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United Press International
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New camera detects cancer

A team of Texas A&M University scientists is building a machine to plumb the secrets of the living body.
Dr. John McIntyre, physics professor, and two research assistants are building a gamma-ray camera which will be tested by Dr. Thomas P. Haynie of the University of Texas' M.D. Anderson Hospital and Tumor Institute in Houston.
"We're putting together a camera that utilizes radioactivity in the form of isotopes which can be injected

into the bloodstream," McIntyre said. "This camera can then take pictures of where the radioactivity is. For instance, it would stop at a blood clot."
"This camera, when completed, will be at least four times more accurate than anything currently available," he added. "The idea is that if you build a better camera you'll find out a lot more."
"We're collaborating with M.D. Anderson where the device will be used to look for cancers," McIntyre

said. "Radioactivity will go to good tissue much easier than cancerous tissue. As a result, the area of the tumor will show up as a black spot in the picture."
"By selecting the isotope, one can select the area to be searched," he said. "For instance, radioactive iodine goes to the thyroid gland while certain gases are targeted for the lungs."
"The application of this particular bit of research is practical," McIntyre said, adding that the resulting product should produce higher quality pictures than currently available from commercial cameras.

"Our contribution will be to focus then for better resolution and efficiency," he said. "Right now, industry is in a real bottleneck and hasn't been able to improve the camera much in the last five years, so they need a fundamental change."
"Our solution is to use a source, in this case a positron isotope, which gives off two gamma-rays at a time in opposite directions," McIntyre said. "We will use two detectors, one on each side of the person being photographed. When we trace a line from the strike on one

Local employment shows increase

The Texas Employment Commission helped provide workers for 300 different jobs in the Bryan-College Station area during January.
One year ago 264 jobs were filled through the commission.
The number of Brazos County residents filing claims for unemployment insurance continues to remain well below last year's level.
During January, 1977, 336 individuals were filing claims. For the same period in 1976, 588 persons filed.
An increase in job applicants is due primarily to an effort in the community to get job seekers to register at the commission, a spokesman said.
During January 819 new job seekers were registered. A year ago 591 applicants were registered.

detector to the strike on the other, it will extend through the intersection and the exact location of the radioactive isotope."
"Another of our innovations is use optical fibers attached to the detector (80 miles of them in a 10-inch-by-10-inch camera) to transfer the strike of the gamma-rays to a television tube."
"This automatically gives resolution of three millimeters which is about four times better than anything available now."
"The 65,000 fibers in a detector are broken up into bundles which give a coded signal of the photomultiplier tubes," McIntyre explained. "The photomultiplier tubes, in turn, convert the light into an electrical signal to produce a picture on a television tube."
"Isotopes that emit positrons include carbon, nitrogen and oxygen, which are all very important to the life functions," he said. "Doctors would love to use them, unfortunately the isotopes' half-lives are generally very short."

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Bulletin board

TUESDAY
Old Masters Paintings, On Exhibit Through Feb. 18, Rudder Center Exhibit Hall, 8 a.m. to 8 p.m. daily.

Peace Corps Vista, MSC, a.m. to 4:30 p.m. (will be used to talk to interested students)
"French With A Smile," Cafeteria Hour, MSC Cafeteria, noon.

Agricultural Economics Plant Sciences 113, 7:30 p.m.
Cepheid Variable, Rudder Center, 7:30 p.m.
Student Education Series HECC 105, 7:30 p.m.
Tropical Studies Program, Series: Dr. Chester C. Tian Jr., "The Novel of America," Rudder 302, 7:30 p.m.
SWC Basketball, A&M Baylor, C. Rollie White, 7:30 p.m.

WEDNESDAY
Dance Arts Society, Modest Rollie White 266, 7:30 p.m.
Social Dance Club, MSC, 7:30 p.m.
Rec. Bridge Committee, 212, 7 p.m.
Sports Car Club, Old Station City Hall, 7:30 p.m.
Philosophy Club, 300 W. D, 7:30 p.m.
Student Senate, Harrington, 7:30 p.m.
Aggie Cinema, "Casablanca," "African Queen," Rudder Theater, p.m.



McDONALD'S INTRAMURAL HIGHLIGHTS



Basketball

Games of the Week

Mens' Division

In a fast and furious Class C game last week, Lambda Chi held off repeated attacks by the Oldies

and defeated them, 34-23. The game was mainly a stealing battle with Lambda Chi winning in this category. As in most Class C

games, there was a considerable amount of pushing and shoving, so there were many fouls called, with Lambda Chi leading this category with 10-5. Class C is basically a class designed for fun, with low skill levels required and no competitive emphasis, it is purely recreational.

Women's Division

Fowler Hall easily walked all over Keathley Hall in a Class A game last week, defeating them 32-7. Cindy Felderhatt and Pam Belko were the leading scorers for Fowler with 6 points each. Donna Wottrich and Marci Mickler also did well with 4 points each. Both teams were trying very hard, but both teams had a lot of fouls, totaling 22 for the game. Class A is designed primarily for highly skilled, highly competitive teams who compete for the All-University title in their respective sports.

Co-Rec Division

In this division, Free and Easy outscored A-1, 39-21 in a late night game last week. Once again, there were a lot of fouls, with the winning team having the most (14) to A-1's 8. This game was played in Class B, which is for teams with a moderate skill level and moderate competitive drive. These teams play for Class Championships.

This ad is sponsored by McDonalds on University Drive and is prepared by the Intramural Office, DeWare Fieldhouse. Photos and stories by Paul "Poogie" Nettell.

Tennis, Golf Doubles open

Entries for Golf Doubles and Tennis Doubles will close on Tuesday, February 15 at 5:00 p.m. at the IM Office, DeWare Fieldhouse.

two out of three sets. Games within the sets will be four point games; there will be no deuce, the first team to win four points wins the game. Likewise, in sets, the first team to win six games wins the set; there will be no tiebreakers.

USTA Rules will be used and a copy of these rules may be picked up at the IM Office. A limited number of rackets may be checked out at the IM Office, however, each team must supply a new can of three balls for each match, with the winning team taking the new ones and the losers taking the used ones at the end of the match. Serves are to be decided by a coin toss or a racket spin.

If a player is injured and cannot continue, that team forfeits the match. If matches are postponed by the IM Office due to inclement weather, players are responsible for checking in by noon the following day to see when the match is rescheduled, as it may be that day. All entrants should check with the IM Office on Thursday, February 17 to see when they play.

Tennis Doubles action will begin on Monday, February 21 on the courts behind Kyle Field. It will be single elimination competition with matches consisting of the best



Action in the Class C game between Lambda Chi and the Oldies was fast and furious. See story at right.



IM Horseshoes action takes place daily at the pits located next to the University Police Station on Jersey Street.

