

# Cancer treatment operates by magnets

**United Press International**  
**LOS ANGELES**—A new cancer treatment in which doctors use magnets to draw cancer cells from bone marrow then return the healthy marrow to the body has had promising results in an experimental operation on a young man, scientists say.

Scientists at the Jet Propulsion Laboratory in suburban Pasadena, where the technique was developed, disclosed Monday it was used April 25 in London to treat a 23-year-old man for neuroblastoma, an often fatal type of cancer that originates at the adrenal glands near the kidney.

The man was reported to be in good condition, but researchers said it would be three weeks before it could be determined if the operation was successful. Doctors planned to use the process Tuesday for the second time, to treat an Irish boy whose bone marrow will be flown to London.

The technique, used in combination with conventional chemotherapy, relies on magnetic "immunomicrospheres" — or beads — of polystyrene plastic to cleanse the bone marrow of cancer cells.

"The mixing of the magnetic beads with the bone marrow takes place after the marrow is taken out of the body," Dr. Edwin Beckenbach, director of JPL's biomedical program, explained.

"You put a magnet next to the mixture and the cancerous cells are drawn off. That leaves behind healthy marrow," which is returned to the body.

In laboratory tests, researchers have been able to remove

particular radiation therapy, you can be quite successful in killing off the cancer cells in his body," Beckenbach said. "But you also damage other parts of the body at the same time."

Under the treatment, 10 percent of the bone marrow is drawn out with a syringe. Chemotherapy is used to treat the remainder.

The portion of marrow removed is treated with the magnetic plastic beads, then returned to the patient's body to carry on immune functions while regenerating to replace the marrow damaged by radiation treatment.

Henry Fuhrmann, a JPL spokesman, noted the technique is only a first step in cancer treatment.

"Cancer originates in the tumor and spreads through the bone marrow," he noted. "This treatment is handling the second part of that, the spread. What remains is treatment of what's causing the cancer."

JPL chemist Alan Rembaum worked with biochemist John T. Kemstead of the Imperial Cancer Research Fund in London and chemist John Ugelstad of the University of Trondheim, Norway, in his immunomicrospheres research.

*The technique, used in combination with conventional chemotherapy, relies on magnetic "immunomicrospheres" — or beads — of polystyrene plastic to cleanse the bone marrow of cancer cells.*

99.9 percent of tumor cells from marrow samples.

The breakthrough if the technique proves successful, researchers said, would be the ability to retain the bone marrow's healthy cells, which help fight infection, while killing the cancerous cells. Chemotherapy renders the marrow incapable of carrying out its role in the body's immune system.

"If you simply treat the patient with any kind of therapy, in



*On a Pedal-still*

photo by Craig Harris

Someone put this bicycle on the bulletin board near Rudder Tower Thursday either for safety's sake, or as a practical joke. Finals pressure can do strange things to people, especially students.

# Polyester inventor washing the image of the fabric

**United Press International**  
**DALLAS** — Even though 95 percent of all Americans wear at least some polyester clothing, the product's image could stand in need of a makeover.

Dmitry Gagarine, former president and research director of Milliken & Co., Spartanburg, S.C., is on the road with soap and water, doing just that. "We have corrected just about everything that was wrong with polyester," says Gagarine, a scientist-turned-pitchman who led a team that developed

an improved polyester product named Visa for Milliken. Now he has left retirement on his South Carolina cattle farm to promote the remarkable qualities of Visa and, in doing so, to scrub clean the somewhat tarnished image polyester received back in the days of double-knit leisure suits.

Gagarine, a Russian-born textile chemist, was one of the inventors of wash-and-wear fabrics. His identification as a man who freed American women from their ironing boards has

helped give him an audience on radio and television interview shows.

He carries with him samples of Visa fabrics that look and feel like woolen worsted and gabardine, linen, silk and cotton.

"Polyester had a bad name. We have had to change the public perception of polyester," he said. "It had an especially bad reputation in Texas and the Southwest because it didn't breathe. By that we mean it did not transport moisture. When it was hot, it bottled up moisture

between the skin and the fabric and was very uncomfortable."

But Visa transports moisture, he said. In a Visa garment, moisture moves to the outside where cooling evaporation takes place.

Visa also releases stains, which Gagarine demonstrates by washing white polyester fabrics stained with vegetable oil. The oil floats off the Visa garment but stays imbedded in the normal polyester.

And Visa also resists greying. Gagarine demonstrates this by dousing the fabrics in water mixed with dirty motor oil. The Visa product emerges white, the other polyester is uniformly grey.

# Houston chosen as site of first patriotism rally

**United Press International**  
**WASHINGTON** — The National Conservative Political Action Committee announced Tuesday the first of a series of "American Heroes for Reagan" rallies will be held June 2 in Houston.

Terry Dolan, NCPAC chairman, said the rally in support of president, who has not yet announced his 1984 plans, "will honor American heroes and make a shameless appeal to patriotism — the type of patriotism that Ronald Reagan so well embodies."

Of the decision to hold the rally in Texas, Dolan said, "What better state to kick off our rallies for the president than Texas, where heroes fought and

died at the Alamo to preserve freedom."

The rally will be held at the Sheraton Houston Hotel at 7 p.m. CDT.

NCPAC, an independent political committee without any link to the Republican Party or the White House, has announced plans to spend \$5 million on advertising, literature and organization on behalf of the president.

tical committee without any link to the Republican Party or the White House, has announced plans to spend \$5 million on advertising, literature and organization on behalf of the president.

**Get Your Xerox Copies**

## ON THE DOUBLE

at Northgate Above Farmer's Market

Inexpensive, High Quality Copies

We Specialize In **REPORTS and DISSERTATIONS**

Also: Self-service copying, typing, reductions and enlargements, binding, resume writing, editing, business cards, wedding invitations, stationery and many other services. One stop service for reports and dissertations.

**ON THE DOUBLE**  
 331 University 846-3755  
 HOURS: Mon.-Fri. 7 a.m.-10 p.m.  
 Sat. 9 a.m.-6 p.m.

**Alfredo's MEXICAN DRESSES**

**\$21.98** retail price

Inquire at Alfredo's Tacos al Carbon 509 Univ. Dr. Wholesale prices available. Inquire at Alfredo's

**Beginning Monday**  
 Get more \$\$ for your books  
 Save \$\$ when buying next fall

## STUDENT BOOK EXCHANGE

WHERE: Room #137 MSC  
 WHEN: 9:00 a.m.-4:00 p.m. May 9-13  
 WHAT TO DO: Bring in Textbooks, set your own price, leave us 25¢ per book for handling and we'll do the rest. Pick up money or unsold books next fall.

**STUDENT GOVERNMENT**  
 TEXAS A&M UNIVERSITY

For more info call Student Govt. Office 845-3051.

**Everyone tells you how to find your first job.**  
**We'll tell you how to find your first apartment.**

You can come to Dallas/Ft. Worth and spend lots of time looking around for a great apartment. Or you can call the leader in Metroplex apartments and spend your time looking for a job instead. The choice should be obvious! Because Lincoln Property Company offers the finest in young adult living. Here's what we have to offer:

- 1. THE MOST APARTMENTS IN THE MOST LOCATIONS.** Wherever you choose to work in the Metroplex, from North Dallas to the Mid Cities, LPC has the locations you want. And of course we offer "The Village," perhaps the most famous apartments in the Southwest!
- 2. THE INCREDIBLE VILLAGE COUNTRY CLUB.** Every LPC resident becomes a member of the Village Country Club. Located in exciting North Dallas, the Village Country Club features complete recreational facilities, spa, restaurant and lounge, and some of the best parties in town.
- 3. PROFESSIONAL MANAGEMENT AND LUXURY FEATURES.** Beautiful landscaping and handsome architecture are standard with every LPC apartment. As well as wall-to-wall carpeting, all-electric kitchens, professional on-site management and so much more.
- 4. CALL OUR HOTLINE OR SEND FOR YOUR 'NEWCOMERS' KIT.** We can help you find an apartment in Dallas/Ft. Worth today! Call the 368-5711. Or send for your 'Newcomers' Kit and a Guide to all LPC properties. Do it today. Because if they gave degrees to apartments, LPC would be summa cum laude!

**FIND YOUR APARTMENT IN DALLAS/FORT WORTH TODAY!** Don't delay! Send the coupon for your 'Newcomers' Kit and guide to LPC Apartments in for a Security Deposit discount.

APT. SIZE \_\_\_\_\_ PRICE RANGE \_\_\_\_\_ MOVE-IN DATE \_\_\_\_\_  
 LOCATION DESIRED \_\_\_\_\_  
 NAME \_\_\_\_\_  
 ADDRESS \_\_\_\_\_ CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_  
**LINCOLN PROPERTY COMPANY**  
 Mail to: Marketing Dept., Lincoln Property Company, 5789 Caruth Haven, Dallas, TX 75206. AM 83

\$100 Security Deposit With This Coupon!

**THE CONDO MART**

INTERESTED IN BUYING OR SELLING A CONDOMINIUM? WHY NOT CALL THE EXPERTS AT GREEN & BROWNE REALTY FOR A FREE CONSULTATION? WE ARE THE SALES LEADERS IN BRYAN-COLLEGE STATION. WE'LL BE HAPPY TO DISCUSS THE INVESTMENT AND TAX BENEFITS WITH YOU. CALL THE CONDO MART TODAY AND ASK FOR DAVIS NORTHCUTT. 846-5701.

**THE CONDO MART**

3707 E. 29TH (TOWN & COUNTRY CENTER)

**SARITA'S SMOKE SHOP**

PIPES SNUFF SPITONS PIPE RACKS ROLLING PAPER CIGARS - IMPORTED AND DOMESTIC LIGHTERS/FLUID IMPORTED CIGARETTES CUSTOM BLENDED TOBACCO CANDLES THAT KILL TOBACCO ODOR