

THE UNIVERSITY DAILY

Texas Tech University

SOUTHWEST COLLECTION
Texas Tech University

TUESDAY
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WEATHER
Sunny
High: low 70s
Low: mid 40s

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Commencement information being mailed

By TARA HEARLIHY
The University Daily

Individual colleges will mail information about commencement to students who will graduate May 11, said Virginia Sowell, Texas Tech associate vice president.

"Everything is all set up," she said. "The students should be getting the information about schedules and places from their respective colleges."

Students need to order their regalia, including caps and gowns, from the Texas Tech Bookstore before the commencement ceremony, she said.

"Those that are receiving their bachelor's degree need to come in the week of graduation and get their packages," said Doris Vinson, a bookstore employee.

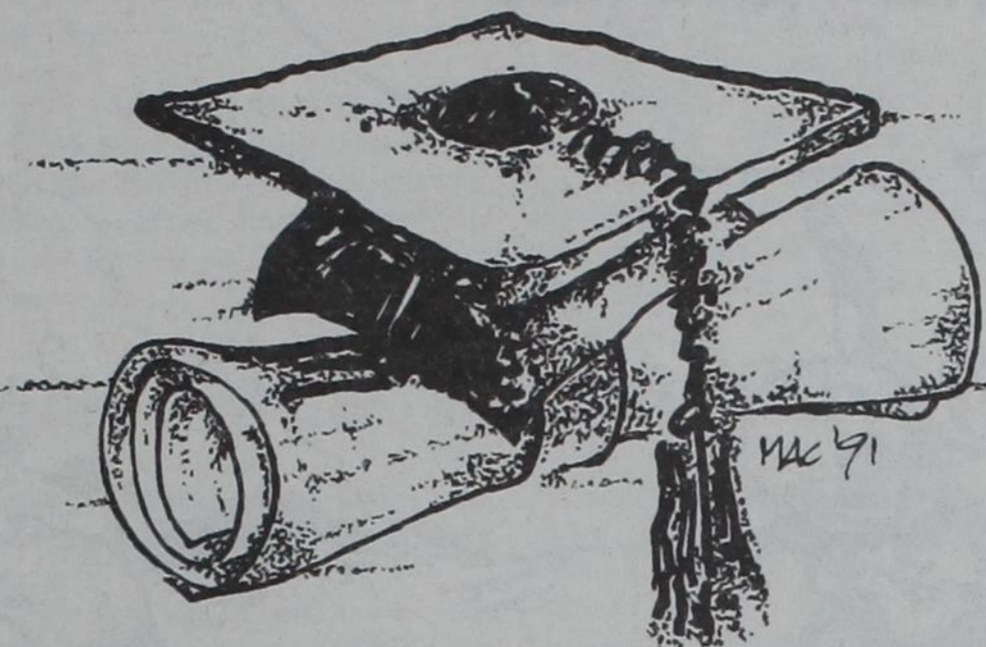
Vinson said packages for students

earning bachelor's degrees cost \$15.09.

Students who are earning their master's, doctorate and law degrees and have not ordered their regalia have missed the first deadline, April

1, but can order their regalia until April 19 with a \$5 late fee. After April 9, the late fee goes up to \$10, Vinson said.

"If the students wait that long, the size and color needed may be out of



stock," she said. "Students need to order as soon as possible to avoid the \$10 late fee and receive what they need."

Each college will have a different ceremony on campus, starting with the hooding of doctorate students. Then degrees will be presented to students earning master's and bachelor degrees, said Clyde Hendrick, dean of the graduate school.

Each college ceremony will be in a different area due to the lack of space on campus and the amount of graduates, Hendrick said.

"We have such a shortage of huge classrooms that causes us to use a rotating system using the University Theatre, Allen Theatre, (Lubbock Municipal Coliseum and auditorium)," he said. "It puts education at a disadvantage because they will go last, and who wants to go last during graduation on a Saturday?"

Baker visits refugees massed along border

By The Associated Press

CUKURCA, Turkey — They stood on snowcapped mountainsides, as far as the eye could see: Tens of thousands of Kurdish refugees, fleeing Saddam Hussein's armies.

Into their midst on Monday flew Secretary of State James A. Baker III, who said he came to witness "cruelty and human anguish that defy description."

The refugees said President Bush cut the war short, that he should have finished off Saddam.

"Why did they stop the war?" asked Noori Briefkani, 33, of Dohok. "If they continued it two days they could have finished him off."

"We are all disappointed," said the slightly built Kurdish Muslim.

Marwan Abbat, a 21-year-old student who walked five days to get to Turkey, asked:

"Why Mr. Bush no let Kurds destroy Saddam? People need their own country."

At Bush's direction, Baker visited this village in southeastern Turkey around which some 50,000 refugees are clustered. His entourage drove along the side of steep mountains and stopped a few yards beyond the border inside Iraq.

Masses of men, women and children were stretched all around, from the steps of the mountains up toward the peaks. There were a handful of tents and makeshift shacks, but most of the refugees were exposed to the elements.

An old man gathered fallen branches as the skies cleared following a heavy rain. A young woman carried a small child and two scarred pots.

Baker, who stayed seven minutes, gathered a crowd. The most outspoken among them was

Sam Timathwes, a 30-year-old Assyrian Christian from Kirkuk, the key oil town in northern Iraq that the Kurds held briefly before government forces forced the rebels out.

"Our children are suffering from hunger and starvation," he told Baker. "You've got to do something to help us."

"We know that," Baker replied. "We need medicine. We need food. We need doctors," Timathwes told Baker. "We don't want to stay here. We want to go abroad."

It is nearly impossible to get an accurate count of the number of people who have taken refuge in Turkey and those struggling to get here.

Turkish military briefers told Baker that 165,000 people were clustered in the area, that within a week their number would rise to 200,000, then double shortly afterward.

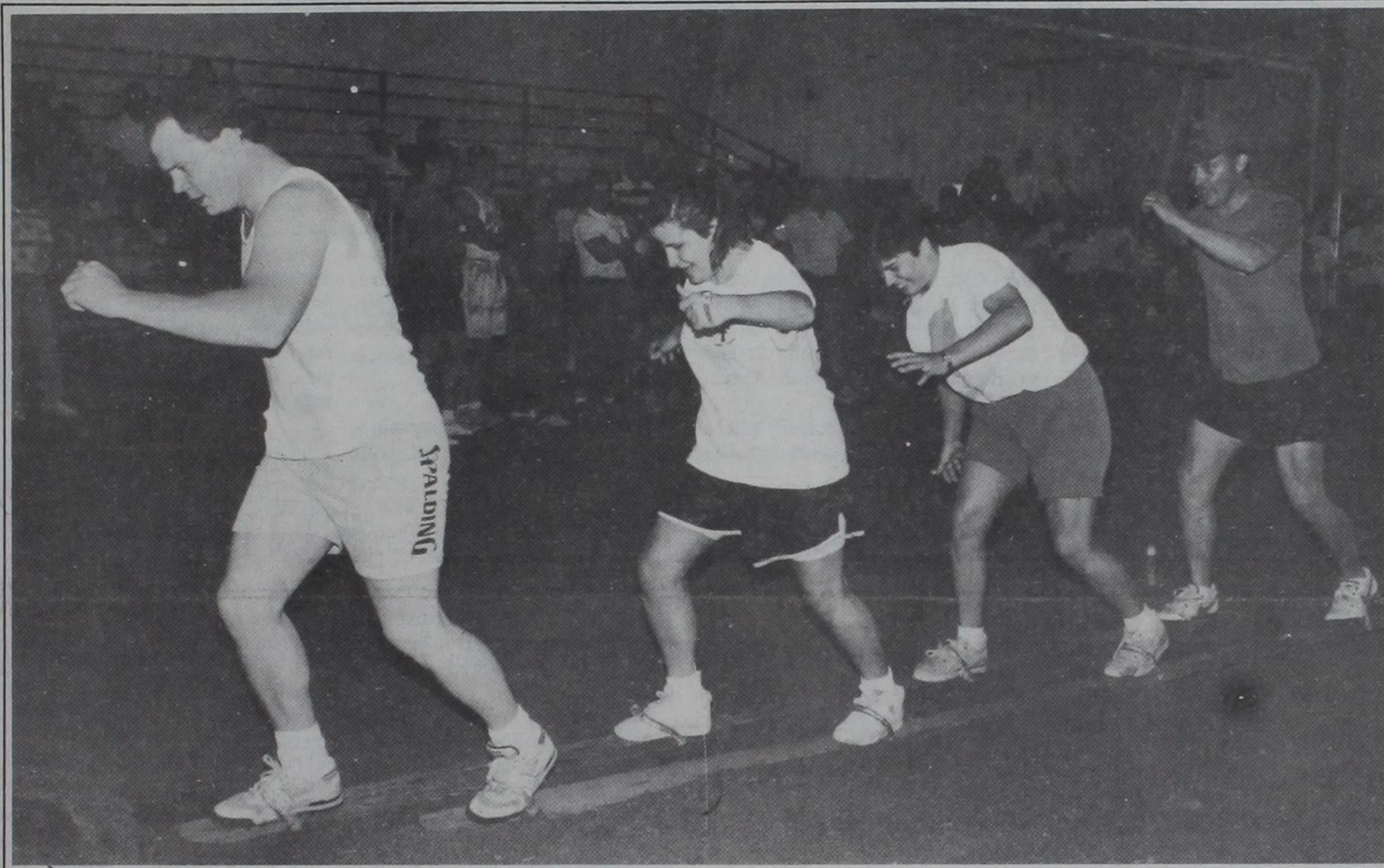
One proposal under consideration is Turkish President Turgut Ozal's suggestion that the United Nations create a sanctuary in northern Iraq for the Kurds, by force if necessary.

White House Press Secretary Marlin Fitzwater, asked as he traveled with Bush in Texas what the administration envisaged for such a refugee site, said he had no details.

"It's an idea that's being discussed," Fitzwater said, adding:

"There are problems with it, too. They don't know how they'd do it in the north, for example."

Ozal has appealed to other nations to assist in the relief effort. The American air drop of food, clothing and tents that began Sunday is concentrated on northern Iraq, although U.S. officials say some supplies are being dropped on the Turkish side.



Walter Granberry/The University Daily

Doing the boardwalk

Richard Triplitt, a junior agriculture major from Claude; Allison Bell, a freshman agriculture major from New Braunfels; Cathy Poinier, a freshman agriculture from San Antonio; and Patt

Swaim, a senior agriculture major from Paris, Texas try their luck competing in the Board Walking event at the Alpha Gamma RHO Agriculture Olympics.

Tech council, committee applications available

By CHARRIE SOUTH
The University Daily

Applications for student appointments to Texas Tech councils and committees can be obtained in the Student Association office Thursday, said Russell Laird, 1991-92 SA president.

More than 72 student positions are appointed each year by the SA president.

The advisory bodies are set up to serve the needs of Tech and the Texas Tech Health Sciences Center. They are not, however, intended to assume the authority of the administrative offices.

Some of the committees which have at least one student member are:

- the Student Service Fee Advisory

Board. The board was designed to develop greater student input for various student service fee proposals. Student membership is seven.

- the Student Health Advisory Committee. One of the purposes of the committee is to serve as a liaison between students, student government and administration about student health issues. Student membership is four.

- the Student Publications Committee. The committee is responsible for choosing *The University Daily* and *La Ventana* editors. Student membership is six.

- the Convocations Committee. The committee is responsible for planning commencement exercises and any other formal university ceremonies. Student membership is two.

- the Masked Rider Committee. The purpose of the committee is to work with the Student Organization Services Office overseeing the Masked Rider program. The committee also chooses the Masked Rider.

- the Minority Affairs Committee. The committee is designed to make suggestions for attracting and retaining minority students. Student membership is five.

A more complete list will be available Thursday in the SA office.

"Student Health should be important this year with all the changes that are going to be made," Laird said.

"Student Service Fee is always one of the most important committees because it affects students directly. The board allocates around \$4 million

for the various student services," he said.

Laird said he also is considering an environmental awareness committee. The program could help coordinate recycling efforts with Tech and Lubbock.

Laird intends to form a Talent Show Committee to aid the SA external vice president.

The Talent Show, on Saturday night during Parents' Weekend, is usually solely the responsibility of the external vice president, but Laird, who is currently SA external vice president, decided to form a committee to help after trying to plan the event alone last year.

Applications are due April 26 and students will be notified of appointment before the end of the semester.

Coal miners reject Gorbachev's wage offer

By The Associated Press

MOSCOW — Despite Mikhail S. Gorbachev's offer to double their wages, Soviet coal miners refused to return to work Monday and insisted on the president's resignation.

The five-week-old walkout by an estimated 300,000 of the nation's 1.2 million coal miners has been joined in recent days by thousands of workers at more than 50 factories across the country, and general strikes are threatened in the republics of Georgia and Byelorussia.

The growing labor unrest, exacerbated by drastic price increases, has the potential to cripple

the Soviet economy. But Gorbachev, whose term in office runs until 1995, has steadfastly refused to step down.

Coal miners earn an average of \$664 a month, about 40 percent more than the national norm. Last week, Prime Minister Valentin Pavlov offered to double their wages over the next year, if production rises.

Strike leaders across the country told The Associated Press in telephone interviews Sunday they were rejecting the government's offer because the wage increases would quickly be swallowed up by inflation. The prices of most consumer items, including food and clothing, doubled and tripled on April 2.

"They say they're making a big

concession to us, but it's the kind of concession that won't mean anything at all, I am absolutely sure, in two or three months," said Vitaly Dubrov, a miner in the Arctic city of Vorkuta.

The Coordinating Council of Strike Committees, meeting in Moscow, called Monday for a national indexing system to boost the wages of all workers to compensate for inflation, said Alexander Sergeev, vice president of the Independent Union of Miners.

Sergeev said the council also reiterated its four main political demands: Gorbachev's resignation; dissolution of the Communist-dominated Congress of People's Deputies; resignation of the entire

Cabinet of Ministers; and transfer of power to a Federation Council made up of representatives of the 15 Soviet republics.

The government's wage offer was debated over the weekend by strikers across the nation. In a few areas, such as the Inta coal pit in the Pechora region of northern Russia, they favored the offer and voted Sunday to go back to work, according to the state news agency Tass.

However, strikers in the nation's largest coal-producing area, the Donetsk Basin of the Ukraine, decided to fight "to a victorious conclusion," said Pravda, the Communist Party daily.

Animal research bill considered by House

By BOB BERLIN
The University Daily

The Texas Senate passed a bill in February supporting animal research, and the House of Representatives now is considering the bill.

A spokesperson for state Sen. Bill Sims, D-San Angelo, said the bill is expected to pass with few changes.

Texas Senate Bill 114 makes it an offense — ranging from a misdemeanor to a second degree felony — to enter into, remain in, make markings on, tamper with, damage, destroy, remove, carry away; release or exercise control over an animal or property located in an animal facility.

If the bill, introduced into the senate by Sims, passes, federal law enforcement officials can become involved in the investigations of animal research lab break-ins.

Rep. Hugo Berlanga, D-Corpus Christi, is sponsoring the bill in the House.

Twelve states have passed similar bills since 1989; however, a federal version of the bill did not pass the U.S. Congress.

"You have what amounts to acts of terrorism and violence going on," said John Orem, professor of physiology and sleep researcher at the Texas Tech Health Sciences Center. "But it's not as if there are not laws against that already."

The need for such legislation is due to the jurisdictional boundaries of campus police, Orem said. Campus police do not have the resources nor the power to investigate criminal acts by well-organized groups such as the Animal Liberation Front.

Orem has been the object of attention since July 4, 1989, when members of ALF, in what they called "Independence Day for Animals," broke into Orem's sleep research lab. The group vandalized the research facilities and stole research documents and laboratory animals, causing more than \$100,000 in damage to date.

His research, which utilizes cats, is aimed at discovering causes of breathing disorders during sleep. The research could lead to a solution to

Sudden Infant Death Syndrome, he said.

Orem's lab was subsequently found to be in compliance with the National Institute of Health animal use protocols and research methods in an 11-page report issued by the NIH in April 1990.

"The whole idea of breaking into a lab is not the best means to protest animal research," said Jamie Brewer, president of the Animal Rights Coalition at Tech. "I think valuable information can be obtained and has been obtained from this research."

Brewer said the ARC is an organization designed to educate the public about animal rights abuses.

"It is the animals that need to be protected," she said. "Not the researcher. I think the bill will just take the emphasis away from the cruelty (to animals) and that's all."

Animal rights activists across the nation have used violence to protest, Orem said.

"The most blatant act of animal rights terrorism was the attempted car bombing of Leon Hirsch," Orem said of the president of a company that produces surgical staples and trains doctors on dogs.

The American Association of American Colleges estimates that in the last five years, acts of violence have cost medical schools alone more than \$11.3 million.

Walter Schaller, ARC sponsor and philosophy professor, used the example of David Baltimore, a researcher who turned his own lab in to officials for animal rights abuses. He lost his job and was personally persecuted for his actions, Schaller said.

"Instead of dealing with the charges that have been made," Schaller said, "researchers and universities are attacking those who are leveling the charges."

The bill precedes World Animal Liberation Week, Brewer said. The Society for Texas Animal Rights of Dallas will hold a public forum regarding the use of animals in research April 20 at 6 p.m. in the Senate Room of the UC.

Postwar analysis

Weakened government solution to Iraqi peace

By LESLIE GELB
N.Y. Times News Service

President Bush's central postwar strategic objective has been to keep Iraq whole and relatively insulated from regional vultures, even if it required a delay in Saddam Hussein's departure.

But Bush is now getting caught up in Iraq's civil war, in protecting the rebels from Baghdad, and he is losing his strategic focus. He thus runs the risk of the rebels — who are backed by secret deliveries of arms and money by Iran, Turkey, Syria and Saudi Arabia — transforming Iraq into a second Lebanon.

The happiest outcome, of course, would be for the Iraqi opposition (the Kurds, Shiites, Sunnis, Assyrian Christians and exiled democrats) to patch up their historical hatreds and form a harmonious democratic government in Baghdad. But this is a pipe dream whose pursuit will guarantee Iraq's fragmentation, not its democratization.

The real choice is between Lebanonization and this: a united Iraq with a weakened central government run by some of Saddam's cohorts. The second is the lesser evil for Iraqis and Americans.

Bush does not have much power to bring about the lesser-evil solution, but he can make a difference. He can stress to Iraqi military leaders that he favors a united Iraq and the restoration of order as long as they avoid their traditional brutality.

He also can tell our coalition partners and Iran to butt out of the civil war. Once they taste blood and oil, there will be no containing their ambitions.

Bush was firmly on the right course until the fighting ended two weeks ago. Then, with the Iraqi forces killing rebels in the streets, he sent out confusing signals.

He warned Baghdad against using chemical weapons on the insurgents,

and stopped Iraqi forces from using helicopters and moving fixed-wing aircraft. The impulse here was a good one — to give Iraqi forces second thoughts about mass killings.

But the warnings also sent the wrong signal to Iraq's neighbors about U.S. intentions. They thought Bush was altering course and favoring Iraq's breakup.

Iran rushed into the opening and supplied small arms to its brothers, the Shiite fundamentalists, in southern Iraq. Turkey dispatched arms to the Kurds in the north, a surprise move given Ankara's usual opposition to Kurdish separatism.

Saudi Arabia offered cash to a diverse and untenable new group based in Beirut and Damascus. Syria reached out secretly to its few hidden contacts in Iraq's ruling Baath Party.

Secretary of State Baker only made matters worse on Sunday. Though he said the U.S. was not secretly providing arms to rebels, he hinted at other covert aid (which Administration officials later denied).

Washington has to say a clear no to any effort by Iraq's neighbors to pour in arms and exploit the civil war. According to U.S. intelligence experts, more arms for the rebels will not produce their victory. At the most, the rebels can be expected to hold off the Iraqi army — and turn their country into fiefs rivaling their tragic brother Arabs in Lebanon.

Separatism surely sounds sweet to peoples long terrorized by Baghdad and Saddam. But replaying the Lebanese experience would be a nightmare of at least equal proportions.

Outside powers would prey on the chaos. The next war and the next eruption of Islamic fundamentalism would be waiting around the corner, with Iraq, Saudi Arabia and the whole Persian Gulf at high risk.

There is hope for another way if Bush will focus again, and hard, on preserving one Iraq. That means not



destroying the only centralizing forces in the country — Saddam's Baath Party and the military.

It means that holding Iraq together should take priority over Saddam's fast ouster. He can, must and will be removed by economic pressure, later. His likely successors, Baath Party

and military leaders, will be enervated and beleaguered. Bush can use that vulnerability to wrest concessions on constitutional reforms and greater local autonomy for the Kurds.

Deserved Kurdish autonomy will be more secure if granted by a

debilitated Baghdad than if the Kurds have to fight for it every day. Full independence for Kurds would mean independence for the Shiites, and that is not a healthy trade-off.

Few want to see Saddam remain in power a minute longer than

necessary, or see bad guys succeed him in Baghdad. But a unified Iraq with a weak central government may represent the only chance for its people to be at peace with each other and with their neighbors.

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Gorbachev, Saddam work together to survive



A.M. Rosenthal
Columnist

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There's no use getting mad at Mikhail Gorbachev and his partner, Saddam Hussein. Both are doing what comes naturally to two nervous dictators trying to get out of terminal trouble.

The Moscow-Baghdad axis, obviously and openly, is at work on a plan that would restore to the Soviet Union and Iraq the power that both have lost in the Middle East. It would also meet another objective of interest to both men — survival.

Gorbachev needs some success to take Soviet minds off his stumbling leadership. It won't work for long, but at least in the Kremlin losers are shuffled off to a villa somewhere.

The Iraqi leader has an even more vivid interest involved. In the Middle East, a dacha is not prepared for a suddenly unemployed ruler — just a grave.

The Moscow-Baghdad alliance was never dissolved. In the eternal struggle against naivete about the Kremlin and the Third World, it helps to keep that in mind.

The Soviet Union was Saddam's chief ally and source of weapons. Scud missiles landing in Saudi Arabia and the tanks facing American troops are Soviet made.

Of course, our Western allies also armed him while Washington smiled and appeased. Most of our current Arab allies toadies to him or stuffed his treasury with money. Saddam Hussein: he belongs to us all.

The difference is that Moscow never broke the axis with Baghdad, despite its clucking about Kuwait.

The U.S. paid for this mouth support with fawning gratitude. Hardly a word did Washington say about the hundreds of Soviet military "techni-

“ The Moscow-Baghdad axis, obviously and openly, is at work on a plan that would restore to the Soviet Union and Iraq the power that both have lost in the Middle East. It would also meet another objective of interest to both men — survival. ”

cians" who stayed on in Iraq to extend comradely help with Soviet weapons or the case of the Soviet ship caught with weapon parts destined for Iraq through Jordan.

Politically, the Soviet Union kept working for Iraq through Gorbachev's personal envoy.

Now comes the mutual payoff. Saddam faces defeat. He knew it was coming. He is neither martyr, mystic nor moron. In meetings with Soviet diplomats, the Iraqis

prepared their line of retreat and survival.

Saddam would withdraw from Kuwait — with the U.S. accepting some formula on the importance of settling other Mideast issues.

Washington would never use the word linkage, but Saddam would be strengthened because the world would know a deal when it smelled one.

Saddam would take his tanks and missiles with him. They would join

the divisions he left in Iraq. Tehran would deliver the air armada he thoughtfully parked in Iran. Saddam would emerge battered, but still dangerous.

Moscow would be waiting to pitch in with arms and advisers, despite any international agreements. The Soviet Union's double-crossing on treaties is spelled out devastatingly in Arnold Beichman's new book "The Long Pretense" (Transaction Publishers).

With contempt, let's dispose of the argument that was heard that Americans opposed to a settlement that would strengthen the Moscow-Baghdad axis are itching to march on Baghdad and don't care about American casualties.

That is brother to the one about how only Israel and its amen corner in the U.S. were beating the war drums against Iraq — remember that one?

No march on Baghdad was necessary — simply a continuation of President Bush's steady course. A ground attack should not have started a day earlier or later than

planned before the Gorbachev-Saddam maneuvers.

Primary objectives should be Iraq out of Kuwait and Saddam out of power: If we do not achieve the second at once, we should work at it incessantly after he pulls out.

Does anybody really believe Saddam Hussein would cooperate with that goal? Would he suddenly deal honestly with the international machinery needed to prevent him from getting new weapons, including chemical or nuclear ingredients? Anybody?

President Bush has advised Iraqis to get rid of their tyrant. The honesty horrified bureaucrats and former bureaucrats as official honesty usually does.

Bush showed respect to Iraqis by speaking the truth to them — peace and Saddam cannot exist together. Gorbachev is sophisticated enough to know that.

No, it is not a firm Mideast peace Gorbachev and his axis partner seek but their own survival and renewed power. Did anybody expect anything else of either partner? Anybody?

THE FAR SIDE

By GARY LARSON



“Just ignore him. That's our rebellious young calf Matthew — he's into wearing leather clothes just for the shock value.”

Letters

Please explain

To The Editor:
Question: Could you please explain to me the logic behind the hiring of Francisco Rodriguez to the position of editor after he was fired from the position of managing editor?
Derric Trevino

Rodriguez again?

To The Editor:
Dear Student Publications Committee,

Are you people nuts? Can't you remember back even a few months? It seems to me that a former "Managing Editor," who was FIRED from The UD for very rude and crude editorials, should not become the new EDITOR!!! Re: "Rodriguez selected as 1991-92 UD editor" UD Friday, April 5.

Come on Texas Tech fans, let's not allow our newspaper to be taken so lightly. We aren't completely ignorant. Rodriguez has already shown his true colors, which have proven to be, at best, rather drab. What happened to the professionalism that we are supposed to

be learning and practicing?

At the very least, (if it so happens that he is the only person who applied for the position) Rodriguez should write an apology, to the readers of The UD, with sufficient explanation of why he will not tolerate the very same "editorial" actions in the future, (no two-sentence retraction is acceptable here.)

To the students, the following is a list of Student Publication Committee members whom you may contact to voice your opinion:

- Nina Ronshausen, chairperson
- Jan Childress, journalism
- Clay Clarke, student
- Jay Collier, student
- Glenn Davis, foreign language
- Terry Ervin, agriculture
- Marsha Gustafson, Ex Students Association
- Mark Harmon, mass communications
- Brad Hingst, student
- Pamela Kuser, student
- Anna Nicholas, student
- Grant Savage, business administration
- Margaret Simon, News & Publications
- Gwen Sorell, home economics
- Lori Wentroble, student

David Doyle

The University Daily

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Opinions expressed in The University Daily are those of the editor or the writer of the article and are not necessarily those of the university administration or of the Board of Regents.

LETTERS POLICY

Letters to the editor of The University Daily are welcome. All letters must be TYPED, double-spaced and must include the writer's name, address and telephone number. All letters must be signed. Unsigned letters will not be published. A letter writer's name may be withheld from publication upon request and with a valid reason. Letters shorter than two double-spaced, typewritten pages will be given preference. Letters must be presented for publication with picture identification.

The editor reserves the right to edit letters for libel, taste, obscenity and space limitations. Letters will be edited for spelling, grammar and punctuation.

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Stress-handling skills develop during adolescent years, prof says

By JENNIFER SANDER
The University Daily

The failure to cope with stress during adolescent years may lead to stress during a student's college years, said Joyce Munsch, assistant professor of human development in family studies at Texas Tech.

Munsch said many young people today are not coping effectively with the stress of school experiences, causing them to drop out of school. Texas ranks 41st among all states in school retention through high school graduation. One in three Texas ninth graders drops out of school before graduation.

The number of high school dropouts has a staggering impact on the quality of the Texas work force and college

enrollment, Munsch said.

"Most people deal with stress now based on how they dealt with it in adolescent years," Munsch said. "Some coping patterns set another pattern of how a person deals with his or her problems."

"If there is a problem, a young person is most likely to do nothing about it, or do something harmful instead of helpful to forget about it. This does not give them the skill to deal with their problems in the future, such as college."

"What needs to be found is a way to help adolescents develop skills to deal with their problems in the future, which should help keep them on track to continue their school careers," Munsch said.



Munsch and other Tech professors are researching how adolescents in Lubbock deal with their school-related stress by surveying area junior high school students.

"The transition from elementary to junior high is an important one," Munsch said. "We ask the kids to describe the stress in their lives, how they cope with it, and who they go to for help. We also ask them what they would like as far as help goes."

"We started this in the fall, and this spring we are going to analyze the data. We are going to check on these same kids next year and see how they are doing and use what we learned this year to help us with the incoming seventh graders next year."

Munsch said they will use what they learned to help identify what coping skills children need to handle stress better.

"We are going to apply for funding to begin an intervention program to improve school performance and reduce the risk of dropouts," she said.

Munsch said the study of adolescents is important.

"The study of early adolescence is important because it is a period of time that a person is becoming more

independent and responsible for their own self," she said. "A typical college student can look back on his or her days of high school and realize that they still deal with stress the way they did then."

"We want to help adolescents develop skills to deal with stress in a positive way, not a counterproductive way. Hopefully, they will use these skills and they will make it through college. The sad part is that we are losing too many as they move through the system."

The stress that a college student may experience can be related to the stress they felt during their adolescent years, Munsch said.

"It is really a matter of how a person deals with stress," she said.

"There is a lot of stress during junior high and high school and if a person did not develop good coping skills at that age, then they probably will not have them now."

"Things will continue to be stressful. Stress compounds when you don't deal with it. Even when a person is out of college and into the work force, there is still stress. The earlier a person develops stress-coping skills, the easier things will be."

"What we hope to do is find out what works as far as coping with stress goes, and help young people develop those skills," she said. "We are not trying to find one right way to deal with stress, just find out what works for the young people. I think we have every reason to be optimistic."

Unscheduled space walk makes history

By The Associated Press

CAPE CANAVERAL, Fla. — A shuttle astronaut took a walk outside, shook a balky antenna and freed it Sunday in the first unscheduled emergency repair ever made in space.

"It's free, it's free, I can see it move, it's free!" shouted a jubilant Jerry Ross as the antenna swung out from a giant scientific observatory.

"Far out, good work," said Jay Apt, his fellow space walker.

It was the first time in more than five years that any Americans had taken a space walk.

The repair job made it possible to plan release of the \$617 million Gamma Ray Observatory into orbit for about 6:30 p.m. EDT, 4½ hours late, from the shuttle Atlantis. The time of

release was not critical to the mission, as is the case when a planetary probe is involved.

The observatory will record the high-energy radiations coming from some of the most violent processes in the universe for the next two years and perhaps longer. Gamma rays do not penetrate the atmosphere and cannot be detected on Earth.

Flight directors decided to take advantage of Ross' and Apt's unexpected venture into the cargo bay and had them do some experiments that had been scheduled for a space walk on Monday. There were no changes in those plans.

The astronauts, attached to the shuttle by a tether, practiced moving along a hand rail mounted to the left side of the cargo bay. Ross did somersaults while holding on to the rail and exercises that resembled pushups. He

chuckled and laughed while doing his tricks and in general appeared to have a good time.

They also did small tests to measure how much effort it took, including one in which Ross lifted Apt up and down several times from side to side. The platform he was standing on recorded the force applied.

The tests were planned to help space station designers. The station, if approved by Congress, will be assembled in space and require considerable hand-on efforts by astronauts in space suits.

The shuttle was 280 miles above the East Indies when the repair was made.

The repair had been estimated to last more than an hour. Instead, the astronauts were in open space for only 17 minutes when Ross worked the antenna loose.



Walter Granberry/The University Daily

Doppler raises accuracy of forecasts

By JENNIFER SANDER
The University Daily

Texas Tech researchers are using the Doppler radar system to analyze structures and the deep inner workings of potentially dangerous storms.

The Doppler system allows meteorologists to obtain a three-dimensional view of a storm from the inside out.

Colleen Leary, a professor with Tech's atmospheric science group, said, "The data is collected on magnetic tape and then put on a computer using sophisticated programs. We then take the data, manipulate it, and connect radar measures of power and wind speed, plot it out and interpret it."

Leary said the process is complicated.

"The three-dimensional view involves plotting a lot of pictures, which can be very time-consuming," she said. "However, it is an excellent tool for measuring wind speeds."

The system will help forecasters predict weather more accurately, Leary said.

"The Doppler radar system should help weather forecasters a great deal," she said. "It will give them a more efficient and complete weather outlook and help them predict more precise severe weather warnings, tor-

nadoes, severe thunderstorms and flash floods."

Leary said she is more interested in studying groups of storms than individual storms with the radar systems.

"Even though rain comes from certain systems, why the storms produce certain rainfall is hard to understand," she said. "I want to learn more about why groups of thunderstorms take on a life of their own and take up a different pattern than individual thunderstorms."

Leary said the radar system is also important to safety control technology for such agencies as the Federal Aviation Administration, the Department of Commerce-National Weather Service and the Department of Defense.

Rainfall and windspeeds, the main types of targets the Doppler radar measures, are important issues in West Texas, especially in the growing season, Leary said.

"I think it is helpful for Texas Tech to research areas of current interests like this," she said.

Leary said the Doppler radar system is also important because students can study the research material and look for jobs using similar radars, such as weather services.

"The fact that students can learn about the Doppler radar system here and then apply what they know out in the working world makes it an even stronger project," Leary said.

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C.B. Biaza, Lubbock's safety education officer for the Texas Department of Public Safety,

discusses traffic safety as "Bob" the safety robot looks on.

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New faces in new places mark opening of 1991 baseball season

White Sox, A's battle for division title

AMERICAN LEAGUE WEST

1. Chicago White Sox
1990 record — 94-68, 2nd.
Key additions — Tim Raines, outfielder; Cory Snyder, outfielder.
Key losses — Ivan Calderon, outfielder; Barry Jones, reliever.



Manager Jeff Torborg may have finally assembled a group that can legitimately give Oakland trouble. Although the White Sox took the season series from the A's, a late season Oakland surge left Chicago in second place.

With the addition of Tim Raines and Cory Snyder, the White Sox have a serious power-punch that could leave opponents lying on the canvas.

Chicago will be carried by a strong pitching staff, with some veteran experience in former Texas Ranger Charlie Hough and the golden arm of Bobby Thigpen.

2. Oakland Athletics
1990 record — 103-59, 1st.
Key Additions — Eric Show, pitcher; Willie Wilson, outfielder.
Key losses — Scott Sanderson, pitcher.



Tony La Russa, Jose Canseco and friends again have what it takes to win it all, but the stinging four-game World Series sweep at the hands of Cincinnati may still be lurking in the depths. A late September choke-job and ego unrest by Mr. Lead-foot could quell any Athletic playoff hopes.

But no matter how potent the pitchers, the attitude of Rickey Henderson could determine if the A's are still playing ball come October.

3. Texas Rangers
1990 record — 83-79, 3rd.
Key additions — Mark Parent, catcher.
Key losses — Pete Incaviglia, outfielder; Charlie Hough, pitcher.



Skipper Bobby Valentine returns almost an exact replica of last year's third place team, with the most notable absences being power-hitter Pete Incaviglia and knuckleballer Charlie Hough. The Rangers probably will be better off without the over-paid Incaviglia when outfielder Juan Gonzalez returns to the lineup from a pre-season injury.

The ever-present presence of old by age, but young at heart fastballer Nolan Ryan will again give the Rangers a needed boost from the mound. Jeff Russell will hopefully return in '91 to 100 percent and provide quality relief from the bullpen.

4. Seattle Mariners
1990 record — 77-85, 5th.
Key additions — Bill Krueger, pitcher.
Key losses — Matt Young, pitcher.



Seattle has been mired in a slump since it was brought into the league, and this year should be manager Jim Lefebvre and his Mariners' first year to break the .500 plane.

Lefebvre has one of the best young staffs in the league with Randy Johnson and Eric Hanson. The emergence of Ken Griffey Jr. as one of the league's best sparks a young hitting team and could lead the darkhorse Mariners to their first ever better-than .500 finish.

This is the first in a two-part series previewing the 1991 Major League Baseball season. The National League will appear in tomorrow's issue.

5. California Angels
1990 record — 80-82, 4th.
Key additions — Dave Parker, DH; Floyd Bannister, pitcher; Gary Gaetti, third baseman.
Key losses — Devon White, outfielder; Willie Fraser, pitcher.



One of the few bright spots for manager Doug Rader is the California pitching staff, headed by veteran Bert Blyleven and strong hurlers in Mark Langston, Kirk McCaskill and Jim Abbott.

Dave Winfield and Dave Parker combine for some much needed power, but even their leadership and the additions of Floyd Bannister and Gary Gaetti won't help much.

6. Kansas City Royals
1990 record — 75-86, 6th.
Key additions — Kirk Gibson, outfielder; Mike Boddicker, pitcher.
Key losses — Bo Jackson, outfielder; Willie Wilson, outfielder.



Evidently, Bo don't know Kansas City, as he was sent packing for the greener pastures of the free-agency market.

Bret Saberhagen heads a pitching staff full of big names, but lacking in the power to back up those names. Tom Gordon, Storm Davis, Mark Gubicza and Mike Boddicker need to have a great year to keep Kansas City out of the basement.

Former World Series hero Kirk Gibson should lend some needed veteran leadership to the team.

Minnesota Twins
1990 record — 74-88, 7th.
Key additions — Chili Davis, outfielder; Jack Morris, pitcher.
Key losses — Juan Berenguer, pitcher; Gary Gaetti, third baseman.



Big league names were added in the off season to help counter Minnesota's big league problem — lack of pitching.

Former Tiger Jack Morris should add some strength to the Twins' staff, but not that much. Outfielder Kirby Puckett seems to be Minnesota's only constant, as he will look to climb back up to the .300 hitting mark.

AMERICAN LEAGUE WEST

1. Chicago White Sox
2. Oakland Athletics
3. Texas Rangers
4. Seattle Mariners
5. California Angels
6. Kansas City Royals
7. Minnesota Twins

Darkhorse: Seattle Mariners
Darkhorse #2: Texas Rangers
Team that should win but won't: Oakland Athletics

Compiled by Andrew Harris,
Sports Editor and Len
Hayward, Sports Writer

Four teams fight for AL East crown

AMERICAN LEAGUE EAST

1. Baltimore Orioles
1990 record — 76-85, 5th.
Key additions — Glenn Davis, first baseman; Dwight Evans, outfielder.
Key losses — Mickey Tettleton, catcher; Dave Gallagher, outfielder.



Former Astro Glenn Davis marks the biggest addition to a Baltimore team that hit only .222 in the fourth spot of the lineup.

The young arm of Ben McDonald should help the Orioles as reliever Greg Olson returns to provide quality relief help.

The ageless wonder and long-time Red Sox outfielder Dwight Evans will add strength and experience to the batting order if he can stay off of the disabled list.

2. Boston Red Sox
1990 record — 88-74, 1st.
Key additions — Danny Darwin, pitcher; Jack Clark, outfielder/first baseman.
losses — Dwight Evans, outfielder; Mike Boddicker, pitcher.



If ace Roger Clemens can keep his mouth shut and his fastball blazing, Boston could battle with the Orioles for the division lead throughout the season.

The loss of Mike Boddicker will hurt a little as far as the pitching staff goes, but Danny Darwin could pick up the slack.

The Red Sox will be looking for their first World Series title since 1918, which should be more than enough of a motivation factor.

3. Detroit Tigers
1990 record — 79-83, 3rd.
Key additions — Rob Deer, outfielder; Mickey Tettleton, catcher.
Key losses — Jack Morris, pitcher; Jeff Robinson, pitcher.

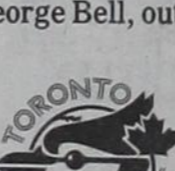


Newly acquired outfielders Pete Incaviglia and Rob Deer, along with 1990 home run king Cecil Fielder will make for a very lethal hitting line up, possibly enough for Detroit to make a run for the top.

Mickey Tettleton will make up for the loss of Mike Heath at catcher, while Alan Trammell and Lou Whitaker return as perhaps the game's best infield duo.

The loss of Jack Morris could hurt the Tigers in the long run.

4. Toronto Blue Jays
1990 record — 86-76, 2nd.
Key additions — Roberto Alomar, second baseman; Devon White, outfielder; Joe Carter, outfielder.
Key losses — Fred McGriff, first baseman; George Bell, outfielder; Tony Fernandez, shortstop.



Toronto may have shot itself in the foot with the departure of Tony Fernandez and George Bell, and the question will be whether or not Joe Carter can pick up the hitting slack.

Pitching ace Dave Stieb will again anchor the Blue Jays' staff, but Toronto will only be as good as the rest of its pitching. This will be the year, in Toronto anyway, of John

Olerud. Olerud is also another do-or-die player for the Blue Jays.

5. Cleveland Indians
1990 record — 77-85, 4th.
Key additions — Eric King, pitcher; Shawin Hillegas, pitcher.
Key losses — Cory Snyder, outfielder.



The hapless Indians lost perhaps their best spark in Cory Snyder, but are helped out by Sandy Alomar behind the plate.

Veteran Keith Hernandez helps out in the leadership department, while former Longhorn Greg Swindell and Tom Candiotti head a questionable pitching staff.

6. Milwaukee Brewers
1990 record — 74-88, 6th.
Key additions — Franklin Stubbs, first baseman; Dante Bichette, outfielder.
Key losses — Rob Deer, outfielder.



The Brew Crew again returns a few stars, but really doesn't have the rest of the team to back the billing.

If Milwaukee can't compete this season, maybe Robin Yount, Paul Molitor and Gary Sheffield should look elsewhere for other means of employment.

Franklin Stubbs and Candy Maldonado should help the Brewers stay out of last place.

New York Yankees
1990 record — 67-95, 7th.
Key additions — Scott Sanderson, pitcher.
Key losses — Dave Righetti, reliever; Steve Balboni, first baseman.



Oh, were the days of the Bronx Bombers and Mr. October. Not even Lou Gehrig and Joltin' Joe could help the Yankees these days.

The big and only bright spot for New York is Kevin Maas, who could eventually take over the reigns as the Yanks' star first baseman.

Don Mattingly is another star in his prime that should possibly search for a new home.

AMERICAN LEAGUE EAST

1. Baltimore Orioles
2. Boston Red Sox
3. Detroit Tigers
4. Toronto Blue Jays
5. Cleveland Indians
6. Milwaukee Brewers
7. New York Yankees

Darkhorse: Cleveland Indians
Darkhorse #2: Detroit Tigers
Team that should win but won't: Boston Red Sox

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