Bourland added that N.C. Memorial will be testing a \$100,000 hyperthermia machine manufactured by Cini-Therm Corporation of Dallas, Texas. The device has been approved for investigational studies by the U.S. Food and Drug Administration and placed with the hospital under a contract with Hyperthermia

Associates Ltd., a research and development group.

"The treatment will use a device similar to a microwave oven without a door," Bourland said. "It will be placed against parts of the body where the cancers are prevalent. Body tissues are then heated, which can be successful in killing tumor cells."

Bourland said that patients' tumors will be heated to 108 degrees Fahrenheit for one hour twice a week during the first two weeks of radiation therapy treatments.

"Hyperthermia is similar to the rays given off by an infrared lamp, only more penetrating," said Dr. Edward Chaney, associate professor of radiation therapy at the School of Medicine. "Patients' progress will be compared to a group of patients with similar tumors receiving standard radiation therapy only."

Bourland said that treatment should start within a month and that they expect about two patients a week. Hyperthermia has shown promise in early studies con-

ducted on 23 patients in Chapel Hill, he added.

Dr. Mahesh A. Varia, acting director of the radiation division at N.C. Memorial, has said researchers do not yet know why hyperthermia works to reduce tumors but that it appears to be particularly effective when combined with radiation therapy or certain types of chemotherapy. The heat apparently damages different parts of the cancerous cells, he added.

In addition, the heat treatment may damage the blood supply to the tumor. This may enable physicians to heat the tumor to a much higher temperature than the surrounding skin because the tumor may not be able to get rid of the heat as well as the surrounding tissues can.

"Conventional therapies, such as surgery, radiation and drug treatment, work best with small tumors," Varia said. "Hyperthermia has an added advantage because it appears to work well, even with large tumors."

**World population increases by 82 million**

The Associated Press

WASHINGTON — The world registered its biggest 12-month population increase in history in the past year and reached 4,721,887,000 people by mid-June, with more than half the total living in China, India, the Soviet Union, the United States and Indonesia.

The one-year increase of 82,077,000 people was equivalent to adding the entire population of both Mexico and Somalia to the world, or populating Switzerland again each month or the Bahamas each day.

The Census Bureau, in a report issued Tuesday, said the world has grown by nearly one billion people since 1970.

While world growth rates have leveled off at about 1.8 percent since the mid-1970s, down from a peak of 2.2 percent a decade earlier, increases in the number of people continue to climb because the same percentage applies to a rising population base each year, said Sam Baum of the bureau's Center for International Research.

This, he said, means that the 1982-83 population increase set a record even though the percentage of growth remained about constant.

"And it will get larger each year unless the growth rate starts down again," he said.

The annual population increase peaked at more than 79 million in the year ended June 30, 1971, and then declined with the dropoff in the growth rate. But the rate's leveling off allowed the growth total to begin rising again. It climbed back to the 1971 level in 1981, rose by 81,592,000 last year, and topped that total this year.

The leveling off in the growth rate coincided with improved medical care which reduced death rates in many countries, said Jean Van Der Tak of the Population Reference Bureau, an independent population study group in Washington.

Lower death rates beginning in the 1960s have provided a larger pool of women of child-bearing ages today, she said, which leads

to a rise in births even if the number of births per woman drops slightly.

Van Der Tak reported that declines in population growth reported earlier in China and Indonesia were found to be smaller than first believed, and that India's campaign to limit births in recent years had yielded very little improvement.

In the two most populous nations, China rose by 14,984,000 people to 1,059,802,000, and India by 15,503,000 people to 730,572,000.

Van Der Tak said China had achieved a decline in growth rate in recent years, with strict government measures aimed at encouraging families to limit themselves to one child each.

But she said a rash of Chinese births is likely in the next few years, partly as a result of a 1981 law allowing people to marry at a younger age and the large population of young people born in a "baby boom" 20 years ago.

The report said more than half the world's people live in the five largest countries — China, India, the Soviet Union with 272,308,000, the United States, 234,193,000, and Indonesia, 160,932,000.

Indonesia was third in growth after India and China, adding 3.3 million, followed by Brazil with an additional 3 million, and Bangladesh, which grew by 2.9 million.

During the year, the population of the United States increased an estimated 2.1 million, while the Soviet Union gained 2.3 million.

A few countries saw population declines in the past year, for reasons ranging from successful birth control drives to rising affluence to an exodus from Afghanistan because of the Soviet military occupation.

The biggest country showing an actual population decline was West Germany. Others, besides Afghanistan, included Cook Islands, Denmark, Djibouti, Dominica, East Germany, Guadeloupe, Hungary, Lebanon, Malta, Martinique and St. Christopher-Nevis.

**Orientation stresses non-alcoholic fun**

By HEIDI OWEN  
Staff Writer

In years past, Orientation week for some UNC freshmen has meant seven days of drunken stupor and hearty partying.

This year the Orientation Commission focused freshman attention from beers to books.

Stricter regulations on the serving of alcohol were in effect at Orientation events last week, and alcohol awareness programs were presented to new students. It was all part of an effort to make students as aware of the academic aspect as the partying side of UNC life, said Donald Boulton, vice chancellor of student affairs.

The Orientation Commission allowed only one social event in each of the nine residence areas to serve alcohol during the week. At that event, one keg was allotted to each 100 persons and strict carding was in effect, said Shirley Hunter, assistant dean of student life and coordinator of the Orientation program.

"There was no serving of two or three drinks at one time to anyone, and an attempt was made not to serve anyone obviously intoxicated," Hunter said.

Boulton said the emphasis away from alcohol was a response to concern expressed about Orientations of years past.

"The de-emphasis on alcohol was the result of freshmen in the past who asked why there were so many activities sponsored by the Orientation Commission which served beer," he said. "The slide show viewed by freshmen at convocation even oriented students to the party aspect and not to the school."

The focus away from alcohol will also prepare students for the tightening of alcohol laws, Boulton said. On Oct. 1, the drinking age for beer and wine will be raised to 19.

"Considering that three-fourths of the freshman class will be affected by the law in October, I think this was a means by which to get these students into the spirit of the school as opposed to the other side

of college," Boulton said.

"It's a very good direction and one that the students seem to be comfortable with," he said.

Those involved with Orientation said the absence of alcohol did not hinder the week's social activities.

"I think that most people associate alcohol with a party, but that's not always the case," said Olde Campus Area Director Al Calarco. "We sponsored a cookout and a build-your-own-sub party, as well as other events, and the attendance was better than ever before."

Orientation Commission member Terry Blackwood said that the STOW/Olde Campus/Morehead band party on Aug. 25 didn't serve beer "and there was a huge crowd."

Hinton-James Area Director Cindy Wolf said the situation was much the same there.

"Alcohol was not the issue concerning our attendance," she said. "We had an ice cream graffiti party that was our biggest success."

**Beirut**

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"With this performance of our forces, we will, I believe, be able to move into the mountains without the involvement of any foreign forces," he said.

Israeli forces who invaded Lebanon in 1982 to try to smash the Palestine Liberation Organization, plan to vacate the central mountains before Sept. 7 and take up positions in southern Lebanon in hopes of cutting casualties.

The Israelis have agreed to withdraw from Lebanon but only if the Syrians also pull out. But the Syrians, who have been in Lebanon since snuffing out the 1975-76 Moslem-Christian civil war, refuse.

**elections**

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majority of votes cast including those by Aldermen Boone, Caldwell, Jim White and Joyce Garrett.

Prior to the 1981 elections, in which Caldwell, White and Garrett won seats on the board, the conservative coalition members of the board were in the majority.

Another potential board candidate, former Alderman Doug Sharer, announced in August that he would not run for election. Sharer, who had been aligned with the coalition, said he wanted to spend more time on his career.

**CAMPUS CALENDAR**

Compiled by Janet Olson

Public service announcements must be turned into the box outside the DTH offices in the Carolina Union by 1 p.m. if they are to be run the next day. Only announcements from University recognized and campus organizations will be printed. All announcements must be limited to 25 words and can only run for two days. In the event that the Calendar does not run because of space limitations, groups should turn in announcements at least two days in advance to ensure they run at least once.

**TODAY'S ACTIVITIES**

Men's rugby practice will be held at 5:30 p.m. on Glen Lennox Field. New and experienced players are welcome. Rides will leave from Ehringhaus Field at 5:15.

The UNC Debate Team will hold an organizational meeting at 7:30 p.m. in 209 Bingham Hall. All interested persons are welcome.

IVCF south chapter will hold a potluck supper today at 6 p.m. in the Craig Dorm coffee house. There will be food, fun and fellowship for all. IVCF off-campus chapter welcomes all off-campus students to a fellowship meeting at 7 p.m. in the basement of the Chapel Hill Bible Church, 1200 Mason Farm Rd.

WXYC sportscasters: There will be a meeting for all returning casters and any interested newcomers for this year's sports staff at 6 p.m. at WXYC in the Carolina Union.

Fellowship of Christian Athletes will meet today at 8:30 p.m. in 208, 209 Carolina Union. Come and enjoy.

Phi Theta Kappa alumni will meet today at 8 p.m. in the Union. All alumni are encouraged to attend.

UNC Pre-Law students: The UNC Pre-Law Club will meet in the Union at 3:30 p.m.

Pi Lambda Phi Jam — today at 9 p.m. featuring The Clue and five legs. Join us for hot tunes and cold frosty ones. The performing arts committee will meet today at 4 p.m. in room 210 of the Union.

**ITEMS OF INTEREST**

Auditions for a violinist for PlayMakers Repertory Company's production Dracula will be held Friday and Saturday. Call Kim at PKC for an appointment — 962-1122.

ESAT (Law School Admission Test) will be given Oct. 1. Applications must be postmarked by Thursday. Late registration until Thursday, Sept. 8. Applications are available in Nash Hall.

Apply for the Toronto Exchange, a cultural exchange between UNC and the University of Toronto. All students are welcome! Applications are available at the Carolina Union information desk today through Sept. 2.

Application for the Oct. 1 MCAT (Medical College Admissions Test) are available in 301D Suede building and in Nash Hall. Applications must be postmarked by Sept. 7.

Applications are now available in Suite C of the Carolina Union for freshmen and junior transfers interested in working on a Student Government committee this year. Completed applications must be turned in to Suite C by 5 p.m. Sept. 7.

Application materials for most pre-professional and graduate school admission testing programs are available in the Student Development and Counseling Center in Nash Hall.

UNC Crew Club needs a coach. Contact Mike at 942-6588.

**March of Dimes**  
Fight Birth Defects

Starts Fri. — New French Comedy THE GIFT LATE SHOWS Friday & Saturday: EATING RAOUL & THE ROAD WARRIOR

**The New Varsity 1&2**  
E. Franklin, Chapel Hill — 747-9445

"UTTERLY OUTRAGED!" — Andrew Sarris, Village Voice  
"SEARING EMOTIONAL POWER." — Chesire, The Spectator

**Querelle**  
3:00 • 5:00 Ends 7:00 • 9:00 Thurs.

PRESENTED IN KINTEK STEREO  
"A DELIGHT. Something special . . . better even than 'Lianna' and 'Return of the Secaucus 7.'" — Vincent Canby, New York Times

A NEW FILM BY JOHN SAYLES  
**BABY IT'S YOU**  
3:30 • 5:30 • 7:30 • 9:30 (R)

**THE CAROLINA THEATRE**  
DOWNTOWN DURHAM 688-1939

North Carolina Premiere  
"UNUSUALLY RICH"  
... A fine new French film. Gerard Depardieu is superb — Vincent Canby, New York Times  
"A MYSTERIOUSLY BEAUTIFUL LOVE STORY. YOU'LL BE SWEEPED AWAY!" — Guy Fletely, Cosmopolitan  
"LUSTY... A richly atmospheric tale." — Bruce Williamson, Playboy  
"TRULY REMARKABLE AND FASCINATING!" — Judith Crist

Moustapha Akhad presents  
**Gerard Depardieu Nathalie Baye**  
**The Return Of Martin Guerre**  
7 & 9 Daily  
1, 3, 5, 7, 9 Sunday

Welcome Back Students

We're easy to find  
Take 15-501 bypass to Cornwallis Rd., right at stop sign, left on Academy Rd. (Rt. 75), right to Duke Univ. Rd., turns into Chapel Hill St. See map.

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(Formerly McGinty's Sport Shop downtown.)

**PLITT THEATRES** CLASSIC SCHEDULES AVAILABLE IN LOBBY!!!

LATE SHOW FRI. & SAT. **CADDYSHACK** 11:30

HELD OVER **RETURN OF THE JEDI** 7:10 • 9:30 only! PG

**SHE'S A MANIAC! Hurry Ends Soon!**  
**FLASHDANCE** 3:00, 5:00, 7:00, 9:00

**CAROLINA CLASSIC SERIES!!!**  
James Dean in his starring debut.

From the GREAT NOVEL comes a SENSATIONAL PICTURE!  
**CINEMASCOPE**  
**EAST OF EDEN**  
John STEINBECK'S  
Julie HARRIS - James DEAN  
Richard MASSEY - Richard DAVALOS

STARTS FRIDAY 2:45 • 5:05 All Seats \$2.25

**USED FURNITURE**

- LARGE SELECTION of used chests, sofas, chairs, bedding, lamps, bookcases, desks
- LARGE SELECTION of unfinished furniture
- NEW mattress and box springs at discount prices

**TRADING POST**  
106 S. Greensboro St., Carrboro  
942-2017 Mon.-Sat. 10 am-5 pm

**REFRIGERATORS FOR RENT**

Smalls Only  
Available September 1

James Parking Lot —	3:45-4:15
Craige Parking Lot —	4:20-4:45
Eringhaus Parking Lot —	4:50-5:15
Morrison Parking Lot —	5:20-5:45
Front/Parker —	5:50-6:10
Beside Mangum —	6:15-6:40
Cobb Parking Lot —	6:45-7:20
Front/McIver —	7:25-7:45
Carr Bldg. Circle —	7:50-8:15

**FINAL DURHAM BULLS HOME STAND**

**VS KINSTON BLUE JAYS**

THURSDAY, SEPT. 1 — HERALD/SUN COLLEGE STUDENT NIGHT — All area college students with I.D. will be admitted for \$1.00 — Also the Durham Companions will be selling advanced tickets to this game to raise money.

FRIDAY, SEPT. 2 — TEAM PICTURE NIGHT — First 1000 fans will get a FREE team picture and will be allowed on the field from 6:45-7:15 to get autographs.

SATURDAY, SEPT. 3 — THE RETURN OF THE CHICKEN — Avoid the lines and get your tickets in advance for this great event.

CALL 688-8211 FOR MORE INFORMATION