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The Missouri Miner, September 08, 1993

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Missouri Miner



A publication of the students of the University of Missouri-Rolla

September 8 1993

Volume 82, Number 3

Twenty-Four pages

UMR appoints two new interim chairmen

Dr. Daniel C. St. Clair, professor of computer science at the University of Missouri-Rolla's Engineering Education Center in St. Louis, will become interim chairman of UMR's computer science department beginning Sept. 1.

St. Clair joined the UMR faculty in 1978. His teaching and research interests include machine learning, intelligent diagnostic systems, information systems, graphics, and software engineering with the software ADA.

He also was instrumental in developing UMR off-campus graduate programs in computer science at the Defense Mapping and Aerospace Agency in St. Louis.

St. Clair has received three faculty excellence awards and is a member of the American Association for Artificial Intelligence, the Association for Computing Ma-

chinery and the IEEE Society.

He received a bachelor's degree in mathematics from Culvert Stockton College in Canton, Mo.; a master's degree in science teaching in mathematics from the College of Williams and Mary in Williamsburg, Va.; and a doctorate in mathematics from UMR.

St. Clair replaces Dr. Arlan DeKock, chairman of the UMR computer science department since 1981.



Dr. Daniel St. Clair (left) and Dr. Richard W. Stephenson (right) named to interim positions as department chairmen of computer science and civil engineering, respectively.

Dr. Richard W. Stephenson, professor of civil engineering at the University of Missouri-Rolla, has been named interim chairman of the civil engineering department.

Stephenson was appointed by Dr. Robert L. Davis, dean of the UMR School of Engineering, to serve for one and a half to two years until a permanent chairman is named. He replaces Dr. Joseph E. Minor, civil

engineering chairman since 1988, who is taking developmental leave from UMR to continue work on building window envelope systems in hurricane-prone areas.

Stephenson has been a member of the UMR civil engineering faculty since 1971. He received his bachelor's, master's and Ph. D degrees in civil engineering from Oklahoma State University. He has won two faculty excellence awards at UMR and has conducted research and external programs valued at more than \$1 million. Stephenson, a registered professional engineer, is a member of the American Society of Civil Engineers, which recently elected him to the status of ASCE Fellow. He also is a member of the Missouri Society of Professional Engineers, the International Society of Soil Mechanics and Foundation Engineering, and several other professional organizations.

UMR professors travel to Germany to study the effects of aircraft emissions on cloud formation



News Services
SOURCE

Ninety years ago, the Wright Brothers flew the world's first airplane near Kitty Hawk, N. C. Little did they know that their invention could one day prove harmful to Earth's atmosphere.

But today, scientists believe that tiny particles contained in the exhaust of jet engines are causing big problems in the atmosphere. The exhaust is believed to be the cause of artificial cloud formations that would contribute to global warming problems.

Now, two researchers from the University of Missouri-Rolla's Cloud and Aerosol Sciences Laboratory are

studying the particles in an effort to help design and build more environmentally friendly jet engines.

Dr. Philip Whitefield, research associate professor of physics and chemistry, and Dr. Donald Hagen, associate professor of physics, traveled to Germany in July to study cloud formations created by the exhaust of commercial jets.

"Currently there is a tremendous amount of air traffic in Germany's air space on a daily basis," says Whitefield. "It is estimated that aircraft exhaust processes may be responsible for up to 1 percent of Germany's cloud cover in a given year."

Whitefield and Hagen began their studies with the German Aerospace Research Establishment Institute of Atmospheric Physics in May 1992. Their research deals with the en-

vironmental impact of current commercial airliners that cruise at altitudes between 26,000 feet and 45,000 feet in the lower region of the atmosphere called the troposphere.

"Aircraft spend most of their time in this cruise region," says Whitefield. "Most of the fuel is burned at cruise and produces both gaseous and particulate by-products."

Commercial jet-engine emissions released at cruise are not regulated or characterized. "That means we really don't know what is coming out and how it interacts with the environment," says Hagen.

The Germans, who spearheaded the overall research program, are creating a data base that could be used by national and international aviation

see Emissions, page 18

Applications for Student Curator for University of Missouri-Rolla are now available in the Student Council Office, 202 UCW.

The student representative shall be a full-time at the university, a citizen of the United States and a resident of the state of Missouri. No student may be appointed who is not actually enrolled as a student at the University of Missouri-Rolla during the term of his appointment.

The student representative will be attending approximately seven Board of Curator meetings per year, rotating between each of the four campuses of the University of Missouri, and will act as a liaison between the students and Board of Curators. The student curator will serve a two year term beginning January 1, 1994 ending December 31, 1996.

Completed applications should be returned to the Student Council Office by October 1, 1993 after which time the preliminary interviews will take place. Three final applicants will be selected to meet with the governor who will select the student curator.

What's Up at UMR

Wednesday

SUB: CAMPUS SHOWCASE, CASH CAGE, & HUMAN BOWLING; Hockey Puck

8:30am Resume Writing Seminar, 209 Norwood

2:30pm STUCO Laywer, Walnut

3:30pm "If I Only Had a Brain", 209 Norwood

5:00pm Rollamo Photographers meeting, Norwood 103G

5:00pm Student Activity Fee Board Mtg., Walnut

5:30pm Intramural Managers Mtg. & Golf Entries Due

6:00pm Spelunkers Club Mtg. 204 McNutt

6:00pm Blue Key Mtg., 216 ME

7:00pm Associated General Contractors Mtg., 114 CE

7:00pm AIChE Mtg., G-3 Shrenk

7:00pm Phi Eta Sigma Mtg.,

7:00pm Interviewing Skills Seminar, G-5 H-SS

7:00pm Homecoming Committee Mtg., 105 ME

7:30pm Society of Mining Engineers Mtg., 204 McNutt

7:30pm Kappa Kappa Psi Mtg., 321 Chem.Eng.

7:30pm Tau Beta Sigma Mtg., 315 Chem.Eng.

8:00pm College Republicans Mtg., 205 H-SS

9:00pm Amold Air Society Mtg., 208 Harris Hall

Thursday

University of Missouri Board of Curators Meeting, time to be announced, Columbia

11:30am Civil Engineering Graduate Seminar, Joseph E. Minor, 114 civil Engineering

12:30 pm Newman Scripture

3:30pm StuCo Club Appropriations Applications Deadline

4:00pm UMR men's soccer, Southwest Missouri State University, Springfield

4:45 pm Toastmasters Mtg., Missouri

6:30pm American Nuclear Society Mtg., 227 Fulton

6:30pm Smoker for Electees, Chem G3

6:30pm American Soc. for Eng. Management Mtg., 204 McNutt

6:30pm Hanggliding Club Mtg., 105 ME

7:00pm SUB Homecoming Mtg., Missouri

7:00pm "Job Hunting is an Exciting Adventure!" Nick Calton, Mark Twain

7:00pm Soc. of Hispanic Professional Engineers Mtg., 212 McNutt

7:30 pm Lutheran Student Center Bible Study

8:00 pm St. Pat's Committee Mtg., 107C ME Annex

Friday

University of Missouri Board of Curators Meeting, time to be announced, Columbia

UMR men's and women's cross country, Central Missouri State Invitational, time to be announced, at Warrensburg.

Gaming Association Convention Begins, UCE

6:30pm Show-Me Anime Mtg., 212 McNutt

6:30pm Intervarsity Christian Fellowship Mtg., Missouri

7:00pm Women's Soccer vs. Colorado Christian

7:00pm SUB Movie "From Russia with Love"

8:00pm Saint Louis Symphony Orchestra featuring Leonard Slatkin, music director and conductor, Leach Theatre, Castleman Hall

9:00pm SUB Movie "Diamonds are Forever"

3:30 pm Trap & Skeet Mtg., T-2 Bldg.

6:30 pm Show-Me Anime Mtg., 212 McNutt

Saturday

9:00am Leadership Dynamics, Centennial

12:00pm men's soccer vs. McKendree

12:00 pm Gaming Association Gaming, 139 Chem

noon UMR men's soccer, McKendree College, UMR Soccer Complex

1:30pm UMR football, Iowa Wesleyan College, Jackling Field

6:00pm MSM-UMR Alumni Association Annual Shrimp Feed, Lions Club Park, Pavilion #1. Tickets are \$16 per person and include admission to the UMR football game.

7:00pm SUB Movie "From Russia with Love"

9:00pm SUB Movie "Diamonds are Forever"

Sunday

2:00pm UMR women's soccer, Quincy University, UMR Soccer Complex

6:30 pm Voices of Inspiration Mtg.

7:00pm KMNR Station Mtg., 107C ME Annex

9:00pm TJ South Blue Sabres Mtg.

Sunday

2:00pm UMR women's soccer, Quincy University, UMR Soccer Complex

6:30 pm Voices of Inspiration Mtg.

7:00pm KMNR Station Mtg., 107C ME Annex

9:00pm TJ South Blue Sabres Mtg.

Monday

Class roll check sent to departments

noon University Orators Chapter of Toastmasters International meets, Missouri Room, University Center-East. For more information contact Linda Bramel at 341-4117

3:00pm Resume Writing Seminar, 201 Norwood

3:30pm "Help Me, Help My Friend", G-8 TJHA

4:30pm Sigma Tau Delta Mtg., H-SS

6:00pm Gaming Association Mtg., 105 ME

7:00pm Amnesty International Mtg., 202 Library

7:00pm National Society of Black Engineers Mtg., 204 McNutt

7:30pm Alcoholics Anonymous Mtg., Walnut

8:00 pm Koinonia Mtg., Maramec

Tuesday

12:30pm Resume Writing Seminar, 201 Norwood

3:30pm Computer Science Graduate Seminar, Daniel Okunbor, "Computer Methods for Molecular Dynamics", 209/209A Math-Computer Science

3:30pm Resume Writing Seminar, 201 Norwood

3:30pm "Time Management", 208 Norwood

5:30pm Society of Women Engineers Mtg., Maramec

6:30pm Interfraternity Council Mtg., 216 McNutt

6:30pm Student Council Mtg., 204 McNutt

6:30pm Electee Quiz, TBA

7:00pm UMR Film Series - Apocalypse Now ME 104

7:00pm Association of Engineering Geologists Mtg., 211 McNutt

7:00pm "Apocalypse Now" Miles Auditorium, ME. Admission by season ticket or \$3 at the door.

8:00 pm Chi Alpha Mtg., Missouri

Next Wednesday

Student Council Blood Drive, 202 UCE

2:00pm Resume Writing Seminar, 201 Norwood

3:30pm "InterestTesting & Career Planning", 203 Norwood

5:00pm women's soccer, Southwest Baptist University, UMR Soccer Complex

5:30pm News Services Writing Workshop, Mark Twain

6:00pm Eta Kappa Nu Mtg., 103 EE

6:30pm AIAA Mtg., 104 ME

7:00pm Associated General Contractors Mtg. 117 CE

7:00pm Phi Eta Sigma Mtg., G-5 H-SS

7:00pm American Society of Civil Engineers Mtg., 114 CE

8:00pm Starfleet Mtg., Missouri

Financial Aid

Owings Mills, Maryland (USA) —The National Library of Poetry has announced that \$12,000 in prizes will be awarded this year to over 250 poets in the North American Open Poetry Contest. The deadline for the contest is open to

See Aid, page 16

Missouri Miner

The **Missouri Miner** is the official publication of the students of the University of Missouri-Rolla. It is distributed each Wednesday afternoon at Rolla, Missouri and features activities of the students of UMR.

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The **Missouri Miner** encourages comments from its readers, and will attempt to print all responsible letters and editorial material received. All submissions must have a name, student ID number, and phone number for verification. Names will be withheld upon request.

Submissions for publication must be in our drop box (first floor of the Norwood Hall, Room 103) by 3:30 p.m. on the Thursday before publication. The **Missouri Miner** reserves the right to edit all submissions for style, grammar, punctuation, spelling, length, and matters of good taste.

The **Missouri Miner** is operated by the students of UMR and the opinions expressed in it do not necessarily reflect those of the university, faculty, or student body.

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Oh yes,
we do recycle!
Please do the same!

Opinions

Do We really know all the facts about homosexuality?

I would like to share this information about homosexuality with my fellow students here at UMR. I researched this subject for a paper for one of my classes and I know that it is correct and current. I understand that a gay student organization canceled recent plans to hold an ice cream social due to protesters. I think that if people are going to form opinions on a subject they should educate themselves about it first.

I hope that if people take these common myths and facts into consideration they will see that gays and lesbians are not so unusual and are probably the most discriminated against minority group in this society. Keep in mind that I said they are a minority group, that is a small group of people, and like all people they are worthy of our time, attention and resources.

For Your Information:

Many People don't know that some famous people were or are gay. Some of these include:

Women:

Martina Navratilova
Emily Dickenson
K.D. Lang
Gertrude Stein (U.S. author)
Melissa Etheridge

Men:

Socrates (Greek Philosopher)
Aristotle (Greek Philosopher)
Alexander the Great (Macadonian Ruler)
Julius Caesar (Roman Emperor)

Leonardo da Vinci (Italian painter-scientist)

Tennessee Williams (U.S. playwright)
David Kapy (Washington Redskins)
Walt Whitman (U.S. poet)
Peter Ilyich Tchaikovsky (Russian composer)

David Bowie
Alexander Hamilton
Alan Turing (inventor of modern computer)

Here are some facts about homosexuality from the Hetrick-Martin Institute:

During adulthood, 37% of Americans have homosexual experiences. Ten percent are predominately homosexual.

In a study of self-identified lesbian and gay youth in New York City, 41% reported suffering violence from their families, peers, or strangers. Often, 46% were directly gay related and primarily perpetrated by family members.

45% of gay males and 20% of lesbian females experience verbal or physical assault in high school. 28% of these youth are forced to drop out of school because of harassment resulting from their orientation.

26% of gay youth are forced to leave home because of conflicts with their families over their sexual identities.

Myth: It's unnatural to be gay or lesbian.

Fact: It is not unnatural to have sexual relations with members of one's own sex: this behavior is found in practically every culture throughout history. Same sex relations were in fact accepted and "natural" until the 13th century, after which same sex relations were increasingly proscribed by church and state.

Myth: It is immoral to be lesbian or gay.

Fact: People debate the morality not only of homosexuality, but of abortion, divorce, birth control, and capital punishment, just as they have to debate the morality of interracial marriage and interdenominational marriages.

Myth: Lesbians and gay men are mentally ill.

Fact: Research done by the National Institute for Mental Health found no greater incidence of mental illness among lesbians and gays than among heterosexuals. The American Psychiatric Association eliminated homosexuality from its list of mental disorders in 1973. This myth developed in part because earlier studies often focused on lesbians and gay men involved in therapy (other than the heterosexual sample used to discuss mental health in the general population) rather than those not in therapy.

Myth: Gays molest children.

Fact: The sexual molestation of children is much more common than we have believed, but most incidents are heterosexual-committed by adult males on minor females. The myth that child molesters are usually gay men or strangers serves to cover up how common heterosexual, incestual child-molesting is. (Studies show that 90% of the reported incidents involve men that the child knows-often fathers, step-fathers, uncles, and family friends.)

Myth: Lesbians and gay teachers will be harmful role models for children.

Fact: Dr. John P. Spiegel, President of the American Psychiatric Association, said, "Some have feared that homosexual teachers might affect the sexual orientation of their students. There is no evidence to support this thesis." Many outstanding educators (Plato, Paul Goodman, and Edith Hamilton, among others) have been lesbian or gay. Lesbians pioneered in founding women's colleges. "If teachers were such powerful role models, there would be a lot more nuns running around out there today." Harvey Milk.

Myth: Homosexuality can be cured.

Fact: There exists no scientifically reputable "cures" for homosexuality. Aversion therapy and shock treatment have been tried, as has prayer. People who are truly motivated to change may be able to modify their behavior so they do not act on homosexual feelings, but there is no evidence that a person can change his or her sexual orientation from one of the continuum to the other.

Myth: Homosexuality is just a stage.

Fact: Gay men see themselves as men who are attracted to men; not as men who want to be women. Lesbians see themselves as women who love women; not women who want to be men. People who identify primarily with the opposite sex and who feel they were born into the wrong gender are called transsexuals. A person's gender identity is quite separate from their sexual orientation. Most transsexuals are homosexual.

Question: "I saw these two lesbians sitting in the park, holding hands, and boy, did that make me mad. Why do they have to do that and flaunt themselves?"

Answer: "Did you ever hold hands in the park with someone you really cared about? Did you ever feel so affectionate toward someone that you wanted everyone to know about it? Was holding hands 'flaunting' when you did it? You're not really suggesting that genuine gay affection has to be entirely hidden, are you?"

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See Flier for
More Details!

HELP ME HELP MY FRIEND
Monday, September 13; 3:30-4:30 pm
G-8 TJ-Hall-AEC
Facilitator: Ms. Christine Breier

TIME MANAGEMENT
Tuesday, September 14; 3:30-4:30 pm
208 Norwood Hall
Facilitator: Mr. Carl Burns

INTEREST TESTING & CAREER PLANNING
Two consecutive Wednesdays
Sept. 15 & 22; 3:30-4:30 pm
203 Norwood Hall
Pre-register by Sept. 10
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Features

Campus complaint hotline news

What the university is doing (or not doing) about student complaints and suggestions



StuCo
SOURCE

The following is a list of the complaints that were submitted to the Student Council last year and what has been done to solve them. As you can see, at least something was done in response almost to all complaints. However on some of the issues, Student Council has done our best, but there are others in the university who are slowing things up. If you have anything that you don't like about the university or any suggestions call the Campus Complaint Hotline at 364-6421. We promise to be sure that someone will hear about your complaint. In addition if you see any of the complaints on this list that you agree with and see that nothing has been done, please take the initiative to pass your complaint on to the administration at the university. Sometimes it is not enough for just one person or even just Student Council to speak up to get something done about a complaint. Remember the more we speak up, the more we will be heard.

Complaint: Students should not be charged for yearbooks if they do not want one.

Resolution: This was changed last year. This year students who do not

want to pay for a yearbook simply fill out a short form to avoid the fee.

Suggestion: Could the library be open earlier on Sundays?

Resolution: The head librarian said that they did not have the money or the

staff to do this. Nothing has been done about this problem although this has been suggested by many students.

Complaint: It is not fair that engineering students pay an Engineering Fee of which goes into the general budget of the university.

Resolution: When a limit was put on how much UMR could raise tuition, this fee was added as a way to get more revenue without breaking the limit. This fee is currently \$30.60/crt hr for all engineering classes. This increased fee does not go directly to costs in those classes, but it goes into the general budget. Nothing has been done by the university to change this.

Complaint: The workout room at the Multi-Purpose building is too hot.

Resolution: Fans were installed in the room to improve circulation. A new workout room is planned to be included in the extension of the Multi-Purpose building.

Complaint: What can be done to improve academic advising?

Resolution: An advisors handbook was written last year to provide advi-

sors with all the information that they need. Department chairs were encouraged to allow students to change advisors if they have a problem.

Complaint: Students are being thrown out of computer labs when the labs should be open?

Resolution: The Computer Center said that they were unaware of the problem, and they will do their best to correct it.

Complaint: University vehicles have been driving on campus without giving the right-of-way to students.

Resolution: Foreman of Mail Services talked to drivers to correct the problem.

Suggestion: Could there be a smoking section in UCE for people who study at night?

Resolution: Due to the new policy banning smoking from all campus buildings, this would not be possible.

Complaint: The schedules of classes does not show who is teaching most classes.

Resolution: Vice-Chancellor Ogrosky was contacted. He said that in many departments it is not known who will teach the class when the schedules are printed. However, there are some departments who do not bother to give any of the instructors names. No action by the university has been taken to correct this problem.

Complaint: There are too many high-school kids using the Multi-Purpose building.

Resolution: The staff at the building will check for ID's if they suspect that someone is not a student.

Complaint: Why can't students access some of the software in one building from another server in another building?

Resolution: Due to software licensing restrictions some of the software on campus can only be accessed from within the building that it is registered for.

Complaint: Could students rollerblade on campus at night?

Resolution: The police chief was contacted. He said that it was a liability for the university to allow students to rollerblade, and the police were going to stop people from rollerblading, even though there is no rule prohibiting it at the university.

Complaint: Some campus buildings have their doors locked so students can not use the computer labs even though the labs are supposed to be open.

Resolution: The university has been contacted to see what can be done about this issue. Nothing has been done by the university yet.

Complaint: The EE building does not have handicapped parking and other facilities for the handicapped.

Resolution: The department was contacted, and they said that the only way this problem can be corrected is to contact people higher up in the university.

Complaint: Why are students not allowed to use the fields at the Multi-Purpose building?

Resolution: There are times when students are not allowed to use the fields because they are being seeded or are reserved for practice.

Suggestion: Could there be a commencement for Summer Grads?

Resolution: Due to cost, it is the current policy of the UM system to only have two commencements. Summer grads usually have their commencement in the winter because there are not enough graduates for a summer commencement.

Complaint: The cost of books is too high.

Resolution: The bookstore was contacted about correcting the problem. It was suggested to have a book-rental system. Nothing has been done to correct this problem by either the bookstore or the university.

Suggestion: Could a 24 hour study area be made available to students?

Resolution: A proposal was made to include this area in UCE. However

see Hotline, page 6

10th Annual Miner Triathlon



SUB
SOURCE

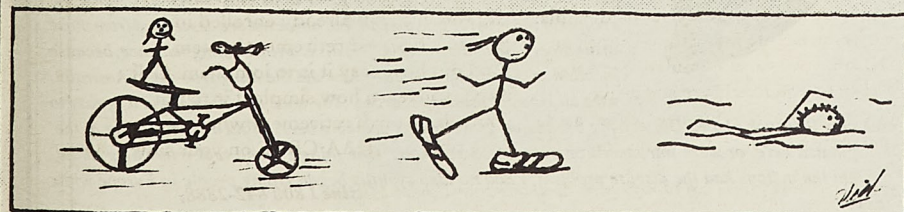
The 10th Annual Miner Triathlon is scheduled to take place on Sept. 18,

There is NO registration fee for UMR students, non-UMR participants will be charged a \$5.00 fee.

There are five categories of competition. The individual categories, where competitors do all three events, are divided according to gender and then into separate categories based on age: Under 25 and 25 and older. The fifth category is for coed teams consisting of 2 or 3 members.

First, second, and third place awards will be given in each category, along with door prizes at the end of the day. In addition, all participants will be given a commemorative Triathlon t-shirt!

Entry packets may be picked up at the SUB office at 218 University



1993 at 9:00 am at the Multi-Purpose bldg. The day's events will include a 500 yard swim, a 15 mile bike, and a 3.1 mile run.

Center West, above the Butcher Baker. Call 341-4220 for more information.

Center West, above the Butcher Baker. Call 341-4220 for more information.

NSPE reactivated at UMR



NSPE
SOURCE

A student chapter of the National society of Professional Engineers (NSPE) has been reactivated on the UMR campus. The goal of NSPE is to promote professionalism within engineering by developing the beginning students interest in engineering, promoting leadership and ethics in the students members, and by educating the community about the engineering profession.

NSPE has several projects planned for the 1993-94 academic year. For graduating seniors, NSPE will be hosting an Order of the Engineer ceremony in which steel rings are awarded to serve as a reminder of engineering ethics. (For more information on this

ceremony, see the related article). NSPE will also be sponsoring its second Technology Fair at the Rolla Middle School. The fair held during National Engineering Week, features displays coordinated by several professional societies and engineering departments. Finally, the student chapter of NSPE will serve as a link between not only the local chapter of the Missouri Society of Professional Engineers, but to professional engineers throughout the state and country.

Anyone interested in joining NSPE should attend the first meeting on Monday, Sept. 13 at 8:00 pm in room G3, Chemistry Building, or contact the president, Seth Burgett, at 341-3989. All students enrolled at UMR in a curriculum leading to an engineering degree are eligible to become a students member. Pizza and soda will be provided at the first meeting.

St. Pats shaping up for hunger



Tom Huffman
Staff Writer

On Sunday Sept. 26, the St. Pats Committee will take part in the annual Phelps County Walk For Hunger, starting at 1 pm at the puck. The walk is sponsored by CROP, with more than 3000

communities participating. Twenty five percent of the money raised in Rolla will stay in the Rolla area, with the remainder going to Church World Service. To sponsor a walker, talk to any St. Pats rep or go by the Wesley Foundation, 403 W. 8th St. Come out and show the town you care. Only 190 Daze left til the Best Ever!!!!

Hotline

from page 5

nothing has been done with this proposal. It is also being considered to include this study area with the 24-hour computer labs.

Complaint: It is not right for the university to require International Students to have health insurance.

Resolution: This policy was brought about because many international students' failure to be able to pay for medical expenses. Nothing has been done by the university to change this policy.

Complaint: It is not right for my advisor to refuse to sign my schedule when I qualify to take all the classes I signed up for.

Resolution: This complaint was made to a specific department as well as to the Academic Council. Currently student can not register if their advisor refuses to sign their schedule. Nothing is being done by the university to correct this problem.

Cures for the back-to-school blues



Laurie Wilman
Staff Writer

Health alert!! Are you suffering from any of the following?

- 1) Excessive mailbox checkings?
- 2) Homemade cookie cravings?
- 3) Hand cramps?
- 4) Insomnia—induced by roommates who don't come until 4 am?
- 5) Claustrophobia—12x14 ft. rooms... enough said?
- 6) Strong urges to experimentally test gravity by dropping both your calc and physics books simultaneously from the tallest point in Rolla?

If you answered "yes" to any of these symptoms, then please pay close attention to this bulletin. You have come down with a serious case of *Stressious Educations*, or the Back-to-School Blues. While this ailment can be quite severe, and those afflicted should be handled with extreme sensitivity since a common effect is a short-circuiting of the victim's nervous system (known in lay terms as having "snapped"), do not lose hope. Help is on the way, and I'm here to offer it to all of you poor souls bur-

dened by this tragic calamity. So gather thy courage and listen well.

First of all, when awoke from a dead sleep by things that go bump in the night, don't jump to the obvious conclusion that Jupetarians are invading. More likely, it's just your beloved friend, your best buddy, the other life form who shares that ever-so-quaint-and-cozy cube that you just happen to sleep in each night —The Roommate—being his or her typical self. Unless situations get exceptionally ridiculous (and around here, that level is not too difficult to reach), remain calm for about the first month: they're just testing out their independence for the first time, too. However, if this goes on for any longer, seek professional help immediately, or The Roommate will begin to prey upon your weakened state and eventually evil thoughts of causing creative "accidents" for your good pal involving elevator shafts or tall places will begin to creep up in your fevered mind, and though it might solve the problem at hand, I'd think it difficult to earn a bachelor's degree in anything other than License-Plate Molding while in the state penitentiary.

Next, you'll be experiencing a major lack of motivation pretty soon, if it hasn't set in already. That's a tough

one to cure, but it can be done. May I suggest leaving the keyboard of your computer just long enough to walk to a park, watch a sunset, breathe smog-free air, and look at the stars? (If you're from anywhere near a city, take it from me that those last two do wonders for your state of mind.) You may have to stay up a little later to get the work done, but at least you won't be trying the gravity test using textbooks anymore.

Finally, believe it or not, social conversations involving integrands, vectors, the exact value of pi, and how fast a person would have to run in order to leave the earth's pull and go sailing off into outer-space to join James T. Kirk on his next expedition are perfectly normal here at UM-Rolla. Unfortunately, no known antidote has been found for this yet, and in fact, it will only get worse. A sad state of affairs, but that's life, and if you want to get it that Emerald City of a UMR degree, you have to follow the Yellow Brick Road and talk like the Munchkins.

Well, boys and girls, that's the best I can do in solving this Black Plague of stress and strain. Just remember that's it's only the beginning of the beginning—not the beginning of the end—and try to stay away from tall places.

The Columbian Exchange: old world meets new world

Last week I brought up the subject of American Indians which made me remember the class on American Frontier history that I took during the summer, which in turn, made me remember one of the books I read this summer, *The Columbian Exchange*. Right off hand, what does the title suggest about the book; is it an essay on drug traffic in South America, the exchange rate for Col money, a Reagan era code name for an operation in South America, drugs for money, hostages for money, hostages for drugs? Actually the author, Alfred W. Crosby Jr., examines the consequences of the old world, Europe and the East, meeting the new world.

When Columbus discovered the new world, he didn't just different people, diseases, plants, and animals. Crosby new world: the small pox and disease problem of the Indians, survived), the introduction of syphilis into the old world, and when Columbus arrived in the new world, the old and new all different than the old world. Before Columbus, the old the world as it is today. Today, the old world and the new through out the world, side by side, but prior to 1492 the reader the enormous impact of Columbus' discovery. The places because of the introduction of animals or plants found in the new world until after Columbus, but it didn't millions of years the two worlds were separated, and then accelerating others, making life better for some, and worse discover a piece of new real estate.

I personally found this book real interesting. Crosby world of religion, "if all land animals and men had drowned chosen few, then why the different kinds of animals and men if all of the animals we know of got off of the ark at a specific swim? Crosby is well researched in his presentation, and understand his ideas. Before reading this book, I had no idea of the magnitude of the exchange that took place. Out driving around on gravel roads drinking beer, I find myself looking at the life in the fields, and on the side of the road and wonder if I am looking at plants that originated here, or were introduced or purpose or accident. One thing I found real interesting about was the introduction of syphilis into the old world by the new explorers. Until now, I thought the Indians had the disease problem, I had no idea syphilis began killing people in Europe while fabulous library.

Coming soon, a self guided gravel road tour of the central Ozarks.

By James Barnes



North and South America.

discover another continent exactly like Europe, he discovered a land with examines four separate areas of exchange between the old world and the old world plants and animals introduced into the new world (and how they new world plants in the old world. The general thesis of Crosby is that started to become alike. The animals, plants, diseases, and people were world and new world had been isolated, corn was not grown through out world can hardly be separated. The horse and the potato can be found potato was isolated in the new world. Crosby tries to get across to the ecology of the old world and new world has been greatly altered in some that had never been present before 1492. For example, pigs were not takelone for the stinky animals to ruin the land in New England. For Columbus came along and joined them, destroying some species of life, for others. Crosby makes the main point that Columbus just didn't

makes an interesting point about how Columbus' discovery shook the except for those in the ark, and all that now exist are descended from those in the other side of the Atlantic?" This is an interesting sentence, because location in the middle east, then how did the Kangaroo get to Australia, uses all kinds of primary sources. The book reads well, and it is easy to

find myself looking at the life in the fields, and on the side of the road and wonder if I am looking at plants that originated here, or were introduced or purpose or accident. One thing I found real interesting about was the introduction of syphilis into the old world by the new explorers. Until now, I thought the Indians had the disease problem, I had no idea syphilis began killing people in Europe while

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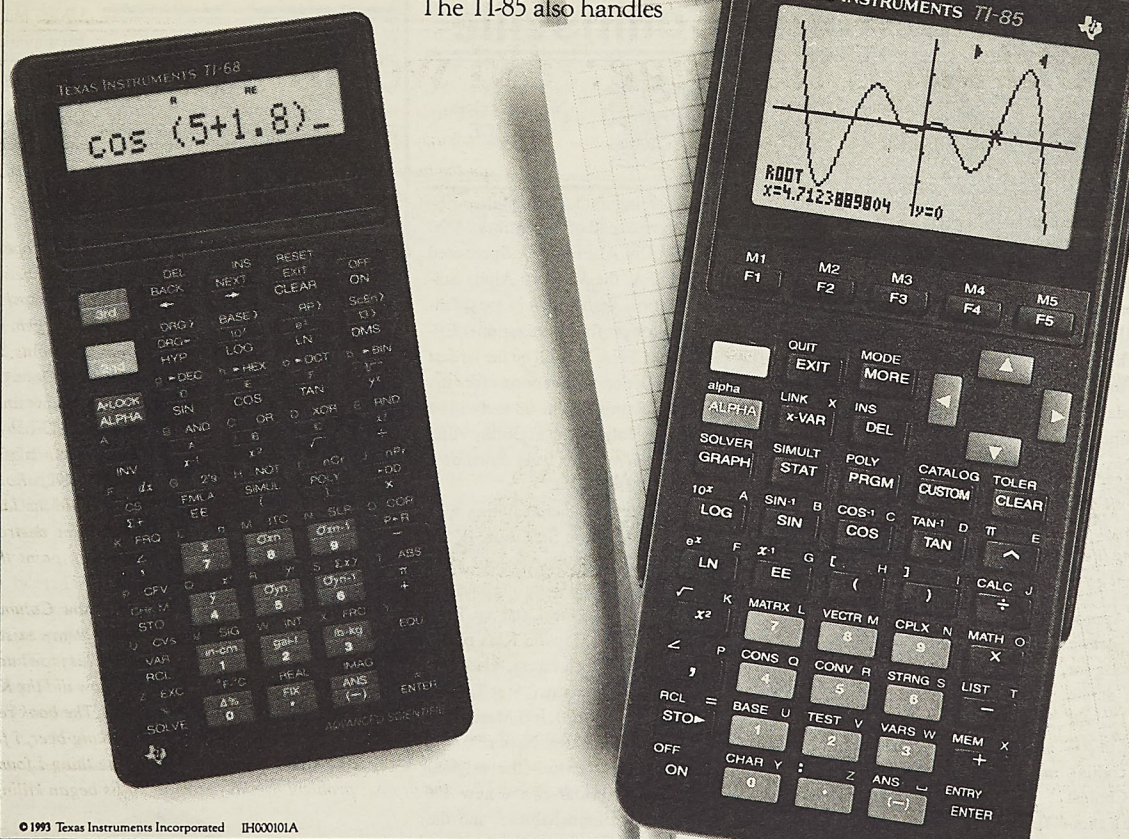
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**TEXAS
INSTRUMENTS**



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NEW — FALL 1993 ELECTRONIC CAPS REPORTS AVAILABLE

CAPS reports, providing students with a current degree audit, including the 1993 fall course enrollment, is now available electronically through individual CMS accounts on UMRVMA.

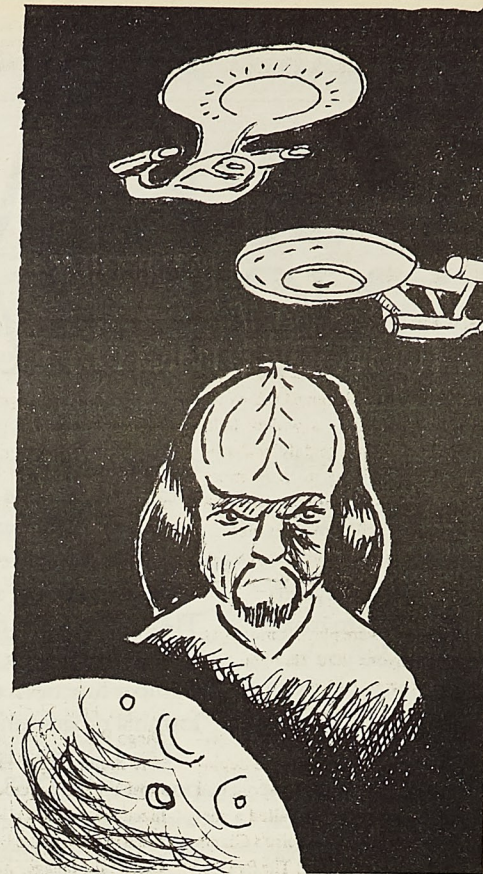
Each student is assigned a CMS account with a User ID of the form SNNNNNN, for a six digit student ID, or S0NNNNN, for a five digit student ID; e.g., student number 123456 would signon as S123456 and student number 99999 would signon as S099999.

You are assigned an initial password consisting of your birthdate in the form YYMMDD. If you were born on June 8, 1975, your password would be 750608. When you have successfully logged on to the system, you will have a **READY** prompt displayed on the screen.

At the **READY** prompt, access your individual CAPS report by entering, **STUINFO**. For security, you will again be requested to enter your birthdate in the same form YYMMDD. Select menu item #6. While logged on, you should also review your address data and biographical data for accuracy.

CAPS reports will be refreshed on the weekends and available on the following Monday. Please contact the Registrar's Office if you have any unresolved questions about the report. If you have difficulty logging on, contact the Help Desk, 104 Math and Computer Science Building.

For more security, it is recommended that you do not continue to use your birthdate as your password. At the **READY** prompt, enter **dirm pw** (directory maintenance, password) to assign a new password.



Blue Key accepting applications



Blue Key
SOURCE

Blue Key will be accepting applications for Fall 1993 pledging. Applicants should be students of good character who have demonstrated leadership capabilities in their extracurricular activities.

Requirements for membership are:

1. 60 completed credit hours.
2. Cumulative GPA of 2.75.
3. 40 Blue Key leadership points.

Applications to pledge Blue Key will be available on Sept. 10 at the student activities office in the University Center-West. Return completed applications to the student activities office no later than 1:00 pm on September 20, 1993. If you have any questions please contact Craig Rackers at 364-2400.

StuCo is at work for you



STUCO
SOURCE

What is Student Council doing for you this year, you might ask? Well, to start the school year off, Student Council will be having its first blood drive of the school year on September 15 and 16. Come on over to the University Center East and donate. The Red Cross will be there from 11:30 to 5:30 on both Wednesday and Thursday.

Applications for the Equipment Fund and Club Appropriations are available in the Student Council office. The Club Appropriations Applications are due on September 9 at 3:30 p.m. The applications for the Equipment Fund are due on September 24 at 3:30 p.m. The voting on Club Appropriations will be at the StuCo meeting on September 28, while the voting for the Equipment Fund will be at the StuCo meeting on October 12. All StuCo meetings are at 6:30 p.m. in 204 McNutt. Some other events coming are the T. J. Tunnel Painting Contest and the Rolla Nite. If you have a campus question or complaint, please bring it to the Student Council office, or send it with your representative to the Student Council meetings, and we will try to find an answer for you, or get the problem solved!

St. Louis Symphony to perform



News Services
SOURCE

The Saint Louis Symphony Orchestra opens the 1993-94 University of Missouri-Rolla Campus Performing Arts Series season with an 8 p.m. performance.

The orchestra will perform Friday, Sept. 10, in UMR's Leach Theatre of Castleman Hall, 10th and Main streets. This is the first performance of the 1993-94 season of the orchestra's annual concerts throughout Missouri. The performance is sponsored in part by the UMR campus Performing Arts Series, the Missouri Arts Council with assistance from the National Endowment for the Arts, and a grant from the Union Electric Co.

Tickets go on sale Friday, Sept. 3, for \$15 for adults and \$10 for youths 18 and under. Tickets are on sale for \$10 for UMR students with a valid student identification. For more information call 341-4219.

Prior to the performance, Janet Turkovic, general manager of public radio station KUMR, will discuss the music to be performed that evening. The discussion begins at 7:20 p.m. in Room 138 of Castleman Hall.

See Arts, page 18

Sci-Fi con- vention at Collinsville



News Services
SOURCE

Beaming into Collinsville, Illinois the weekend of September 24-26 is EPSILON ALPHA '93. Sponsored by MASFA, the Memory Alpha Science Fiction Association (a local fan-run not-for-profit organization), EPSILON ALPHA '93 will be the largest science fiction convention for the greater St. Louis area in '93 and will be held at the Holiday Inn in Collinsville, Illinois - ten minutes from downtown St. Louis, Missouri.

Unlike other science fiction conventions recently in St. Louis, EPSILON ALPHA '93 boasts four stars who will be available throughout the entire weekend. Guest star is Todd Bryant (Klingon Captain Klaa of the Star Trek motion pictures). Also starring are Ike Eisenmann ("Star Trek II: The Wrath of Khan"), Jeff Marcus (of the TV series "Alien Nation"), and John Haymes Newton (the original superboy and costar of the new TV series, "The Untouchables," and the major motion picture "Alive").

EPSILON ALPHA '93 will also feature many other events throughout the weekend, including banquets,

See Sci-Fi, page 19

Order of the Engineer ceremony to be performed by NSPE



NSPE
SOURCE

The UMR student chapter of the National Society of Professional Engineers (NSPE) will be sponsoring the Order of the Engineer ceremony in November 29th for all engineering students graduating in December.

The Order of the Engineer is an organization whose mission is to foster and preserve pride, dedication, and ethics within the engineering profession. A student is inducted into the organization by acceptance of an "Obligation of Ethics," and symbolizes this commitment by wearing a stainless steel ring on the little finger of the working hand. The ring serves as a reminder to all who see it that an engineer "is dedicated to his/her profession and the public it serves."

This ceremony was once offered to graduating engineers at

UMR, but in recent years has not been available. Performed at most major American and Canadian universities with engineering curriculums, the ceremony is a tradition which NSPE would like to sponsor for UMR students once again.

To sign up for the ceremony, please note the following information:

Ceremony Time: Monday, Nov. 29, 1993; 8:00 p.m.
Eligible Students: All students graduating in December with an engineering degree.
Fee: \$7.50, which includes a certificate, lifetime membership, and steel ring.
Or \$2.50 certificate and membership only.

Where to Apply: 101 ERL at the secretary's desk
When to Apply: Sept. 14-17, 20-24; 8:00 am - 4:30 pm

If you have any questions, contact Chris Mueller at 368-4321.



Sports

The Business of baseball

Travis Dunnington
Staff Writer

There has been much discussion lately on why baseball is losing its popularity to basketball. Many people say that this has much to do with marketing. All of the major shoe companies have invested many millions of dollars on promoting such basketball stars as Michael Jordan, Shaquille O'Neal, and Larry Johnson. This advertising has paid off in a big way for the shoe manufacturers as kids are literally killing each other to wear the overpriced footwear of the stars. But enough about basketball already. Baseball can't compete with basketball on the shoe front, anyway. As one observer noted, kids can't walk around malls in baseball spikes. In order to retain its title as the national pastime, baseball must draw on the loyalty that it was originally built on.

Lately, though, baseball has been shooting itself in the foot. The loyalty of lifelong Cardinals fans has been waning as the Cardinal ownership's commitment to winning is questioned. The Cardinal management is on a tight budget enforced by its owner Anheuser-Busch. The brewery expects all of its companies, including the Cardi-

nals, to remain self-sufficient and not become a burden to the parent company. The Cardinals, while sticking to their budget, have incurred the wrath of many fans. It is a widely held opinion in St. Louis, that if the Cardinals had been willing to spend more money, they might still be battling it out with the Phillies for first place.

At the all star break this year, the St. Louis Cardinals and the Atlanta Braves were two very similar teams. The Cardinals were playing much better than anyone had thought they would but were still more than five games behind the surprise Philadelphia Phillies. The Braves had overcome a terrible start and were beginning to play the way that everyone had expected, but they, too, trailed a surprisingly torrid San Francisco Giants team by nearly ten games. The Braves, though, were having a problem scoring runs. They couldn't count on beating teams 1-0 or 2-1 for the rest of the season, even with the best pitching staff in the world. The Cardinals, meanwhile, were having no problem scoring runs but their bullpen, made up of a cast of has-beens and never-will-be's was beginning to show its true colors. If the Cardinals and Braves were going to challenge for lead in

their respective divisions they would need an injection of new players to provide the missing ingredients.

While it was apparent that both of the teams' executives realized their team's needs, only one had the financial backing to act on filling those needs. The Atlanta Braves, owned by cable-TV czar Ted Turner, quickly authorized General Manager, John Schuerholz, to go out and obtain a player to pep up the failing offense. Schuerholz, being the shrewd baseball executive that he is, happily took

slugger Fred McGriff off of the San Diego Padres hands for some expendable minor league prospects. While most baseball people quickly recognized the deal as being incredibly one sided in favor of the Braves, the Padres General Manager had no choice but to trade McGriff and his 4 million dollar a year salary in an attempt to cut the Padres operating expenses. (The Padres ownership has decreed that their payroll would be cut almost in half by the end of the season.) The Cardinals, their hands also tied by a lack of funds, were forced to stand idly by as relief pitcher after relief pitcher was dealt during the last month and a half.

The McGriff deal paid immediate dividends for Atlanta as their offense led by McGriff's power ripped pitching staffs apart, all of this culminating in a three game sweep of the Giants in San Francisco. It was not McGriff solely, though, that led to the Braves turnaround. The acquisition of McGriff had the Braves players believing that management would do all it could to help them win the pennant. The improved play of the Braves was symbolic of the whole organization working together to reach a goal. The Cardinals, on the other hand, failed to get a pitcher and in a way seemed to let their players down. Although names such as Les Lancaster, Lee Guetterman, and Rob Murphy might have

Cardinal management, however, isn't totally to blame for their own inactivity. Even though it is hard for some fans to understand, baseball is first and foremost, a business. The Cardinals just don't have as much money as the Atlanta Braves, who are run basically as a hobby by Ted Turner. They can't afford to plunk down millions on a player such as Tim Lincecum who provides no insurance that he will even return next year if he doesn't receive sufficient compensation. Unless baseball players and owners can somehow look past their normally greedy ways and agree on revenue sharing and a salary cap, smaller market and poorer teams are destined to always be fighting an uphill battle



Drett Samler

Lisa Molner dribbles past an opponent in this week's action

Cross country season starts

Joe Hornburg
Asst. Sports Editor

R. Untereiner	12th	28:54
J. Teiken	13th	29:06
C. McCauley	14th	29:08
K. Schwalje	18th	29:42
S. Young	19th	29:50
B. Collingham	23rd	30:38
B. Etien	24th	30:58
J. Andrews	25th	31:01
E. Achelpohl	28th	32:03
S. Winsett	29th	32:04

Lindenwood	1st	34pts.
UMR	2nd	36pts.
Olivet Naz.	3rd	58pts.

UMR also had good performances in the women's competition at Lindenwood. Becky Wilson placed 2nd with a time of 20:07 for the 3.1 mile course. Two other UMR runners with strong races were Jennifer Frazier and Karen Rainey. They finished 6th and 16th with times of 21:18 and 24:58 for the course. UMR is hoping to have a full women's squad for later in the season.

Coach Preston was again happy with the performances saying, "The biggest surprise on the women's side was Jennifer's race. She was injured this summer. I felt like her competitiveness showed through in the race. Becky had her usual solid performance." Team totals for the women's race were not available. The next meet for the Cross Country teams is Saturday, September 11th at SIU-Edwardsville in the Cougar Classic. Keep reading the MINER for further reports on the Cross Country teams.

UMR coach Sarah Preston was pleased with the job her team did, saying, "I was thrilled with Hostetter and VanDerWall's performances with them not being in a cross country competition for a year. I knew they were capable, but it is nice to see them do it. Freshmen Untereiner and McCauley both had good first college performances. Teiken, Schwalje, and Young showed improvement from last year in good early season performances. Etien not being 100% hurt our team score. I hope this is a short term setback." The team scores were:

On Saturday, September 4th the UMR Cross Country teams travelled to St. Charles, Mo. to compete in a three team meet at Lindenwood College. The other team at the meet was Olivet Nazarine. UMR had runners competing in both the Men's and Women's races.

In the Men's race UMR had 12 runners taking on the five mile course. Summer conditioning paid off for the Miners. UMR was led by a pair of Seniors, Steve Hostetter and Rob VanDerWall, who finished first and third place respectively with times of 27:14 and 27:52. Both Hostetter and VanDerWall sat out of last year's season. The rest of the team's places and times were:

gained the confidence of some Cardinal fans, many of the other Cardinal

players knew that it was only a matter of time before the ill-fated bullpen began to hurt the Cardinal chances of winning the pennant.

The Cardinals quickly became two groups working to different ends. Cardinal management was trying to keep attendance up and keep within their budget, while the players seemed to be spitting into the wind by trying to win ballgames with a bullpen adept at pouring gasoline onto fires. Eventually, the team completely collapsed, and management in another cost cutting move traded one of the few members of the bullpen with any semblance of talent, Lee Smith. The Cardinals had officially thrown in the towel on a disappointing 1993 campaign.

with teams that have the financial resources to resurrect Babe Ruth and put him in uniform.

Under the current scenario, small market teams like the Padres and Milwaukee Brewers lack the resources to even keep their current star players, let alone acquire any new ones. The players can't be held responsible for leaving these cities for better money, seeing as they have families to provide for and a limited amount of potential earning years. But, if this trend continues, no one can expect the fans to be loyal to team that are forced by finances to dump star players and start over with unproven rookies year after year. It is high time that the owners and players get together to even up the playing field and allow fans to forget about the real world of big business and once again enjoy the simplicity and tradition of the game they grew up with.

Sel(1)es and Seedless

Agassi...Gone. Edberg (defending champ)...Gone. Lendl...Gone. Seeds continue to fall in early rounds.

It's another wide open Open. Well, at least on the men's side.

The absence of Monica Seles in recent months has really hurt women's tennis. Besides Miss Graf, she is the only other consistent, hard hitter on the tour. No one in The Open, besides Sanchez Vicario, has a remote chance of even taking a set from Graf. The fans even lost their two 'little girls'. Jennifer Capriati and Lisa Raymond both went out in the early rounds.

What's wrong with this? Graf is one of the most dominating women to ever play the game. She is an intense, brilliant shot maker and it should be a pleasure to watch her matches. But somehow the three-shot rallies and 6-2, 6-1 thrashings get old. Without Seles, the rest of the women's draw is not worth your time. The tourney will follow seedings almost exactly until maybe the semis. Graf will continue to win without much competition, and that'll be that. With Seles back, gaining a sense of the two women's attitude and preparation going into the final would bring some clout to the early round matches. The only hope the rest of the women have is that Graf plays poorly and loses a match. No one in The Open will beat her except herself.

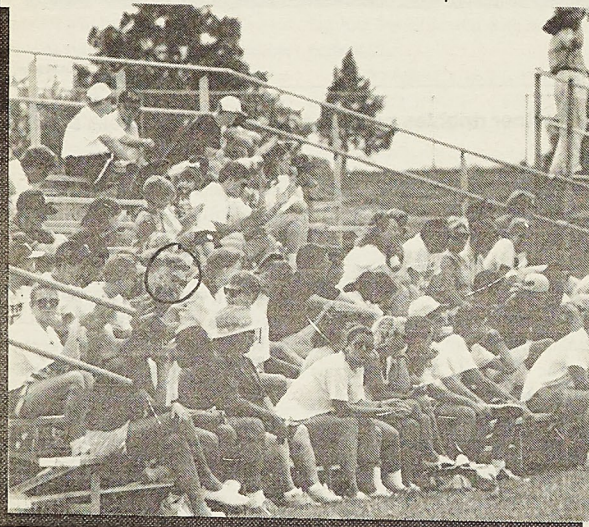
On to the men's draw...

There will be a new champion. Edberg looked hideously unprepared for his second round match, killing his chances to repeat. Agassi again lost the mental edge. Buigera had diarrhea. Lendl had knee problems (no big loss there). Oh well, at least there were no stabbings...

Where's the flair this year? Who will be the Prince of the Open? Jimmy's ghost has to be disappointed with Flushing Meadow's attitude this year. McEnroe's antics on the court are much more entertaining than his commentary. Sampras has as much style as Bud Collin's hair (but more than his mouth). Boris...baby. Courier, however, is beginning to get some fire: arm pumping, screaming, tossing his racquet.

By Aaron Boyll

Fan in the stands



Brett Saunier

If you are the girl that was caught picking her nose, come to 103 Norwood Hall on Thursday at 5:00 to claim your really cool prize.

College football top twenty

Bill Broyles
Staff Writer

1. Alabama

The defending national champs could be better this year. They have the country's best defense. Their weakest position is quarterback, Jay Barker, and all he has done is go 17-0 as a starter. With David Palmer and Antonio Langham, the Crimson Tide will roll to another National Title.

2. Florida State

Led by Charlie Ward, the Seminoles are loaded. They started the season by routing Kansas 42-0 in the Kickoff Classic.

3. Michigan

With Heisman Trophy candidates, Tyrone Wheatley and Derrick Alexander, the Wolverines should capture the Big-10 title.

4. Syracuse

Led by Marvin Graves, the Orangemen will beat Miami and claim the Big East Crown.

5. Florida

Erict Rhett is the best running back you never heard of. He will carry the Gators to a showdown with Alabama.

6. Texas A&M

The Aggies always play tough defense

and with Greg Hill at tailback, they will score enough points to win the Southwest Conference.

7. Miami

The Hurricanes are reloading, but face tough tests from Florida State, Syracuse, Colorado and Boston College.

8. Notre Dame

The Fighting Irish lost their entire backfield to the pros. They still should have enough to play on New Year's Day.

9. Tennessee

If Notre Dame had the best backfield last year, the Volunteers have it this year with quarterback Heath Shuler and tailbacks Charlie Grier, James Stewart, and Aaron Hayden.

10. Colorado

Michael Westbrook and Charles Johnson are two of the best receivers in the nation. They should be the spark in the Buffalo's explosive offense.

11. Stanford

Bill Walsh will try to get the Cardinal back to the Rose Bowl. He should get the most out of quarterback Steve Stenstrom.

12. Washington

Received stiff penalties from the Pac-19, but still have a load of talent.

13. Nebraska

The Cornhuskers have to answer some questions regarding their defense. If

they can fill these holes, they could go undefeated in the regular season before losing to a Florida team in the Orange Bowl.

14. Georgia

If Garrison Hearst and Andre Hastings hadn't turned pro early, the Bulldogs could be competing for the national title. They still may have the country's best quarterback with Eric Zeier.

15. Ohio State

The Buckeyes could be 10-0 when they meet Michigan in the season finale.

16. Penn State

Joe Paterno wears out his welcome to the Big-10 early. They don't, however, have enough to win the conference, this year.

17. Baylor

J.J. Joe, Robert Strait, and Brandell Jackson hope to lead the Bears to challenge Texas A & M.

18. North Carolina

The Tar Heels destroyed USC in their season opener last week.

19. San Diego State

The Aztecs will score points with Heisman front runner Marshall Faulk. Their season depends upon how much their defense improves.

20. Boston College

The Eagles matured last year and should surprise some teams this year.

Let The Games Begin!

Shawn Erdmann
Staff Writer

Every year as Fall rolls around, everyone gets excited about the upcoming sporting events. People start planning Super-Bowl, tailgate, and other Miner parties. Well it's finally time to "Let the good times roll."

The UMR Cross Country, and Soccer teams have already kicked off their season! The Cross Country team traveled to Lindenwood College (St. Charles, MO) this past Saturday to kick off their season, and have more meets coming up soon. The Men's Soccer team also started their season last Saturday, playing against Missouri Southern (Joplin, MO). Both Men's and Women's Soccer teams competed Monday, against Northeast Missouri State, here at Rolla. Unfortunately, none of the scores were available at the time of publication, but will be in next week's issue.

The Men's and Women's Soccer teams have a tough schedules this year. Each team has seventeen games to play in, and sometimes only have one day between games to rest and

recuperate. I don't know how they do it! This should be a good year for the Soccer teams, because they have quite a few returning members and a lot of talented freshmen, some of which are Rolla natives. Look for some of their upcoming events and help cheer them on!

*Anyone interested in traveling to Topeka to see our UMR MINER FOOTBALL TEAM play against Washburn, Sept. 18th, please call 364-0817 and ask for Shawn. I am trying to get a pep bus together so we can help cheer them on and show our support. We need at least 40 people to sign up, and the cost will depend on how many people there are, but shouldn't be too expensive. I realize Derby Days Dash falls on the same day, but shouldn't interfere because the football game doesn't start until 7 p.m. So call now, and sign up to find out more information. Deadline to sign up is Sept. 12. (Which Fraternity or Sorority has the most Spirit?)

Upcoming UMR Sport Events

Sept. 9 — Men's Soccer vs Southwest Missouri State, 4 p.m. at Spring-

field.

Sept. 10 — Cross Country (Invitational) vs CMSU, at Warrensburg. Time is TBA.

— Women's Soccer vs Colorado Christian, 7 p.m. HERE.

Sept. 11 — Men's Soccer vs McKendree, Noon HERE.

— UMR Football vs Iowa Wesleyan, 1:30 p.m. HERE.

Sept. 12 — Women's Soccer vs Quincy, 2 p.m. HERE.

Sept. 15 — Women's Soccer vs Southwest Baptist, 5 p.m. HERE.

— Men's Soccer vs Southwest Baptist, 7:30 p.m. HERE.

Other Upcoming Sport Events

Sept. 11 — PCRM 5K Walk-Run, Ber Juan Park, cost is \$7. For more information, stop by 1000 W. 10th St.

Sept. 18 — Derby Days Dash, 5K & 10K Run, preregistration costs are \$6 for 5K and \$8 for 10K. Day of the race costs are \$7 and \$9. Contact Sigma Chi at 364-1433, for more information.

Sept. 26 — Rolla Community 10K Crop Walk, participants obtain sponsors to pledge donations. Call 364-0817, for more information.

The Captain Goatee weekly review



Captain Goatee
Staff Writer

This week: Interview with Greg Humphreys of Dillon Fence plus concert info and the KMNK music charts.

Afternoon folks, here's my interview with Greg of Dillon Fence. Dillon Fence's latest release, Outside In, took 9 of 10 goatees last semester. They feature great pop melodies, nifty harmony, and a little bit of that harsh and "Sugar"y sound thanks to the help of Lou Giordano at the producer helm.

I went to go see them open for X at Mississippi Nights this summer, but only got the interview. A mess up at the door meant they didn't have my name. Oh well, I got to see Greg and the boys warm up and also do a song or two as I tried to get the bouncers to let me in instead of beat me up.

Cap: Now, you're Greg?

Greg: Yes.

(What a lead-in, eh?)

Cap: Do you write most of the music?

Greg: Yeah. I usually write them. And then we get in rehearsal and sorta arrange them. Give them a little more structure.

Cap: Yeah, how do you go about writing songs?

Greg: I usually write them with an acoustic guitar, and sometimes I write

them on a four-track. I have a four track, and I mess around with different instruments. It's fun.

Cap: That's cool. Now, how was working with Lou Giordano?

Greg: It was really great. He was a very creative producer. He had good ideas, but he was also open to our ideas and didn't quash our groove. Added directions we had for songs. Yeah. Overall it was just a real collaborative process. It was a really fun, fun way to make a record. Relaxed.

Cap: Now, who does most of the singing? Do you?

Greg: I am the main singer, but we all do harmonies on the album. Chris and Kent mostly, and then Scott added some too, the drummer.

Cap: Yeah, I like the harmonies. They are a little distinctive.

Greg: Thanks. We spent a lot of time on this album layering harmonies and really making it sound rich and full. Which is something I wish we had spent a little more time with on Rosemary.

Cap: How much of the sound on Outside In is really like you are live? How close to it?

Greg: It's really close. Definitely the way we laid down the tracks was just more of a relaxed? You know, non-pressurized situation. Just upholds the way we sound on stage. Because we're real comfortable on stage, just walking out and playing.

And also, it's a little bit grittier, a little rougher at the edges which is just more like we come across live. On Rosemary, I don't know. It's just the edges just got polished up a little. Which makes for some good pop, but it doesn't really reflect exactly what we're about.

Cap: Ok, the song "Lisa Marie". What's it about, or who's it about? Is it about Lisa Marie Presley?

Greg: Well, I guess that's a cool inference, but actually, the song's supposed to sort of suggest just a moment. You know. Just trying to build a song just around a single moment. It's really cool to do because you can build a lot from that. You can tell a lot about that moment in a three minute song. Rather than like trying to encapsulate your world view into it. But the name actually came from Chris. He had a friend named Lisa Marie, and that really just keyed. It hit me, "what a great name that would be". It's so full of imagery. You know.

Cap: Well, I listened to the lyrics on it and knew it couldn't be Presley.

Greg: Yeah, it's definitely from a feeling I've had in the past you know. It's definitely from an experience I've had but not directly.

Cap: Ok. Why did you choose the origami for the album cover?

Greg: Well, we were just trying to come up with an idea or a cover concept that sort of suggested what the year had been like for us and where we had been and what we had done. You know, cause that's what the music

does in a lot of ways.

And, I do a lot of origami as sort of a nervous habit. I inherited it from my mom because she's an art teacher and that's one of her projects that she always gives kids. So we went through the van on a road trip and just tried to find things that were interesting or had something to do, or something to say, about just the trials and travails we had been through from the year.

It was a hard year, a lot of touring, and not a lot of support. We went through some hard times, but I guess the origami sort of reflects that. The bent over man is a figure. It's called a "praying moor" actually. And it's a page from our road map, and it's like the North Carolina page. Which we've driven on all those highways many times. And then the grasshopper is a reckless driving ticket that I got on my way back from a show. And the bulldog is a page from a Ren and Stimpy comic that's been laying around the van for a while. And the rooster is a placemat from a T.G.I. Fridays. A shitty restaurant that we ate at. The swan is a page from a dictionary. The penguin on the inside is traditional origami paper, but we just liked it.

And the one back cover is an old love letter that a guy that does the art for Mammoth found in a shoebox. He found a shoebox full of this correspondence from the 30's or 40's between these two people. I think that idea, that one really says a lot about what we try to do with songs. It's just like taking something ordinary or plain or simple

emotions and just turning it into something that's, you know, that's beautiful.

Cap: That's neat, each little figure incorporates part of your journey along the way.

Greg: Yeah, and that's part of the reason we named the album Outside In. Partly because of the way that the record flows, but also because of, a lot of our music in the past just dealt with writing pop songs and just sort of the outside world. And this album is more turned inward, and just trying to figure out what we want to do. I guess it's just more of an album of expression I guess.

Cap: Since we're on the topic of names, how did you pick the names Dillon Fence?

Greg: Well, when we first started the band, we were just trying telling stories. Trying to figure out something. There was a story from couple of my high school friends who had told me about this fence in Dillon, South Carolina on Highway 10 next to the Stone-wall Jackson Motor Lodge.

This guy built this crazy fence out of the junk in this junkyard to scare kids away because it was across from a school, and the kids used to come and walk through his junkyard. And it was made out of all these old wagon wheels

see Goatee, page 17

SUBConscious



SUB
SOURCE

Here are the events that your Student Union Board has toiled to bring for your entertainment this week:

Wed., Sept 1 - Campus Show-case: SUB will be just one of dozen and dozens of campus organizations out by the Hockey Puck from 9 am to 2 pm standing by to show you what they have to offer. In addition, SUB will have the Cash Cage, where you literally get all the money you can get your hands on, and Human Bowling, where you can experience what it feels like to the Bowling ball!!

Fri. & Sat., Sept. 10 & 11 - SUB Movie Series presents James Bond Nite at ME 104 at 7 & 9 pm. Sean Connery stars as the original (and best) master spy in the classics "From Russia With Love" and "Diamonds Are Forever."

As you know, SUB consists of seven "sub"-committees. Each

week, this article will focus on one of those committees and let you know what it's all about. This week our focus is on Fine Arts, directed by Sara Tenney.

First of all, don't be fooled by the name. Fine Arts does schedule stuff like Shakespeare plays (Taming of the Shrew, The Tempest), but they're certainly not limited to that "artsy-type stuff." F'Arts also brings comedy groups like the very popular Second City; distinctive bands like Acme Vocals and the 21st Century Steel Band; cultural and informative acts, such as the Mahotelli Queens and Traveling Talons, an exotic bird show; and exciting lectures such as "Who Shot JFK?" and the upcoming "Hot, Sexy & Safer."

As you can clearly see, the Fine Arts folks up here at SUB aren't just a bunch of Dickens-reading, Mozart-listening, ballet-watching dullards; they're fun people who program fun, exciting stuff just for you! And you know what? You can join the F'Arts group and help decide what kind of stuff YOU want to bring. So pick up that phone and give SUB a call (341-4220). We'll be waiting for you.

SUB Movie Review



SUB
SOURCE

Time again to consider whether or not to go to the SUB movies this weekend. The two movies are James Bond films starring Sean Connery and not that wuss Timothy Dalton. Let's face it, Sean Connery kicks (Axil's) ass! Yeah, and Dalton sucks too, his number should be double-O-wuss! Anyhow Sean Connery (who by the way still gets babes even though he's old and gray) is her majesty's number one secret service agent again in two old favorites: From Russia with Love, and Diamonds are Forever.

The first movie, which is truly the second Bond movie, was directed by Terence Young and get this—it is not rated, ya know what

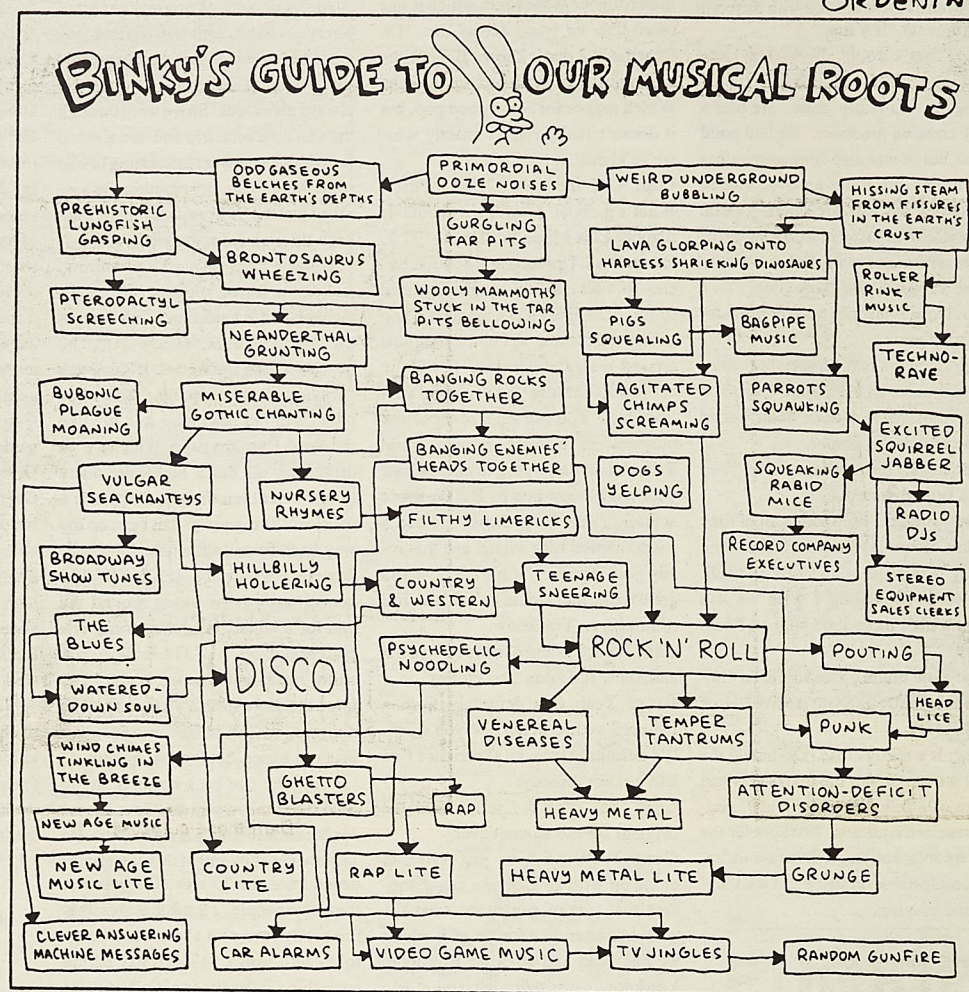
I mean (Va-vu-vu-vu)? Anyway some ruskus chick tries to trap our hero using sex while her pissed-off boyfriend can't understand when they agreed to see other people that meant her too. So he decides he wants to kill Sean and just about anyone else around (pretty cool guy in my opinion). It all ends up on a hair raising (or in Sean's case hair receding) climax (see why it wasn't ever rated?) on the orient express (Agatha Christy sucks).

The second James Bond flick to be shown will be the one that worth two month salary. Hey people, what else is a diamond good for except to say "HEY, ROB ME PLEASE!" I mean, let's face it, it works great on saws and cutting tools but for ornamentation? Talk about useless, all it is a rock that cost more money to appraised and is given to someone to make them think you love them. What a con the diamond industry has pulled on the world (they have been stock piling the stuff

for years and (as you know) if they sold it all now the see though crap will be worthless)! Let me tell you that the fact that I hate this stuff (diamelle zarconia is just as pretty and about as rare) means I won't waste large amounts of cash on some stinking diamond czar. James Bond is just the same (he knows what's up) but still he must stop some diamond smugglers. Why would he do that if he knew all I have just shown to you? simple, job security. Hey, it's 1971, not much has gone on and it is time some exotic new Bond girl, what else could he do? I felt for you James, you know I did. This movie was directed by some Guy named Hamelton and is rated PG (hey, this was still before the PG-13 rating came into effect). And if the diamond industry thinks I'll wait two months to buy my lovely diamonds, maybe I'll get her a nice core drilling set.

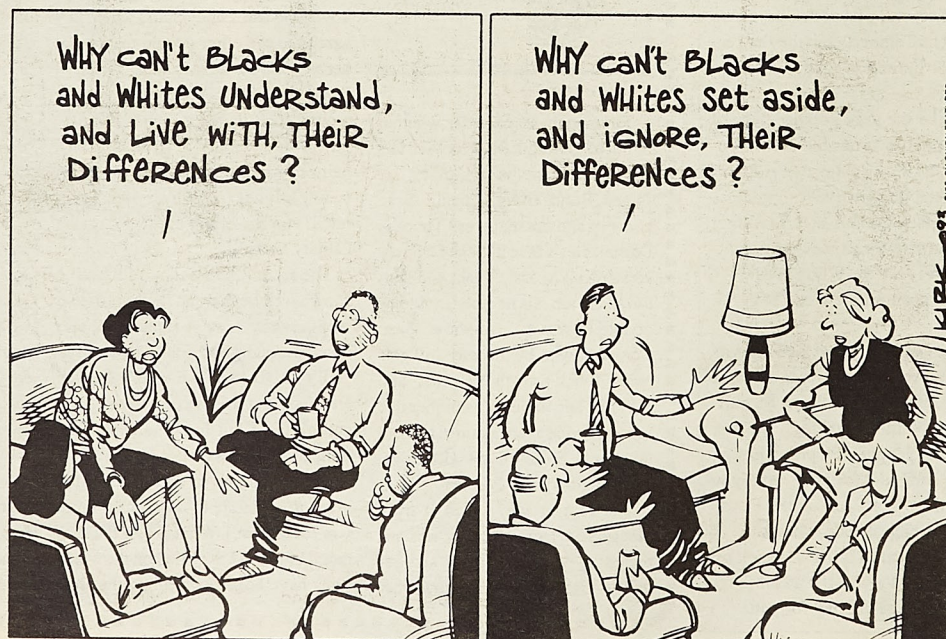
LIFE IN
HELL

©1993
BY MATT
GRDENING



ONION

features syndicate



CHAOS

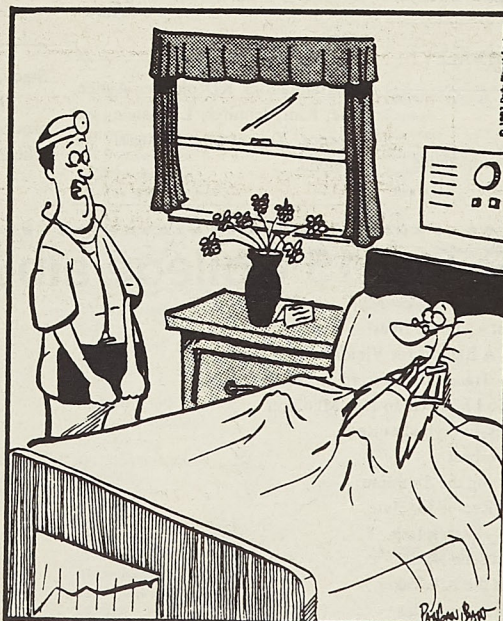
BY BRIAN SHUSTER



"Darn these cutbacks!"



"Apparently, some kids hooked up your grandmother's pacemaker to The Clapper."



"Well Mr. Wilkins, we were able to save your life, but I'm afraid we had to give you a heart from a duck...and a duck's kidneys...and, well, look, I've got to be honest..."

Campus Gossip

Miscellaneous

Roommate needed, \$125 a month, share utilities and other expenses. Own bedroom with common kitchen, living room and bathroom. Call 364-0766, 341-9076, or 364-3951.

Time Confines

Time confines
Pushing in from both sides
Kicking from behind
Forcing me to march with it
Sometimes I run to get ahead
But it always catches up
No matter how much I struggle and strain
I am made to go along
If I could only lift my feet and leap
I would be free of its slavery
But alas I must fall back down
And land upon its ground
Again time confines

Time Rider

Entertainment Center, asking \$50; T.V. - Stereo Stand holds 20 inch T.V., asking \$25; Kenwood Stereo, 100 watts per channel, Dolby Surround Sound Single Tape Deck, autoreverse, single C.D. Player. Age = Fall '92, asking \$500 firm, 341-8417.

Personals

To K. Bridges

HAPPY BIRTHDAY!!!!

P.S. I couldn't help but remember, seeing as you reminded me everyday!

SUPPORT MINER FOOTBALL!!!

Mike —

Watch out for the mudpuddles!
B.O.D.

Mike —
Dumbass

T & S

KD — Get Psyched for Soccer Smash 1993.

Doug,
Come over and see us. We promise to be here when you do.
S. and S.

Zeta,
Get psyched for 20th Anniversary!

Sigma Pi,
Thanks for the cool beach party!
ZTA

Karen & Brandi,
It's time for the livestock report.
Your Roommate

Karlynn,
Congratulations on your Initiation. You are a wonderful granddaughter.

AOT,
YBBS

Denise,
I miss my grandma already. Come visit me more often. We have to party sometime before we graduate.
AOT,
YLLS

Chrissy and Julie,
Thanks. You guys are the greatest. Can't wait till you have a party.
Love in KD,
Annex

people

Congratulations KD pledges Aimee, Julie, Kim, Jennifer, Laurianne, and Rebecca. You are the greatest. We love you.

Sarah,
Don't Stress! I'm sure the house won't fall apart.

Hey Cassie,
Hope you had a great Birthday!
ZLAM,
Tara K.

Hey Angie,
Watch out for that T! (But it tastes so good.)

ZLAM,
Tara K.

Stacey,
You're an awesome pledge! I had so much fun being your buddy on bid day! Have a great semester.
ZLAM,
Heather

EM —
Hope this week is really special for you! You're going to be a great Zeta!

ZL,
YRMs

Amy Y.,
I hope this week is really special for you.

ZL,
YBS

Amy Lou —
You are the coolest Zeta! Thanks for the support. I LUV U!
ZLAM,
Jill

Lissy,
U R a Groupie in a BIG WAY!
ZLAM,
J.S.

Stacy, Emily, Kelly,
Thanks so much for driving me around and letting me borrow your wheels!! You guys are great!
ZLAM,
Tara

Christine P. is a way cool Zeta! (for old times sake.)

Ketch is dying to dance.

Chris,
Thanks! I'd say we're on our way to the secret semester goal!!
ZLAM,
YLS

Karen, Chris, & Tara have the coolest family.

Gaylen,
Congrats on getting initiated!! You'll make a great Sigma Nu!!
— YBS

Christy & Christy,
You guys are way cool!!
ZLAM,
your roomie

Christy E.,
Well, DUH!!
ZLAM,
Kim

Zeta Pledges are way cool!

Hey Zetas! Get psyched for an awesome 20th Anniversary!

Zeta luv's their Alumnae!

Candy & Denna,
You guys are awesome roomies!
ZLAM,
The roomie

from H_ _ _!

Kim,
Don't forget. We're quality, not quantity!

ZLAM,
YBS

Kappa Sig,
Thanks for the awesome surprise breakfast!

ZTA

C and EM —

You guys are the coolest roomies! I hope your luck rubs off on me this semester — a dozen roses wouldn't be bad!

ZLAM,
H

Kri —
I'm so glad you're back this semester! Sorry I haven't been partin' with you yet... at least not when you've remembered it!

ZL,
Hea

Doris —
We're here if you need us! We love you!

Zeta

L —
Thanks fer always thinking about me! And especially fer the dozen!
— Your brown-eyed girl

Sarah —
I miss you! We must extend our ritual to the newest meatloaf as well as Wildwood!

— Lisa

Deena —
Your welcome! Don't be a stranger!

ZLAM,
YLS

Anika —
You're an awesome pledge! I hope everything is going well for you! I'm here if you want to talk!

ZLAM,
Lisa Madisen

Mander —
I miss you lots! Call me!
— Lis

Thanks for the help Fridley!

The Staff

KMNR Top 15 College albums

1. The Juliana Hatfield Three - My Sister
2. Matthew Sweet - Altered Beast
3. Sweet Relief - A Benefit for Victoria Williams
4. Flaming Lips - Transmission from the Satellite Heart
5. Soundtrack - So I Married an Axe Murderer
6. The Cranberries - Everybody else is...
7. The Bats - Silverbeet
8. Shelter - Attaining the Supreme
9. Bad Religion - Recipe for Hate
10. The Breeders - Last Splash
11. Cracker - Kerosene Hat
12. Fugazi - In on the Kill Taker
13. UB40 - Promises and Lies
14. Primus - Pork Soda
15. Smashing Pumpkins - Siamese Dream

KMNR Top 10 Rap Charts

1. Scarface - Let Me Roll
2. Cypress Hill - Insane in the Brain
3. Ice Cube and DAS EFX - Check Yo Self
4. Soundtrack - Menace II Society
5. Run DMC - Ooh, Whatcha Gonna Do
6. Boss - Recipe of a Ho
7. Raw Breed - Rabbit Stew
8. Fu-Schnickens - What's up Doc?
9. Kris-Kross - Alright
10. Diggable Planets - Nickel Bag

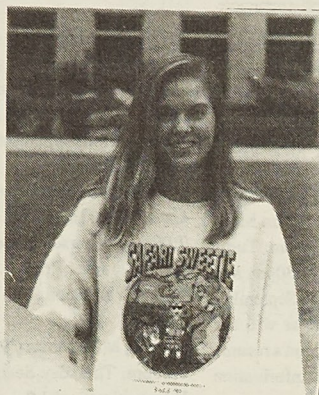
UMR opinions on campus

When asked "If you could shave anyone's head, who's head would it be?" these students responded:



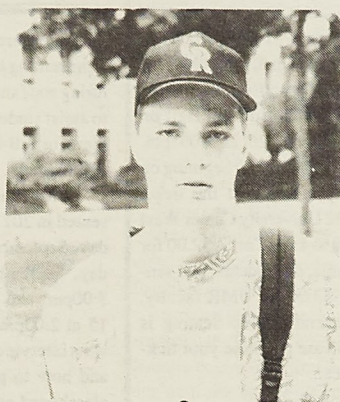
"Bill Clinton"

Carrie May, freshman



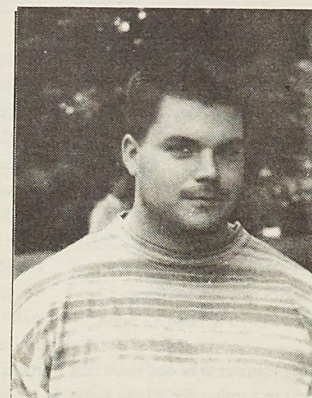
"Bill Clinton"

Christin King, junior



"Don King"

David Leeper, freshman



"Axel Rose"

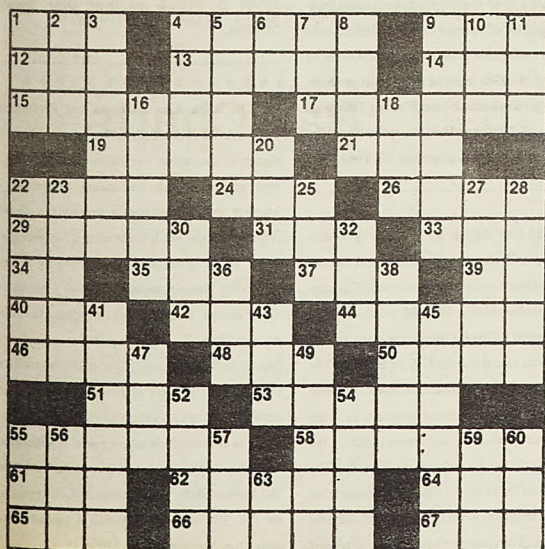
Mark Nelson, grad student

Photos by Brett Saunier
Interviews by Amy Ruhland

Do you have a question you would like us to ask for *UMR opinions on campus*? Drop a letter in the Miner mailbox at 103 Norwood Hall with your question (and your name if you want it published).

Time Killers

Crossword Companion



ACROSS

1. Color
4. Nobleman
9. Disallow
12. Ever (poetic)
13. Positively charged electrode
14. Employ
15. Haying
17. Temperature measurement
19. Below
21. 2nd smallest state (abbr.)
22. Part of book
24. Equip
26. Final
29. Watchful
31. Beaver construction
33. Each
34. Sodium symbol
35. Sesame plant
37. Night mammal
39. Prosecutor (abbr.)
40. Attempt
42. None
44. This day
46. Calif. fog
48. Tic — Toe
50. Cans
51. Lair
53. Ring-shaped roll
55. Vinegar
58. Mar
61. Girl (slang)

62. 2,000 lbs.
64. High rocky point
65. Editors (abbr.)
66. Make happy
67. The night before

DOWN

1. Rebel (slang)
2. Age
3. Come down upon
4. Musical group
5. Ire
6. Rood (abbr.)
7. Strange
8. Want
9. Coarse cloth
10. Chemistry suffix
11. Born
16. Unable to move
18. Mold
20. Banish
22. Slacks
23. Warning
25. Talk endlessly
27. Automobile
28. Servers
30. Can
32. Floor covering
36. Turned on lamp
38. Indian pole
41. Fluctuating singing voice (pl.)

43. Scientist's room
45. Expand
47. Purchase
49. Military student
52. Number
54. High wind
55. Eon
56. Unfriendly person
57. Western state (abbr.)
59. Government (abbr.)
60. Direction (abbr.)
63. Southern state (abbr.)

see Solutions, page 20

Tommy Chinese Dorsey Band Youth Group to perform to perform



KUMR
SOURCE

Public Radio KUMR and the Ozark Actors Theater are excited to present THE TOMMY DORSEY ORCHESTRA conducted by Buddy Morrow on September 16th, 1993 at 8:00 pm in the Leach Theater in Castleman Hall on the University of Missouri Rolla campus. Tickets are \$12.00 and are available by calling the Ozark Actors Theater at 364-9523 or stopping by the Ozark Actors Theater box office between 10 am and 12 noon.

This promises to be one show that Rolla will remember for a long time. The TOMMY DORSEY ORCHESTRA needs no introduction, having been one of the premiere Big Bands of the 40's. Now under the direction of Buddy Morrow, the TOMMY

See Band, page 18



Chinese Youth
Goodwill
Mission
SOURCE

The Chinese Youth Goodwill Mission from Taipei, Republic of China will hold a performance at the Leach Theater of Castleman Hall on Sunday, September 26 at 7:00 pm. Tickets may be purchased beginning on Tuesday, September 7 at the ticket window of the University Center West from 8:00 am to 4:30. Cost is \$2.00 for UMR Students, dependents, and senior citizens; \$3.00 for UMR faculty, staff and general public. Seating is limited, so please purchase your tickets in advance.

The 1993 Mission, made up of promising amateurs from Taiwan's colleges and universities, is making its 20th annual international tour. Its appeal to audiences stems not just

See CYGM, page 18

Career Opportunities Center offers new Fall Seminar Series for better interviewing skills



Career
Opportunities
Center
SOURCE

The Career Opportunities Center is presenting a Fall Seminar Series featuring staff and speakers from industry to assist students in preparing to interview for full-time, co-op and summer employment.

"Resume Writing" will be presented in 201 Norwood Hall on Monday, September 13 at 3:00 pm; Tuesday, September 14 at 12:30pm and 3:00pm; and Wednesday, September 15 at 2:00pm. This seminar will tell what interviewers look for on a resume and how to present that information clearly and concisely.

"Interviewing Skills" will focus on interviewing techniques that will present yourself the most positively to prospective employers. These seminars will be held in G-5 Humanities/Social Sciences on Monday September 20 at 4:30pm and Tuesday, September 28 at 11:00 am.

In addition to the seminars, several speakers from different companies will give presentations about topics relating to careers in industry today. Those scheduled in September include:

"Job Hunting is an Exciting Adventure"

Sigma Chemical Company, Nick Dalton

7:00pm, Thursday September 9, UCE Mark twain Room

"Resumes and Cover Letters"

Caterpillar Inc., C. A. Williams

7:00pm, Thursday, September 16, UCE Maramec Room

"Transition to the Work Force"

Armco, Mike Moats ('92 UMR Grad) 7:00pm, Thursday September 21, G-5 Humanities/Social Sciences

The final registration seminar for students wanting to apply for co-op, full-time or summer positions and who have not already registered will be presented tonight at 6:00 p.m. in the ME Auditorium to explain the new computerized system in the Career Opportunities Center.

Private pilot ground school offered



News Services
SOURCE

The University of Missouri-Rolla Department of Mechanical and Aerospace Engineering and Engineering Mechanics is sponsoring a private pilot ground school this fall through continuing education.

The course will be held from 6:30-9:30 p. m. Monday evenings, from Sept. 20 through Nov. 8, in the Mark Twain Room of the University Center-East on the UMR campus.

The fee for the course is \$95.

The course will be taught by Dr. Robert B. Oetting, UMR professor emeritus of mechanical and aerospace engineering and engineering mechanics.

For more information, contact Continuing Education, 119 ME Annex, UMR Rolla, Mo. 65401, or call (314) 341-4200.



Aid

Contest. The deadline for the contest is open to everyone, but seniors are particularly welcome, and entry is free.

"Many of our previous winners have come from the ranks of senior citizens," said Howard Ely, contest director, "Maybe it's because they have had the opportunity to experience the many things in life which provide the 'raw material' for artistic creation."

Any poet, whether previously published or not, can be a winner. Every poem entered also has a chance to be published in a deluxe, hardbound anthology.

To enter, send one original poem, any subject and any style, to the National Library of Poetry, 11419 Cronridge Dr., P.O. Box 704-ZI, Owings Mills, MD 21117. The poem should be no more than 20 lines, and the poet's name and address should appear on the top of the page. Entries must be postmarked by September 30, 1993. A new contest opens October 1, 1993.

Craig Michael Cullen has been named a first year fellow in the U.S. Department of Energy (DOE) Applied Health Physics (AHP) Fellowship Program administered by the Oak Ridge Institute for Science and Education's (ORISE) Science/Engineering Education Division (SEED).

The AHP fellowship offers an annual stipend of \$14,400, payment for tuition and fees for study

leading to a master's degree in applied health physics at a DOE-designated university program, and the opportunity to gain hands-on, practical experience in an applied health physics capacity at a DOE site during a three-month practicum.

Cullen will attend the University of Missouri at Columbia. He holds a B.S. in nuclear engineering from the University of Missouri at Rolla.

The AHP fellowship is designed to support highly capable students interested in pursuing a career in applied health physics. The program is open to U.S. citizens and permanent resident aliens who hold a B.S. degree in life or physical sciences, engineering or mathematics and who have not completed more than one term of graduate school at the time of application.

Continuing fellowship support past the first 12 months is based upon participant performance in the initial year and review of a renewal application.

SEED is currently accepting applications for 1994-95 awards. Applications must be received by 4:30pm Monday, January 31, 1994. Fellowship selection will be announced in mid-April 1994.

For application materials or additional information on the policies, procedures, and guidelines under which the program operates, please contact: The Applied Health Physics Fellowship Program, Science/Engineering Education Division, Oak

Ridge Institute for Science and Education, P.O. Box 117, Oak Ridge, Tenn. 37831-0117, or call (615) 576-9279.

The Science/Engineering Education Division, through work at all levels of education from K-12 to postdoctoral, seeks to increase the nation's supply of scientists and engineers; to broaden the participation of minorities, women, and the disabled in science and engineering careers; to enhance teacher preparation and faculty development; to strengthen cooperation within the academic community and federal laboratories; and to provide work force analysis, program evaluation, and technical assistance to federal agencies and laboratories.

The Oak Ridge Institute for Science and Education was established by the U.S. Department of Energy to undertake national and international programs in science and engineering education, training and management systems, energy and environment systems, and medical sciences. ORISE and its programs are operated by Oak Ridge Associated Universities through a management and operating contract with the U.S. Department of Energy. Established in 1946, ORAU is a consortium of 65 colleges and universities.

The Missouri Society of Telephone Engineers is offering one \$500 scholarship for the Fall,

1993 semester. The society will award this scholarship to one engineering student attending UMR. Our desire is that the student possessing the greatest financial need be awarded this scholarship, provided the student meets the following eligibility requirements. **Eligibility requirements:** He/She must be a junior or senior student enrolled in good standing in an engineering curriculum leading to a bachelor of science degree. He/She must have an overall grade point average of 3.0 out of 4.0 or better. He/She must be a Missouri resident. **Applications available in the Student Financial Aid Office, G-1 Parker Hall. Applications due back to our office by September 20, 1993.**

Two \$1,000 (U.S.) awards are available through the ACI Concrete Research and Education Foundation for undergraduate study in concrete construction for the 1994-95 academic year. **Requirements:** These awards are open to any undergraduate student in the U.S. or Canada. The student shall have achieved senior status in a four-year or longer undergraduate program in engineering, construction, or technology during the year for which the awards are presented. The awards will be made on the basis of demonstrated interest and ability to work in the field of concrete construction. The student must have a course load of 6 or more credit hours each semester during the

period for which the award is made. The student must be a senior during the year for which the award is made. Transcripts, recommendations, and an essay must be submitted as outlined on the application form. **Application available in the student financial aid office, G-1 Parker Hall.** **Completed applications must be received in Detroit no later than January 29, 1994.**

The Rolla Area Business and Professional Women's Club is offering two scholarship is designed to encourage women to advance their career goals through continuing education — whether they are currently pursuing a degree, returning to the work force after a long-term absence, or are in the process of changing careers. **Eligibility Requirements:** Must be a resident of either Phelps, Dent, Maries or Pulaski Counties. At least 25 years of age. Enrolled at an accredited educational institution. The scholarship will be awarded on the basis of financial need and the development of a specific plan for using the scholarship to advance their career goals. **Applications available in the Student Financial Aid Office, G-1 Parker Hall. Application must be received by the Scholarship Selection Committee no later than September 30, 1993.**

from page 2

ate pilot
ouno
ool offered

News Services
SOURCE

University of Missouri
Department of Mechanical and
Engineering and Engineer
ics is sponsoring a private
school this fall through
education.

course will be held from
m. Monday evenings
0 through Nov. 8, in the
Room of the University
on the UMR campus.
for the course is \$95.
se will be taught by Dr.
etting, UMR professor
mechanical and aerospace
nd engineering mechan-

re information, contact
education, 119 ME An-
olla, Mo. 65401, or call
00.



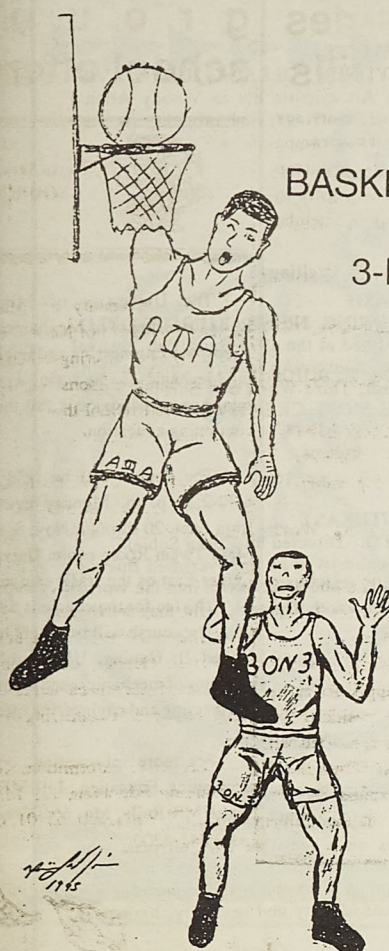
from page 2

the award is made. The student
during the year for which the
Transcripts, recommendations
be submitted as outlined on the
Application available in the
aid office, G-1 Parker Hall,
Applications must be received
no later than January

Business and Professional
offering two scholarships is de-
ge women to advance their co-
gh continuing education -
currently pursuing a degree
ork force after a long-term ab-
e process of changing careers.
ements: Must be a resident of
t, Maries or Pulaski Counties.
age. Enrolled at an accredited
ion. The scholarship will be
sis of financial need and the
specific plan for using the schol-
their career goals. Applications
udent Financial Aid Office.
Application must be received
ip Selection Committee no
ber 30, 1993.

Α Φ Α

3 on 3 BASKETBALL TOURNAMENT AND 3-POINT SHOOTOUT



WHEN: SEPT. 18, 1993
WHERE: MULTI-PURPOSE BLDG.
TIME: STARTS AT 10:00A.M.

FOR MORE INFORMATION CONTACT:
ALPHA PHI ALPHA
600 WEST. 7TH ST
ROLLA, MO 65401
(314) 341- 3322

APPROVED
FOR
POSTING
STUDENT ACTIVITIES & UNIVERSITY CENTER Office

Hands on leadership



Student
Activities
SOURCE

The office of Student Activities & University Center has developed a leadership development series of interactive workshops which provides hands-on training in an experiential learning environment.

This series of workshops make up S.E.L.F. (Student Education Leadership Forum).

Through S.E.L.F. you will learn skills to manage your life. The specific leadership attitudes and skills taught begin with a foundation in the concept of self-awareness. Being a responsible leader requires you to learn to communicate effectively, listen, motivate and persuade, organize, know yourself and your values, have the ability to analyze the critical issues, and understand the responsibility and nature of leadership.

Students who attend S.E.L.F. workshops sign up for the whole semester. Each student who attends all workshops during the semester will receive a t-shirt and a certificate.

**Section 1 - Fall Semester
EMERGING LEADERS**
(Participants must hold an officer position in a student organization and be a sophomore or above.)

October 13, 1993, 5:30 pm
Team Building -Inspiring & empowering Others

October 27, 1993, 5:30 pm
Problem Solving - Consensus Building - Understanding & Dealing w/ Conflict - Confrontational Skills

November 10, 1993, 5:30 pm
Giving & Receiving Feedback - Developing Written & Verbal Skills

November 17, 1993, 5:30 pm
Dealing w/ Burnout, Commitment Management and Stress Management

December 1, 1993, 5:30 pm
Global Perspectives

Section 2 - Spring Semester
NEW AND/OR POTENTIAL LEADERS (Participants must be 2nd semester freshmen or above.)

January 20, 1994, 5:30 pm
Understanding Self - Understanding Leadership Styles

February 2, 1994, 5:30 pm
Setting goals

February 17, 1994, 5:30 pm
Developing Written & Verbal Skills - Active Listening

March 10, 1994, 5:30 pm
Commitment Management and Stress Management

March 24, 1993, 5:30 pm
Global Perspectives

April 14, 1993, 5:30 pm
Rewarding & Recognizing Others
For more information or applications for S.E.L.F., contact Linda Martin, 218 University Center West.

THETA TAU OMEGA

Smoker September 10
Where: Sigma Phi Epsilon
Time: 3:30 P.M.

Turn in applications at Smoker

Interviews Friday September 17
Where: Tau Kappa Epsilon
When: start at 5:00 P.M.

Any questions call Eric Husman at 364-8115

Goatee

from page 11

from the 1800's and toys and just things from every era and place. And we just thought it was a good story. Kent thought it was a really good story. So we just decided to name it Dillon Fence.

And luckily, it's one of those names where we named it when we were sort of young and naive, but we haven't outgrown it. It still works. It might have been something like, you know, something really silly or something that you don't like later.

Cap: Have you been getting good reviews so far?
Greg: Good reviews, yeah. You know, there have been a few bad ones, but overall it's been overwhelmingly positive both from reviewers and other bands. Like getting on this X tour is one of the great things that's happened because of this record.

Cap: How did you manage that?
Greg: Well a guy from Mammoth turned their booking agent on to it, and

he was really into it. And so he put it to X who dug it too.

Cap: What's it like being on tour with them? Do you hang out with them ever?

Greg: It's wonderful. Yeah, we went bowling with them yesterday. It was really fun. They're really nice, and they've treated us with a lot of respect.

Cap: Well Greg, thanks a lot.

Greg: My pleasure.

And with that, Greg headed off to get some food before the show. I'm sure it was great. The little bit I saw while arguing with the front desk was great. Maybe next time they come to town it will be even more great cause I'll be there.

Dillon Fence's albums are available through Mammoth Records, Carr Mill 2nd Floor, Carrboro, NC 27510.

UMR FALL FILM SERIES

SEPTEMBER 14 - APOCALYPSE NOW

MARLON BRANDO, MARTIN SHEEN, ROBERT DUVALL. Directed by Francis Ford Coppola. R-1979. Inspired by Joseph Conrad's *Heart of Darkness*, this monumental masterpiece evokes the senseless horror and insanity of the Vietnam War. Martin Sheen gives a brilliant performance as Captain Willard, a battle-fatigued special forces agent sent on a highly sensitive mission. His assignment: to find and kill Colonel Kurtz (Marlon Brando), a drug-crazed American officer who has set himself up as a god among the natives.

SEPTEMBER 21 - HEARTS OF DARKNESS

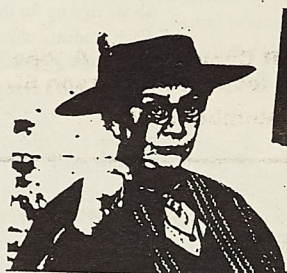
Directed by Eleanor Coppola. PG - 1991. *Hearts of Darkness* is based on more than 60 hours of documentary footage shot by Eleanor Coppola starting in March 1976 when she accompanied her husband and children to the Philippines as filming began. Recently shot interviews with the Coppolas, Martin Sheen, Dennis Hopper, Robert Duvall, John Milius, Frederic Forrester and many others give the original material a new perspective.

SEPTEMBER 28 - LIKE WATER FOR CHOCOLATE

MARCO LEONARDI, LUMI CAVAZOS. Directed by Alfonso Arau. R-1993. This spicy love story tells of a forbidden passion so hot that it's as the Mexicans say, "like water for Chocolate." Set against the Mexican Revolution, the film revolves around Tita, a high-spirited young woman who has an uncanny power that enables her to magically transmit her feelings and passions to everything she cooks. Spanish with English Subtitles. *LIKE WATER FOR CHOCOLATE* IS BEING SHOWN IN CONJUNCTION WITH HISPANIC CULTURE MONTH. DOOR ADMISSION WILL BE \$2 FOR THOSE WHO CAN SAY ONE SENTENCE IN SPANISH OR PORTUGUESE!

OCTOBER 5 - ENCHANTED APRIL

MIRANDA RICHARDSON, JOAN PLOWRIGHT. Directed by Mike Newell. PG - 1992. Four restless Englishwomen find romance, hope, and liberation during a month-long holiday spent in an Italian castle on the shores of the Mediterranean. A lyrical comedy of manners in the tradition of *Howards End* and *A Room with a View*, *Enchanted April* transports us to a magical, wisteria-scented paradise where love flourishes and impossible dreams come true.



OCTOBER 12 - HUSBANDS AND WIVES

WOODY ALLEN, MIA FARROW, SYDNEY POLLACK, JUDY DAVIS. Directed by Woody Allen. R-1992. Art mirrors life in Woody Allen's poignant and ironic exploration of love, marriage, and infidelity as seen through the eyes of four neurotic New Yorkers.

OCTOBER 19 - REGGAE SUNSPASH

BOB MARLEY, PETER TOSH, BURNING SPEAR, THIRD WORLD. Directed by Stefan Paul. PG-1980. Filmed at the 1979 Sunsplash Festival in Montego Bay, Jamaica, *Reggae Sunsplash* features mesmerizing performances by Bob Marley, Peter Tosh, Third World and Burning Spear. PRIZES WILL BE GIVEN FOR THE MOST CREATIVE CARIBBEAN ATTIRE.

OCTOBER 26 - MAN FACING SOUTHEAST

LORENZO QUINTEROS, HUGO SOTO. Directed by Elisea Subiela. R-1986. The life of a disillusioned psychiatrist in an impoverished Buenos Aires mental hospital changes dramatically when he is drawn into the world of a mysterious patient who may be from another planet, who may be the Messiah. Spanish with English subtitles.

NOVEMBER 2 - CRYING GAME

STEPHEN REA, JAYE DAVIDSON. Directed by Neil Jordan. R-1992. This dizzying romantic thriller focuses on a sensitive IRA terrorist who grows increasingly fond of the kindhearted British hostage he had been ordered to execute. The *Crying Game* is a complex and compassionate drama that explores the burning issues of identity and sexuality, hypocrisy and self-delusion.

TUESDAYS 7:00 P.M. MILES AUDITORIUM

Emissions

authorities to develop new regulations for jet-engine emissions. "These regulations would affect the commercial sale of jet engines and jet aircraft in the future," says Hagen. Adds Whitefield: "They would certainly impact the operation of all current engines, many of which were constructed in the U. S."

Hagen and Whitefield study the formation of sub-micron — particles not visible to the naked eye. "These particles are below visible size so it looks like nothing is coming out of the engine," even though huge quantities of particles are being released, says Whitefield. "Those particles provide a small amount of material, but present a large surface area for atmospheric reactions," adds Hagen.

The professors measured the particles by flying into the visible exhaust — or contrails — of high-flying commercial aircraft in the Nuremberg,

Munich and Vienna air space. They were given permission by the local German Air traffic Control system to do this. "Getting permission is not easy," says Hagen.

The professors' research is currently funded through a University of Missouri Research Board grant. They expect to receive federal funding for research in this area as a new National Aeronautics and Space Administration sub-sonic emissions assessment program gains momentum.

Whitefield and Hagen are currently studying the data they gathered. In October, the professors will return to Europe to study the long-term impact of jet exhaust on the heavily flown North Atlantic Corridor, the common route for aircraft entering Europe to and from the United States.

The cooperative program between UMR and the German Institute is expected to last two to three years.

from page 1

ARTS

from page 8

The symphony, under the direction of Leonard Slatkin, will perform

Berlioz's overture "Le Corsaire"; Samuel Barber's "Symphony No. 1";

George Gershwin's "An American in Paris"; and Anton Dvorak's "Symphony No. 8 in G major."

This season, the orchestra will celebrate 25 years of association with Slatkin. As principal guest conductor

of the Saint Louis Symphony, Slatkin founded the Saint Louis Symphony Youth Orchestra in 1970 while he was

the music director and conductor of the New Orleans Philharmonic. Later, in 1979, Slatkin was named music director and conductor of the Saint Louis Symphony Orchestra.

CYGM

from page 16

from the talents of these performers but also from the charm of Chinese Culture.

This year, three groups of the Goodwill Mission will be sent overseas; one to north America, one to Asia, Australia and New Zealand, and

one to Mainland China, Hongkong and Macao. These young students will endeavour to sow the seeds of cross cultural exchanges through their per-

formances and friendship. This well-designed program includes dancing, opera, Kung-Fu, and folk art.

This program is being sponsored by UMR International Students and Programs Office and the Chinese Student Association. For more information, please contact the ISP office at 341-4208

BAND

from page 16

DORSEY ORCHESTRA continues to entertain audiences of all ages around the world. Buddy Morrow is a legend in his own right. Buddy is recognized as one of the all-time great trombone

players. His great musicianship has been evident through the years and first came to the public eye when he was featured with leading orchestras

such as Tommy Dorsey, Paul Whitman, Artie Shaw, and Jimmy Dorsey and as start musician with many of the major radio and television shows.

Tickets are available from the OAT box office or by calling 364-9523.

INT
YOUR S

for more

SCI-FI

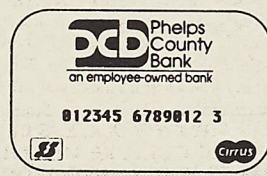
each parties, an art
dealer's rooms, mas
time contests, cel
charity auction, and
mice of Starfleet, the
Trek Fan Association
But according
Miller M. D., medi
he convention, the
weekend than just
will be donated to
AIDS research right
through one of the
research universities.



Go Anywhere In The World, PCB will be there!



Go home or hit the surf in some exotic place for spring break, and PCB will be there for you. Thanks to our new network with Cirrus and PLUS, our customers can now access their accounts world-wide! If you're already a PCB customer, you will have received a new ATM card and PIN number. If you'd like to become a PCB customer, just stop by our bank's exclusive on-campus location in Centennial Hall. And do it now, because using your card at our ATM locations between August 30th and October 5th offers you the chance to become a finalist to win two tickets to any ATM (anywhere) in the world! Hey, that could be your ticket home for Christmas... Naa! Try spring break! Watch for rules and ATM displays in the bank for details.



Rolla locations: UMR Campus • 8th & Pine • Hwy. 72
St. James location: Jefferson St.
Member FDIC

INTERESTED IN IMPROVING YOUR SCHOLASTIC PERFORMANCE

- in - Math 4, 6, or 8
- Chemistry 1 or 5
- English 20

Slots are still open in the
EXCEL PROGRAM

for more info, contact Sue Kellems, G-4 H-SS

SCI-FI

from page 8

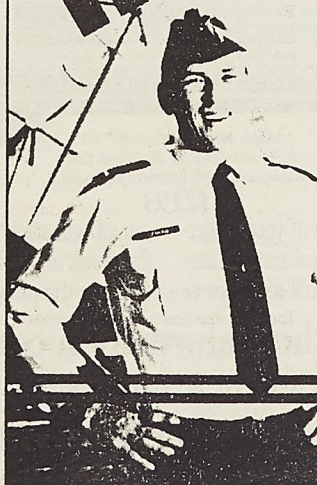
beach parties, an art show, video room, dealer's rooms, masquerade and costume contests, celebrity reception, charity auction, and a regional conference of Starfleet, the International star Trek Fan Association.

But according to Dr. David A. Miller M. D., medical consultant for the convention, there's more to the weekend than just fun. "All proceeds will be donated to benefit pediatric AIDS research right here in St. Louis through one of the major medical research universities. In fact, a tour and

news conference at one of the area's children's hospitals is planned for the guest stars on the Friday of the convention."

Tickets are \$20 daily or \$35 for the weekend, and are available at the door. Special student and other fan organization membership discounts are available. For more information, or to obtain a convention flyer, write to MASFA Inc., P. O. Box 23167, Belleville, IL 62223; or call the convention hotline at (913) 677-6537.

AIM HIGH



YOUR SCIENCE OR ENGINEERING DEGREE GETS A TECHNOLOGICAL EDGE WITH AIR FORCE ROTC.

When you graduate, you can move your scientific or engineering career into the realm of lasers, satellites... a whole range of different technologies that your peers will never see.

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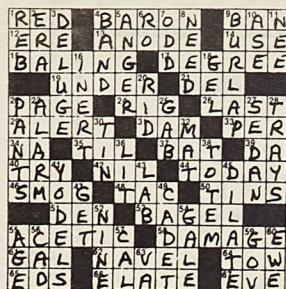
You may qualify for two- through four-year scholarships that go a long way toward covering the costs of higher education. Plus, you'll receive \$100 each academic month for living expenses.

And when you graduate, your commission as an Air Force officer means you can take your professional degree into an environment like no other in the world - with technologies brought to bear on the most important job in the world: national defense.

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Leadership Excellence Starts Here



EXCEL UMR WORKSHOP

Limited space still available in the following courses (any section)

- 1) Chemistry 1
- 2) Chemistry 5H
- 3) Math 4
- 4) Math 8

Please come to office G-4 H/SS for more information:

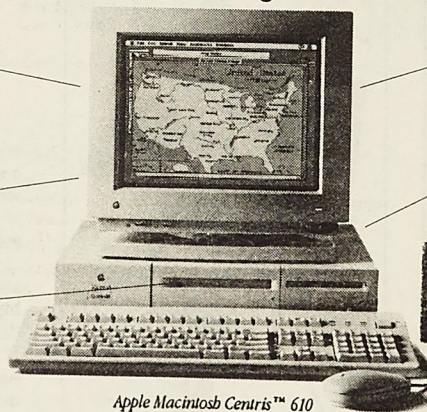
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CD-ROM technology puts a world of information at your fingertips, and enables you to work with sound, video and animation. Buy the Macintosh Centris™ 610 with CD-ROM drive, and you'll also receive

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For further information contact
Ben Strehlman (Scientific Programmer Analyst at UMR)
at 114 Mathematic Computer Science Bldg • 341-4841

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Co-op Employment

FALL 1993 CO-OP INTERVIEW SCHEDULES
SCHEDULE ADDITIONS POSTED ON UMRINFO AND GOPHER
09/02/93

Company: United Technologies

Date of Interview: 09/24

Majors:

Minimum GPA: Must be at least standing.

Remarks: SIGN-UP DATE: FRIDAY, SEPT. 10, 1993

Work location: Columbus, MS

Method: OPEN

Company: Moog Automotive

Date of Interview: 09/30

Majors: MET

Minimum GPA: 2.000 Must be at least standing.

Remarks: SIGN-UP DATE: THURSDAY, SEPT. 16, 1993

Work Location: St. Louis, Missouri

start work spring 94

Method: OPEN

INFORMATION UNAVAILABLE AT THIS TIME. PLEASE CHECK GOPHER OR UMRINFO FOR DETAILS LATER

Company: Bussmann-Application Engineering

Date of Interview: 09/24

Majors: ELEC EMAN MECH

Minimum GPA: 2.950 Must be at least Sophomore standing.

Remarks: SIGN-UP DATE: FRIDAY, SEPTEMBER 10, 1993

Work Location: St. Louis, Missouri

Start work spring 1994

Must have proper documentation to work in US

Method: OPEN

Company: Union Pacific RR

Date of Interview: 10/08

Majors: CIVL MECH MET

Minimum GPA: 2.950 Must be at least Sophomore standing.

Remarks: TURN-IN RESUMES: FRIDAY, SEPT. 17, 1993

Work Location: Omaha, Nebraska

start work spring or fall 1994

Information meeting: 10/6/93 - Mark Twain Room 6:30 - 7:30 pm

Operating area- ALL STUDENTS INTERVIEWING WITH UNION PACIFIC RR MUST ATTEND INFORMATION MEETING.

Method: PRESCREEN

Company: US Gypsum

Date of Interview: 09/24

Majors: MECH MIN

Minimum GPA: 2.650 Must be at least Sophomore standing.

Remarks: SIGN-UP DATE: FRIDAY, SEPT. 10, 1993

Work location: Sperry, Iowa

Start work spring or summer 1994

Information meeting - Thursday, September 23, 1993 6:30pm in

Mark Twain Room, UCE

Method: OPEN

Company: Union Pacific RR

Date of Interview: 10/08

Majors: ELEC

Minimum GPA: 2.950 Must be at least Sophomore standing.

Remarks: TURN IN RESUMES: FRIDAY, SEPT. 17, 1993

Work Location: Omaha, Nebraska

start work spring or fall 1994

Information meeting - 10/6/93 - Mark Twain Room 6:30 - 7:30pm

Communications area

Method: PRESCREEN

Company: Union Electric

Date of Interview: 09/28

Majors: ELEC MECH CIVL EMAN

Minimum GPA: 2.450 Must be at least Junior standing.

Remarks: SIGN-UP DATE: TUESDAY, SEPT. 14, 1993

Work Location: St. Louis, MO and various locations in Missouri,

start work January 1994

Green Card Required for non citizens

2 to 3 CIVL students should sign up per schedule - 2 EMAN per schedule

Greater need is for ELEC and MECH

Method: OPEN

Company: Dames & Moore

Date of Interview: 10/05

Majors: CHE CIVL GEE

Minimum GPA: 2.950 Must be at least Junior standing.

Remarks: SIGN-UP DATE: TUESDAY, SEPT. 21, 1993

Work location: Overland Park, Kansas

START WORK SPRING 1994

Method: OPEN

Company: Monsanto Company

Date of Interview: 09/29

Majors: CMPS MGTS

Minimum GPA: 2.950 Must be at least Sophomore standing.

Remarks: SIGN-UP DATE: WED., SEPT. 15, 1993 (1 hour interviews)

Work Location: St. Louis, MO., Chicago, IL., New Orleans, LA

Information Meeting: Tuesday, Sept. 28, 1993 at 7:00 pm, Silver and

gold room. ALL MUST ATTEND INFORMATION MEETING PRIOR TO INTERVIEW.

MUST PICK UP MONSANTO APPLICATION AT THE CO-OP OFFICE, 303D NORWOOD

ON DAY OF SIGN-UPS START WORK SPRING 94

Method: OPEN

Company: Amsted

Date of Interview: 10/06

Majors: MECH MET

Minimum GPA: 2.950 Must be at least Sophomore standing.

Remarks: SIGN-UP DATE: WED., SEPT 22, 1993

WORK LOCATION: MIDWEST/MIDEAST

START WORK SPRING 1994

Method: OPEN

Co-op Continued

FALL 1993 CO-OP INTERVIEW SCHEDULES
SCHEDULE ADDITIONS POSTED ON UMRINFO AND GOPHER
09/02/93

- | | | | |
|--|-------------------|--|-------------------|
| <p>Company: Anheuser Busch
Date of Interview: 10/06
Majors:
Minimum GPA: Must be at least standing.
Remarks: SIGN-UP DATE: WED., SEPT. 22, 1993
Work location: St. Louis, MO
*NOTE: PER REQUEST FROM ANHEUSER BUSCH, STUDENTS CAN ONLY SIGN-UP FOR ONE SESSION. JOB DESCRIPTIONS AVAILABLE IN CO-OP OFFICE. PLEASE ADHERE TO COMPANIES REQUEST.
INFORMATION UNAVAILABLE - CHECK GOPHER OR UMRINFO FOR DETAILS LATER.</p> | Method: OPEN | <p>Company: Deere and Company
Date of Interview: 10/21
Majors: MGTS CMPS
Minimum GPA: 2.450 Must be at least Sophomore standing.
Remarks: SIGN-UP DATE: THURSDAY, SEPT. 30, 1993
WORK LOCATION: MOLINE, ILLINOIS
START WORK SPRING 94</p> | Method: PRESCREEN |
| <p>Company: Kaiser Aluminum
Date of Interview: 10/06
Majors: MET
Minimum GPA: 2.650 Must be at least Freshman standing.
Remarks: SIGN-UP DATE: WED., SEPT. 22, 1993
Work Location: Jackson, TN
START WORK SPRING 94</p> | Method: OPEN | <p>Company: Litton Industries
Date of Interview: 10/20
Majors: MECH CHE ELEC
Minimum GPA: 2.000 Must be at least Freshman standing.
Remarks: SIGN-UP DATE: WED., OCT. 6, 1993
WORK LOCATION: SPRINGFIELD, MO</p> | Method: OPEN |
| <p>Company: Hunter Engineering Company
Date of Interview: 10/15
Majors: MECH ELEC
Minimum GPA: 2.950 Must be at least Sophomore standing.
Remarks: SIGN-UP DATE: FRIDAY, SEPT. 24, 1993
Work location: St. Louis, MO
START WORK SPRING 94</p> | Method: PRESCREEN | <p>Company: IBM Corporation
Date of Interview: 11/04
Majors: ELEC CMPS
Minimum GPA: 2.000 Must be at least standing.
Remarks: SIGN-UP DATE: THURSDAY, OCTOBER 14, 1993
WORK LOCATIONS: VARIOUS LOCATIONS
START WORK SPRING OR SUMMER 1994</p> | Method: PRESCREEN |
| <p>Company: Dow Chemical
Date of Interview: 10/11
Majors: ELEC CHE
Minimum GPA: 2.750 Must be at least standing.
Remarks: SIGN-UP DATE: MONDAY, SEPT. 27, 1993
Work Location: Freeport, TX or Louisiana
1/2 SCHEDULE 8 INTERVIEW OPENINGS
am interview times</p> | Method: OPEN | <p>Company: Leonards Metals
Date of Interview: 10/29
Majors: MECH
Minimum GPA: 2.950 Must be at least Sophomore standing.
Remarks: SIGN-UP DATE: FRIDAY, OCTOBER 15, 1993
WORK LOCATION: ST. CHARLES, MO
START WORK SPRING 94</p> | Method: OPEN |
| <p>Company: Deere and Company
Date of Interview: 10/20
Majors: ELEC MECH
Minimum GPA: 2.650 Must be at least Freshman standing.
Remarks: SIGN-UP DATE: WED., SEPT. 29, 1993
WORK LOCATIONS: IOWA AND ILLINOIS

STUDENTS MUST BE WILLING TO WORK 3-5 WORK PERIODS</p> | Method: PRESCREEN | <p>Reynolds Metals, Richmond, VA

Company will be attending our Industry Career Fair on Thursday, September 23, 1993 - Multi-Purpose Building.

They will sign-up Engineering Management students. Be sure to stop by their booth for further information.</p> | |

Co-op Office

Full-Time Employment

Company: ANDERSEN CONSULTING
1010 Market Street
St. Louis, MO 63101
Attn: Ms. Ruth Brock

Method: PRSCREEN

Date of Interview: 10/05
Majors: BS & MS - Computer Science, Electrical Engr, Mech. Engr
Engr. Management, & Applied Math
Interviewing: Dec 93, May 94, July 94
Minimum GPA: 2.95
Positions Available: Staff Consultants
Position Location: All major U.S. cities
JUST COMPLETE PERSONAL DATA SHEET LOCATED IN 301 NORWOOD
Pre-recruitment Meeting - October 4 - 6:30 p.m. - Centennial West
DEADLINE FOR SUBMITTING RESUMES: September 21

MARGILL
O Box 9300
Minneapolis, MN 55440-9300
Attn: Ms. Karen Falde

Method: PRSCREEN

Date of Interview: 10/05
Majors: BS & MS - Electrical Engr, Metallurgical Engr, Mechanical Engr
Interviewing: Dec 93 & May 94
Minimum GPA:
Position Available: Management Trainee
Position Location: MN, IA, PA, MI, TX, KY, & OH
DEADLINE FOR SUBMITTING RESUMES: September 21

AMSTED INDUSTRIES
205 North Michigan Ave.
Chicago, IL 60601-5914
Attn: Ms. Barb Lukasiewicz

Method: PRSCREEN

Date of Interview: 10/05
Majors: BS - Mechanical Engr, Metallurgical Engr
Interviewing: Dec 93, May 94, July 94
Minimum GPA: 2.95
Positions Available: Metallurgical, Technical Sales, Design Engineer,
and Manufacturing Engineer
Position Locations: Midwest/Central U.S.
DEADLINE FOR SUBMITTING RESUMES: September 21

OKLAHOMA GAS AND ELECTRIC COMPANY
P.O. Box 321
Oklahoma City, OK 73101
Attn: Ms. Millie J. Tibbits

Method: PRSCREEN

Date of Interview: 10/05
Majors: BS - Electrical Engr & Mechanical Engr.
Interviewing: Dec 93
Minimum GPA:
Positions Available: Region Engineer and Plant Engineer
Position Locations: Various Oklahoma locations
DEADLINE FOR SUBMITTING RESUMES: September 21

U.S. CENTRAL INTELLIGENCE AGENCY
P.O. Box 12727
Arlington, VA 22209-8727
Attn: Mr. Jack LaFlamme

Method: PRSCREEN

Date of Interview: 10/5
Majors: BS & MS - Economics, Computer Science & Electrical Engineers
Interviewing: May 94
Minimum GPA: 3.15
Positions Available:
Position Locations: Washington, D.C. & Northern VA areas
DEADLINE FOR SUBMITTING RESUMES: September 21

EXXON, INC.
P.O. Box 2180
Houston, TX 77252-2180
Attn: Mr. Doug Brockhaus

Method: PRSCREEN

Date of Interview: 10/06, 10/07
Majors: BS & MS - Chemical Engr, Mechanical Engr, Petroleum Engr, Mining
Engr.
Interviewing: Dec 93, May 94 & July 94
Minimum GPA: 2.95
Positions Available: Engineering assignments in production,
marketing, refining, chemical operations manufacturing & R&D
Position Locations: Nationwide - predominantly Texas, Louisiana &
New Jersey

Bring completed Exxon application (available in 301 Norwood) and copy of
transcript to the interview

DEADLINE FOR SUBMITTING RESUMES: September 22

BAXTER HEALTHCARE
1901 Highway 201 North
Mountain Home, AR 72653
Attn: Mr. Stephen Smith

Method: PRSCREEN

Date of Interview: 10/06, 10/07
Majors: BS & MS - Engr. Mgmt, Electrical Engr, Mechanical Engr
Interviewing: Recent Grads, Dec 93 and May 94
Minimum GPA: 2.45
Positions Available: Production Supervision, Project Management
Cost Reduction/Product Improvement & Project Engineering
Position Location: Mountain Home, Arkansas
DEADLINE FOR SUBMITTING RESUMES: September 22

MINNESOTA MINING & MFG CO (3M)
3M Center Bldg. 224-1W-02
St. Paul, MN 55144
Attn: Ms. Barbara Kronholm

Method: PRSCREEN

Date of Interview: 10/07, 10/08
Majors: BS- Chemical Engr, Electrical Engr, Mechanical Engr
Interviewing: Dec 93, May 94, July 94
Minimum GPA: 2.95
Position Location: St. Paul, MN, Austin, MN and manufacturing sites
throughout the U.S.
Positions Available: R&D, Process Engr., Manufacturing, Project Engr
Design, Process Instrumentation & Control Systems
DEADLINE FOR SUBMITTING RESUMES: September 23

OWENS ILLINOIS
DETAILS NOT AVAILABLE AT THIS TIME

Date of Interview: 10/08

UNION PACIFIC RAILROAD
1416 Dodge Street
Omaha, NE 68179
Attn: Mr. Roger Dillion

Method: PRSCREEN

Date of Interview: 10/07
Majors: BS - Engr Mgmt, Civil Engr, and Mechanical Engr
Interviewing: Dec 93 May 94
Minimum GPA: 2.95
Position Available: Management Trainee
Position Location: Omaha, NE
DEADLINE FOR SUBMITTING RESUMES: September 23
Pre-recruitment Meeting - October 6 - 6:30 p.m. - Mark Twain Room

B&V WASTE SCIENCE & TECHNOLOGY CORP
P.O. Box 30240
Kansas City, MO 64112
Attn: Ms. Brook Cranston

Method: PRSCREEN

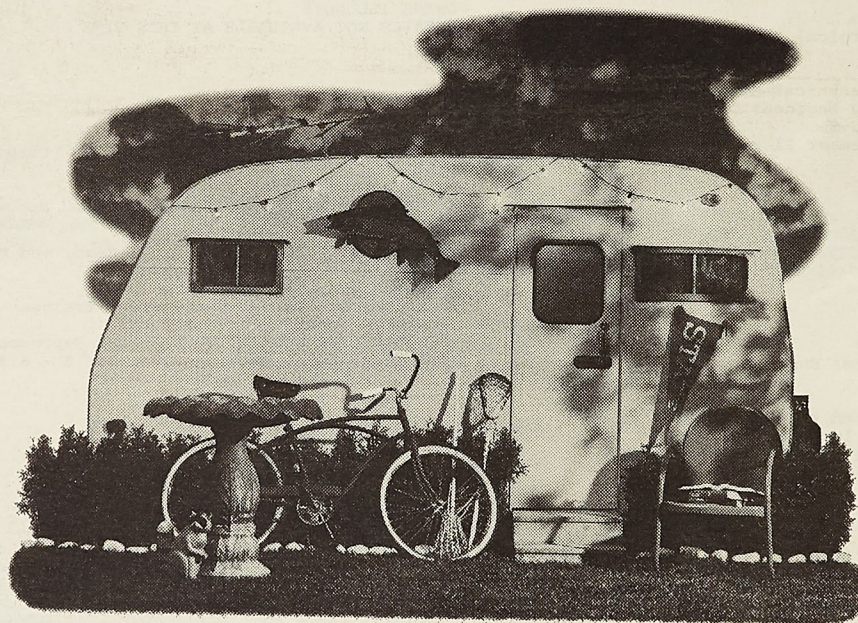
Date of Interview: 10/07
Majors: BS & MS - Civil Engr & Geological Engr
Interviewing: Dec 93
Minimum GPA: 2.7
Positions Available: Civil & Environmental Engineers, Geological
Engineers
Position Location: Chicago and Kansas City
DEADLINE FOR SUBMITTING RESUMES: September 23

Laclede Gas Company
720 Olive Street, Room 812
St. Louis, MO 63101
Attn: Ms. Donna Krutzman

Method: PRSCREEN

Date of Interview: 10/08
Majors: BS - Chemical Engr & Mechanical Engr
Interviewing: Dec 93
Minimum GPA:
Positions Available: Engineer
Position Location: St. Louis, MO
DEADLINE FOR SUBMITTING RESUMES: September 24

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Opinion
page 3



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