



Fusion device

The world's energy future may depend on a device such as this fusion research device, known as Hermes II. Hermes, which is 20 feet tall by 100 feet wide, is the object of extensive research being conducted at Sandia laboratories in

Albuquerque, N.M. Magne Kristiansen, a Tech professor of electrical engineering, is involved in the research of fusion devices.

Fusion possible energy source

By SID HILL
UD Reporter

Perfecting the pulse power technique of nuclear fusion is the subject of electrical engineering professor Magne Kristiansen's work.

Kristiansen is involved with other engineers, scientists and the U.S. Air Force in research at Sandia Labs in Albuquerque, N.M. and Los Alamos laboratory.

The pulse power technique involves storing energy and then releasing it quickly. Kristiansen said that the principle is the same as that behind a car battery's function: storage of energy until needed.

"We won't save energy right now, but nuclear fusion will be the power of the future. The real impact of our studies won't solve the present energy crisis, but it could help save our energy needs down the road," Kristiansen said.

that energy resources are almost infinite, while other natural resources are becoming scarce.

Kristiansen is also working on the switching technique to release stored energy. Nuclear fusion provides the energy, which the researchers are learning how to store and release. Fusion requires a brief spurt of power sometimes comparable to 100 times the energy use of the entire United States.

The pulse power technique is used for release of energy during a very short period of time. This brief span of time is one-hundredth of one-millionth of a second.

Kristiansen explained the difference between nuclear fusion and fission. "Fusion requires a very quick and brief spurt of power to get the whole process started. This process is compared to fission which is a self-sustaining," Kristiansen said.

The routing of the power source from one location to another in the fusion process requires a direct line controlled by a switch. The switch comes into play because power is needed at different time scales and power levels. In the past, the switching process was not a major problem, according to Kristiansen, because fusion experiments would only take place a few times during an entire day.

Today, the spark-gap switch

is important because plants will soon be running for extended periods of time, Kristiansen said. When the switching system is perfected, power plants will be able to provide longer life-time and high reliability for power companies.

Kristiansen said work on the switching operation of fusion began at Tech five years ago. Tech is now receiving nearly \$1 million in funds for the research project from the federal government.

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Burglars cashing in on gold

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Sam Applebaum was sunbathing by his pool in Houston recently when he looked up to see a stranger with a gun in his living room, yanking the gold chain from his father's neck, then escaping out the door.

In Phoenix, Ariz., an elderly man reported that a burglar had taken his gold-laden false teeth from his bedroom.

And at The Green House hair stylists in Michigan's high-toned Grosse Pointe Farms, the chatter one day last month was about the gold jewelry and family silverware stolen from local houses. "My dears," mimicked Marian Droll, a writer who was having her hair done, "we can no longer wear our little trinkets and we will have to eat from stainless steel if this keeps up."

Across the country,

burglars and thieves are apparently working overtime to cash in on the soaring prices offered for gold and silver. The police and insurance companies report sharp increases in thefts of precious metals while waiting lists for safe deposit boxes at banks grow and people rush to update their insurance coverage to the new price of gold and silver.

Much of the loot from gold and silver thefts is probably turned into cash at the same jewelry and coin shops that many regular citizens are besieging with items ranging from the class ring to the family heirloom silverware. The effort, to the astonishment of many dealers, is to sell such items, not as antiques, but as scrap metal for melting down.

Police officers point out that the thefts are hard to trace,

once the gold or silver has been reduced to ingots. This may explain why thieves have been found to ignore the staples of their trade, the television set and the stereo, to concentrate on the sideboard drawers in dining rooms where most people still obligingly leave their silver.

When a home down the street from Applebaum's was ransacked not long ago, for example, the television, the stereo and the usual Texas gun collection were thrown into the swimming pool, but the silver and jewelry were taken.

"The rate of metals grabs has doubled in the past six months," said Detective J.C. Davis of the Houston Police Department, who has been assigned to fight a rash of daylight burglaries since last fall.

Thieves of precious metals used to send the stuff across the border to a clandestine smelting kiln and refinery in Mexico, Davis said, but not now. With the rise in business, underworld refineries have sprung up inside the state.

"Once they melt down the gold, we can't trace it - it doesn't have any serial numbers," he said. "So since it's legal to own it, we can't just question people about having a large amount. We have to get the refineries."

Not that a refinery is necessary for a small-scale burglar, evidently. Detectives in suburban Detroit's Oakland County are angry over ad-

vertisements by coin and metals dealers in the local newspapers offering to buy old gold and silver with "no questions asked" and "all sales confidential."

"Of course it's an invitation for stolen goods," said Police Lt. Donald Zimmerman in Bloomfield Township, where breakings and enterings have increased sharply over the last three months.

Police programs urging people to emboss identifying numbers on their property also do not work in the case of precious metals, Zimmerman added. "People don't want to put numbers on their sterling - I know my wife wouldn't, if we had any."

People who have had the family silver and jewelry stolen may often get a second shock when they put in an insurance claim, for most homeowner policies carry \$500 to \$1,000 limits on gold and silver.

"With today's prices, that only covers one item, if that," Perry Jordan, head of property claims for Underwriters Adjusting Company of Phoenix, said. "And a lot of people who haven't kept their policies current are taking a real beating on losses."

Perry estimates that loss claims for precious metals have increased by about a quarter in recent months. Other insurance companies report canceling policies involved in repeated precious metals loss claims.

Kristiansen said he believes the biggest advantage of nuclear fusion lies in the fact

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Moment's Notice

- Collegiate Horsemen**
Collegiate Horsemen's Association will meet at 7:30 p.m. tonight in the Meats Lab. All N.I.R.A. sign up for Las Cruces by Thursday, March 6 before noon.
- A and S**
Arts and Science Council will meet at 6 p.m. tonight in Room 4 of Holden Hall. All members are requested to attend.
- I.F.C.**
Inter-Fraternity Council will meet jointly with Panhellene at 7 p.m. on Wednesday at the Sigma Alpha Epsilon Lodge, 2402 14th.
- A.E.D.**
The Honorary Pre-Med, Pre-Dent, Pre-Vet Society will meet at 7 p.m. on Thursday in Room 114 of the Chemistry Building. Spring initiation will be discussed, all activities are urged to attend.
- BA Council**
BA Council will meet at 6:30 p.m. on Wednesday in Room 169 of the BA Building.
- NCTE and IRA**
NCTE and IRA will meet at 6 p.m. Wednesday in Room 246 of the Ad. Building. Guest speaker will be Jo Moore, principal of St. John Neumann's.
- Fashion Board**
The Fashion Board will hold a Spring Style Show at 7:30 p.m. Wednesday night in the UC Theater. Tickets will be sold at the door for \$1.50 for students and \$2.00 for adults.
- S.O.B.U.**
Student Organization for Black Unity is accepting applications for Miss Black Texas Tech in the Student Activities office. The deadline for entries in March 7.
- Alpha Zeta**
Alpha Zeta pledges will meet at 7 p.m. tonight in Room 114 of the Ag. Sci. Building. This will be the first pledge meeting. If you missed Monday's meeting, you are requested to attend tonight's.
- P.A.R.K.**
Park and Recreation will have a garage sale from 9 a.m. to 6 p.m. on Saturday, March 8 and Sunday, March 9 at 2109 64th.
- Agronomy Club**
The Agronomy Club will meet at 7:30 p.m. tonight in Room 211 of the Plant Science Building.
- Mexico Field Course Meeting**
There will be two orientation sessions on Wednesday, March 5 and Thursday, March 6 for students interested in going

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Tech, LCC split twinbill

By JEFF REMBERT UD Sports Writer Brooks Wallace and Bobby Kohler teamed up to batter Lubbock Christian College pitchers for seven runs...



Kohler

The Raiders scored three times in the second inning to go out on top 7-2. The Chaparrals scored singles in the first and second innings...

LCC scored two runs in the second inning off Tech starter Steve Ibarguen (1-2). A walk to shortstop Lewis Stephenson...

Linksters place eighth at A&M

Low temperatures and windy conditions combined for high scores Sunday in the first round of the Texas A&M Future pros tournament...

Included Robin Wohltman-86, Liz Remy-87, Mary DeLong-89, and Jane Naylor-89. 'It was 32 degrees when we started play...



Photo by Max Faulkner

On the money Tech infielder Gene Segrest fires a ball to first base in action during the first game of the Raiders' doubleheader with LCC Sunday.

OU boss top candidate for SMU post

DALLAS (AP) — Oklahoma's Dave Bliss is the top candidate to coach Southern Methodist's basketball team...

While Bliss and SMU Athletics Director Russ Potts were not available for comment Sunday, Mustang promotions man Brad Thomas devised a basketball slogan: "SMU Basketball is Pure Bliss."

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Tip-in

Tech's Ben Hill tips in the ball over the outreached arm of Texas A&M's Claude Riley during the semi-finals of the Southwest Conference Tournament last weekend. The

ball can barely be seen inside the rim of the basket. A&M won the game 61-51 and went on to win the tournament championship.

SWC
Tourney
action

Photos
by
Mark
Rogers



Ball battle

Tech's David Little fights SMU's Richard Harris (20) for the ball during the quarterfinals of the Southwest Conference Tournament last weekend in San Antonio. Tech won 73-69. Tech's Ben Hill (behind Little) ends up with the ball.

Viewing the action is SMU's Brad Branson (left) and on the right side, Jeff Taylor (with the number four on his jersey) and Ralph Brewster.

NIT pairings set;
Texas gets bid

ANAHEIM, Calif. (AP) — Only one point separated Long Beach State and Pepperdine when they met early in the season, and now the same two basketball teams square off Tuesday night in the first round of the National Invitation Tournament.

Tex Winter, the Long Beach coach, has mixed emotions, saying, "We are happy to be going to a postseason tournament. I think we are very well matched with Pepperdine."

"We played early in the season and lost by one point, 95-94. The NIT provides all the teams with a real opportunity and should be quite a

motivating factor for all the athletes involved.

"There are a lot of good ball clubs who will be in the NIT, some of them better than the teams who will be in the NCAA."

Still Winter is unhappy that only two clubs from the Pacific Coast Athletic Association — San Jose State and Utah State — were chosen for the NCAA tournament.

Long Beach had finished second in both the regular PCAA season and in the league tournament.

Play in the NIT begins with the Pepperdine-Long Beach game and ends with semifinals and finals in New York's Madison Square Garden, March 17 and 19.

Pepperdine sports a top player in Ricardo Brown, one of the nation's top guards, and his club boasts a 17-10 record for the season. Long Beach State is 21-11 but Coach Winter points out:

"We've beaten four teams who are going to the NCAA — Marquette, BYU, Lamar and San Jose. UCLA's beaten only two ... It's an injustice."

Long Beach boasts one of the best forward duos in the nation in Michael Wiley and Francois Wise, a pair of seniors likely to go high in the pro draft.

Wiley is averaging 20.6 points a game and Wise 16. Wiley is the team's top career scorer and Wise the top rebounder.

The NIT picks up momentum Wednesday with eight games scheduled including St. Peter's the lone metropolitan New York entry, playing at Connecticut. Bowling Green at Minnesota, originally set for Thursday night, has been shifted to Wednesday.

Also set for Wednesday are West Texas State at Illinois State, Lafayette at Virginia, Loyola of Chicago at Illinois, Penn State at Alabama, St. Joseph's, Pa. at Texas, and Murray State at Jacksonville.



Thinking

Texas forward Ron Baxter contemplates his next move during the Longhorn's game with Arkansas in the semi-finals of the Southwest Conference Tournament. Arkansas won the

game 64-62. Baxter is being pressured by Scott Hastings (to the right of Baxter) and Brad Friess.

Twisters lose to Texas,
host meet this weekend

In what proved to be a close meet, the Tech Twisters lost to the University of Texas gymnastics club last weekend before a large crowd in the Intramural Gym.

The Twisters lost by a only 1.9 points in their first home competition of the season. Coach Wally Borchardt felt that Tech did better than Texas.

"We showed more control

and had cleaner routines," Borchardt said. "We were the better team on the floor; even the spectators were puzzled by the scores awarded to Texas."

The Twisters won three events: pommel horse, long horse vault, and the horizontal bar. But not by enough points to surpass the University of Texas win's in the floor exercise, still rings, and parallel bars.

Drew Oberbeck won the all-around competition by placing first in the long horse vault, parallel bars, pommel horse. Oberbeck also placed third on the horizontal bar and second in the floor exercise. Kellee Bowers took first place in the still rings, with Kevin McDonald second in the pommel horse competition, and Brad Clement third in the parallel bars.

Tech's next home action will be a triangular meet at 2 p.m., March 8, in the Intramural Gym against the University of Texas at Arlington and Eastfield College of Dallas. Finishing fifth in the all-around competition was Frank Graffeo and other members competing well were; Ross Royce, Rod Van Sickle, and Alphonso Kelley.

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