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Batt

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without

# **Scientists** look for monopoles from Big Bang

#### **By Allison Seale**

Reporter

haystack.

searching for magnetic monopoles seem to be finding out.

Magnetic monopoles are the peculiar subatomic particles that are hind as the universe cooled below theorized tiniest fractions existing the temperature and energy levels at the first instant after the "big bang" which a super "unified" force was

Webb keeps searching anyway.

Hundreds of physicists around the world have been searching for the elusive subatomic particles since their existence was first predicted. Twice scientists had thought they had found one but on both occasions, there was not enough statisti-cal proof to support the finds. "If we find some, it will be really exciting," Webb said. "If don't find

some, it also will be somewhat exciting, not perhaps as important as finding some, but it will have an im-pact on the viability of many of these grand unified theories."

Magnetic monopoles which have evaded detection by scientists since their existence was first suspected. They are predicted by grand uni- prove something.

fied theories formulated to tie to-Reporter gether and explain the physical It's like looking for a needle in a forces that existed in the tiniest fractions of the first instant after the "big This is what the teams of scientists bang" that opened the universe.

According to such theories, mo-nopoles are cosmic orphans left bethe first instant after the "big bang" opened the universe. Despite the difficulty in finding them, Texas A&M physicist Robert was and electro-them, Texas A&M physicist Robert was and electro-them the three basic b

What makes monopoles different from other particles found in nature is that monopoles have only one charge — either positive or negative, but not both.

Webb said the significance of finding a monopole is that if one is found, scientists will be able to gain insight as to what role they play in the grand scheme of things.

Webb and his colleagues began their search for monopoles at the bottom of the Hockley salt mine in 1982 but moved their search to a football-field sized detector in a man-made cave in Italy.

Although there still is no proof of their existence, scientists will con-tinue to search through the haystack of subatomic particles until they

# **Contract to decide** future of LTV Corp.

DALLAS (AP) — The Hummer, a replacement vehicle for the workhorse Jeep that carried U.S. armies through three wars, now carries the fortunes of a division of a defense contractor.

The future of LTV Corp.'s AM General Division hinges on winning a new contract to manufacture the multi-purpose vehicles starting in 1990, a company spokesman said Tuesday.

AM General announced plans to discontinue manufacture of medium and heavy trucks and concentrate on a \$1 billion competitive contract for the Hummer.

"If we lose the Hummer rebuy, we're a fond memory," company spokesman Craig MacNab said.

AM General is taking a calculated gamble on its ability to win a U.S. Army contract to build 32,300 additional Hummers from 1990 to 1994. A sole-source contract by LTV to build about 60,000 Hummers for

the Army ends next year, and the Pentagon has decided to open the

next purchase to competition. The multi-purpose vehicle is a re-placement for the Army jeep and four other trucks.

The restructuring "resolves the questions we previously raised about the viability of AM General, and we expect the division and its Hummer business to remain a part of the reoranized LTV," spokesman Charles Palmer said.

The layoffs will include as many as 550 workers in South Bend by next February or March and immediate layoffs for about 150 workers at its Livonia, Mich., facility, which worked on medium and heavy truck design and development. The AM General workforce will

be reduced to about 1,600 from about 2,300 as of the end of June.

A previous restructuring and costcutting plan announced in April had reduced the division's workforce by

400 salaried employees. AM General president George Maddox, in a prepared statement, blamed the cutbacks on "costly capital investments and limited profit margins from possible future military contracts.

Dallas-based LTV will take an undetermined charge to second-quar-ter earnings, MacNab said.

# What's Up

#### Thursday

TAMU INTERNATIONAL FOLK DANCERS: Will meet at 7:30 p.m. at F Fountain to teach beginning and intermediate dances at a special outdor sion. Singles and couples are welcome. For more information call Ellena 2415.

ADULT CHILDREN OF ALCHOLICS: Will meet at 6 p.m. in 146 MSC. For information call the Center for Drug Prevention and Education. NARCOTICS ANONYMOUS: Will meet at 8:30 p.m. in 146 MSC. Form mation call the Center for Drug Prevention and Education at 845-0280. ATHEISTS, AGNOSTICS AND FREETHINKERS:Will meet at 7 pm. livian Ross statue in front of the Academic Building, to dis Lawrence and life."

Items for What's Up should be submitted to The Battalion, 216 Reed Mod no later than three business days before the desired run date. We only p the name and phone number of the contact if you ask us to do so. What a Battalion service that lists non-profit events and activities. Submissions on a first-come, first-served basis. There is no guarantee an entry will run have questions, call the newsroom at 845-3315.

## Salutes

#### Faculty/Staff

Donald A. Maxwell, professor and associate head of the Departmentol gineering, and cordinator of Engineering Computer Services at Texas & been appointed chairman of the Texas Automated Information and Texa nications Council by Gov. Bill Clements.

The council has the responsibility to review and certify computer and munications equipment purchases by state agencies. The council review approves the long-range computer and telecommunications plans of a cies spending in excess of \$1,500 on equipment; analyses and approve curements larger than \$300,000, and holds public hearings to scruting that as of more than \$1 chases of more than \$1 million.

it's a clearch engineer for the Texas Transportation Institute.

Dr. James McNamara of Texas A&M's Educational Psychology Departme been selected as coordinator of one of the nation's four Woodrow Wills tional Fellowship Foundation Summer Institutes in Statistics. The one-week workshop here, scheduled Aug. 1-5, is designed to poil secondary school mathematics teachers with new insights into the tead statistics. The workshops will be taught by four master teachers selected foundation for their teaching ability and statistical knowledge. Salutes is a community service provided by The Battalion to list studens, and staff who have received honors and awards (such as scholarshp, ment, etc.). Space is limited and is provided on a first-come, first-served There is no guarantee that your submission will run. Submissions may fused if they contain incomplete or incorrect information. If you have any tions, please call The Battalion at 845-3315.

## No suspects found in theft of weapons

ANGLETON (AP) — Brazoria County investigators said Wednesday they have no suspects in the theft of 46 weapons, including more than 30 high-powered rifles, from a locked storage room at a state prison armory

The armory at the Ramsey rifle range was broken into sometime be-tween Friday night and Monday, said Michael Moore, Texas Department of Corrections director for the southern units. "It's highly embarrassing," Moore

said. While the armory is near the only access road to the three Ramsey state prisons, Moore said traffic on the scared off and fled with road on weekend evenings is sparse. could grab in a few minu

The exact time the weat taken is unknown because spected the building du weekend, authorities said. Brazoria County invest the missing weapons are estimated \$16,200. The taken include 33 hij semiautomatic rifles, a rifle with scope often us tage cases because of its accuracy, five shotguns a .357-caliber pistols.

But many weapons we hind, leading authorities late that the thieves may



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Withdrawal from the medium and heavy military truck business will result in layoffs for up to 700 salaried and hourly workers in Indiana and Michigan, MacNab said. This will result in the loss of jobs for nearly one-third of the division's workforce.

AM General will also move its headquarters from South Bend, Ind., home of its military truck plant, to neighboring Mishiwaka, where it builds the Hummer.

The action apparently settles the uncertainty about including AM General in LTV's Chapter 11 regorganization plans, a spokesman in Dallas said.

### Harassment gets man probation

HOUSTON (AP) — A man who telephoned his ex-girlfriend as many as 100 times an hour and rammed tion with an Aug. 20, 1987 incident. the back of her car has been ordered to stay away from

the woman and seek psychiatric treatment. David Eric Herd, 23, was given probation after he

Between July and September 1987, Herd called the 25-year-old receptionist at home and work contin-uously despite her repeated rejections.

me.

She would hang up on him, but often he called back seconds later. Many of the calls were recorded.

let me," the woman said Tuesday.

Then, prosecutor Jim West said, Herd followoman and began bumping the back of her When she got out, he threw her to the g passer-by ended the fracas by spraying Herd woman's can of chemical deterrent. Faced with a trial at which tape recordin

"I love you, I love you," he would say. "Please talk to hundreds of calls would be played, Herdopted guilty to the retaliation charge.

State District Judge Bob Burdette sentence "I tried (to break up) to do it gently, but he wouldn't undergo psychiatric treatment and have me," the woman said Tuesday. Herd, who had been charged twice with misdemea- ceived two years of deferred adjudication pro-



