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The Missouri Miner, April 10, 1985

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Wednesday, April 10?, 1985

University of Missouri-Rolla

Volume 73, Number 27

Twenty Pages

UM's first lady: married or employed

by Mella J. Sage In her column in the St. Louis Post Dispatch, Erma Bombeck recently wrote, "For years women tap-danced around their work as wives. Occassionally, someone came up with an impressive figure on how much you would pay a chauffer, nurse, nutritionist, cook, mistress, laundress, and bookkeeper. (Notice it says 'and' not 'or'.) But it was all sort of light until now. A courageous woman, Diane Skomars Magrath, who is married to the new president of the University of Missouri, entered into a contract with her husband that would guarantee her \$30,000 of his \$100,000 salary for her contributions to campus life."

Diane Skomars Magrath, co-editor of the 1984 book The President's Wife: Volunteer or Volunteered?, addressed the audience on the topic of 'Public Partnership' in the 'Women at Work' series Wednesday, March 25. The 60 member audience consisted mainly of women on their lunch hours. A few men and female students were also

She began her speech by dedicating it to Louise Marchello, wife of UMR Chancellor, Joseph Marchello. She refered to Mrs. Marchello as 'a bright and shining star in the sisterhood of president's

Her speech centered on three

main points:

The notion of being public.

2. Partnership in the public

3. Conclusions of her own.
According to Mrs. Magrath, the president and his or her partner should not be surprised by the publicness of their roles. To exemplify the publicness of her husbands position, she said "I should have noticed when Peter mailed out 12 notices of our engagement to the board members one hour after he had proposed and I had accepted that this was going to be no ordi-nary marriage." The audience responded with much laughter.

According to Mrs. Magrath, the biggest change for her was moving into the public house. She said that last year alone they entertained 4,500 people in the public residence

Webster's sixth definition of public is 'exposed to general view'.
"This," said Mrs. Magrath, "about

sums it up."
Mrs. Magrath told the audience the Magrath family motto-"We are in a priveleged position tem-porarily. We will enjoy it every moment that we are here but will also enjoy gaining our privacy some day." She points out that while publicness is stimulating it is also exhausting.

In her section on partnership, she begins with her 7 year marriage

partnership with President Magrath and moves on to her 6 year working partnership with him. She describes him as a 'very demanding boss and partner'. She spoke about the difficulty of separating their '50/50' marriage

partnership to their 'employer/employee' partnership.
In reference to the University of

Missouri campus' attitude, she said, "Not all campuses are this progressive and sensitive or responsive to the partner. The fact

is, though, there is so much to be done at these institutions, it takes all of us to get it done and we've got to work together."

As she has progressed through

see First lady page 11



Diane Skomars Magrath addresses the people attending the "Women at Work Series." Her topic concerned being the wife of a university president. (photo by Kevin McLaughlin)

Marchello suggests changes

by Tom Duggan

As part of the University's ongo-ing program of reduction and maintenance, chancellor Joseph Marchello recently submitted a proposal regarding the future of the radio station KUMR.

According to the proposal, "support from the Corporation for Public Broadcasting has declined in recent years and the future level of federal support is not clear. The KUMR transmitting equipment is old and will probably need to be replaced in the next few years."

The proposal states, "At that time or before, the University will need to decide whether to continue

public radio broadcasting."

The proposal provides an alternative to the complete shutdown of the station. It states that each campus of the University of Missouri operates an FM public broadcast-ing station and that one way to cut costs would be to reduce operations to one studio. The other three stations would be converted for rebroadcast of that one station.

According to Marchello, this would allow the university to con-tinue the service while reducing expenditures. And the personnel of the station, who are media professionals for the most part, could be given positions in the new "can-did classroom" ITV studio project.

The ITV studio is a video educa-tion project and is currently housed in the library. Plans call for additional facilities in the new

Engineering Management Building.
According to Marchello, the
only feedback from the other cam-

puses on the proposal comes from UMSL which has offered to let UMR rebroadcast their public broadcasting station.

The reason for the whole prop osal is the cost of replacing the transmitter should it fail. Accord-ing to Jeffrey R. Stoll, General Manager of KUMR, there is no reason to expect this to happen in the near future. He states that although the majority of the equipment is eleven and a half years old, it is quite sound and should remain so. Marchello agrees that the present equipment could last for some time

As for the proposal itself, Stoll points out that there are some drawbacks to the chancellor's plan.

The plan, according to Stoll, is an offshoot of the "Mississippi Concept". In Mississippi, public radio broadcasting is done state-wide through the use of one "flag-ship station" and seven repeaters. The whole state receives the same broadcast.

But Stoll states that what works in Mississippi might not work in Missouri. First of all, public radio in Mississippi is state operated, which makes funding and organizing a bit easier. Second, the listen-ing audience in Mississippi is fairly constant throughout the system.

In the University of Missouri

system, the Kansas City, St. Louis, and Columbia areas represent big city type markets, whereas the Rolla area is more of a rural environment. Having one station serve all these areas would cause some

programming problems.
Stoll adds that a flagship station serving all four campuses could not serve local needs such as providing local news and specialized programming. Since KUMR is the only public broadcast radio station south of 1-44 and north of the Missouri-Arkansas border, it provides these services to a number of

According to Stoll, KUMR transmitts from a 480 foot antenna in Lecoma, about ten miles south of Rolla, with 100,000 watts radiated power. It's listening area is eighty miles in radius and totally encompasses nineteen counties. The potential listening audience is 456,000 people. It's the most powerful station in the area.

KUMR is funded in part by the Corporation for Public Broadcasting which is a government agency created to insure national boardcasting to meet the needs of the public. The station was licensed to the Board of Curators of the University of Missouri on August 31, 1973, and is funded in part by the

see KUMR page 11

Run for Better **Education to** be April 30

by Sylvia Chin A "Run for Better Education" to Jefferson City will occur on April 30. The purpose of the run is to focus public attention on the fact that UMR and other universities in Missouri are suffering from insufficient funding.

Between 60 and 100 runners will be needed to run the 60 miles to Jefferson City. At least one runner at a time will run along the shoulder of highway 63 carrying a scroll toward Jefferson City. The scroll will be read during a higher education appropriations meeting. The runners will ride back to Rolla all at once after the meeting.

When the runners are on the shoulder, two vans will accompany them for their safety, one in front and one in back approximately 10 yards apart throughout the run. Sgt. Wilson of the Highway Patrol's Trooper Desk asserts that we like to help out in these sort of things when we can.

It is hoped that enough publicity will make the public aware of the plight of higher education in Missouri. Missouri presently ranks 46th of the 50 states in actual state

appropriations per student.
Students who are frustrated over the increase in student fees and who are anxious to do some-

see Run page 11

Major Miner Stories

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Since the University of Missouri-Rolla was on break last week, there will be NO April Fool's issue this year. But don't miss our Pull-Out Section (pp. 15-20)!

M-Club
There will be an M-Club meeting on
Thursday April 11th at 7:00 p.m. Initiation
and nominations will be held. The meeting
will be in CE 114. Be there!!

Thursday

SUB Presents Hot Shandy on the Hockey Puck at 12:00 noon. Hot Shandy plays blue-grass and folktunes. Two rowdy guys.

UMR Film Series, "And the Ship Sails On," 7:30 p.m., Miles Auditorium, M.F., bldg. Season ticket or \$3 at the door.

Honors Week Banquet, Dr. Wei-Wen Yu, UMR, "Cold-Formed Steel Structures," 6:30 p.m., Centennial Hall, University Center-Fast, Tickets, 57 per person, may be reserved through April 8 by calling 314-341-4138.

Chi Alpha Christian Fellowship

Chi Alpha Christian Fellowship
If you feel the need for encouragement and
uplifting, or if you would like to spend time
with other Christians, we invite you to join us
in fellowship and worship of our Lord. We
meet at 7 p.m. on Thursdays in the Ozark
Room, University Center-West. We look
forward to seeing you there.

Toastmasters
The Toastmasters International, UMR Club
will be having a joint meeting with the Ozark
Orders Club at 7:30 in H-SS 101. Guests
welcome. Refreshments will be served.

MSM Climbing Club

The Climbing Club will be having a meeting at 6:30 p.m. in room 305 of Norwood Hall. New members welcome.

Managing Editor . .

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Metallurgical Engineering Seminar Dr. John McIlwain, Bureau of Mines Rolla Research Center, "Flame Spray Deposition of Metallic Coatings," 3:15 p.m., 227 Fulton

Friday

SUB Presents a Movie, "Romancing the Stone" in M.E. 104. Showtimes are 6:30 and 9:00 p.m. (Also on Saturday, too!!!)

Saturday

UMR Spring Open House Registration from 8 a.m.-noon, Miner Lounge, University Center-East, Guided tours leave between 9 p.m.-1 p.m.

Women at Work Series

Herisen Choir, "Voices for Peace," 7:30 p.m., Cedar Street Center. Free.

SUB Presents a Ping Pong Tourney. Sign up in the SUB office ~ 217 University

Sunday

All You Can Eat Chili
Arnold Air Society is holding an "All You
Can Fat" chili-dinner, in conjunction with
Wendy's Restaurant, this Sunday, April 14,
from 4:40-7:30 p.m. at Campus Club, Tickets
are \$2.50 in advance and \$3,00 at the door.

International Day
Cultural exhibition, 10 a.m.-5 p.m., Miner
Lounge, University Center-east. Free. Luncheon, noon-1:30 p.m., University CenterEast Caleteria. Tickets are \$7 for adults, \$5
for students and \$3 for children under 12.
For reservations call 341-4219 by April 9.
Program, 2-4 p.m., Centennial Hall, University Center-East. Free.

Missouri Miner

The Missouri Miner is the official publication of the students of the University of Missouri at Rolla. It is published weekly at Rolla, Missouri. The Missouri Miner features activities of the students and faculty of UMR.

Submissions for publication in the Miner must be in our drop box (first floor Rolla Bldg., cast side) by 12:30 p.m. Friday or may be brought to the meetings at 1:30 Friday afternoon before the Wednesday of publication. No submissions will be accepted after the

Subscriptions are available to the general readeship at a rate of \$7 per semester

Ken Tweedy

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Cartoonist: Foin Clancy

THE MISSOURI MINER

303 Rolla Building University of Missouri-Rolla Rolla, MO 65401 (314) 341-4235

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Voices of Inspiration Choir On Sunday April 14, the Voices of Inspira-tion will be in concert at the First Assembly Church God in Christ, located on the corner of 14th street and Olive. The concert will begin at 3:00 p.m.

Monday

UMR Collegium Musicum Spring concert, 8 p.m., Presbyterian Church, 919 E. 10th St. Free.

Chemistry Seminar
Dr. Stanley Pons, University of Utah,
"Spectroelectrochemistry," 4:30 p.m., 125
Shrenk Hall, Free.

Tuesday

Rolla Chapter Missouri Society
of Professional Engineers
Dinner and presentation, Jack R. Nieme,
St. Louis, "Lock and Dam 26 Replacement
Project," Zeno's Steak House, 6 p.m. social
hour, 7 p.m. dinner, Reservations required.
Call 341-4476 by April 12.

English Lecture
Dr. N. Katherine Hayles, UMR. She will
discuss the theories in her book, "The Cosmic Web," 33.0 p.m., 201 Humanities-Social
Sciences Building. Free.

SUB Presents David Syrotiak's National Marionette Theater, performing "In Con-cert" at Cedar Street Center 8:00 p.m.

Next Wednesday

Geology and Geophysics Seminar Peter Price, Marathon Oil, "Base and Pre cious Metal Sulfide Deposits Associated with Salt Domes in the Gulf Coast and Medi-terranean Area," 4:30 p.m., 305 Norwood

Noday

Cheerleading Tryouts (Men and Women)
April 15-18, 1985 5-6:30 p.m.
Multipurpose Bldg.
Clinics-April 15-16-17
Tryouts-April 18
You must attned 2 clinics to tryout.
For more info, 341-4899.

Financial Aid-

Scholarship Programs Available
The University of Missouri system has several scholarship programs which are available to students attending any of the four University of Missouri campuses.
Please evaluate the following scholarships and if you want to be considered for the 1985-86 academic year, stop by the Student Financial Aid Office and see Karon Matlock, Financial Aid Office and see Karon Matlock, Financial Aid Adviser, before April 12, 1985.
La Verne Noyes Applicant must be related by blood to a man or woman who served in the armed forces to the United States during World War I. The applicant must file in the Student Financial Aid Office appropriate service or discharge papers which give

certificates, etc., attesting to the blood relationship of the applicant to the World War I veteran. The applicant must also be a citizen of the United States.

William and Myrtle Hargis Award is limited to graduates of Belton High School. Belton, Missouri.

Gene S. Bennett Award is limited to student who come from a community with a population of less than 100,000 and who have financial need.

Lucinda Del eftwich Templin Award is limited to women who have need.

Recipients of these scholarships must have an established "need" with the Student Financial Aid Office and at least a 3.0 GPA.

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TUTORING

ALPHA CHI SIGMA

Assistance offered in Chemistry and Chemical Engineering Session begins at 7:00 pm Tuesday and Thursday 126 Chemical Engineering Building

KAPPA MU EPSILON

Math 2,4,6,8,21 and 22 6:30 - 8:00 pm Tuesday and Thursday 206 Math/Computer Science Building

SOCIETY OF PHYSICS STUDENTS

Physics 21,23,24,25 and 107 7:00 - 9:30 pm Tuesday 130 Physics Building

CHEMISTRY DEPARTMENT

Chemistry 223 4:30 - 6:30 pm - Tuesday 125 Chemical Engineering Building

ENGINEERING MECHANICS DEPARTMENT

EM 50, 3:30 - 5:00 pm - Monday EM 110, 3:30 - 5:00 pm - Tuesday EM 150, 3:30 - 5:00 pm - Thursday 105 Engineering Mechanics Building

MATHEMATICS AND STATISTICS DEPARTMENT

Algebra, Trigonometry and Calculus 8:00 am - 12:30 pm Monday - Friday 337 Math/Cmputer Science Building

MINORITY AND WOMEN ENGINEERING
TUTORIAL SERVICES

Areas Covered: Physics, Math, E.M., E.E., E.G., Chemistry, Eng. Mgt.,
Comp. Sci., English, Chem. Engr., and M.E. A schedule of tutorial sessions is available in Room 204 Rolla Building

Preregistration April 15 - 19
Preregistration for the Summer and/or Fall semester will be April 15 through April 19. Students should obtain their preregistration materials and schedule of classes from the Registrar's Office starting April 11th. Detailed information regarding preregistration will be found in the front section of the Fall schedule of classes.

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POLICE ACADEMYZ THEIR FIRST ASSIGNMENT

PG-13

Ends Thursday 7:00 only He'man & She-Ra G 9:00 separate admission The Slugger's Wife PG

"... A stunning motion picture."

-Starts Friday-

-Bob Thomas, Associated Press



UPTOWN 7&9

Baby **Ends Thursday** -Starts Friday-



Don't forget every Tuesday Night at the UPTOWN is Price Busters Night. All seats \$1.50

RITZ 7 & 9:15 Held over

MASK

Adult Owl Show Friday & Saturday 11:15

DRIVE IN Open Friday-Sunday A Soldier's Story

plus Starman

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Wednesday, April 10?, 1985 missouri miner Page 3

Missouri Legislature passing bills detrimental to the citizens

by Dave Palmer

The Missouri Legislature has apparently laid siege upon its constituency for benefit of the industry and corporate sector. While I hold much of Missouri (its rivers, lakes, woods, people, etc.) in high esteem. The same cannot be said for our state legislators. The people of this state are being abused by bill after bill which can only be seen as detrimental to the public. Borrowing a line from Representative Edward Markey of Massachusetts, "This is not liberal vs. conservative, but smart vs. dumb.

Two bills in the Missouri Legislature (one already passed into law) are flagrant examples of the government selling out the public with the intent of increasing corporate prof-

its. The seat belt law and the mandatory liability insurance bill, though seemingly minor nuisances, will have a major impact on individual costs.

The focal point in regards to benefit from the seat belt law is the auto industry. Should enough states enact such legislation by 1987, the feds will negate the order directing auto companies to install air bags. This, however, is not the only benefit, nor the greatest, realized by making a lack of personal safety consciousness criminal. Given the existence of such a law, a person not wearing his seat belt when involved in an accident will find his insurance coverage to be void (all bills to be paid from the pocket). And problems involving insurance companies do not stop here.

The mandatory liability insurance bill, currently in the Missouri House, will heap incredible benefits onto the insurance companies' benefits, again at the expense of the public. An important issue regarding this bill has been ignored despite the efforts of critics who have continually highlighted the problem. Withing the bill there are no constraints on the companies pertaining to insurance premiums. With people of other states being victimized by the skyrocketing rates of nonconstrained mandatory insurance, it is ridiculous for our legislators to even contemplate a bill barren of appropriate preventive

see Missouri Bills page 12

letters to the editor

Beware the evil landlord

7:00 only

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No w that the spring semester is upon us, it is time to warn all those nnocent people out there about the presence of greedy landlords in Rolla and to give some advice about how to avoid the worst of them. I personally have had one especially bad experience with a landlord in this town and want other people to learn from my mistakes. I would like to offer the following do's and don't's and also to ask for a response from the public

1. Read Carefully the lease you are planning to sign, especially if it is long and has small print. The small details might cause you a lot of

is a good thing to have. This way the owner cannot raise the rent on you in the middle of the year, and you cannot be evicted as easily. Just read it before you sign.

 Do not sign a year lease unless you plan to go to summer school. If you do sign a year lease, and find someone to take over the lease in the summer, make-sure the lease is not a sub-lease, (in other words, the lease is between the future tenants and the owner and not between future tenants and you) and get a written, signed, and dated statement from the

owner saying your lease has here. The landlord is not necesarily the owner.

3. Do not sign a lease that has a penalty for late rent.

4. Do not rent a house or apartment where the owner requires a larger deposit than the monthly rent. He is probably planning on keeping your deposit anyway (no matter how nice you keep the place) and just wants more of your money. He will also earn more interest on

your bigger deposit.

5. Do not sign a lease that has a

see Renting right page 12

Sexual assault articles great, but let me correct a definition

Dear Art Smith,

First, I would like to applaude your series of articles about rape prevention. These columns have given needed insights to the prob-lems associated with rape. But in your last article of the series ("Sex-ual Assault: Question Demanding Answers," March 27, 1985) you managed to continue a common misconception. What is Assault?

The legal meaning of assault is "a threat of violence." For an assault to occur, "there must be an apparent present means of inflict-ing the bodily harm" and "the threat (must) be concerned with immediate injury.'

What is Battery?
"Battery is the intentional and unlawful touching of another in an offensive manner."

My source for these definitions is the textbook used for CE 243, Legal Aspects of Engineers, written by Richard C. Vaughn.

Again, I thought your articles were good, but in the future you should check your definitions carefully.

Sharri L. Riggs

From the StuCo Complaint Box

Student Complaint:

Why is there no Computer

Engineering degree at UMR?
StuCo Response:
The head of undergraduate study in the Electrical Engineering Department says that the main reason for the lack of a Computer Engineering curriculum is that there is no set standard by which a curriculum can be established. The Accreditation Board of Engineering Technology, an organization which reviews all engineering curriculas, has not accredited any Computer Engineering curriculas thus far. Any similar fields have been categorized under an Electri-cal Engineering degree with a spe-cific emphasis or a minor in Computer Science.

UMR, in conjunction with the EE Department, offers two alternatives to the Computer Engineering degree. The first alternative consists of utilizing the 15 hours of free electives by taking computer science classes. The second alternative involves following a program, established and approved by the Computer-Science Depart-ment, which will result in a minor ment, which will in Computer Science.

—Jim Bicklein

LUFFFFFFFFFFFStudent Services of Student Council

Missouri Miner Survey

After "A Concerned Student's" article, the Miner is interested in compiling information on the rentals in Rolla. We askyou to take a minute and fill out this survey. Then drop it in the Miner Box in the Library or in the Rolla Building by April 19.

We will collect your answers and make them available to the public set 1) Acad file as recognized the Library and 2) Published.

public as 1) A card file on reserve in the Library and 2) Published results in the **Miner** of April 24.

We feel the card file may become a valuable asset to those hunting for a place to live. So please take a moment soon to get

What kind of housing do you have? At dorm, Bt apt., Ct single rm., Dt frat/sorority. Et house, Ft live with relatives. If you are in a apt. bldg., dorm, or frat, what is its name?

3. How far do you live from campus? A within 3 blocks, B: w/i a 10 min. walk, C: in town but not w/i walking dist. D: outside Rolla.

4. Your place's monthly rent is. A: less than \$50, B: 50-125, C: 125-200, D: 200-300, E: more than 300.

5. Average montly utility bill (elec., gas. water) is. 5.a. Summer months: A: less than \$35, B: 35-60, C: 60-100, D: 100-150, E: more than \$150.

5.b. Winter months: A: less than \$50, B: 50-100, C: 100-150, C: 100-150, C: more than 200.

6. With how many people do you share this cost (count yours.)

6. With how many people do you share this cost (count your-self)? A: 1, B: 2, C: 3, D: 4, E: 5

The answers to all these questions will go into the Library reserve file. Upon your request, we will withhold the answers to the following questions from the Miner's pub-

May the Miner publish your 9.
answers to the following 10.
questions? A: Yes, B: No. 11. 8. Who is your landlord? ____

9. Rate your housing: A: excellent, B: in pretty good

repair, C. okay, D. a little run down, E. should be condemned. Frequency of needed repairs? A never, B. occasionally, C.

often. Who is reponsible for doing the repairs? A; my landlord or someone he hires, B. me. If you answered "landlord" above, rate his promptness: Repair is A; immediate, B; is made within a reasonable time, C; takes a while. D takes a while "& some more coma while & some more com-plaints, E. What? He does repairs? If your landlord has several

If your landlord has several rentals, do you feel your place (compared to his others) is Alabove the norm, Blat the norm, Cibelow the norm? Rate your overall satisfaction: Alvery satisfied, Blastisfied, Cit's okay, Dldissatisfied. Elvery dissatisfied.

Please put answers here

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Verification: Necessity or Nemesis?

by Michael Winkler Problem

Identification MRS CONTROL IS one of the pressing issues and pivotal to any arms control agreement is the verification of compliance as a deterence against violations by either party. Verification is such an important issue because neither we nor the Soviets really trust each other. Propoganda since World War II has pointed to the United States as Soviets' principle enemy. This led to President Nixon's instructions to negotiators that he would accept an agreement only if a Soviet failure to honor the agreement could be detectable with enough warning for us to be able to protect our interest.1
The newest United States statement on verification says, "Arms control agreements must be designed to include provisions that ensure effective verification and reli-

of compliance. As for the Soviets, their officials feel that they could not trust the security of the Soviet Union to the good will of other nations, and that there is no reason to make compromising agreements which could erode their level of security, as they feel that the Soviets' system will ultimately be the system by which the world is to be governed. Thus, to them survival is first, and any gains from such agreement would be of importance only if it brought them closer to world

able means to deal with issues

domination.

Policy Formulation

Adoption HEFIRSTEXAMPLE of an arms control proposal, which indi-rectly addressed verification, had a nice bonus for the United States. The Baruch Plan, as it was called, was presented June 14, 1946 in the United Nations Atomic Energy Commission. The plan proposed international owner ship and management of all atomic facilities and materials, under the watchful control of the United Nations (and

the United States). Thus, the United States would have been involved in all facets of nuclear research and production, and thus the United States would have had access to all the knowledge that existed. Of course this plan was doomed to fail, as it left the United States an effective nuclear monopoly, and effectively, unilateral world leadership.³
A PLAN OFFERED BY

Soviet Statesman Andrei Gromyko in 1947 offered inspection of declared nuclear sites, with the inspections being preannounced, as well as destruction of nuclear bomb stockpiles. This plan was rejected by the United States because there was no accounting of suspected sites, and because the time factor between notification and the actual inspections would allow cheating.⁴
A PLAN OFFERED IN 1951

was the first clear case of a politically motivated offer. The United States, France, and Great Britain felt it would be beneficial to show the world that the Soviets were responsible for the arms race, so they offered a plan sure to be rejected. They offered a modi-fication of the Baruch Plan, with inspections early on, and with unspecified reductions to be made later.⁵

IN 1955, PRESIDENT Eisenhower offered a plan he called "Open Skies," which permitted free intelligence overflights of both the United States and the Soviet Union. It also included exchanging blueprints of military estab-lishments. Although it was offered as a "confidence-building measure," it mainly benefitted the United States, as the Soviets already had rel-atively free access to the kinds of information that was to be exchanged.

THE DISENGAGEMENT PLAN, offered by the Soviets in 1956, opened much of Europe to aerial and ground inspection, and in the course of the negotiations, the Soviets extended the offer to large the western half of the United States. This was probably the most promising negotiations ever held, but it failed because of French, British, and West German fears and the result-ing pressures on the United States. The Europeans feared that the plan would lead to a Europe under constant threat of Soviet invasion with no deterence.

IN 1963, THE LIMITED TEST BAN TREATY into being, which prohibited nuclear explosions in the atmosphere, outer space, or under water. This was to be verified using in place facilities of each country, and involved relatively simple processes. The treaty was under intense pressure to be ratified as the danger from atmospheric radiation was reaching a critical point.8

THE NEXT FORUM IN cant was the Strategic Arms Limitation Talks (SALT), which was delayed by Ameri can reaction to the Soviet and Warsaw Pact invasion of Cze choslovakia in 1968. The talks began in November, 1969 at Helsinki, Finland. Verification was to play a major role in these talks, directly and indirectly. Directly, although the Soviets agreed to discuss onthe-spot inspections for trouble spots, they stressed that National Technical Means of verification were sufficient to verify compliance.⁹ Thus the outcome of the treaty involved national technical means as the primary vehicle for verification.

National technical means

for the United States includes satellites which utilize compu-ters, radars, microwaves, infrared, and optical equipment; reconnaisance aircraft ocean going ships with complex sensors, ground radars and radio listening devices The ground radars include such installations as "Cobra Dane," a ten story phased array radar, which can follow dummy warheads ejected from a MIRV bus; and the radio-

History of negotiations

Baruch Plan: Proposed international ownership and management of all atomic facilities and

materials.

Andrei Gromyko: Offered inspection of declared nuclear sites, with inspections being 1947

preannounced.

Politics: 1951

U.S., France, and Great Britain offered a plan sure to be rejected just to make the Soviets look bad.

Open Skies: 1955

President Eisenhower proposed permission of free intelligence overflights of both superpowers.

Disengagement Plan: Offered by Soviets, opened much of Europe to aerial and ground inspection.

Limited Test Ban Treaty: Prohibited nuclear explosions in the atmosphere, outerspace, or undersea.

SALT I:

Emphasis on verifications. U.S. wanted on-the-spot inspections, and Soviets wanted verification through technology. Dealt with limits on offensive and defen-

listening devices are used to monitor telemetry of Soviet missile tests. As for the satel-"Instruments on these vehicles can spot objects 15 to 30 centimeters in size." 10 Our satellites now routinely relay such information to the ground by radio transmission, while the Soviets still rely on recovery of film capsules ejected from satellites to recover much of the information, and otherwise their capabilities are quite similiar.11

The reliance on national technical means limited what could be verified, thus SALT I dealt with limits on missile launchers, not on warheads. It also limited each country to two Anti-Ballistic Missiles (ABM) sites, with a limit of 100 missiles per site later reduced to one site per country). More importantly, with the United States insistence of on-site inspection, a ban on MIRV (Multiple Independent Reentry Vehicles) developement and production was effectively

Both sides had expressed interest in such a ban, and while it would have been nearly impossible to ban research on the MIRV (if indeed such a ban would be desirable), it would have been within our capabilities to detect the testing which was necessary to develope the MIRV to an operational capa

bility, in time for us to implement our own developement

And while it is relatively easy to identify missile launchers, this is becoming less and less meaningful, as there is evidence that the Soviets are developing and testing a rapidly reloadable ballastic missile interceptor. 12 This could well lead to rapidly reloadable ICBMs, which capability some believe the Soviets are quickly obtaining.

NEXT CAME THE ATTEMPT FOR A SALT II TREATY, a treaty with more meaningful limits. Verification methods were essentially the same. Even though the SALT II treaty has not been ratified, both sides have agreed to honor it as long as

At this point, a new problem arose: the Soviets are suspected of cheating in such areas as testing new versions of MIRVs, and in construction of radars which could be used as ABM radars, being built in areas with orientations which violate SALT I ABM obligations. 13 But, "Scientists, government officials, and experts disagree over charges of Saviet shorter." of Soviet cheating."14

IN 1982, PRESIDENT Reagan decided that reopening SALT negotiations would not be a good way to continue in arms control. In the summer

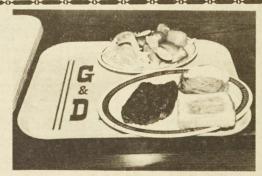
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Includes salad bar, baked potato and Texas toast. Free ice cream with meal

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107, 1985

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> START: 1982

SALT II:

Called for appoximately one-third reductions of warheads, equal numbers of bombers, and additional cuts in destabilizing ICBMs.

Has more comprehensive limits than

SALT-1. Though not ratified, both sides have agreed to honor it as long as the

other does. At this point, we are begin-

ning to believe that the Soviets are

Comprehensive Test Ban Treaty: Would propose a ban on development and expansion. Possibly, verification through tamper-proof seis-

Other ideas

Build Down: When you make a new warhead, you dismantle several old ones.

International Verification Agencies: Range from "unbiased observer to police force.

Would be possible when both sides are Freeze: equally powerful/secure and both are interested in holding the other back.

Graham Allison: Soviets should open up to the U.S. about military affairs so we would believe

of 1982 negotiations known as

START (Strategic Arms Reduction Talks) began. START called for approxi-mately one-third cuts of warheads, equal numbers of bombers, and additional cuts in destabilizing ICBMs (Inter-Continental Ballistic Missiles).¹⁵

A soviet START proposal in 1982, and later elaborated on, retains the SALT II frame,

and adds limits on warheads and bombs, modernization limits, and a ban on long range cruise missiles. The Soviets were willing to discuss deeper cuts than before, but the United States felt that the cuts that the Soviets offered were not deep enough, (the Soviets had proposed about one-fourth), and did not take into account differences in delivery systems such as bombers, and called the

modernization limits an attempt to constrain United States modernization of SLBMs (Submarine Launched Ballistic Missiles). 16

A COMPREHENSIVE TEST BAN TREATY has been recently discussed, but not agreed upon because of differeces in the methods of verification. And in July, 1982 President Reagan effectively tied any ban to a fully stable world situation not likely in the near future.17 But many feel such a ban would keep new problems from arising in the future. Two United States geophysicists, Lynn Sykes of Columbia Unithe U.S. Geological Survey's Center for Earthquake Research feel "modern seismic science could police a test ban treaty, even if efforts were made to mask signs of a test." They also feel that with unmanned and tamper proof seismic stations in each country, (an idea to which the Soviets have agreed to in principle), yields as low as one kiloton would be detectable. 18

A NEWER APPROACH IS known as the "build down" approach. This is where in order to modernize, you dismantle a set number of older warheads for each new war-head. Build down would retain most of the counting and verification provisions embodied in the SALT II treaty, but claims to count warheads instead of launchers. They would achieve this by considering each missile type to be carrying the maximum number

of warheads for which the missile had been teasted. Advocates feel that there would be no distinct verification problems, since actual launchers would have to be destroyed for the nation to receive credit for that reduction. They also assume that those warheads would have no strategic value without a means to accurately deliver them.¹⁹

HERE ARE VARIOUS plans calling for varying degrees of international control of the process. They range from simple verification agencies to agencies which would encompass all facets of arms control.

But both superpowers seem to oppose plans for even an international agency for verification. But its backers feel it would cost but a fraction of what is now spent on arms, and the it would be an effective tool in monitoring arms control agreements.

In December of 1982, the United Nations urged member nations to form just such an agency with satellites to monitor agreements. Such a system could arbitrate between the United States and the Soviet Union, giving a badly needed third opinion. The United States feels that too much valuable information would be available to parties who would put such knowledge to uses other than that for which it was intended (terrorism, for

example).²⁰
Thus United States delegates to the U.N. have cast

many negative votes on resomany negative votes on reso-lutions involving interna-tional verification agencies. "The United States stood alone in opposition to a Reso-lution calling for an interna-tional seismic monitoring sys-tem to verify compliance with a comprehensive test ban treaty."²¹ The administration cited ISoviet violations and inadequate sensitivit of monitoring instruments as the reason for their opposition.22

THE OTHER END OF THE spectrum is epitomized by Alvan Myrdal, who has pro-posed an international verification agency, which would be independent, intergovernmental, but would need strong leadership and a substantial budget. It would lead debate in the strong leadership and a substantial budget. It would lead debate in the strong leadership and a substantial budget. arms control discussion, provide an impetus for discussion, and would be responsible for settling disputes over possible violations, a job now handled by the Standing Consultative Committee.

ANOTHER FORUM IS THE FREEZE PROPONENTS. Major parts of a freeze are verifiable, and many parts are partially verifiable. The advocates feel that especially at this stage of the game any advantage to be gained by cheating would be very small, and that the disadvantages of being caught would be large, being caught would be large, involving the loss of trust of the other party. They also feel that the Soviets would enter such an agreement in an attempt to hold the United

see Verification page 11



OPAI GREEK WEEK OPAI
April 19 - April 26
April 19 - 130: Chernet Qualifications
m Opening 215 p.m. Alf Greek P
betition 8 p.m., FC-Sub Concert (Fraility Rew).

MONDAY

NTERRE BANK & McDONALD'S,
ROLLA SPRING MADNESS

Osagian Canoe. Must be 18
years old. No purchase
necessary. Winner to be
You Deserve CONGRATULATIONS! UMR's Mollenhoff named Honorable Mention Academic All American for 1984-85

UMR Miner Curtis Gibson—All-American Basketboll, Div. II-3rd Team.



You Deserve a Treat

20TH ANNIVERSARY OF ALPHA PHI ALPHA TO BE OBSERVED AT UM-ROLLA April 26-28



THURSDAY

HULA HOOP NIGHT!

hoop-win a bag of fries.
3 hoops-win a burger
enior Citizen, 1 hoop-win
a breakfast.
6 p.m. to 9 p.m.
"Her eyes misty,
Looks so sad,
Cet her a Big Mac—
You'll both be gled."

A McDonald's Birthday Party Avalue worth celebrating.

PHI ALPHA TO BE OBSERVED AT

UM-ROLLA
April 26-28

McDonald's NEW Birthday Party Policy for children twelve or under. The Birthday child will receive from the following merchants: Forum Video-Use of VCR & 3 movies or 6 movies FREE (Parental Supervision); Lorraine Childrens Shop-S5 Giff Certificate: Key Sportraveling Bag Dave's Barber Shop-Free Hair-cuit: Centerre Bank-\$5 Certificate: Key Sportraveling Bag Dave's Barber Shop-Free Hair-cuit: Centerre Bank-\$5 Certificate to be explained; Arnold's Educational Toys, Rollo-\$5 Gift Certificate to be explained; Arnold's Educational Toys, Rollo-\$5 Gift Certificate to be explained; Arnold's Educational Toys, Rollo-\$5 Gift Certificate to be explained; Arnold's Educational Toys, Rollo-\$5 Gift Certificate to be explained; Arnold's Educational Toys, Rollo-\$5 Gift Certificate to be explained; Participate of the Company of the Company of the Company of the Company of the Certificate Company of the Compa

SATURDAY

Isonno Harris: "Let's get things straight. I'm the boss and you're nothing." Terry Harris: "I'm nothing and you're the boss?" Ivanna: "Yes." Terry: "Then that makes you the boss of nothing."

FRIDAY

GOIDEN ARCHES CLUB 5
Archie (GA No. 110): "How
did you get that bump on
Bill (GA No. 111): "Well,
there was this sign over the
entrance of a building I was
about to enter and since
I'm nearsighted, I stepped
closer to read it. It said,
"Caution—Door Swings
Out."

Ludge Whiter Moore 12

Out."

Judge Whitey Moore 12
insisted when making his
will, he be buried on the
9th green at Oak Meadow
C. C.
Lawyer Dan Birdsong: "Why
there?"
Whitey: "When the old
gang play the 9th, someone
will say here's Whitey and
he's six under on the turn."

One marning Henry Franz went to open the freezer door and asked his wife. Betty: "What should I take out for dinner?" Without a moment's hesitation, Betty replied: "Me!"

NAMED ALL-DISTRICT 3A Jennifer Jim Crafton Eshenroder

ARON
Newburg's Pierce
selected to Class
1A All-State Team.

Willie & Mel.
Happy Eleventh, You're
special, you're swell.

Juan ACTIVITIES: April 9, Petorming Arts Series. Arka
sos Repertory Theater 'Sing For Your Supper', 8.00 p.m.
April 11, UMR Film Series: 'And The Ship Sails On', '7.30
p.m. April 18, UMR Film Series: 'And The Ship Sails On', '7.30
p.m. April 12, Jazz Concert, 7:30 p.m. 'April 25, Petorming Art
Series: Lieurence Woodwind Quintet, 8.00 p.m. 'April 25,
UMR Concert Bond, 7:30 p.m.
AMINER SWIMMERS FINISH 10TH IN NATIONAL MEET; John
MINER SWIMMERS FINISH 10TH IN NATIONAL MEET; John
Staley. '3rd 1 meter Diving, 6th 3 meter Diving: Derek
Coon. -5th 400 yd. Hotolying, 6th 3 meter Diving: Derek
Coon. -5th 400 yd. Hotolying, 6th 3 meter Diving: Derek
Coon. -5th 400 yd. Hotolying, 6th 3 meter Diving: Derek
Coon. -5th 400 yd. Hotolying, 6th 3 meter Diving: Derek
Coon. -5th 400 yd. Breastroke. March
Alloled Relay Team, Pericht, Coon. Carney, and
Rodseth, 3th. 400 yd. Freestyle Relay Team. Danny MatIle, Carney, Coon, and Rodseth, 12th.
UMR INTRAMURALS:
WOMEN'S
Athlete of the Week
Chris Carpenter, TKE
Mark Mitchell, BSU
Team of the Week
Chris Carpenter, TKE
Mark Mitchell, BSU
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Mark Mitchell, BSU
Team of the Week
Chris Carpenter, TKE
Mark Mitch DAVE'S BARBER SHOP (Rolla's Clip Joint)
Dave: "Neil Smith, great baseball fan, went to his 1st horse race last night."
Lloyd: "How'd he make out?"
Dave: "He bet on a long shot, At the stretch his horse and the favorite were neck to neck. Neil yelled "Slide, you dummy, slide!"

University, 1:00 p.m., Tennis, April 12, South Missouri Stote, 3:00 p.m., Golff: April 26 & 27, UMR Best Boll, 9:00 o.m.

UMR WOMEN'S VARSITY HOME GAMES: Tennis, April 9, Triangular w/Drury and NWMSU, 11:00 o.m., April 12, Triangular w/Drury and NWMSU, 11:00 o.m., April 12, Southeast Missouri State, 3:00 p.m., April 18, Incompared to the market of the state of the st you the boss of nothing."

Margaret (Ook Meadow's Famous Chef) going the wrong way down a one-way street. Chief Spadoni stopped her and asked.
"Do you know where you're going?" Margaret: "No, but I surely must be late. Everybody else is coming back."

Judy Allen: "I'd like to 27 have next Wednesday off. sir."

Duncan Edmiston: "Why?"

Judy: "I's our silver anniversary and Don and I want to go out and celebrate."

SECRETARIES

Right answer wins a breekfast,

SPECIAL OLYMPICS: Area 7 April 12 at 9:00 a.m. at UMR Track & Field SCHOOL: April 27, Spring Carnival. SECRETARY OF THE MONTH SANDRA SHERRELL, Secretary to Bob Whites, Sudeent Financial Aid Office at FOR GRADE AND JUNIOR CO. Somenific Asberry Soussition What do John the Baptist and Winnie the Poch have in Common? Michalle Williams' Answer.

Name: Fill out and give to granager win a bag of Tree.

SUNDAY APRIL, 1985 McDonald's of Rolla Calendar of Events

UMR MEAL PLAN
Brian Ruhmann: "Do you
have a faculty for making
love?"
Lynn Waggoner: "No, we
have a student body."

EASTER SUNDAY

UMR MEAL PLAN 14
Kevin Renfro at lunch: "My
Philosophy class awakened
me to reality. I think about
things around me, how to
cope with the real world."
As lunch was over Scott
Lucas asked: "Now what
can we do?"
Kevin: "Let's go play Space
Invaders."

UMR MEAL PLAN
Karen Young: "Why does
cream cost more than
milk?"
Steven Phillips: "Because
it's harder for the cow to
sit on small containers."

SLOGAN NIGHT
"I believe that McDonald's better Buttermilk Biscuit Breakfast is the best by far."
Say it in 2 seconds - win a bag of fries.

SLOGAN NIGHT
"There's more in the
middle of an Egg
McMuffin than an egg in
the middle of a muffin."
Say it in 2 seconds - win a
bag of fries.
6 p.m. to 9 p.m.

SLOGAN NIGHT
"Two all beef patties, special sauce, lettuce, cheese, pickles, onions on a sesame seed bun."
Say it in 2 seconds-win a bag of fries.
6 p.m. to 9 p.m.

15

LAUGH NIGHT
Laugh for 30 seconds-win a
bag of fries. Laugh for a
minute-win a burger.
6 p.m. to 9 p.m.
"We alm to please—
We give our best.
Our product winners—
Passed every test."

LIARS NIGHT
So-So Fib-win a burger.
Classic Fib-win a
breakfast.
6 p.m. to 9 p.m.
"Lettuce, Tomato and
Special Sauce—
Add a Quarter Pounder—
Treat your boss."

BUBBLEGUM NIGHT
1" bubble-win a bag of fries, 3" bubble-win a burger, 5" bubble-win a breakfast, 6 p.m. to 9 p.m.
"Those who are healthy, Wealthy and wise, Dine at McDonald's—That's no surprise."

WEDNESDAY

BUBBLEGUM NIGHT 10
1" bubble-win a bag of fries. 3" bubble-win a burger. 5" bubble-win a burger. 5" bubble-win a burger

McDonald's the best."

8UBBLEGUM NIGHT 17

1" bubble-win a bag of fries. 3" bubble-win a burger. 5" bubble-win a breakfast.

6 p.m. to 9 p.m.

"Some people get the After lunch blahs.

McDonald's diners known for happy ha ha's."

RIBBLEGUM NIGHT 24.

You'll both be glad."

HULA HOOP NIGHT 1]

HOUSE HOOP NIGHT 13

Senior Citizen, I hoop win a breakfast.

6 pm. 10 9 pm.

"Wake up in the morning—
Get ready for a treat.

McDonald's for breakfast.

Newspaper and a seat.

HULA HOOP NIGHT 18

I hoop-win a bag of fries.

3 hoops-win a burger.

Senior Citizen, I hoop-win a breakfast.

6 pm. 10 9 p.m.

"So many choices—
Only one is sure.

McDonald's for families—
Pleasures secure."

Pleasures secure.

HULA HOOP NIGHT 25
hoop-win a bag of fries.
3 hoops-win a burger.
Senior Citizen, 1 hoop-win
a breakfast.
6 p.m. to 9 p.m.
"Miracle of Miracles
McNuggets of chicken—
So easy to eat
They're finger licken." After a big fight with 26
Jack, Carolyn Fore went
to the Key home and said,
'Mama, I'm teaching Jack
a lesson. I'm coming to
live with you."
Naomi Key: "If you really
want to teach Jack a
lesson, go home and I'll
live with you."

UMR MEAL PLAN 28
Joe Marchello: "Mr. Chairman. Distinguished Guests, Members of the Executive Club. My wife, Louise, ask, and the control of the County of t

SLOGAN NIGHT 22
"Choosey cheese choosers always say cheese please when they choose the cheese in the cheeseburgers at McDonald's."
Say it in 2 seconds-win a bag of fries.
6 p.m. to 9 p.m. SLOGAN NIGHT
believe that McDonald's
better Buttermilk Biscuit
Breakfast is the best
Buttermilk Biscuit
Breakfast by far."

by it in 2 seconds - win a
bag of fries. 29

LAUGH NIGHT
Laugh for 30 seconds-win a bag of fries. Laugh for a minute-win a burger.
6 p.m. to 9 p.m.
"Food is pleasure—
Food is health.
McDonald's for pleasure, health and wealth." 30
TONGUE TWISTER NICHT
1 of 3-win a bag of fries.
Right 1st time-win a
breakfast.
6 p.m. to 9 p.m.
"I dream of Jeanle
With the light brown hair.
She devours Big Macs
With an elegant flair."

WHISTLER'S NIGHT 16
Wolf whistle-win a bag of fries. Whistle Dixle-win a burger.
6 p.m. to 9 p.m.
'Chicken McNuggets,
Tasty and light—
Ald to Dieters
In their calories' flight."

BUBBLEGUM NIGHT 24
1" bubble-win a bag of fries. 3" bubble-win a burger. 5" bubble-win a breakfast.
6 p.m. to 9 p.m.
"I like coffee
1 like tea.
1 like Big Macs—
For you and me." CREW BIRTHDAYS
Birthstone: Diamond
1-Patricla Larson Aries
3-Aaron Weinboum Aries
3-Aaron Weinboum Aries
8-Nancy Gerstner Aries
9-D.W. Derryberry Aries
17-Karon Christensen Aries
CREWPERSON OF THE MONTH
LINDA PROFFITT

Congratulations to Faye
DeSpain. Winner of a JVC
Video Cossette Records.
Donated by Forum Video &
Al-Donald's, Rolla.

Answer Name Fill out and give to

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NATIONAL SECURITY AGENCY, Ft. Yeade, MD
Interviewing GULY, DECEMBER 1985 grads with
SSMS/PhD in EF for Electrical Engineer
(2.5 GPA REQUIRED); 88/MS/PhD in Computer
Science for Assoc. Computer Scientist
(3.0 GPA REQUIRED); 88/MS/PhD in Math,
Statistics or Operations Research for
cryptography or mathematician. (3.0 GPA
REQUIRED); US, CITIZENSHIP REQUIRED.
Job location: Ft. Weade, MD
Interviewer: Diane Doherty
Interview date: April 15, 1985
Number of sciedules: 1
SIGNUP DATES: beginning March 29 -

Thursday, April 18, 1985

Interviewing: C.Sc., Cer.E.

If you are interested in interviewing with Sunnen, please check with the Co-op Office immediately.

ATTENTION CO-OP STUDENTS

Sunnen Products St. Louis, Missouri

Interviewing WF, ULT, December 1909 & was with RS/NS/PDD in EE:

Design & develop guidance systems hardware a software; perform analog simulations of system performance, studies of radar & antenna systems; design of or integration of receiver of logic processing circuits. Microprocessor development & design for fuze applications. Develop inertial systems & sembors. Microware, signal processing & electronic component design. U.S. CITIZENSHIP REQUIRED. Job location: China Lake, CA Interviewer: Minifred Jonnson Interview date: April 23, 1985
Number of schedules: 1
SIGNUP DATES: April 8-9, 1985

ATTENTION CO-OP STUDENTS

The co-op fee for students that are going to work this summer, 1985 semester or fall, 1985 has increased.

The new co-op fee is \$49.25

our Co-op Work Registration. .ne Co-op fee for the Summer and the Fall is \$46.00.

Thank you. UMR Co-op Office

FORD MOTER COMPANY, Dearborn, VI Interviewing JULY or DECEMBER 1995 grads with 85/MS in E. Degineering Mechanics, BS/MS in %2 or BS in Metallurgical Engineering for Product Design or Product Development, John Contactoring Recurren, John Contactoring Recurren, John Contactoring Recurren, John Contactoring Recurren, John Contactoring Company, Mi Literview date: April 30, 1985 Number of Schedules: 2 SIGMUP DATES: April 15-16, 1985

LEVER BROTHERS. St. Louis. MC
Interviewing MAY, JULY, DECEMBER 1965
grass with 85/Chemical (preference) or
85/Mechanical Ingineering for Prod.
Supervisor. U.S. CITIZENSHIP OR PERMANENT VISA REQUIRED.
Job location: St. Louis
Interviewer: Mr. Slupe
Interview dates: April 23-24, 1985
Mumber of Sonedules: 1 ea day
SIGNUP DATES: April 15-16, 1985

LIBERTY MUTUAL INSURANCE, St. Louis, MC Interviewing DECEMBER 1984, MAY, JULY 1985 grads with 35 in Engineering Management for Loss Prevention Representative. U.S. CITIZENSHIP REQUIRED. Job location: Middle West Interviewer: Richard Heavrin Interview dates: April 25-26, 1985 Number of Schedules: 1 ea day SIGNUF DATES: April 15-16, 1985

THE COMPANIES LISTED BELOW WILL ACCEPT RESUMES:

ATAT BELL LABS, Naperville, IL Degree requirements: MAY, ULLY 1985 grads with MS in Computer Science or EE for member of technical staff at Bell Labs (software & hardware design) for telecommunications, products, \$\frac{1}{2}\$ services, U.S. CITIZONSHIP OR PERWARNIT VISA

REQUIRED. GPA REQUIREMENT: 3.3 AND ABOVE.
RESIME MIST BE INDRED IN NO LATER THAN APRIL 30
to Jane, signup office, Career Development.

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TO LATER THAN A SECCIATE SERVICE FROM THE STATE.

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ALVEY, INC., St. Louis, MO
Interviewing MAY, JULY 1985 GRADS,
DECZYBER 1985 grads with BS/ME for
design engineers (conveyors).
Job location: St. Louis
Lnterview date: April 30, 1985
Number of schedules: 1
SIGNUP DAIES: April 15-16, 1985

summer

U.S. GYPSUM. N. Kansas City, MC
SUMMER JBS FOR ENGINEERS: any level;
vacation relief jobs for prod. workers
in paper mill. Good industrial exposure.
Potential for permanent employment after
graduation. MIST BE FROM K.C. AREA.
(Involves smift work).
PIEASE SEND U.S. GYPSUM APPLICATION
(obtain from Career Development, 2nd floor)
AND RESIME TO: Mr. Gene R. Lampe.
Personnel Superintendent, United States
Gypsum Company, 111 Armour Rd. Worth
Kansas City, MD 64116-3783. DEADLINE:
My 1, 1905.

N.W. CENTRAL PIPELINE, Tulsa, DK FOR RESEARCH on pipeline records for operating pressures. Degree requirements: BS/ME, EE, CE or Met. Dagr. - completed junior year. SEND RESUME TO: Ms. Karen Dean N.W. Central Pipeline

AMERICAN PRESTICE, St. Louis, MO Interviewing all levels, all majors is summer employment in St. Louis (advert: SIGNUP DATE: April 25-26, 1985 INTERVIEW DATES: April 25-26, 1985 Number of schedules: 1 ea day Note: Interviews will be 10 min. in length.

U.S. CITIZENSHIP ON PERCAMENT QUIRED.
Job location: North KC, MO
Interviewer: Michael Yesoawage
Interview date: April 22, 1965
Number of schedules: 1
SIGNUP DATE: April 15, 1985

Note: Company does factory automation for large corporations (robotics, etc.)

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m features

Wednesday, April 10?, 1985 missouri miner Page 7

There's a new queen in town

Missouri's 1985 Cherry Blossom princess, Kelly Stewart, is currently a junior in computer science at UMR. She has been chosen by the Missouri Society at Washington D.C., to represent Missouri at the Cherry Blossom Festival.
The Cherry Blossom Festival is

a week long festival in Washington D.C. which starts April 7th. There are 55 societies which send a princess. They include one from every state, plus the District of Columbia, Puerto Rico, Guam, Samoa and the Virgin Islands.

The Queen is selected by a spin of the wheel which is the highlight of the week. The Queen will visit Japan on a good will mission. The Japanese government is involved in the festival because they have the original cherry trees to the United States. Saturday, April 13th,

the National Cherry Blossom Festival Parade will be televised by Metro Media, covering 35% of the

On April 6th, Kelly was crowned at a banquet in her honor at Bolling Air Force Base by the Ambassador from Venezela to the United

Kelly will take gifts representative of Missouri to present to the other princesses in the festival. Kelly remarked, "I am excited about the Cherry Blossom Festival and also meeting all the other princesses.

She is active in many UMR organizations including the varsity girls' basketball team, M-Club Chi Omega sorority, and a Little Sister of the Phi Kappa Theta Fraternity. She is the daughter of Gary and Sally Stewart of Bolivar.



Meet Kelly Stewart, Missouri's 1985 Cherry Blossom Queen. (Picture by Kevin McLaughlin.)

Education—the price we pay

by Sally Love

Sineering

ST

Now that we have all been students for a time, there are certain irrational experiences that we have enocuntered, sometimes with chagrin, other times with pain and at other times with disgust, but all a part of our "education."

The admission procedure for example. It is necessary to pay to ask permission to come and pay to take courses. And we must take a physical exam and produce all types of papers and forms to prove our ability to attend classes (to drop, there are no requirements but to carry around a piece of paper and get people's names on

Once admitted we are assigned (given to) a faculty member (person of little interest) who must direct our selection (we have a choice?) of courses and our term of attendance (pay).

When we finally make it to a class or two we find we must (by fear of who knows what) endure a regimen of little sleep, little freedom and little joy. All this to produce non-interesting projects or papers (all totally unrelated to our career) to finally prove ourself on a test (a device used to weed out the confuse the knowledgeable).

Many of us have met with the fraternity or sorority crowd (none of which have proper names) and attempted membership (for which it is necessary to be made a fool of and to prove ourself by the accomplishment of acts wouldn't be caught dead doing otherwise). And again we must pay

For others there is the opportunity to join service organizations (which groups meet every month to plan for a once a year one day outing as good deed doers).

Then there are the professional clubs, supposedly made up of one's peers (which clubs meet frequently to discuss what will be done next time and plan the next social event), for the purpose of enriching our transcript in hopes an employer will read that far.

Having learned this, we begin to comprehend why professors have grey hair, haggard looks and weird ways. Just the fact that they have survived (can still walk and talk) the system (a method of replacing common sense and rationality with a delivery system of mathematically correct, repetitive educa-tional drivel), imposes on us an

awe of their powers.

We have now encountered the party weekend (a spree of irradical gatherings for the prupose fo making oneself sick and losing memory in the name of a good time).

The day by day necessities are also different at college as we discover we have been sold a parking sticker to a lot that has become a quarry. Or we attempt to walk through three inches of mud on a public highway just to make it to

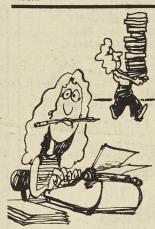
We have found that the library is a unique place, with a computer that lies about books that can't be found (and beeps at you for pushing its butotns) and current material that dates back to 1910 (and your professors want references from 1986).

We have the encountered the business end of college (the Student Union where most serious conversations take place), the resource center (the TV room), and the rip-off place (the bookstore that carries the only item you need at twice the price of it else-where when you don't have time to shop)

Many have encountered the

cashier's office that eats (an endless collection of your fees) and retains money (your scholarhips and grants) and is never open to serve students hours. We have met with the U-wide computer system that doesn't transmit in English (or any other language, it only speaks

And when we find we have endured to the end, and are actually going to graduate, we find we must once more pay again to get permission to leave (the diploma). If you ask me, that's the final



A benefit to go!

submitted by Lambda Chi Alpha On Sunday, April 14, the Brothers of Lambda Chi Alpha will hold their 23rd annual Benefit Chicken

The proceeds from the dinner are donated to the Cerebral Palsy Center and the Rolla State School for the Mentally Retarded. Since the start of this fund raiser back in 1962, Lambda Chi Alpha has donated over \$20,000 to these very deserving charities.

The menu will include: 1/4 fried chicken, potato salad, green beans, roll, ice cream and choice of drink.

Tickets are \$3.00 for adults and \$2.50 for children in advance and are \$3.50 at the door. They are available from any member of Lambda Chi and at the Key Sport Shop. Carry-out service is available as well as free delivery in the Rolla area, just call 364-9901.

So, come on out Sunday April 14 from 11:00 a.m. to 7:00 p.m. at Lambda Chi Alpha for some great fried chicken and help out both of these worthy charities

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=1		=4		=2	

This Week's Challenge

Find a product of three consecutive integers which has the form abcabc such that all three numbers (a, b and c) are unique. (a is not equal to b or c). Please turn in solutions to the math office (not the Miner) by Thursday,

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Baseball team loses two in slugfest

by Mark Buckner

Over spring break, the Miner baseball team had a doubleheader in St. Louis against the UMSL Rivermen. The Miners, unfortunately, lost both games, 5-4 and 19-11.

The Rivermen had a four-run lead entering the final inning in game one when the Miners put on a late rally, only to fall a run short. Mike O'Dell drove in two runs while Mike Steagall and John Viehmann had the other RBI's. O'Dell collected three hits in the first game.

The Miners had nine hits UMSL had eight. Both teams committed three errors. The three errors the Miners committed came in the fourth and fifth innings, the two innings the Rivermen scored their five runs.

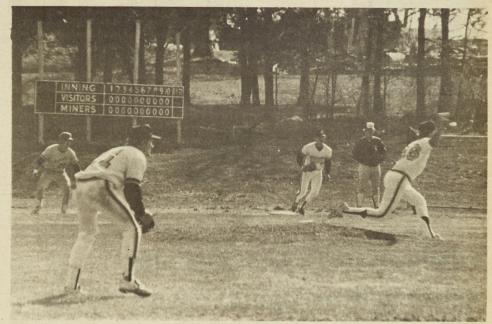
Game two, as you can probably tell by the score, turned out to be a hitters' contest. Neither starting pitcher could last past the third inning. The score after the first inning was 4-3, in favor of UMR. The Rivermen scored two additional runs in the second then the Miners scored four runs of their own in the third.

Greg Nelson drove in the first of the four runs with a RBI double. Then with two men on base. O'Dell continued his hot hitting with a two-run triple. The Miners fourth run came on one of the most exciting plays in baseball, the squeeze play. O'Dell scored on the successfuly play by Brent Callihan.

Going into the bottom of the third, the Miners had an 8-5 lead, but UMSL just wouldn't quit scoring runs. With three in the first and two in the second, the Rivermen scored an unbelievable eight runs in the third. So going into the Miner half of the fourth inning, the score was 13-8, UMSL.



Neither team could score for the next two innings. The Miners got a run in the sixth frame on an RBI hit by John Schumacher. UMSL scored six more times in their half of the sixth. The final two runs the Miners got came on a homerun by Callihan. Schumacher had three of the thirteen hits the Miners got—UMSL had 23.



In a recent game against School of the Ozarks Butch Parmeley hurls a pitch in an 8-5 loss. Miners are currently 3-9 overall. (Photo by Brian Jones.)

The Miners now have a record of 3-9 overall and 1-3 in the conference. The Miners are at home today going against Lincoln. The Miners also play here Friday and

Sunday against Harris-Stowe and Washington University, respectively. The Miners got some bad news when their star outfielder Vernon Huggans tore the hamst-

ring muscle in his right leg during a team workout. Huggans will miss the rest of the season and there is a possibility he may not be able to continue his athletic career.

Miners face tough competition at SEMO

by Dan Lichtenwalner

The Miner track team cut its Spring Break short, travelling to SEMO to compete in the Semotion relays. Competition was fierce, with teams such as Ala-

bama, Mizzou, Purdue, Marquette, Wayland Baptist, Middle Tennessee, and others competing.

The Miners' highest finish was in the four mile relay, in which they placed fifth. John Borthwick, in his first race of the outdoor season, led off with a 4:19. This put the Miners in contention for the lead. The next three runners held the race close, with Mike Deamer

(4:27), Jeff Balmer (4:26) and Dan Lichtenwalner (4:27).

The 400m relay team ran their

see Track page 10

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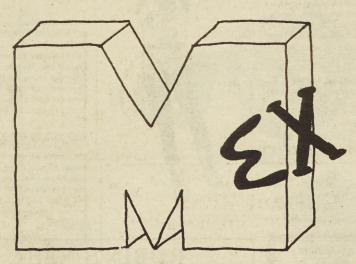
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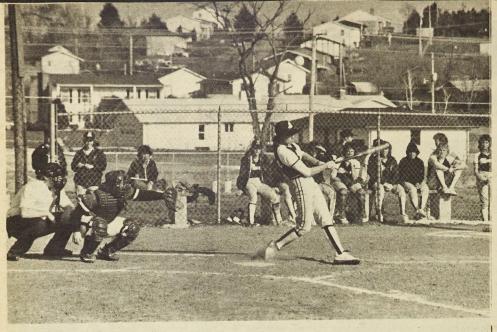
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UMR's Lady Miner Amy Volmert gallantly tries to belt one out of the park. The Miners lost however to William Woods 3-0. (Photo by Brian Jones.)

Vilanova's 78% shooting play **April Fools on Georgetown's Hoyas**

by Jeremiah Golston

"The Georgetown Hoyas cannot fail to repeat as champions of the NCAA Division I basketball tour-nament!" This was the talk that filled the air before the game for the national championship. How-ever, a homogeneous Vilanova squad with unfailing discipline. stunning shooting and an indis-pensable supply of guts and determination has turned the pre-game talk into another edition of April

Yes, Georgetown is an awesome team with perhaps more depth, power, and ability than any pre-vious team in college basketball. Nevertheless, the impressive vic-tory of the Vilanova Wildeats cannot be pushed aside as a fluke, an accident of nature. Unlike N.C. State's Victory over Houston in the final two years ago where Houston played a sloppy game underestimating their rivals, Georgetown played a solid game on both offense and defense.

From the beginning of the game it was apparent that Vilanova was prepared to match Georgetown's strength with an incredible display

Christopher **Jewelers**

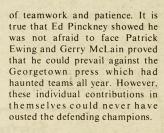
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It was Vilanova's unity, their cohesiveness on the floor, and their lack of greed for individual star-dom that led them to victory.

One need look no further than the Wildcats stunning 78% shooting from the field to see their unselfishness. Remember, this was against the Hoyas, a spectacular defensive team which had held its opponents to under 40% shooting from the field all year long. Only a

team with the flawless shot selection and execution on offense that Vilanova showed could even dream of such a feat. Once again it is proven that teamwork wins championships and that more than just talent and luck are needed to become kings of collegiate basketball.

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Cardinals promote **College Night**

been announced by the St. Louis Baseball Cardinals for 1985.

The event, College Night, will be held Friday, April 19, when the Cardinals play the Pittsburgh Pirates at 7:35 p.m.

department at the discounted price of \$3.50 each. However, any student with a discounted ticket must show their valid I.D. at the gate, or they will have to pay the extra

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Any student with a valid college or junior college I.D. can purchase a regular \$6.50 reserved seat for just \$3.50.

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attend this night where they can enjoy a baseball game, the latest in music, meet new friends, and create memories with old ones.

Further information about College Night can be obtained through Cardinal office by phoning 314-421-3060 or writing the St. Louis Baseball Cardinals Marketing Department, 250 Stadium Plaza, St. Louis Mo. 63102.

Track

from page 9

fastest race of the year, combining for a 400 meters in 42.9 seconds. George Louis-Ferdinand got them off to a good start, and Brian McElroy got the team a definite lead. Lloyd Flowers and Ike lloputaife held the lead, as the Miners easily won their heat. Some other heats had faster times, and UMR ended up 10th overall.

The sprint medley relay team also ran well, placing tenth overall. This relay consists of two 200 meter legs, a 400m, and an 800 anchor leg. The 200 meter legs were run by George Ferdinand and Ike Iloputaife, who each ran strong. Brian McElroy ran a 49.9 second 400 leg, and John Borthwick anchored with a 1:56 800, his fastest of the year.

In some other events, UMR ath-letes put in their best performance

this year. In the 10K, Curt Elmore ran a 33:20, 40 seconds faster than earlier this year. Eric Schuenemeier continues to improve in the pole vault, claring 13'-6" this week. Bob Gorham threw the shot 47'-9", and threw the javelin 180'-0"

A meet of this caliber allows the athletes to open up and give their all because of the excitement in the air that is felt at a large meet. For example, the 400 meter run was won by 1984 Olympic gold medalist Ray Armstead. Running against competitors such as Ray has got to get you going; otherwise vou end up alone

The Miners will face more tough competitors this weekend as they compete in the Western Illinois relays. The team is looking forward to more good performances

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University. Any decision regarding the station would have to be approved by the Board.
Stoll states that the station was

hurt a few years back by the near collapse of National Public Radio, which is a membership organization for the public radio community. The organization produces and distributes national programming. A few years ago, NPR bailed out on the brink of bankruptcy by he Corporation for Public Broadcasting. To pay back the CPB, the member stations of the NPR were required to make payments and these took a substantial part of KUMR's operating budget. KUMR serves the public, but

does it serve the University? Stoll says he believes it does. "Students listen to the station when they want something different to study to.' He says that the students turn to

KUMR when they want a change from the rock oriented program-ming of KMNR.

Stoll adds that KUMR's federal funding is directly dependent on the amount of local support it receives. In other words, the more funding received from local sources, the more that will be allocated from federal sources. So the station cannot exist without local support.

April 20th through 28th will be "KUMR Public Radio Campaign '85" This is an annual membership and fundraising campaign. Stoll financial support. This will make it possible to continue KUMR's service to the area.

from page 1

According to Stoll, the staff at KUMR is going to continue performing it's tasks despite the somewhat ominous recommendations by the administration. "We will continue to do our job with whatever is made available until such time as administrative decisions dictate otherwise."



During a lifetime, the aver



The Indians of the Caribbean would not eat turtles for fear such a diet would make them stupid.

Run

from page 1

thing positive about the funding situation in Missouri should con-sider participating in the run to Jefferson City. Each runner will. pay \$2 for his T-shirt.

Refreshments for the runners are being provided by private,

local donations. Student Council and the Inter-Residence Council are in charge of the project. If interest in this "Run for Better Education", please contact the Student Council office in the University Center West.

First lady

her career, Mrs. Magrath has come

- up with a motto for herself:
 1. Do not be sick: it doesn't pay.
- Do not be tired. 3. Do not be afraid: it does not
- help.
 4. Do not ask each other 'Do you think they know who we are?' when we encounter new people.

She concluded her speech with her own conclusions on 'public partnership'. First, she says. "Spouses should have the choice of whether to be public partners or not." Second, "There ought to be more recognition for spouses. Third, "Pay might accompany the job if it fits both parties." And last, "When the president is a female,

from page 1

the male spouses should be treated

the same way. Mrs. Magrath has met with opposition to her career. She cited a letter in response to an article on the unique relationship she and the president share. The letter acused of 'selling out' because 'social functions are not significant contributions. In response to the letter, she poses the question, "Why does judgement have to be so harsh between sisters? When are we going to appreciate and recognize

and value all contributions?"

Mrs. Magrath then closed her speech with a quote from Emily Dickens. She recieved much applause from the audience

Verification

States back, and would be less likely to cheat since they would view the United States cutbacks as beneficial. They feel that there has not been any solid evidence of any Soviet cheating and that such claims are made by those who would arm the United States as strong as possible and for-

Supporters of the freeze feel that since major parts of the freeze are verifiable, that the uncertainty remaining in exactly what our capabilites are, coupled with partial verification of the factors, would deter the Soviets. Opponents feel that this is naive, and that with the closed society, the Soviets could cheat in all sorts of little ways which would add up to be significant, raising the possibility of a confrontation with the Soviets in the

A MORE OFFBEAT approach comes from Graham Allison, who feels the Soviets should open up to the United States about its military affairs more. Allison explains Soviet secrecy as a reaction which hid inferiority from their enemies in times of weakness, but which he feels recent history has shown to the Soviets to be counterproductive when dealing with the United States (i.e., the 1960s missile gap). If the Soviets would make more information available to us, we could determine whether or not the Soviets were being truthful about weapons and perhaps even intentions.²⁵

Evanluation
HERE ARE MANY
difficulties in achieving a meaningful arms control agreement, and some

people feel that the obstacles are insurmountable. The price is too high for failure, so we must continue to try. Allison's work is nice in theory, but the idea that we could change the Soviet perspective that much in any reasonable amount of time is nearly hopeless. It is not clear to me that the United States would accept physical inspection of its weapons systems.

The administration critic-

ized the Soviet START proposal because it did not offer deep enough cuts, and was very favorable to the Soviets. For the first point, to me, a onefourth reduction is a signifi-cant starting point, even if it is not an overwhelming break-through (but is our one-third cut either?). As for their proposal favoring their side, our

see Evaluation page 12



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Missouri Bills

Other curious bills in Missouri's House and Senate include mandatory discipline codes in the "Excellence in Education Act," a cable TV service theft bill, and a Missouri farm loan

The mandatory discipline bill is, as described by Senatory Emory Melton of Cassville, an establishment of a uniform "criminal code of discipline and punishment" for students. And, per Senator Norman Merrel of Monticello, such "codes could make public schools too restrictive of personal freedoms. Students have rights." This, however, has remained in the "Excellence in Education Act" and, indeed, only one item has been deleted. Missing is a provision which establishes a committee to monitor the proposals of the act and a committee to ensure the

monies are distributed as intended.

The cable TV service theft bill is another issue of superficial plausibility. The bill, as stands, has two sets of penalties depending upon the determined amount of theft. A differentiation of penalties is plausible, but the extent of these penalties is not. Theft of a determined value less than \$150 in cable TV service is to be a misdemeanor punishable by one year in jail and a \$1000 fine. A greater determined amount is to be a felony punishable by up to seven years in jail and at \$5000 fine. Both sets of penalties are excessive given other crimes which must be committed to receive similar punishment

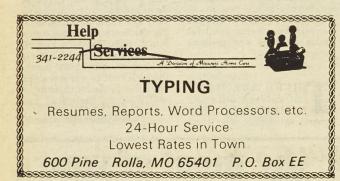
And, yes, now for the farm loan bill. The curiousness attributed to this item stems

from the actions of our legislators, rather from the bill itself. While our elected officials have been establishing procedures to benefit insurance and auto companies, outline the spanking of students, and protect the cable TV companies, the farm loan bill to help Missouri farmers died without action in the Senate Miscellaneous Bills Committee

Of the five bills covered, four dictate behavoral policy by which the public must abide for industry and company profit. The remaining bill would have genuinely helped a significant portion of the state and its citizens. One of the five died and, of course, it was the one which was people and society oriented. Again, "This is not liberal vs. conservative, but smart vs. dumb.



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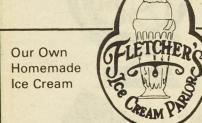


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Renting right

clause saying the owner does osit until 30 to 60 days after you leave. He is just going to earn more money on y deposit and might also hold you responsible for something that happens after you leave. Have a clause put in that says the deposit will be returned to you the day you

- 6. Make sure that you obtain a copy of the lease and keep it in a safe place. Every tenant of the apartment should have a copy in case trouble comes up later and the only person with a copy has left town. Also, obtain a written document of every agreement between you and the landlord. This is in case you have to take him to court if he doesn't give you your deposit back.
- 7. If you decide to rent the same

apartment but your roomowner returns the deposit to the tenants that are leaving. Don't return the deposit from your own pocket hoping the landlord will return it to you later.

8. If you have any doubts about a lease you are signing, take it to a lawyer. The County Courthouse can help you find one

When you're looking for an apartment, probably the two most important things that are on your mind are the price and the

A lot of places in Rolla require that you pay for the utility costs. This gives the owners no incentive to make their apartments energy efficient. Check things like insulation thickness in the attic, types of windows (are there storm windows?), previous average utility bills, etc. Checking things like this

from page 3 before you sign a lease might save

Also look at the condition of the apartment. When was the last time the walls were painted? If the landlord is reluctant to make small improvements like this, then he might be slower to respond to a more serious problem. Check with people who know the landlord and something of his previous actions.

Remember, most landlords have been in Rolla for a long time and know all the tricks of the trade. They realize that students here at Rolla are very busy and usually don't have the time to pursue a dishonest landlord that has ripped them off.

One last warning If you run into a landlord that sells life insurance, beware. If you are not carefuly, you will pay for it in the long run either in time or money, both of which are very valuable to college students.

A Concerned Student

from page 11

Evaluation

proposals favor our views and goals. Neither side will accept a proposal which does not protect their interest.

A comprehensive test ban treaty would be of major sig nificance, and to tie it to conditions which are unlikely to occur for quite a long time seems to deny its significance and usefulness. The adminis tration also feels it is unverifiable. To initiate this treaty would at least put a stop to the continuous development of

ever increasing numbers of "better" warheads. Perhaps it might even forestall a future problem, such as we could have avoided had we banned testing of MIRVs. The verification problem stems from a lack of data, inconclusive data, and sometimes from an over-extreme quest for secr in the name of security. With an international monitoring agency, and with sharing of data which is often highly classified, and with tamper

proofseismicinstruments located around the world, the chance of successful cheating would probably be very low.

Build down has many good parts incorporated within it, but it also has bad points. First of all, there is no limit on modernization. Modernization is not all bad, as there is a need to replace aging systems, because of reliability problems, but increasing capabili-

see More Evaluation page 13

Student Rooms for Rent Available YEAR ROUND

Doubles, Singles, Kitchenettes, Community Kitchens, Private Baths, and Community Baths, Supervised Housing.

> QUIET HOURS 24 Hours a Day Seven Days a Week RollaMo Office: 1204 Pine

also available Contact: John Keller

Several large houses close to campus for 5 to 7 men, several efficiency apartments

at 364-6886

Fear Hang Jack

from page 12

More Evaluation

ties are destabilizing. As for the insignificance of stored warheads, they are insignifi-cant as counterforce weapons (targeted at weapons systems), but they are a very credible countervalue weapon

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(targeted at cities and industry).
I feel an international agency which would be responsible for verification and dealing with questions of contested systems would be very useful. As it stands now, it is our work against the Soviets', and with the reluctance of the United States to share the pertinent information, it may

seem as if the United States is crying wolf. An international agency, or group of nations with access to the kind of information which would be made available could then provide a disinterested view-point. The nuclear dilemma we are in transcends national boundaries, and the rest of the world has an undeniable interest in the promotion of stability. I do not think that such an agency should be the initiator of dialogues, unless it is as the unified voice of world pressure against nuclear

As for the freeze, it points out that the quest for verification does not have to be an end in itself, but that it must only be a reasonable factor. Yet, in a statement in April 1982, the State Department said, "A freeze on all testing, production, and deployment of nuclear weapons would include important elements which could not be verified,"26 and implied that the Soviets could not be trusted. While it is true that the United States relies more on national technical means than the Soviets, this is a problem which can be over-

To the Billionaire,
Please don't become a mis-sino-thrope.
Lynn

Our eyes met, locked, and in the moment of our mutual smile, I knew I had to know you better. If you're interested, call Jim at 364-3576.

For Sale: 1981 Kawasaki 440 LTD Belt Drive Motorcycle, Quicksilver Fairing, Luggage Rack, King-Queen Seat, 11,000 miles, \$900 364-8495.

For Rent:
| bedroom units furnished and unfurnished. Reasonable, 364-4165.

Found: outside the EF building before St. Pat's a cross pen (black ink) with the inscription SLS 5-15-84, wish to return to owner. Call 364-1527.

come if we choose to try hard

Actually, it seems that the United States often inserts unacceptable conditions into proposals either to invite rejection or because of ignorance. President Nixon's demand for on site verification of the MIRV ban was seen by some as the result of Pentagon opposition to the plan.27 And President Reagan's early proposal to the Soviets was an offer destined to fail because of

Soviet basing modes.
Perhaps the problem is that the United States places too much emphasis on verification, treating it as an end in itself. Certainly verification is not an unbeatable foe, but an obstacle and distraction on the road to lasting peace and

- ENDNOTES

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see Endnotes page 14



the Classifieds

R.C.D., Happy 21st!

Love Always, M.E.M

Cheryl.

I'm glad you could stay with me for a week.

You just have to learn to BEHAVE! I hope
you have a good time here-Rolla is not
exactly the place to be!

Your Pla Sie

Dragonlancer,
Have a FANTASTIC Spring Break and a
WONDERFUL Birthday. Happy 20th!
Goldmoon

Manimal Society Standings

St. Pat's resulted in massive points for all the Manimals, highlighted by a strong finish in the quarter-barrel chug. Highlights for the past week include the White Castle fiasco (the waitresses will never be the same). Cocomo Joe's conversion from No-No-No to Yes-No-Yes (despite a haunting conscience), and the Womanimal's usual skank points (in a bowling alley?). The new totals: Horatio 36

The Doctor 34½

personal Cocomo Joe 26
The Knapper 24
Chowman 17
Spedley 14½
The Womanimal 13½
Honorable mention this week goes to The Schkanker for his quasi-manimal actions on the St. Louis road trip.

The following organizations: If you want your picture in the yearbook, please call 341-4279 and ask for the organization editor.

2) College Young Democrats 3) Economics Club

3) Economics Club 4) Flatball Flyers 5) Forensic Club 6) Gymnastics Club 7) Judo Club 8) Tau Beta Sigma 9) Alpha Phi Omega 10) Intercollegiate Knights 11) American Foundaryman's Society 12) Ameri 13) Ameri 14) Association of Engineering Geolog

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misc. Wanted:
Introduction. If you are the good-looking, tall, slender woman with brown curly hair and white UMR jacket with black letters who was in Long John Silver's at 7:10 on the evening of Sunday. March 10, with your mother, grandmother and sisters, I'd like to meet you. For Sale: One AMF roadmaster woman's speed bicycle, Good condition. Call Annual 364-0763.

For Rent: Student rooms for both summer and fall semesters. Economical and located across the street from campus (207 W. 12th St.). Air conditioning available. For more information, call Pat at 364-5490.

I'm looking for a place to stay in Springfield over summer. If you have any information please call Dave at 364-9980, Rm. 607.

Rooms for Rent 1106 N. Rolla for summer and fall semester. Convietly located across the street from the university center, \$110 month plus utilities Call 364-5490.

Wanted to buy: Old navy blue Statics and Dynamics book. Call 364-0026.

Lost: Orange jacket with zip-on sleeves. Lost on campus just before St. Pats. 364-7984 after 4 p.m.

Must sell: (student moving) Brand new lady's bicycle (Univega guaranteed for 10 years) 10 speed, gray color, with lock. Sale price 150 or the best offer. Please call after 5 p.m. Tel 341-3556.

Wanted: Used IBM; Compac; Colombia; or IBM Comparable computer, dual disc. Monitor painter. Call 364-4978 before 9 a.m. Ask for Royce Bridges or voice pager 341-0746.

For sale: 2-350cc Honda's-Street bike, 1971-\$200 or best offer 1972-\$400 or best offer 364-4978 or voice pager 341-0746. See at 1804 Meadow Ct. Ask for Royce Bridges.

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Verification Endnotes

from page 13

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Near the Forum, super-nice apartments, 970 sq. ft., stove, refrigirator, dishwasher, swimming pool. \$350/month

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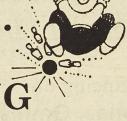
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Salaries are competitive with private industry and start in the mid-20's for qualified candidates. Full federal fringe benefits apply. Entry positions are located in suburban Maryland, midway between Washington, D.C. and Baltimore, MD.

For additional information, contact your Career Development Center, 201 Buehler Building.



National Security Agency

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Wednesday, April 10?, 1985

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University of Missouri-Rolla

Number 73, Volume 27

Twenty Dollars

EE course found to be carcinogenic

by Cordell Smith

Rolla, April 1— A study released here today by the Institute for Cancer Research indicates that EE61 (Circuit Analysis 1) causes cancer in laboratory animals.

cancer in laboratory animals.

A test group of 50 rats placed in cages lined with homework problems showed evidence of paw tumors after only three weeks.

Other rats who were exposed to taped lectures every other day demonstrated high incidence of tumors over all exposed skin.

Preliminary reports of another study by the ICR, this time dealing with cancer incidence among students who had taken the class, warned that "it appears EE61 is highly dangerous to humans" and that an "exponential relationship" was shown when the student's grade for the class was factored into the statistics. (See accompanying chart.)

Various governmental agencies

Various governmental agencies expressed alarm.
"We are, of course, concerned,"

"We are, of course, concerned," said a spokesman for the Envir-

onmental Protection Agency. "One by-product of the class is an inordinate amount of contaminated waste-paper. If additional studies confirm the danger, we will issue strick regulations under the Toxic Substances Control Act. Should conditions warrant, we might ban the class entirely."

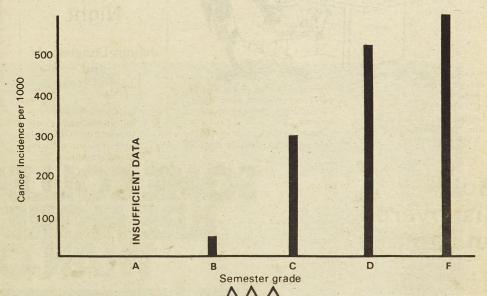
A press release from the Food and Drug Administration warned that, because so many students bring food and drink into class with them, "we will have to monitor the situation closely to determine if the class violates food additive laws, within the meaning of the Delaney Amendment" (which regulates food additives). "We are considering a moratorium on the class until we finish studying the ICR Report which . . . could take up to 2 years . . ."

up to 2 years ..."

FDA suggested that students in the interim be given copies of reference materials "other than the textbook, which we consider hazardous" for students to study on their own, along with full credit

as if they had taken the class.

University officials offered no answers to our questions, primarily because we never asked any. The ICR Report was financed by a grant from the Engineers Enlist progect of Youth Encouraging Curriculum Changes for Health and Happiness (EE-YECCHH, Inc.), a non-profit social welfare organization.



0000000

PFM helps out in Ethiopia

by Mella J. Sage

Rolla, April 1—In February, a request was submitted to PFM, the food service company serving UMR, to help in the fight to end world hunger.

PFM took the matter into con-

remainder of the food was sent back to UMR in the last week of March.

When questioned as to why the food was sent back, a PFM employee said, "I guess they just weren't accustomed to eating fine

UMR to put ancient computer to good use

by Kevin Thornsberry

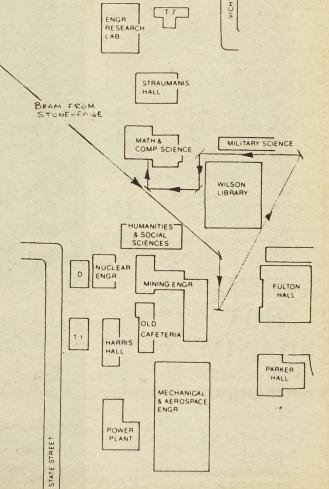
In response to recent cutbacks at the computer center all class D and E jobs will be run on the UMR stonehenge, say computer center officials.

The stonehenge, an ancient computer, is located on the edge of campus just next to business 63. In a press release from the UMR computer center, it was stated that the stonehenge does have the ability to carry some of the load presently carried by the VMB and VMC computers. The stonehenge may be accessed by sending jobs to "VMB.C."

The only difficulty is that all output from stonehenge run jobs must be picked up at noon CST (11:00 a.m.CDST). Presently, all output must be picked up at the stonehenge, but a request has been made to purchase several sets of mirrors from the Physics 24 labs to route the output to the window at the computer center.

the computer center.

Mark Bellington, a junior in computer science, disagrees with the change. According to Bellington, he ran a job on the stonehenge while it was on test status. He went to the stonehenge at 11:55 a.m. to pick up his output. At approximately 11:58 a large thundercloud blocked the sun from the stonehenge and he lost a large portion of his output.



Diagramatic representation of proposed mirror arrangement routing output from stonehenge to computer science building.

LET'S EAT!



sideration and after several hours of deliberation, they came to a decision: To ship the equivalent of one day's food served by PFM at UMR. Upon report of how successful the effort was, to discuss the possibility of withdrawing from UMR and serving Ethiopia exclusively.

The food was sent to Ethiopia the first week of March. The food was then distributed in a small village. Sources said that the children soon lost interest in the food and began chasing beetles. The

American cuisine."

PFM is in the process of trying to set up a recipe trading system with the Ethiopians. If successful, the new recipes will be in use as early as the fall semester.

At its meting April 1, PFM decided, after much deliberation to halt the shipment of any more of their food to Ethiopia. This will enable them to keep all of the 'fine American cuisine' on the UMR campus where they feel it is appreciated more.

news briefs

CMS crashes Just what did this hacker do?

Three weeks ago at the height of computer usage one student descriges a half-hour turn-around after a one-hour wait for a terminal — Jason updated hisComputer operator J.D. Whodunit, who was working that evening, says it took four hours to calm the machines down.

knew, then called Berk Breathed,

veterinarian at the Rolla Munici-pal Zoo. Breathed came with a

tranquilizer gun and shot the

responsible, pleas that he was only

Jason, as we shall call the hacker

trying to save time by this. He won't be clear on this point, but it has something to do with a new system and typing "IPL CMSINIT3"

But Jason admits it wasn't a

SUB Presents:

Drive-In Movie Night

Johnny Dangerously and Thief of Hearts

> at the Rolla Drive-In Starts at Dusk Free with UMR ID

totally innocent mishap. He himself says he had an inkling of what would happen.
People who know Jason say he

has been a hacker for several years. They also note that he has had an

axe to grind with the ocmputer for ter, it's director, or any teacher-the computer— weird! they say).

see CMS crashes page 2



Mon-Fri 8-5

from page 2

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10% discount with this coupon when you bring in your

15% discount with this coupon when you bring in a new customer

We specialize in technical typing.

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Gold discovered on campus

logon exec in a way unforseen by

It included an infinite loop to

Immediately— or rather, within 30 minutes— both UMRVMA

and VMB systems had crashed.

any computer operator.

beat all infinite loops.

by-Sylvia Chin Rolla, April 1—Two electrical engineering students, Gregg Mueller and Joe Sanchez, disco-vered gold while walking back from the Extravaganza Thursday afternoon.

They were cutting through cam-pus when Joe Sanchez tripped on a rock by the new foundation of the Vachel McNutt Memorial Hall. He comments, "I saw these pretty rocks, so I thought I'd take them back to the dorm.

Gregg reported, "Sanchez would not continue without the rocks, so I loaded Sanchez with as many rocks as he could carry and I took an armful back myself."

Mueller and Sanchez would not

specify how much gold was taken from the rocks.

The University has hired professional miners to look for more gold. There are speculations that if more gold is found, the entire university may have to be dug up and relocated this summer.

Further information will be disclosed later

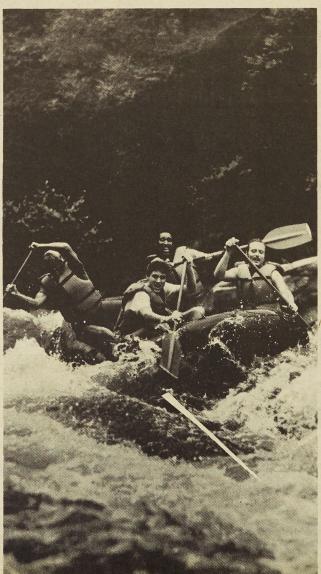
SUB Presents:

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High Energy Acoustical Music from The Land of Ireland and also

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SOME COLLEGE COURSES



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stamina. And your self-confidence.

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If you are a U.S. Citizen, and are a freshman or sophomore who missed the opportunity to take Army ROTC, it's not too late to get in on the excitement.

Pre-register for Military Science 10 Basic and find out why so many UMR students take Army ROTC

For more information, contact: Cpt. Terry P. Bartkoski Military Science Department Bldg. T-2 or Call 341-4740

ARMY ROTC Leadership and Management Training-That Pays Off!

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Wednesday, April 10?, 1985 mizery miner Page 3

Confession of a greedy Democrat

by Art Smith

mputer Cenny teacher—

! they say).

Mon-Fri

8-5

g in your

I have a confession to make. All of the radical editorials that I have written are not a true reflection of my personal views. I have been faking it.

You see, Art Smith is just like everyone else. I have desires and lusts just like all of you. . .Well, maybe not lusts, but I do have desires.

In actuality, I'm a hard-core liberal. I think the defense budget should be zero, and the money spent on a big detente party instead. My modern day hero is Tip O'Neill. Ronald Reagan is just a narrow-minded, senile dinosaur with McCarthy mentality.

As you can see, I'm just you're average, happy-go-lucky Jane Fonda fan. "If it weren't for Jane and Walter, where would we be now?" That's what I always say.

Your're probably asking yourself, "If what this guy is saying is true, then why does he write such stupid, obnoxious, and obviously conservative articles?" The answer is simple. My editor makes me do it, and pays me fairly

well for doing so, I might add. As a good open-minded, liberal type person. I realize the importance of monetary gain and I set my standards accordingly.

Now that you know what I'm really like, what say we just blow off all those negative replies? Why should anybody waste time replying to one of my right-wing pieces of slop, when down deep I'm just one of you? Blow it off. There's just too many things to do that we shouldn't do, to waste time sticking up for our own personal views.



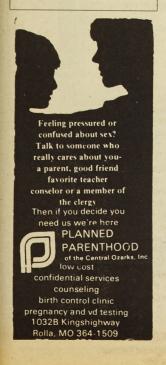
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Of course, there's just one catch. It has to be a Texas Instruments calculator. But then, if you're as smart as we think you are, why wouldn't it be?



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World Union of the Snake slithers in Lost

by Paul McLaughlin

by Paul McLaughin
St. Louis, April 1 — Duran
Duran's new movie Lost World
had it's private screening last
Monday in St. Louis, and the
Miner was THERE!

Lost world answers the oft-asked question "what is that video

Duran Duran's music videos have been notoriously on the bizarre side. "Union of the Snake" was one of the first. It had the lead singer finding some lost and forgotten world under the sands. He is taken there, sees the place, escapes, and watches it burn—right? From the video it was hard to tell, but in the movie all (or, at least more) is

In the movie the band is a group of archeologists on the track of the lost civilization of the Giks (pro-nounced "geeks"—a sub-group of the Incas). They follow clues through North America until they came to a wasteland "East of New-burg and West of St. James" (as

There they find the Giks—actually the Giks found them ("captured" is a good word). The band is taken underground through a series of steam tunnels and they meet the son of their king (this is reminescent of "Union of the Snake"?).

At this point, the reason for the

Giks are plagued by hoards of rubber snakes. During the meet-ing, one swoops into the crowd and several men in green start yelling, "Snake, Snaaake!" The band's challenge for the movie is set right here: Find the source of the ruber snakes and shut it off forever.

Anyway, back to the story. After the snake incident, a few insults are exchanged, the reqisite fist fight is fought, and the band is subdued (later to fight again and win). They are taken to a cavern of bizarre tortures ("Wild Boys") from which

While hiding from the Giks, they try valliantly to find the source of the rubber snakes. One of the civil-

izations young women gives them refuge (at great personal risk), and we have the requisite, though fleeting, love sparked between her and a band member.

After this goes on for a while, they find the source. The rubber snakes live and breed in the pockets of some scuzzy green ackets. Even as the band made this discovery, they are recaptured. Again they come face to face with the son. The band tries to explain, but he won't hear any of it (a socially uneducated thing to do you say, but as one of their guides along the way put it, "What else can you expect from Giks?").

So the band has to fight its way out. As the band is returning home, the Giks are returning to their ignorant ways.

I think Lost World is a long awaited film. (For one thing, I was wondering about all those videos myself.) It was tastefully done (this movie has none of the silly "Here we are hunting in the Bermuda Triangle for the Lost Atlantis" flavor to it).

by Mic

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Will it do well when it comes out next month? Who knows? It is, however, worthy of at least two weeks run, and many at UMR will find it particularly appealing.

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NAVY OFFICERS GET RESPONSIBILIT

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m features

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A new outlook for the EE department?

by Michael Walsh

Rolla, April I—An earlier "Miner" article explained the asbestos problem in the Electrical Engineering building. Taken were pictures of the north side stairwell and faculty lounge where the walls were in great need of repair. The problem, to date, has become much worse. The hazardous asbestos lining inside the walls is now exposed in several classrooms and hallways.

The Student Council has been debating to get the EE building repaired over the summer when the building will not be in. Dean Robertson, Dean of Students, said that with the growing number of

electrical engineering students, the EE building is in constant use even in the summer. This would not allow for the repair time needed.

J. Barnham Construction Company gave an estimate of necessary repairs for the building. It would take approximately 7 months at a cost of \$943,251 for labor and materials. Tearing down worn portions of walls and replacing them would stir up a very high asbestos count. The building would have to be vacated. The walls would be eplaced with conventional plasterboard instead of the plastercoated asbestos which has been there since 1923.

On April 1st, last week, the Board of Curators met to discuss the problem. This meeting was urged by the Student Council and many concerned electrical engineering faculty. After a long discussion, the board came up with a new proposal. On April 9th, the University of Missouri's governing board accepted the proposal and set aside funds for the restoration of the EE building. The proposal was accepted on the basis of an inspection by the Missouri Bureau of Safety which found the asbestos count in some areas to be above the safety limit.

safety limit.

The new building by the Computer Science building had a com-

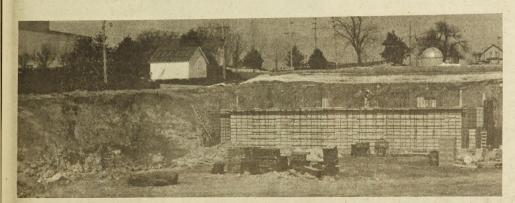
pletion date of October this year. It will now be completed by late August in time for the Fall semester. Kevin Foster, head of the building project, said, "A lot of the work can be done after the building is in use. The most time consuming work is all of the little things like last minute wiring, painting or putting in office space."

things like last minute wiring, painting or putting in office space."

The new building will become the new EE building for the time it takes to rebuild the EE building. However, the bottom floor of EE must be sealed off from the upper levels and stairways and kept open for class. The power labs and computer facilities on the lower floor can not be easily moved, so some

classes will continue in the building.

Further meetings of the Board of Curators are being planned to discuss the defails of moving the EE department. Joseph Carmody, a member of the Board, siad that is is possible that the entire EE department will be moved permanently to the new building next to the Computer Science building. This would allow a thorough remodeling and repair of the EE building. After that, it would be opened up to other departments. Maybe this could be the end to having a math class in the Humanities building and English classes at the Civil Engineering building.





Could this be a future possession of the EE's? (Picture by Tom Roth.)



And The Ship Sails On

"One of Federico Fellini's most visually splendiferous films. It contains some of the most wondrous sequences Mr. Fellini has ever done. If you enjoy the cinema of imagination...you cannot afford to pass up this rare, funny, surprising display."

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— David Ansen, NEWSWEEK

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m sports

Track Allgood's boys going 'all wrong'

by Dan Lichtenwalner

Things are really going bad for the UMR men's track team; the team just seems to be falling apart.

To start things off, the Miners two 100 meter runners, George Louis-Ferdinand and Lloyd Flowers, finished last and second last, respectively. When coach Allgood went up to the runners to find out what went wrong, the runners admitted that they got lost halfway through the race and weren't sure which way to go! Things weren't much better in the 400 meter relay the Miners were in the lead, but UMR's third runner handed off to SWMSU's last runner, who went on to win.

It was evident to coach Allgood that this was going to be a long day.

In the mile run, UMR runner Dan Lichtenwalner was disqualified because he was out of uniform; it was claimed by the officials that thermal underwear and ski masks give an unfair advantage. Mike Deamer from UMR was the one who filed the complaint; (that allowed him to move from fourth to third).



In a new event, the 35 pound weight throw, the weights were nowhere to be seen. So, runners Curt Whittet and Bruck Berwick were thrown instead. This added extra excitement to the event, which was won by "Bruiser" Bob Gorham.

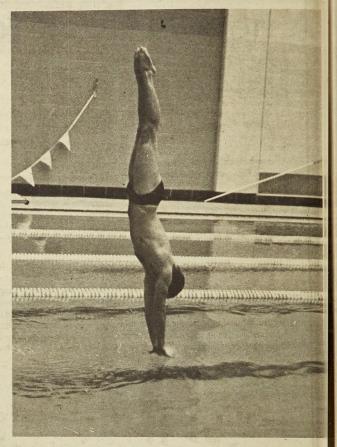
In the 10K run, Curt Elmore was defeated by a mere tenth of a second. Strangely enough, after the race he had a smile on his face, and kept mumbling something about being Mr. Happy. I'll never figure out distance runners.

The meet finished off OK, with Keith Smith winning the 5K (with the aid of an oxygen tank strapped to his back).

One good thing that came from the meet was that Scott Finke learned a new technique for throwing the javelin. He now holds the javelin while pole vaulting, so he can hurl the javelin from 15' in the air. This allows him to do two events at once, and almost allowed him to break the world record!

When the meet was over, the happenings of the day were discussed with coach Allgood. To him, the worst part of the meet was when he was forced to be the Miner high jumper, since we didn't have one. He said the easy part was getting his first foot in the air, and the hard part was getting the other foot in the air. Meanwhile, the athletes were trying to calm down his wife Josette, who was laughing hysterically.

Hopefully the team will do better next week in a meet with Rolla Junior High and Westminster.



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Jon Staley competes in the latest water sport, competitive water handstands. (Photo by Brian Jones.)

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