



12 Nov 1997

## The Missouri Miner, November 12, 1997

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# The Missouri Miner

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

November 12, 1997

Volume 87, Number 11

Twenty Pages

## In This Issue

**Verve:** The power of color... - page 5

**Sports:** Ben Mulvaney to run in cross-country nationals. - page 8

## UMR students physically assaulted on campus grounds

by **Brian McBride**  
Staff Writer

On October 31, at about 12:50 a.m., a student at UMR was walking across campus. He was walking near the hockey puck and he noticed two people standing near the breezeway as he passed. He then noticed that they had begun walking behind him. Before he knew it he was pushed to the ground.

Suddenly, there were more people around him; kicking him in the head and ribs. As he fought his way to his feet he asked them what they wanted. The answer was money. After seeing what he thought was a knife, he gave them \$20. They took his \$20 and his backpack and ran in the direction of Pine St.

The suspects in this crime were described by the victim as small to medium build. One had all black sweatshirt, with a black hood and another had a red sweatshirt.

On October 31 at 9:15 p.m. another student was walking from TJ into the tunnel that leads to campus, when he noticed two people wearing Halloween costumes. One was wearing a skeleton mask. The student walked on through the tunnel and soon he heard the sound of running behind him. He was punched in the back of the head and several others came from the far end of the tunnel to join in. He was assaulted in a similar fashion. When he got himself to his feet, the suspects fled in the direction of Pine St.

Neither of the students were seriously injured. The UMR PD sent out a crime alert to the residence halls, fraternities and sororities Saturday November 1. That Monday the crime alert was sent to each department on campus. The Rolla Police Department was also notified.

The UMR PD is currently investigating the incidents and they do believe that they are related. There are no substantial physical descriptions avail-

able.

Earlier in the evening of the October 31, there was a student who went through the tunnel, toward TJ who saw what was most likely the people in question. As he approached, he heard one of them say, "Here comes someone." He described them as five white males and as "high school" age. One had a red and white coat, another was wearing a red and white sweater; one was wearing a red and black flannel shirt and one had a dark green or blue shirt on.

Chief Bill Bleckmann of the UMR PD urges, "Anyone seeing a couple of people, particularly high school age, loitering around, give us a call and we'll check them out. Also, please consider walking with someone and not alone when going out."

If you have any information that may be useful, or if you see anything suspicious, do not hesitate to call the UMR PD at 341-4300. Also don't forget the UMR PD Web page at <http://www.umn.edu/~police>.

photo by Ryan Shawgo



**A dramatization of an assailant as depicted by one of the assault victims. UMR Police encourages students to, at least walk in pairs when traveling around campus at night.**

## Officials from European colleges to visit UMR

The International Affairs Office offers chance to learn more about UMR's student exchange program.

by **Casey Morriss**  
Staff Writer

Friday, November 14, at 2 p.m. in the Silver and Gold Room, UCE, there will be an open forum for students and faculty to learn more about UMR's student exchange program. The forum, which is sponsored by the International Affairs Office, will feature officials from three different European schools with which UMR has signed exchange student agreements. The officials, as well as representatives from the International Affairs Office, will be on hand to discuss and answer questions about the student exchange program.

The schools represented at the forum will be Belgium's Hautes Etudes commerciales Liege, Finland's Satakunta Polytechnic and Hogeschool Limburg from The Netherlands.

According to Jeanie Smallwood, director of International Affairs, the student exchange program involves a cooperative agreement between UMR and schools overseas. By participating in the program, UMR students can pay tuition and fees at UMR but spend the semester at a different school. In exchange, UMR hosts foreign students who have paid tuition and fees at their respective home institutions.

One advantage this program has over other overseas study opportuni-

ties, according to Smallwood, is that the student's financial aid applies just as it would if the student were studying in Rolla.

Smallwood feels that spending a semester overseas can be a valuable experience for students. "Companies are looking for internationally minded students, and this kind of experience makes the student more marketable," Smallwood said. Smallwood encourages all students who might be interested to attend the forum on Friday or to visit the International Affairs office with questions.

Students interested in participating in the program can apply through the International Affairs office. According to Smallwood, applications are then reviewed by a committee that will look at things such as GPA and maturity level in deciding whether or not the student will be allowed to participate. The makeup of the committee depends on the program of study planned by the student. One of the committee's main responsibilities is to ensure that the student will be a good representative of UMR and the United States.

One student who has benefited from the student exchange program is Teemu Harju of Rauma, Finland. Harju is a 22 year old senior at Satakunta

Polytechnic in Finland. This semester he is taking classes here in Rolla on his way to earning a degree in Industrial Engineering.

"This could be my only opportunity to come to the United States," Harju said. So far this semester he has traveled to St. Louis and Omaha, as well as several communities around Rolla. Over Thanksgiving, he plans to go skiing in Colorado with a friend he made here in Rolla.

According to Harju school here is quite similar to his school in Finland. However, one of the main differences he sees is that there are more team projects here. "I think that's a good thing," Harju said, "You get to meet

more people and make new friends." In addition to the teamwork from his classes making him less shy around people, Harju feels the experience has made him more confident and independent all around.

"Before coming here, I had always traveled with friends and family. I didn't even know if I could manage to get on the right plane in the airport," Harju said. "Now I feel if I could do that, I could do anything I want."

Harju says he looks forward to returning to the United States some day as part of his work or possibly to continue his education.



**Exchange student, Teemu Harju.** photo by Wendy Hoffman

## Mock DWI car crash set for today

by **Mike Matthews**

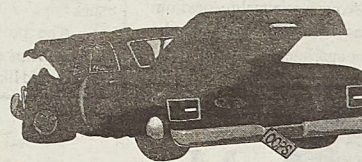
**Student Action Team**

On Wednesday, November 12, the UMR Student Action Team and Residence Hall Association, in conjunction with the Campus Police, Rolla Fire Department, Phelps County EMT, Coroner and Jack's Towing, will present an Alcohol Awareness/Drunk Driving Docu-Drama to students at UMR. The program will begin at approximately 12:25 p.m. in front of the library.

The presentation will include a mock crash involving students from campus. Six students have been selected to play the roles of dead and injured victims. Students viewing the crash will not have prior knowledge as to what will be happening.

Police, ambulance and fire rescue teams will be summoned to the crash as the scene plays out. Each shall perform their duties as they would in real life situations: using the jaws of life, giving sobriety tests.

After the scene, a follow-up will be given stating what consequences ensued for each of the members of the accident and to address any questions or comments.



A driver may be alcohol- or drug-impaired if he or she:

- Drives too fast or too slow
- Speeds up and slows down in spurts
- Changes lanes frequently
- Passes improperly, either taking too long or swerving
- Overshoots or ignores traffic signals and signs
- Approaches traffic signals or sign unusually slow or fast
- Drives at night without lights, or delays turning on lights
- Fails to dim high beams for oncoming traffic
- Starts or stops erratically at signals and signs
- Hugs or drives on the shoulder of the road
- Straddles the center line
- Keeps windows open in cold weather
- Sticks his or her head partly out the window while driving

Taken from Internet site sponsored by MADD



## In A Nutshell

◆ **Attention December graduates:** Commencement announcements are now available in the Registrar's Office for all students who will graduate on December 20. These announcements are provided by the university at no cost to the graduate.



◆ The University of Missouri-Rolla **C.L. Dake Geology Club** is sponsoring a **mineral auction** Saturday, November 22 in McNutt Hall. Registration runs from 9 a.m. to noon. The children's auction will begin at noon. The main auction will begin at 1 p.m.

Admission to the event is free and is open to everyone. Concessions will be sold throughout the day. For more information contact Nancy Johnson at (573) 308-1562.

◆ **AllApartments** (<http://www.allapartments.com/>) has launched the most comprehensive **apartment locator service** on the Web. Renters and property owners can access AllApartment's free database of more than 5 million listings in over 4,000 cities.

Site features include: proximity searches, listings by price range, unit size, floorplans with photos, maps, driving directions and 24 additional amenities.

Free to both renters and property owners, AllApartments is advertiser supported with a fee for premium listings. Connected to redundant T-3's, AllApartments is fast, simple and requires minimal queries from users to quickly locate just the right apartment.

## Expert system to address problems of electromagnetic interference

by Ellen Huggett  
Staff Writer

Electrical engineers at the University of Missouri-Rolla are working with several private companies to create a software program designed to catch and fix electromagnetic glitches during the design of printed circuit boards used in computers, automotive parts and other electronic products.

The consortium is a three-year project between UMR and nine diverse businesses -- from equipment manufacturer Caterpillar to computer giants Intel and Sun Microsystems. The project has more than \$1 million in funding from consortium members.

Now in its second year, the project will result in "expert" software products that will help electronics makers meet federal standards on electromagnetic emissions. The expert system should also save circuit board makers a lot of time and money by allowing them to catch and fix problems before the circuit boards are manufactured.

"Computer systems are getting faster, and the faster they get, the more

likely they are to act as tiny radios and emit signals. What we have to do is make them extremely inefficient radiators," said Dr. Todd Hubing, an associate professor of electrical engineering at UMR and also one of four UMR electrical engineering researchers involved in the UMR EMI (electromagnetic interference) Expert System Consortium.

The UMR research team also includes one visiting scholar, 15 graduate students and five undergraduate students.

Hubing and his colleagues in UMR's electrical engineering department -- Drs. Tom Van Doren, James L. Drewniak and Richard E. DuBroff -- came up with the idea for developing an expert system after working with Boeing on a similar project. With Boeing, the UMR researchers developed software to locate

EMI "design rule violations" in circuit board designs.

Also working with the four UMR professors is Dr. Sergiu Radu, a visiting professor from Romania.

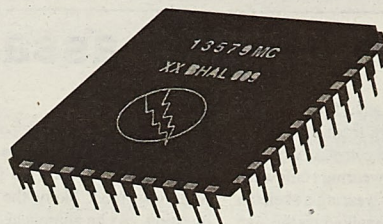
"The need for an expert system is great because circuit board designers often know little about EMI concerns," Hubing said. "There are few EMI engineers in the world, but many circuit board designers," he added. In the early days of personal computers, the circuit boards that

taken care of by manufacturers of both PCS and radios. But new problems of electromagnetic interference are likely to arise as portable electronic products -- such as compact-disc players, laptop computers and hand-held computers -- become more commonplace. Signals from these products could potentially interfere with the computer systems of airplanes, automobiles and other complex electronic systems.

At UMR, the researchers test a variety of products in the Electromagnetic Compatibility (EMC) Laboratory, analyze the results, and write the algorithms that will be used to develop an expert software system that can be used by any circuit board designer.

The UMR researchers then hand off their algorithms to the consortium's software partners. Those partners develop computer-assisted design software products to be used by circuit board designers in the industry. All information is shared among the consortium's members, and all hardware companies in the consortium receive

**see Interference on page 18**



ran PCS would interfere with the music of office radios. This is due to the circuit boards broadcasting radio signals. The result is static heard on the radio.

This is one common example of how electronic noise can disrupt the operation of everyday products, and this problem, for the most part, has been

## Miner Spotlights: Center for Personal and Professional Development

by Keith Missey  
Assistant News Editor

Many students know that there is a Center for Personal and Professional Development on campus, but most students do not realize how much it can help in their academic and professional careers.

The mission of the Center for Personal and Professional Development is "to promote learning, cooperative working relationships, and personal and professional development within the university community of students, faculty, and staff." Director Debra Robinson explained, "We do this in a variety of ways including individual consultations with counselors or psychologists and group structured programs dealing with many helpful issues."

The professional aspect of the Center helps students determine what they would like to do after college. The

staff of the Center also holds workshops on communication skills and time management to name a few. Robinson said, "We're different than the Career Opportunities Center in the sense that they help you get a job and prepare you for the later stages of the job search and placement. We help in the beginning stages like helping a student select a major and exploring his or her career options."

Students can go to the Center for help in their personal lives also. Relationships are a big part of that aspect as well as academic success and other personal concerns. "Relationships are a big factor in college," Robinson said. "You have roommates, friends, family, girlfriends, boyfriends and faculty. Students come in often with problems on that level. We also hold workshops to help the academics success of students including time management, study skills, test preparation and study skills."

The Center offers these services in two different ways as mentioned before,

through individual counseling and group structured programs.

Robinson commented, "Anyone can come in at any time and make a personal appointment with a counselor or psychologist. Most students think you have to be really sick to talk to one of those individuals. We get a wide range of students coming in who want to talk to a counselor or psychologist, from those who have small development issues in school to those who want to commit suicide. However, the majority that come in are not serious to the suicidal degree, and we encourage students with any type of problem to come talk to a counselor."

The other side of the Center is the group structured programs. Most of the programs are offered on request and student groups are invited to take advantage of these resources.

Programs include self-esteem, stress management, career decisions making, family issues, relationships, sexual traumas, conflict resolution, com-

munication skills, stress management, study skills, test anxiety, time management, motivation, team building, diversity issues and leadership training.

The Center also offers testing services for a variety of national and placement tests and a comprehensive resource center on many self-help topics. The Center is probably the first campus department many students were involved with because they coordinate the Preview, Registration and Orientation program for all incoming freshmen.

The Center has been around since the 1960's, and Robinson has been director since 1990. Other staff members include Assistant Director Carl Burns, Ph.D., Counseling Psychologist Kevin Gaw, Ph.D., Counseling Psychologist Sam Burton, Ph.D., Counselor Diane Stutts, M.A., Counselor Julia Zapadka, M.A. and Counselor Patti Fleck, M.S., A.B.D. The support staff includes Testing Technician Patty Frisbee, Senior Secretary Laura Kahl and Secretary Angie Parsons.



## The Missouri Miner

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

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 may be withheld upon request.

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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Submissions for publication must be in our drop box (first floor of Norwood Hall, room 103) by 3:30 p.m. on the Thursday before publication. Submissions, not including personals, will be accepted through e-mail at [miner@umr.edu](mailto:miner@umr.edu). The Missouri Miner reserves the right to edit all submissions for style, grammar, punctuation, spelling, length, and matters of good taste.

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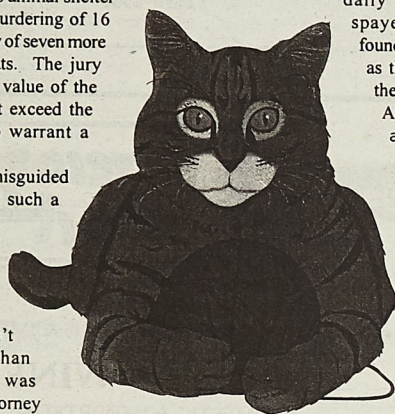
# Opinions

## How can one put a value on a life?

An editorial by Verve Editor Jeff Leong

How much do you value life? When I say life, I mean yours, mine, the animals around us and the ants that walk under us. How can we stamp a price on life? A case that was resolved recently in Bloomfield, Iowa reminded me of this issue. In this case, two 18-year-olds were found guilty on two misdemeanor charges of offense against an animal shelter in Fairfield, Iowa and a misdemeanor charge for criminal trespassing of the said shelter. The crime that was committed in this animal shelter was the brutal murdering of 16 cats and the injury of seven more with baseball bats. The jury decided that the value of the cats' lives didn't exceed the \$500 needed to warrant a felony charge.

For two misguided teens to commit such a senseless act is beyond my belief. But when the jury thought that the lives of those cats weren't worth more than \$31.25 a cat, I was terrified. The attorney



general of the county cited many sources of which made the cats worth much more, but the value of life, no matter how significant, is priceless. When I see cats and dogs roaming the streets of Rolla, I often wonder to myself where they could be right then. They could be making children happy and enjoying the lives they have. Instead, these domesticated animals are forced to live their lives always worrying if they'll survive another day.

Nationwide efforts, from Bob Barker's daily tip to have your pets spayed or neutered to the founding of organizations such as the American Society for the Prevention of Cruelty to Animals (<http://www.aspc.org/>), has sparked new interests in animal rights.

Animals are here to accompany humans on this land. We should treat and value them as if they were one of our own. The price that we put on animal life should be just as great as that of human life.

## Why I can't seem to get my homework done

An editorial by News Editor Justin Sutherland

Imagine: A study lounge, or a computer lounge, around midnight with no sign of a security guard or campus cop at all. In reality, if you were caught anywhere near a study lounge or computer lab at this time you would more than likely be asked to leave, or at least asked for a lab pass by the aforementioned authority.

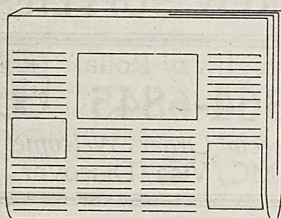
The chances are pretty good that anyone who has been slaving away on class projects or nightmarish homework assignments knows that late nights are the inevitable outcome to our professors' belief that their particular course is the only one we are taking. As the saying goes: No rest for the wicked! And, as easy as it would be to complain about those who hand out the mountains of assignments that we have to endure, that is not the focus of this editorial. Besides, those types of complaints should be left to those in each individual department.

A problem that is more common on an interdepartmental basis involves those who would keep students from accomplishing their given tasks. Most of us know them as Campus Security or the UMR Police Department. Their relentless quest to kick students out of designated study and computing facilities has reached the point where students perceive it as harassment.

This perception is truly a shame when they're only trying to do their job of safeguarding the campus and its facilities. And to be sure, it's not the men and women who uphold campus security policies which are cause for true disgruntlement. Rather, the underlying problem is the policy itself.

Displacing students from their working environment seems unnecessary. The people that come up with the policies should ask themselves whether students want, or enjoy, spending late hours in their respective departmental buildings. In general, the main reasons students spend any time at all on campus after hours is to meet in groups to do class work or to use the computer labs (which more than likely involves class work as well). Usually, this is the only time a student has to get his or her work done. Getting tossed out of buildings (metaphorically speaking) during a late night's work can seriously hinder a student's ability to get anything done.

Changing policy, especially policy revolving around security issues, is not always an easy task. There are, however, institutions like Student Council that can influence policies involving students on campus. And through a policy change, students may be able to get their work done without the possibility of borderline harassment.



## MAKING ONE OF THESE COSTS THIS:

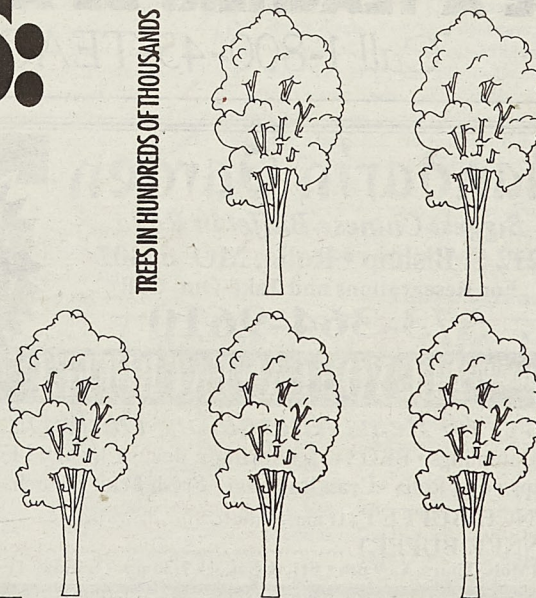
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### FINAL EXAMINATION SCHEDULE FALL 1997

The final examination period will begin Monday, December 15, 1997 at 8:00 a.m. and end at 6:00 p.m., Friday, December 19, 1997. Common finals are scheduled for those courses listed in Section II below. Room assignments for common finals will be announced by the instructors. The courses not covered in Sections I, II, and III are to be arranged by the instructor in cooperation with the students in that course.

- I. **Evening Course Finals** are scheduled for the evening session during final week. Evening courses are those courses beginning after 5:30 p.m. Evening finals begin at 7:00 p.m.
- II. **Common Finals** include All Sections of a course.

B Eng 50, 150	Monday	1:30-3:30
B Eng 110	Thursday	1:30-3:30
B Eng 140	Monday	8:00-10:00
Chem 226	Wednesday	8:00-10:00
CE 233	Monday	8:00-10:00
EE 151	Wednesday	8:00-10:00
EE 153	Thursday	1:30-3:30
EM 160	Wednesday	8:00-10:00
Hist 112, 175, 176	Monday	1:30-3:30
Math 2, 8	Wednesday	8:00-10:00
Math 6 A-K, 204	Tuesday	1:30-3:30
Math 21, 22	Thursday	1:30-3:30
ME 208	Thursday	1:30-3:30
ME 211	Tuesday	8:00-10:00
ME 213	Wednesday	8:00-10:00
ME 219, 240, 242	Monday	8:00-10:00
ME 279	Tuesday	8:00-10:00
ME 280	Monday	1:30-3:30
Phys 23, 24	Tuesday	8:00-10:00

#### III. Regular Finals

First Weekly Class Meeting	Final Exam Time
Monday 7:30	Thursday 10:30-12:30
Monday 8:30	Tuesday 4:00-6:00
Monday 9:30	Wednesday 10:30-12:30
Monday 10:30	Thursday 8:00-10:00
Monday 11:30	Friday 1:30-3:30
Monday 12:30	Wednesday 4:00-6:00
Monday 1:30	Thursday 4:00-6:00
Monday 2:30	Monday 4:00-6:00
Tuesday 8:05 or 8:30	Friday 8:00-10:00
Tuesday 9:30	Friday 10:30-12:30
Tuesday 10:30	Monday 10:30-12:30
Tuesday 11:05 or 11:30	Wednesday 1:30-3:30
Tuesday 12:30	Tuesday 10:30-12:30
Tuesday 1:30 or 2:05	Friday 4:00-6:00

According to the Student Academic Regulations all requests to change the final schedule because of conflicts or having three or more examinations scheduled on one day "are to be made in the Registrar's Office at least one week before the beginning of the final examination week" (Friday, December 5).

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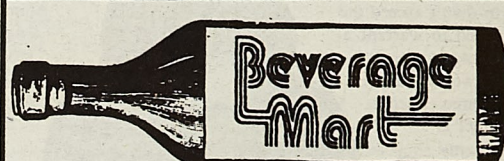
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"Vertigo" is  
Alfred Hitchcock's  
most perversely  
haunting thriller  
who must overcome  
tale of passion,  
new "restored" p  
This film is  
Leach Theatre of



A scene from



# Verve

## A person you should know: Diane Stutts

by Kristen Hartman

Verve Writer

Going to college is definitely a learning experience. Not only must a student learn academics, but he must also learn how to successfully manage time, stress, money, relationships and career goals. Being able to manage all aspects of life can be just as vital as academics to one's success as a college student and in the future. But as holds true to all learning experiences, students are going to make mistakes and sometimes lose direction. Like UMR professors help us to learn academics, the counseling staff in the Center for Personal and Professional Development is here to help students manage the various aspects of his or her lives.

Diane Stutts is a counselor in the center and finds her job to be an important one.

"There hardly is a non-peak time anymore. Problems don't go away,"

Stutts said. "In the first week or two of school, people are still finding their way, but now is a particularly difficult time [for students] because we're in the middle of the semester."

It is the variety of services that are offered at the center that makes it an incredible resource to students and an asset to the UMR campus.

The center can not only help students with extremely personal problems such as depression, self-esteem, sexual abuse, family and relationships, but it can also help students learn better study skills, deal with test anxiety, manage their time and make career decisions.

According to Stutts, a student who has a concern and wants to speak with a counselor must simply go to the center in 204 Norwood or call and set up an appointment. When the student meets with the counselor, the decision will be made as to whether the student will benefit most from individual counsel-

ing, group counseling or if it would be best to refer the student to someone in the community.

To seek the center's services is not to say that counseling is going to become a necessary part of a student's life. Rather, it is based on the student's



Diane Stutts

Photo by Wendy Hoffman

needs.

"People have different needs at different times. It depends on the nature of the problem," Stutts said.

Some students may need to go to counseling once a week or once a month. Others may only go once a year. Regardless, a student is allowed 12 sessions per academic year and 24 sessions in an academic lifetime at UMR. Services are free to students and confidential.

Being able to provide such a service to students is rewarding for Stutts.

"It's interesting to have a very personal relationship with someone where you listen deeply. It's meaningful to have someone trust you enough to unload a very personal problem on you. It's very satisfying," Stutts said. "It's a privilege."

Stutts, who has her bachelor's degree in English, has her master's degree in counseling. She has worked in higher education for 18 years. She has spent

six of those years on the UMR campus holding a variety of positions in student affairs. This experience influences her current role as a counselor.

"I draw on that student affairs background," Stutts said. "We're counselors and mental health professionals, but we do it [counsel] in a student affairs atmosphere."

Stutts and the other counselors and psychologists in the center are here for students, but it is up to the person to take the initial step.

"When you find yourself in pain in an emotional issue, it's a signal that you could benefit from talking to someone, but not everyone is ready to make changes. You have to want to take action," Stutts said.

The secret to success at UMR is to seek assistance when you need it and before it is too late. Stutts and the other members of the Center for Personal and Professional Development staff are ready to take action when you are.

## The power of color

by Sarah Albers

Assistant Verve Editor

"Excuse me? The power of color," I can hear it running through your mind right now. (Did I forget to mention I am blessed with telepathic powers on occasion?)

I did get it right. The power of color. Blue is my absolute favorite color. There are many others that I like, but none that I love as much as blue. Whenever I wear a blue shirt, or maybe even a dark green shirt I just feel better, happier would be a lot more precise.

My mother sent me a little clipping from The Reader's Digest, entitled "Eight Easy Ways to Beat Fatigue." (This article is out of the October 97 issue if anyone is interested.) In

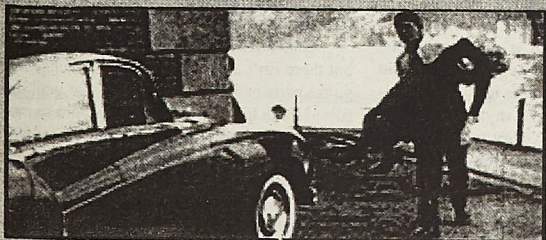
this article, it says, "Surrounding yourself with somber colors can make you fatigued and depressed." I don't know about you, but I can safely say that the only pastels in my closet are gray, blue, and white (if you would consider that a pastel color). My favorite colors are dark blue, dark green, dark red and anything that you could describe as a dark color (with a few exceptions to the rule). When I wear fire engine red I feel like I am a beacon to mark a landing strip, or a warning light to stop traffic. I do not wear orange, yellow or pink. I don't wear any clothes that are those colors. In fact, the only time I wear tan or brown, or any of those non-somber colors are when they are paired with any of my "happy dark colors."

see Color on page 14

## UMR Fall Film Fest

"Vertigo" stars James Stewart and Kim Novak and is directed by Alfred Hitchcock. To say "Vertigo" finds Hitchcock at his most obsessive, his most perverse and his sexual best, doesn't even begin to convey how very haunting this film is, or how bizarre. James Stewart stars as the hero who must overcome vertigo and his obsession for Kim Novak. This eerie tale of passion, one of Hitchcock's greatest films, will be screened in the new "restored" print.

This film is rated PG and will be screened Tuesday, November 18 in Leach Theatre of Castleman Hall.



A scene from "Vertigo." Photo courtesy of Performing Arts

## Some very bad things to think about

by Nick Skupnick, G.I.T

Verve Writer

This is a warning to anyone that cares. Some material discussed in this article may be considered offensive to certain readers. Just so everyone knows, this material is not meant to be offensive, just merely a topic for discussion. Also, if you get into a discussion on the material discussed here, you may get a major headache. I am warning you now. Also, the opinions and views presented in this article do not necessarily represent the views and opinions of the author. You have been warned.

There are many very bad things in this world. They are considered bad because they are unfavorable to happen to one. A while ago, many of us on our floor got into a serious philosophical conversation at about 1:30 in the morning. We started discussing many bad things. We conversed. We debated. We started getting emotional. When all the tempers were fired up, we eventually came to a peaceful standstill while agreeing about one very bad thing.

What we eventually decided on was that "Being defecated on is a bad thing - even by an angel." It all started when our resident assistant Seamus McGrath (he's a great guy, if you see him around shake his hand and give him a pat on the back) posted a list where we could write down

ideas for what to do with the \$25,000 that was approved for residence hall funds. He would then take those ideas and bring them up at TJHA. It was a great idea.

Well, anyway, he gave us space to write on his dry-erase board. It said, "What should we do with \$25,000?" Underneath that, someone felt it necessary to add "\$25,000 is a lot of money... for me to POOP on!" Well, as we were walking by, we noticed this. Then someone added, "But that's a bad thing - to defecate on anything..." Naturally, someone else added, "But what if who wrote the first statement was an angel - would it be blessed (not a bad thing)?" Well that got us going. We started arguing. We continued to debate. We then discussed the topic very thoroughly. Back and forth, forwards and backwards, diagonalways and slantways, every which way you imagine, we discussed this mind-rattling topic for a long time. We finally decided that it didn't matter if whoever it was who wrote the first statement - even if that person were an angel - it would be a bad thing. So, to clarify things, we wrote on Seamus' board: "Being defecated on is a bad thing... even by an angel."

But there are also many other very bad things that we then started to talk about. For instance, someone then came up with another very bad thing. That person said,

see Bad things on page 14

## Flower Power: I want my brain back!

by Daisie H.M. Hobson

Verve Writer

"If I only had a brain." —The Scarecrow (The Wizard of Oz)

I have decided that life would be a lot simpler if I only had a brain. I think I had one at one time but I seem to have misplaced it. Maybe I just have forgotten how to use the darn thing. When did I forget? Now that is the question. Did I really forget or has this school been secretly destroying it since I've been a freshman?

The possibilities are endless. You think I would miss it. Honestly, I only

notice that it is missing when I get my tests back. It suddenly occurs to me that I'm not as smart as I think I am. I think it is in the action plan to destroy at least 10 brains a year. It starts as a freshman in those awful calculus, physics and chemistry classes. It only gets worse as you finish those awful classes.

Then you get a break your junior year. You are done with the stupid general classes and now you are in your major learning something and enjoying it. But then the tables turn again and there you are with no brain. This is only my fourth year so I feel really sorry for the super seniors. But wait! Maybe

they get their brain back for the fifth year. Well, to be honest, I don't want to stick around to find out if that theory is correct.

So, back to if I only had a brain. What would I do with it once I had it? Did I actually have a brain in the first place or was I just faking it? I would trust this question to scientists but now I'm afraid they are the ones who have taken it. I want my brain back! Please!

OK, so I'm being a little silly. I'm not trying to be negative; I'm just trying to laugh myself out of the F I just got. It

see Brain on page 14



## Tips and Quips for Writers: Conclusions are important

by Barbara Baird

Center for Writing Tech.

Trying to figure out how to end speeches and papers is a difficult task for some people. Formal speeches demand a polite and gracious ending. Written forms of language, like papers, often are guilty of ending abruptly because no one is watching and listening to us as we end them!

You may try testing your paper's conclusion by reading your introduction immediately followed by your conclusion. Reading aloud will help you to answer the following questions about your conclusion. Is there a logical progression from beginning to end? Does your conclusion clearly restate your introduction's thesis or main point? Also, does it restate the main arguments, or points, of your paper? Is your conclusion convincing? But above all, does it tell your reader what you told

him/her in the paper?

Conclusions are not recommendations. Obviously, recommendations are put in a separate paragraph, and usually labeled as recommendations. Recommendations are based on the observations made in the conclusions and can suggest future investigations and studies. Recommendations supply the solutions to the problems, if possible.

Above all, do not end your paper with, "The End." You got away with this ending once or twice in grade school, it will not work at the university level! Think of your conclusion as the final play in a football game. Either punt or run with it - but, do it well! Or, for those of you who cannot relate to that image, try this one. Picture yourself at a party (party being your paper) and get ready to leave. Do not forget to thank your hostess and tell her why you had a good time.

**Quip:** Proofread your writing to see if any words out.



## Irish Times: Fridays are Green daze!

by Daniel McCulley, Jr.

St. Pat's Committee

It's getting closer to St. Pat's 1998 and there are plenty of ways to get psyched up.

The best way to get involved, while showing your support for the greatest celebration ever, is to wear your 1998 St. Pat's sweatshirt. You can pick up your 1998 St. Pat's sweatshirt every day of the week at the puck. We will be more than happy to outfit you with the proper size. Every day is a good day to wear Green, especially on Fridays because they are the campus's "Green Daze" when everyone wears his or her St. Pat's Green. Some of you haven't been wearing your Green on Fridays. All you have to do on Fridays is grab some jeans and a sweatshirt and you are ready to go. It's just that easy.

You can also start designing and working on your float. If that's not enough, the St. Pat's homepage is always a good place to stop when

you are surfing the Internet. Just stop by <http://www.umn.edu/~stpat> and see everything that's happening with the St. Pat's Celebration. There are always descriptions of current events, pictures of the merchandise, and lists of committee members along with an informational history page. This page is constantly being updated so you can always be kept up to date on everything to do with St. Pat's.

If you really want to get involved with the greatest celebration ever, the St. Pat's Committee will hold an informational meeting on November 24 in the Mark Twain Room of the University Center East at 8 p.m. If you are interested in what's going on with St. Pat's or are thinking about joining the St. Pat's Committee, this is the perfect meeting to attend. As you can see, there is a plethora of things to keep you involved in St. Pat's. Get fired up and keep thinking Green because the Best Ever 90th Annual St. Pat's '98 is only 127 Daze Away!

## Concert Update: All shows in St. Louis unless otherwise noted Courtesy of Jimbob

The Coffee Grind Live Music Schedule:	
11/14	SHARINE
11/15	Rose Colored Glasses
12/5-6	Soup Kitchen
12/13	Mick Byrd
Everywhere else:	
11/12	Mike Watt @ Side Door
	Overkill @ Galaxy
	Genesis @ Fox Theatre
	Paula Cole @ Mississippi Nights
11/13	Todd Rundgren @ Mississippi Nights
11/17	Acetone @ The Galaxy
	Fleetwood Mac @ Kiel Center
	Entombed @ Galaxy
11/19	Puff Daddy & Family @ Kiel Center
	Dee Snider @ Pop's
	Johnathon Butler @ Mississippi Nights
11/21	Ricky Skaggs @ The Sheldon Theatre
11/22	The Indigo Girls @ Fox Theatre
	Smashmouth @ The Galaxy
11/23	The Toadies @ Galaxy
11/26	The Cramps @ Mississippi Nights
11/28	Stir @ American Theatre
11/29	Mannheim Steamrollers @ Kiel Center
11/30	Fiona Apple @ American Theatre
12/4	Atari Teenage Riot @ The Galaxy
12/5	Amy Grant @ Kiel Center
	Cece Winans @ Kiel Center
	Michael W. Smith @ Kiel Center
	EC8OR @ The Galaxy
12/8	The Deftones @ Mississippi Nights
12/11	The Rolling Stone @ Trans World Dome
12/12-13	Ever Spinning Real @ The Rocken' R'- St. Robert

## Okra Man Part 3: Cautionary cooking kitchen caper

by Sean Cordes

Verve Writer

Bag Valley, despite an occasional nefarious character, was just about as wholesome a place as any on this earth. Every Baggitte had a healthy stock of this and that, though there were times when the populace liked to stop and chat. And around evening time, during busy days such as these, many of them liked to wander down to Happy Hank's House o' Cajun for some hot grub and chat.

Now Happy Hank was known to spin quite a tale. Some say that at times the tales could stretch from here to Louisiana. In fact, I once heard a man tell that he had run over such a tail down by the Texas border (said tale having run astray). And on most nights these tales pleased the guests in general, most sitting back, snacking and chatting away at gator chunks and mud bug tails.

But on a particular night, right about the time of Halloween, a nasty twitch got hold of Happy Jack's tale. The tale got bent and itchy, and although the Halloween spooks had long since left, that crooked tail itched and stretched straight towards the thankful holidays. It was then that an UN-Happy Jack went back to his kitchen, and turned out the light. The servers,

and chefs, and most of all the seriously in need of a relaxing meal Baggitte (who dearly missed his presence) were in dire straits. Somewhere from the mosscovered three-roomed interior, a cry went out. OOOOKRA MAAAN!!!!

Now Okra Man had been relaxing, this being his off season, and while the network of vines that customarily alerted him to danger in the valley were twitching rather weakly now,



he still made it his business to be alert and on the scene. "Someone's gummed up the gumbo," he observed. Then emphatically, the Green Avenger donned his vibrant spring like persona, growing into Okraaaa Maaan from a special combination of chlorophyll, various natural spices and preservatives, related okra type substances one may find behind Kroger after the produce section re-stocks and a spark of sunshine he kept in a secret root bound vault.

Grabbing a perennial vine line, the Okra dude vibrated a message to his buddy Spud Bottums, a.k.a. Tater Boy. Tater grumbled hard, as the call disturbed him from his morning paper and coffee and heavy vegetable music. "Great red beans," Tater Boy grumbled, "no gumbo, dis no good, fo sho." And then he roared, "I'll harvest myself on over there Okra, I was fixin to plant myself there for breakfast, and now my eyes are seein' red."

Spud rolled to the scene, detouring only slightly when he veered off into the woods where a group of bikers were cueing. He finally rolled up alongside the highway where some brownies were picking up trash, almost closing his eyes for good. He rolled his 30 eyes at them. They screamed. And then rolled into the rustic homey hutch of Happy Hank's.

There were hordes waiting to guzzle gumbo and crunch gator and revel in the glories of red beans and rice (which are an indispensable part of the food group you know). Spud burst the door like a big spring bud. Thirty eyes glancing around, he bellowed seating directions for the gathered crowd. Then with one thick vine, he laid out their menus, poured them their drinks and apologized for any inconvenience. "We

see Okra on page 14

## THE MINER MUSIC REVIEW: DEFTONES AND THE CRYSTAL METHOD

by Jimbob

Music Reviewer

The semester is winding down quicker than expected for me as well as many students. Just around the corner is Thanksgiving. After that, the last round of tests occur and then the dreaded finals. I am going to be really busy for the next few weeks, so please bare with subtle changes and not so flooding reviews. This week's issue is going to have a review from the Deftones and The Crystal Method. They both are pretty happenin' groups. However, the Deftones will be playing at Mississippi Nights in St. Louis on December 11. A definite show to go see. By the list of the CD releases, one can tell that a lot of good concerts will follow up in the next few months. I, for one,

can't wait till the Spice Girls head our way... Not. So, moving on with the important stuff, since I am sure everyone doesn't want to hear me babble.

Deftones  
Around the Fur  
Maverick  
Performance: 7  
Sound Quality: 7

They're back! The second release by the Deftones with Around the Fur has taken their fans, as well as the public, by surprise. The album still has their signature sound, but has progressed into a heavier, yet melodic, masterpiece. Chino Moreno, lead vocalist, has worked on his singing skills and can be heard throughout the album. He says that he listens to quite a few women's groups to

strengthen and tone his voice. It may sound sissy, but trust me, once you hear how he mixes those melodies with his growling voice, you got some killer songs.

The album has 10 tracks on it, each one having its own personality. The album breaks out with "My Own Summer (Shove It)." The beginning of it has this killer guitar rhythm going on, while the lyrics are almost story told. Chino's voice is pretty amazing when you hear how quickly he changes tone and the expression that impales your listening aura.

The title track, "Around the Fur" is one of my favorites with its cutting guitar riff, stop and go style similar to that of something off Helmet's Meantime album, but goes further with distortion and again, that trancing voice of Chino's. When

listening to the album, in the songwriter/musician's eye, one can't hear any eye-popping solos or anything so complex in rhythm, but the simplicity in each song amazes people.

Don't take me wrong, all the songs are kickass, but there isn't any serious finger stretches in the guitar parts or Dream Theatre off the wall drum fills. I think that is why I like the album so much.

Simple, hardcore, entertaining. Three words that can only describe this album. If you have a copy of Adrenaline, you will be surprised when listening to this album mainly because of the heavier guitar sound, but just more of Chino actually singing. If it's that signature scream that you are after, don't worry, each song has every bit

see Music on page 14



**SUBCONSCIOUS:****ADAM SANDLER COMING NEXT WEEK**

by Diana Alt

**Student Union Board**

When was the last time a Grammy-nominated Saturday Night Live alum came to perform at UMR? Sound impossible? On Nov. 19, that very thing will happen when SUB brings actor-comedian Adam Sandler to perform at 7:30 p.m. in the Multi-Purpose building. Sandler, who many of you might remember as Happy Gilmore or Operaman, is on a college tour promoting his new album, "What's your name?" and performing hits from his previous albums such as, "The Chanukah Song" and "Corduroy Blue." Although student tickets for the show are sold out, public tickets are still available at the UC-West ticket window and Adventuretime Video for \$15.

They will also be available on the day of the show at the Multi-Purpose building from noon until about 7:30 p.m. For those of you who have friends outside Rolla who are interested in attending, tickets are available at Streetside records in Columbia, Car Tunes in Fort Leonard Wood and Samuel's Tuxedos and Gifts in Jefferson City.

In other Student Union Board news, the members of SUB's Board of Directors will be in Denver, Colorado for the National Association of Campus Activities (NACA) convention Nov. 13-16. While at NACA, we will attend seminars and performances which will help us improve our programming for future semesters. Many of our events for the upcoming semesters will be booked while we are at NACA, which is great because we have the opportu-

nity to actually see the performers before we actually book them.

The upcoming SUB movie for this weekend is "Empire Records," showing Friday and Saturday at 7 and 9 p.m. in ME 104. Also, the annual college bowl tournament, sponsored by the special events committee, will be held on December 6 from 9 a.m. to 3 p.m. Anyone who would like to get a four person team together to participate should sign up in the SUB office. The winner of the tournament will be eligible to participate in nationwide college bowl tournaments throughout the rest of the academic year.

If you have any questions about any of our SUB events or are interested in joining a SUB committee, please feel free to come by the office at 218 UC-West or call us at 341-4220.

**Organization update****Freshmen of the year awards**

by Josh Brown

**Theta Tau Omega**

Theta Tau Omega is happy to announce the winners of the Freshman of the Year Scholarships. They are Elizabeth Morris and Robert Moashegian II.

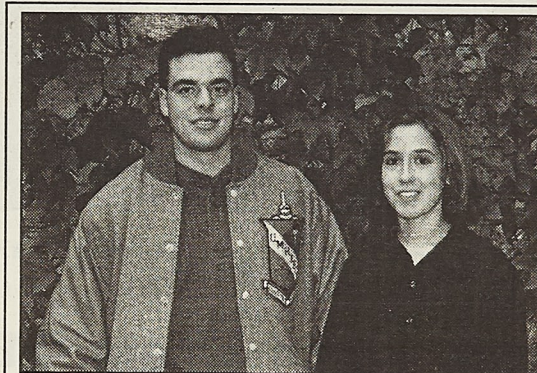
Elizabeth Morris is now a sophomore with cumulative GPA of 4.0 majoring in geology/geophysics. She is actively involved in many organizations such as Chi Omega sorority and Student Council. She has had numerous awards for her hard work and now she can add one more.

Robert Moashegian II is the male recipient of the scholarship. Robert has maintained a 3.32 GPA majoring in chemical engineering.

While here at UMR, Robert has been involved with Tau Kappa Epsilon Fraternity, Interfraternity Council and the UMR traveling hockey team. His active involvement and well-balanced lifestyle made Robert the clear winner for the award.

Theta Tau Omega has awarded these scholarships for many years with this year being the first to award two awards: one female, one male. This year the scholarships were worth \$250 and have the possibility of being raised for next year's recipients.

So, freshmen, if you would like to be eligible next fall, you need to keep on those books and take leadership roles in your campus organizations.



Robert Moashegian II and Elizabeth Morris

Photo by Boyd Niesen

**Gold Miners recruiting**

by Natalie Dixon

**UMR Gold Miners**

If you like to dance, here's your chance! The UMR Gold Miner Dance Squad will hold tryouts next week for the 1997-98 basketball season. The squad dances at the ladies' and men's home basketball games, both on the sidelines during the games and on the court during halftime.

In order to try out, a person must attend four hours of clinics. The clinics are scheduled for Tuesday, November 18 - Friday, November 21.

Tuesday, Wednesday and Thursday, clinics will be from 7 to 10 p.m. Friday's clinic will be from 6 to 8 p.m. Tryouts are Saturday, November 22 at 10 a.m.

If you have any questions, please feel free to contact Natalie Dixon at ndixon@umr.edu or Natalie Phelan at nat@umr.edu. We'd be happy to answer any questions you may have. Gold Miners is a great way for people who love to dance to stay in shape and have some fun at the same time. We hope to see you next week!

**Tau Beta Pi offers seminar**

by Genevieve DuBois

**Tau Beta Pi**

The Missouri-Beta (UMR) chapter of Tau Beta Pi will sponsor an Engineering Futures Seminar on Saturday, November 15, from 10 a.m. till 2 p.m. in the Mark Twain Room in UC-East.

Engineering Futures is a training program put together by our national Tau Beta Pi office from material that Fortune 500 companies use to train their employees in the areas of people skills, team building, leadership, etc. Tau Beta Pi sells this service to companies for a

rather hefty sum, but provides it free of charge to student chapters of Tau Beta Pi. Members of Tau Beta Pi and freshman who will be in EG-10 next semester are strongly encouraged to take advantage of this opportunity to enhance their interpersonal skills in preparation for the "real world."

This semester's session is on Team Building. There is only space for about 35 students so if you are interested and would like to sign up or have any questions, contact Anika Stuckenschneider via email: anika@umr.edu. Lunch will also be provided.

**Student Council**

American Red Cross

**Blood Drive**

Wednesday and Thursday

November 19 &amp; 20, 1997

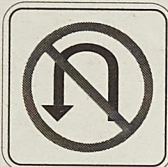
UCE - Centennial Hall

10:30AM to 4:30PM

COOKIES, PIZZA, &amp; BEVERAGES

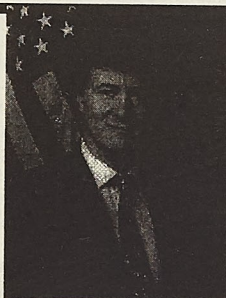
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Muscular Dystrophy Association  
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**House Speaker Steve Gaw**

The Associated Students of the University of Missouri (ASUM) will be hosting a dinner with guest Missouri House Speaker Steve Gaw on December 3, 1997 in the Carver-Turner Room in UCE from 6:00-7:30 p.m.

Open to all UMR students, faculty and staff. R.S.V.P. deadline December 1, 1997.  
341-4970 ♦ umrasum@umr.edu ♦ www.umn.edu/~umrasum

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# Sports



Miner cross country runner Ben Mulvaney competing in a meet Sept. 13, 1997. Mulvaney has qualified for nationals for a second year in a row.

photo courtesy of Rod Lentz

## Cross Country senior Ben Mulvaney qualifies for Division II Nationals

by Brad Neuville  
Assistant Sports Editor

On Saturday, November 22, senior Ben Mulvaney will make his second straight trip to the Division II National Cross Country Championships after placing fifth in the Great Lakes Regional on Saturday, November 8 in Kenosha, Wisconsin. Mulvaney was the number one individual qualifier in the region--the four runners ahead of him all went to nationals as a team--and therefore took one of the two individual spots open for the national meet which will be held on the same course as regionals. Mulvaney finished in a personal record time of 31:30 on the 10 kilometer course.

Mulvaney was the leader on a Miner team that placed seventh out of 22 teams at the regional meet. Junior Matt Hagen was second for the Miners, crossing the finish line in 32:37 which put him in 21st place. Sophomore Kevin Johnson was next for the Miners crossing in 33:14 and placing 38th. Senior Craig McCauley finished in 54th place with a time of 33:52 while Junior Dan Saylor rounded out the scoring with a 79th place finish in 34:35. Each of the team members set personal records for a 10 kilometer course, according to coach Sarah Preston.

"We were pretty happy with the men's finish," Preston said. "The top five teams from our region go on to nationals and our goal all season was to be that number five team. We had some

injury problems all year which slowed our progress some, but other than not reaching our original goal I was very happy with our finish. Ben [Mulvaney] obviously had an excellent race, and I thought that Matt [Hagen] was exceptionally good as well. He moved up quite a bit from conference and ended up beating several people who finished ahead of him at the conference meet. Kevin Johnson put it together really well and Craig [McCauley] and Dan [Saylor] each had a solid race."

Rounding off the regional team for the Miners were sophomore John Sanders who finished in 97th place with a time of 35:06 and freshman Tim Albers who crossed in 125th place in 35:42. The Miners were the number three team from the MIAA conference at regionals, beating out conference rivals Truman State, Pittsburg State and Emporia State. UMR's score of 193 was 38 points off of the fifth place finish that would have sent them to nationals as a team.

"This is one of the strongest regions in the country," coach Preston said. "There are six regions with 17 teams total going to national meet and our region gets five teams to the national meet. Sometimes we are taken for granted in our conference. With this finish I think we really established ourselves in the conference."

"We really try to train for the 10 kilometer distance," coach Preston said. "We work a lot on strength early in the season and usually don't get to speed

training as early as other teams. We sometimes have a mediocre middle of the season because of that but it really paid off in the end."

The women had an excellent race as well according to Preston.

"We were really happy with the women's race. This was one of the highest places in recent memory [11th place]. Last year we took 16th, so that's a real improvement. Our goal was to finish in the top 10 and we only missed that by one point. That was somewhat of a disappointment, being so close to our goal, but we were really happy anyway."

Sophomore Sheri Lentz lead the team with a 42nd place finish, crossing the finish line with a time of 19:52 in the five kilometer race. Following close behind was senior Tracy Jones who crossed in 19:59 good for 48th place. Senior Jennifer Frazer was next for the Lady Miners placing 59th with a time of 20:09. Right behind was junior Sheryl Ziccardi who finished in 69th place crossing in 20:19. Rounding off the scoring for UMR was senior Mindy Settles who finished 111th with a time of 21:16.

"Sheri had a really strong race," coach Preston said. "Sheryl has improved quite a bit all year and Mindy did very well compared with her earlier times. We needed our number five person to come through to accomplish what we wanted to and she did that for us. I thought the women had a much stronger race than they had at conference."

see Mulvaney on page 14

## Soccer closes season as MIAA co-champions

by Todd Monroe  
Staff Writer

The 1996-97 soccer season has reaches its end for the University of Missouri-Rolla Miners. The scheduled game on Wednesday, November 5, was canceled due to rain, leaving the Miners with a record of nine wins and eight losses.

The season has been a production of accomplishments for the men's team. After beginning the season with a somewhat meager start, the men were able to pull together and secure enough crucial victories in the all-important conference games to earn a conference co-champion title.

Coach Mark Salisbury discussed the early part of the season and said, "I think we had a lot of distractions on our team. Most specifically with the guys, I felt that the loss of Pat Boyce this summer, really distracted our guys. That hurt. It distracted the guys and kept them from really concentrating on playing. You can't fix that. We did start out kind of slow, at 1-3, but we finished 9-8. We did pick it up, and we did get better."

The men's team set up goals for themselves at the beginning of the season, including winning 12 games and winning the conference. Although the men came up a little short on the number of games goal, they were able to capture the conference title, something they had never done before.

Salisbury said, "I don't think we met all of our expectations, we met some of them, but we didn't meet all of them. I think that we got better, and I believe that we are just taking a little bit longer with the guys to break through, but I do think that we are going to be a good team."

The men's team did exceed expectations of others. The Miners were ranked to finish third or perhaps second in the conference at the opening of the season.

The UMR Miner team includes B.J. Stuhlsatz, Nathan Wojciekiewicz, Gevan McCoy, Mike Kiefer, Greg Naslund, John Almeida, Brian Koscielski, Chris Leonard, Jon Kwantes,

Scott Vogelsang, Joe Young, Matt Long, Alan McMahon, Conor Magee, Matt Morris, Joel Warneke, Jarred Rhea, Ashley Dupree, Kevin Levy and Jeff Hougland.

Three seniors will not be returning next year for the Miners and these include Kwantes, McCoy and Kiefer.

Season results began Aug. 30, with a 3-2 loss to Northeastern State, and continued with a 4-3 loss to Lincoln Memorial on Sept. 6, a 3-1 victory over Christian Brothers on Sept. 7, a 4-1 loss to Columbia College on Sept. 10, a 2-1 win over Missouri-Valley on Sept. 12, a 2-1 win over Missouri-St. Louis on Sept. 16, a 2-1 win over William Woods on Sept. 20, a 2-1 victory over Missouri-Southern on Sept. 21, a 5-0 loss to Rockhurst on Sept. 26, a 1-0 overtime loss to St. Joseph's on Oct. 3, a 5-0 loss to Quincy on Oct. 7, a 6-0 victory over Southwest Baptist on Oct. 10, a 4-2 win over Missouri-Baptist on Oct. 17, a 3-1 win over Central Methodist on Oct. 19, a 1-0 loss to Drury on Oct. 22, a 2-1 overtime loss to Truman State on Oct. 29, and the season finished with an upswing with a 12-1 victory over Lincoln on Nov. 1.

For the season the Miners in 17 games finished with 237 shots to their opponents' 152, 43 goals to their opponents' 33, 35 assists to their opponents' 21, and 121 points to their opponents' 87.

The Miners finished with a goals-against-average of 1.89. Goalkeeper Kwantes recorded one shutout with no saves in one game of tending goal. Levy in 11 games faced 88 shots on goal, recording 45 saves, 14 goals allowed, and a goals-against-average of 1.40. Hougland, in nine appearances at goalie, faced 63 shots on goal, tallying 19 goals allowed, 22 saves, and a goals-against-average of 2.61.

Stuhlsatz in 16 games recorded 38 shots, 11 goals, three assists, and 25 points. Wojciekiewicz in 16 games recorded 26 shots, seven goals, four assists, and 18 points. McCoy in 14 games contributed 35 shots, five goals, four assists, and 14 points. Kiefer in 17 games tallied 21 shots, three goals, seven as-

see Lady Miners on page 14

## M-Club Athlete

### Ben Mulvaney

This Week's Athlete of the week is senior cross-country runner Ben Mulvaney. Ben placed fourth at the MIAA cross-country championships on October 25 finishing in a personal record time of 25:45.5, just 11 seconds behind last year's NCAA Division II national champion.



of the week



## Lady Miner Soccer

# UMR Women win thriller over SIU-E

by Todd Monroe

Staff Writer

The University of Missouri-Rolla women's soccer team ended the 1996-97 season in dramatic fashion this past Sunday, November 9th, in Rolla.

The Lady Miners were faced off against Southern Illinois University-Edwardsville at 1 p.m. in front of a good crowd of fans under cloudy skies and 45 degree temperatures.

The game did not lack in intensity as the women overcame deficits three times before defeating SIU-E in overtime 5-4.

UMR opened the scoring 48 seconds into the game when Amber Fischer scored on a far wing shot, assisted by Natalie Sanders and Lizz Szkrybalo.

The Lady Miners would cling to this lead for nearly 44 minutes before SIU-E answered with an unassisted goal from JoAnne Drake from about 25 yards out. SIU-E took the lead a few minutes later via a goal from Lynda Bowers from 20 yards, assisted by Megan Beagles.

UMR evened the score with a goal from Skrybalo, a cross and shot from 15 yards, assisted by Dena Burns.

SIU-E surged ahead once more at the 72 minute mark of the game, when Tori Mrakava scored from 10 yards, the feed coming from Bowers.

The seesaw action of the game continued as seven minutes later UMR again answered with a score from Sanders from a distance of ten yards, assisted by Fischer and Szkrybalo.

Ten minutes later with the end of regulation approaching, SIU-E was awarded a penalty kick, which they took advantage of and were able to reclaim the lead with the goal by Janece Freiderich.

At this point, Coach Mark Salisbury received a red card and had to leave the field.

Undaunted, the Lady Miners sent the game into overtime as time ran out, the goal coming from Alison Hanson who sent the ball into the net

off of a corner kick from Amber Fischer.

Both teams battled for over eleven minutes in the overtime, before Natalie Sanders pleased the crowd with the triumphant goal, as she stole the ball from the goalkeeper and drove in for the winning score. The win was the first one ever for the women's team over SIU-E.

Coach Salisbury felt that the crowd was a tremendous boost for the team, and said, "It was great to have so many fans out there, because I really think that helped us through. We had to come back from a deficit three times. You don't do that just by yourself, it's hard to do. We had a great crowd out there. I know that all of our team wants to extend a big thank you to all who came out. It really helps our team, and it was wonderful. It's too bad I missed our last two goals. It was a great way to end the season, and a fitting end to Natalie Sanders incredible career as a player here. She scored twice and scored the winning goal in overtime. You couldn't write it up better if you tried. My wife told me that people in the stands were crying." Starting the game for UMR were Michelle Johnson, Jen Splaingard, Crissie Eckhoff, Kim Hydeman, Tami Bowman, Sanders, Fischer, Lori Douglas, Denise McMillan, Connie Meyers, and Lizz Szkrybalo. Coming off of the bench were Hanson, Burns, Sara Rudy, Kelly Thomas, and Heather Morgan.

Starters for SIU-E included Stacy Wade, Beagles, Kristi Stedman, Rebecca Mays, Alison Arnold, Karen Tighe, Freidrich, Michelle Montgomery, Jennifer Haselhorst, Megan Stewart, Bowers.

Coach Salisbury discussed the season and said, "We met all the goals that we set for ourselves. We set three goals. We wanted to score

more goals, and not give up as many, and except for today, we definitely didn't give up as many, our team defending is much better. We wanted to win at least twelve games, and we did that, and we wanted to be in the top five in the region, and we were. Really, this team basically rewrote all the record books in terms of team record, best start in school history, most wins, best goal-keeping, most points in a season. Natalie had 24 goals and eight assists and I think that is a record. Really we did more than just meet our goals, we far outdistanced them."

At the beginning of the season the team was not ranked. Before Coach Salisbury arrived the women's soccer program had one winning season in fifteen years. This year was a big turn according to Salisbury who said, "This was an incredible year. We were not expected to beat anybody at all. I talked to coaches around the league who'd say 'Who are these guys? They're having a great year.' Hopefully, now we've been able to put ourselves on the map a little bit."



Sophomore Lori Douglas takes the ball down the field in the Lady Miner's last game.

photo by Wendy Hoffman

This season the Lady Miners defeated teams which prior to this year, UMR had never beaten before, including Quincy, University of Missouri-St. Louis, and SIU-E.

The Lady Miners will lose three senior players. These include Sanders, Bowman, and Fischer. Salisbury said that through improvement of players, players stepping up, and everyone else picking up the slack, the Lady Miners intend to form a formidable team next year.

On a singular note, Natalie Sanders ended her career with very high rankings in several soccer categories. Prior to Sunday's game she was ranked fifth among NCAA Division II goal leaders with 73. The first place holder is Heidi Schubert from New Hampshire College who in 1983-86 scored 107 goals. Sanders was ranked 11 in points per match for the season with 2.83, and ranked 10th in the category of goals per minute.

Goalkeeper Michelle Johnson, also prior

see Women on page 14

## Miner Match-up

### Southwest Baptist at UMR Miners

Site: Jackling Field  
Date: Nov. 15, 1997  
Time: 1 p.m. CDT

1997 Record

UMR: 2-8

Southwest Baptist: 0-9

## Players To Watch

UMR: Offense- Matt Brueckner (QB), Elliot Jackson (WR), Jason Wagoner (TB)  
Defense- Brian Lewis (DL), Jeff Fulks (DB)

**Fast Fact:** Southwest Baptist has not won a game since 1995 and is averaging just nine point per game on the season.



## Emporia State crushes Miner football in 77-20 rout at home

by Jonathan Erdman

Sports Editor

The Emporia State Hornets crushed the University of Missouri-Rolla Miner football team by a score of 77 to 20. The Miners will face the Southwest Baptist University Bearcats Saturday Nov. 15 at home.

The first two scoring plays of the game were made by the Hornets' offense. The first score took the Hornets 2:10, five plays and 60 yards. The second occurred after a failed UMR drive that ended after one play with a fumble by William Feickert. Emporia quickly scored again in 51 seconds. Emporia failed the kick for the extra-point making the score 13-0. Ed Starks received a 54 yard kick and returned the ball to the ESU 39 for 50 yards. Two plays and 1:05 later, after a nine yard rush from Jason Wagoner and a 30 yard rush from Elliot Jackson, the Miners scored and brought the score to 13-7. It

was the last time the Miners would stay within seven points of the Hornets.

"We had a lot of trouble slowing down their offense. We knew, coming in, that they were the number one offensive team in the nation and they gave us problems. We got down right, early. We were in a pretty good position. We had them backed up in a long yardage situation, and got roughing the punter. It was 13-7 at that time. Then they took the ball after that penalty and drove it the rest of the way down the field, and made it 19-7. From that point on we just didn't have a whole lot of success slowing them down. They didn't want to be slowed down too much. They kept their star in the game the whole day to pad his stats," Miner Head Coach Jim Anderson said.

The Miners did not score again until the fourth quarter, after 34 points by ESU. The Hornets scored before the Miners in the fourth quarter which made the score 53-7. The Miners responded

with a five play and 52 yard drive that ended with a touchdown pass from David McCormack to Jackson for 29 yards that brought the score to 53-14. The Hornets scored 16 points before the Miners would score for the last time with a seven play 65 yard drive ending with a one yard rush by Jackson which made the score 69-20. Emporia scored again with 37 seconds left in the game which made the final score 77-20.

Despite the loss, Anderson believes a few UMR players performed well in the game.

"I think there was a number of players who played really well. The award that was given at the end of the game for defensive player of the game was awarded to Willie Halliburton, senior linebacker. He had 17 tackles, eight unassisted and nine assists and one tackle for a loss. Offensively Elliot Jackson scored all three of our touchdowns.

see Rout on page 14



# Lady Miner basketball begins season

## The young Lady Miner team enters a rebuilding season; looking to improve after exhibition against Goldstars

by Jonathan Erdman  
Sports Editor

A young University of Missouri-Rolla Lady Miner Basketball Team will open its season against the University of Missouri-Columbia Saturday in Columbia at 6 p.m. after a 77-55 exhibition loss to the St. Louis Goldstar team on Fri. Nov. 2, 1997.

According to head coach Linda Roberts the Miners will rely on returners Jamie Martens and Emily Mills, as well as transfer students Debra Gronewoller and Sarah Wilcox during the first few weeks of season play. Other returning Lady Miners are LeAnn Farmer, Amber Fischer and Ashley Steig.

"Jamie Martens is playing point guard for us right now, and she's a returner. She played a pretty decent game I thought, of anybody tonight [Nov. 2] I thought she shot the ball pretty well, and did a decent job defensively and getting us in our offense," Roberts said. "Emily Mills is going to have to be a scorer for us. She was one last year. When she gets those shot opportunities, she's going to hit them. She just wasn't in any kind of rhythm tonight, and it just made it tough on her. She'll get it going. She's a good player. Gronewoller and Wilcox are going to have to lead us on the inside until some of our freshman come around. We're playing a lot of young kids, and they're going to make mistakes, and they're going to struggle. Our upperclassmen are going to have to kind of carry us until we get our freshmen go-

ing."

Freshmen newcomers to the Lady Miner squad are Jamie Schroetlin, Ellen Eye, Amy Milliken, Miranda Beadles, Jackie Kelble and Shannon Perry.

"Miranda Beadles is going to be a nice player for us, I think. I hope Jamie Schroetlin is going to be a player for us when she gets over the knee surgery. I thought Shannon Perry did a decent job. At least she'll mix it up with people a little bit on the inside. Jackie Kelble, I

thought, played strong off the bench tonight. She probably did the nicest job of anybody coming off the bench in terms of getting out there and trying to make things happen, and being aggressive and being

strong. I thought she played pretty well. Those four freshmen are going to have to play for us a little bit," Roberts said. "Amy Milliken, I think, in time, can play a certain role on the team. Our freshmen are just going to have to have some time."

The Lady Miners are in a rebuilding phase this year, and have 10 games to get ready for conference play.

"We're kind of rebuilding this year, and it's going to take a little time. So, it's a good thing that we have six weeks or so, with some games to get under our belt and get on a roll before January," Roberts said. "You want to be playing your best basketball before the league starts, and you want to hopefully be able to make a run at the end."

After the exhibition with St. Louis Goldstar, Roberts believes that

the women need to improve upon their inside game.

"We've got to get more physical on the inside. We're playing too passively. We're not taking command in the paint. We're not being as aggressive in there as we need to be and having a controlling attitude in the paint instead of just reactive. And right now, our post players are really reacting to things rather than anticipating and controlling things. Hopefully, that will come the more games we play," Roberts said.

In addition to improving their inside play, Roberts believes the Lady Miners need to work on their outside game, and make a better showing than in their exhibition.

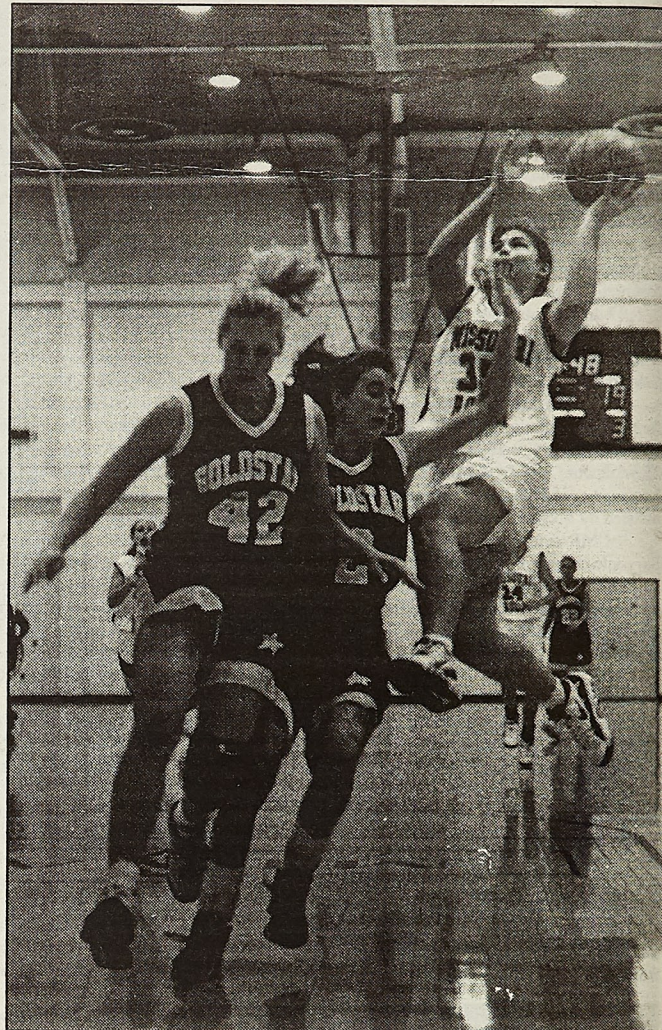
"We just need to shoot it better. I thought there were some times when we really struggled offensively, and made some poor decisions and turned it over. But, there were times when we got some good shot opportunities and we just didn't knock them down, and when you throw it away as much as we did tonight, it just makes the open shots that much more important, that you hit them. It just kind of steam rolled on us after a while."

Roberts is uncertain about her teams' strengths for the upcoming season, but did cite some areas that UMR needs to work on.

"I don't know what our team strengths are going to be. I've just got to see them play a lot more and keep evaluating as we go along," Roberts said. "We had too many turnovers. We didn't push hard on the inside. Our defense was soft where it should have been a lot tougher. We boxed out, but we didn't grab rebounds that were bouncing around on the floor. The decision making then got a little lax, and we made some poor decisions. We're just going to have to get back in the gym and get ourselves to clean up the mistakes. We made enough of them to learn from tonight."

The MIAA Preseason Coaches Poll is led by Emporia State in first, followed by Central Missouri State in second, Missouri Western in third, Washburn in fourth, Southwest Baptist in fifth, Pittsburg State in sixth, Northwest Missouri State in seventh, Truman State in eighth, UMR and Missouri Southern in ninth and Lincoln in 11th.

"Emporia State is ranked in the top 10 in the country pre-season poll. Central Missouri will be strong. Missouri Western will be strong. It kind of remains to be seen after that, but I think those three have the most potential right now," Roberts said.



Freshman Lady Miner Jackie Kelble takes a shot in the Lady Miners' exhibition game against the St. Louis Goldstars. The Lady Miners lost the game 77-55. The Miners open their regular season Sat. Nov. 14 against the University of Missouri-Columbia in Columbia Mo.

photo by Ryan Shawgo

## 1997-98 Schedule

DATE	OPPONENT	SITE	TIME
Fri., Nov. 14	Missouri	Columbia, Mo.	6:00 p.m.
Tues., Nov. 18	SIU-Edwardsville	Edwardsville, Ill.	7:30 p.m.
Fri., Nov. 21	Coe	Warrensburg, Mo.	5:30 p.m.
Sat., Nov. 22	Ottawa	Warrensburg, Mo.	5:30 p.m.
Tues., Nov. 25	William Woods	Rolla	7:00 p.m.
Fri., Nov. 28	Indiana-Purdue-Fort Wayne	Rolla	3:30 p.m.
Sat., Nov. 29	Northern Kentucky	Rolla	3:30 p.m.
Thurs., Dec. 4	Lincoln	Rolla	7:00 p.m.
Tues., Dec. 9	UMSL	St. Louis, Mo.	7:00 p.m.
Sat., Dec. 13	St. Francis (Ill.)	Rolla	1:30 p.m.
Sat., Jan. 3	Emporia State*	Rolla	5:45 p.m.
Mon., Jan. 5	Northwest Mo. St.*	Rolla	5:45 p.m.
Sat., Jan. 10	Missouri Western*	St. Joseph, Mo.	5:30 p.m.
Sat., Jan. 12	Truman State*	Kirkville, Mo.	6:00 p.m.
Wed., Jan. 14	Washburn*	Rolla	5:45 p.m.
Sat., Jan. 17	CMSU*	Rolla	5:45 p.m.
Wed., Jan. 21	Missouri Southern*	Joplin, Mo.	5:30 p.m.
Sat., Jan. 24	Northwest Mo. St.*	Maryville, Mo.	1:30 p.m.
Mon., Jan. 26	Pittsburg State*	Pittsburg, Kan.	5:45 p.m.
Wed., Jan. 28	Southwest Baptist*	Rolla	5:45 p.m.
Wed., Feb. 4	Pittsburg State*	Rolla	5:45 p.m.
Sat., Feb. 7	Truman State*	Rolla	5:45 p.m.
Wed., Feb. 11	Lincoln*	Jefferson City, Mo.	5:30 p.m.
Sat., Feb. 14	Washburn*	Topeka, Kan.	5:30 p.m.
Wed., Feb. 18	Missouri Southern*	Rolla	5:45 p.m.
Sat., Feb. 21	Southwest Baptist*	Bolivar, Mo.	5:30 p.m.
Feb. 23-27	MIAA Tournament	Campus Sites	7:00 p.m.

conference games indicated with a \*

## 1997-98 Roster

No.	Name	Pos.	Ht.	Yr.	96-97 ppg	Hometown
10	Jamie Schroetlin	G	5-9	Fr.	—	Yuma, Colo.
20	Ellen Eye	F	5-9	Fr.	—	Potosi, Mo.
21	Kerry Quinn	F	5-8	Jr.	—	Warrenton, Mo.
22	Emily Mills	G	5-8	Sr.	14.1	Whitesville, Ky.
23	Jamie Martens	G	5-6	Sr.	9.0	Concordia, Mo.
24	Amy Milliken	F	6-0	Fr.	—	St. Charles, Mo.
30	Debra Gronewoller	F	5-11	Jr.	—	Beloit, Kan.
31	Miranda Beadles	G	5-10	Fr.	—	Weston, Mo.
33	LeAnn Farmer	G	5-6	Sr.	7.9	Wayland, Iowa
35	Jackie Kelble	G	5-10	Fr.	—	Lenexa, Kan.
43	Amber Fischer	F-C	6-2	Sr.	6.3	Wyoming, Ohio
44	Shannon Perry	F	5-10	Fr.	—	Jackson, Mo.
52	Sarah Wilcox	C	6-1	Jr.	—	Lk. St. Louis, Mo.
53	Ashley Steig	C	6-2	So.	1.2	Palmer, Colo.

Coaching Staff: Linda Roberts, head coach (89-73, 6th year); Anita Keck assistant coach.



# Miners look to take MIAA by surprise

## The Miners will face a difficult non-conference schedule with only four returnees and nine players on the roster

by Brad Neuville  
Assistant Sports Editor

This year's Miner basketball team will look to improve on last year's 14-12 record and seventh place finish in the MIAA but, with no starters and only four members of last year's team returning, it may not be easy.

The Miners, who have only nine players on the roster, are ranked seventh in the 1997-98 MIAA Preseason Coaches Poll. UMR also has what coach Dale Martin called, "The toughest non-conference schedule in my 10 years as head coach."

The Miners will face NCAA Division I Rice on November 25, in Austin, Texas and will face a host of other excellent non-conference foes including the seventh ranked team in the NAIA, St. Mary's (Texas). UMR will also get a chance to avenge a defeat of two years ago at the hands of North Alabama that would have sent the Miners to the Elite Eight National tournament.

"That [the seventh place ranking in the conference] says a lot for our program," Dale Martin said. "We have only four returners and none of them have proven over the past couple of years to play a vital role in our success. It is a real testament to our program. The other conference teams see that we have maintained a very tough defensive team. A team that is mentally tough will play up-tempo basketball and will shoot very well from the perimeter. I think these are some of the reason's that played a large part in our being picked seventh."

Missouri Western is ranked number one in the preseason poll and is followed by Central Missouri State

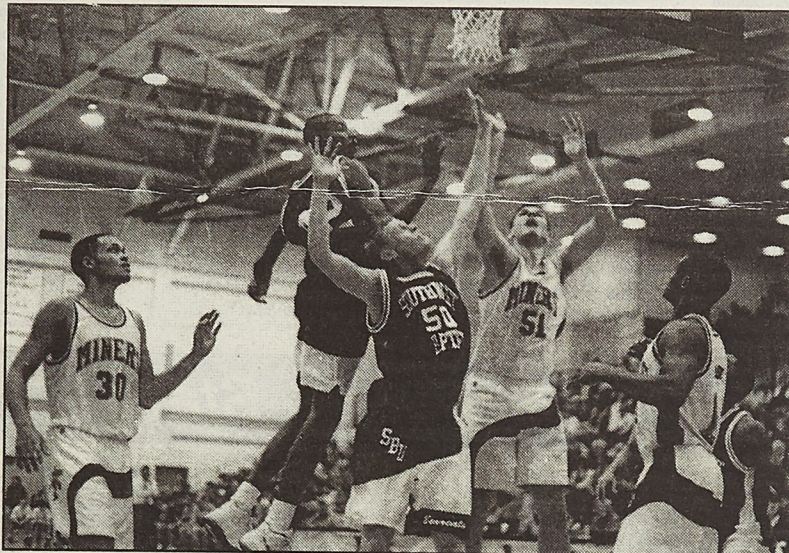


photo by Ryan Shawgo

Above: Junior C-F Ryan Matthews (30) looks on as graduate Jeff Cokal grabs a rebound. Matthews is one of only four returnees from last year's 14-10 (6-12) team.



photo by Ryan Shawgo

Top Right: Junior forward Marc Tompkins (44) puts up a lay-up in last year's 68-61 victory over Missouri Southern.

and Pittsburg State who are tied for second. Washburn is fourth followed by Missouri Southern and Northwest Missouri State.

UMR is next with Emporia State, Southwest Baptist and Truman tied for eighth and Lincoln rounded out the conference. Missouri Western returns eight lettermen from last year's team that qualified for the school's fifth NCAA Division II tournament appearance. The Griffon's experience should be tough to handle for the rest of the MIAA which has much talent but, in general, lacks experience.

According to Martin, the Miners look to offset their lack of experience with a quicker, stronger team than they've had in years past.

"I believe you will see a different team this year," Martin said. "We will be quicker on the perimeter and play a guard-oriented, pressure defense."

The Miners will look to junior Marc Tompkins and junior Ryan Pippett in the middle. Tompkins, who averaged 8.9 points per game and 4.7 rebounds per game is healthy this year after playing in only 16 games last year due to a bad back. Pippett, according to Martin, is having a great offseason and figures to be a big part of the Miners' attack. Backing up Tompkins and Pippett will be junior Ryan Matthews. Each of the three UMR frontcourt players are returners from last years team.

In the backcourt transfer student Robert Guster and junior returnee Kevin Conkright look to start with the other starting position still up in the air.

"Robert [Guster] will add a unique element to our team," Martin said. "He is defensively experienced and very tough. He is very tough and will give us good leadership and size [6'2"] at the point guard position."

Kevin Conkright received limited action last year but will be counted on this year for a physical presence in the backcourt. Beyond that Martin will be counting on young, inexperienced, but talented, young players. All three members of this year's freshman class will be in the backcourt and according to Martin, all show promise.

"Scott Holly is a very versatile player," Martin said. "He can defend

the 1 through 3 positions [point guard, shooting guard, small forward]. he had tremendous success in high school and is a great athlete. He also has shown good passing skills."

Cory Brunson is short at 5'10" but, according to Martin, makes up for his lack of size.

"Cory (Brunson) played the 2 position in high school and the 1 position in the summer," Martin said. "He brings a lot of toughness to the table."

"Our other freshman, Antoine Lucas, is a tremendous offensive player who put up some big numbers in high school," Martin said. "If he can hang in there and make the transition from a small high school to the Division II college level he should be really good."

The final player on this year's roster is transfer student Kevin Robertson. According to Martin, Robertson is a multi-faceted threat.

"Kevin [Robertson] is a tremendous shooting threat," Martin said. "He has the ability to really stretch out a defense. He can also go inside and score due to his decent size [6'2"],

190 lbs.]"

With the small roster everyone will need to contribute this year. Fatigue may become a factor if one or two of the players don't pan out early. Martin, however, is looking to spread out the minutes.

"We will use almost everyone night in and night out," Martin said. "We will have nine guys [averaging] in double figures in minutes. We will have three guys rotating inside. Robertson will play the 3 or 4 position [small forward or power forward] and the other five guys will work to perimeter."

The Miners' first game will be an exhibition against Dream Builders from Des Moines, Iowa. According to Martin this will be an excellent game.

"They are a good, big, physical team," Martin said. "We hope everyone will be there. Also, two of our players from a couple years ago, Jamie Brueggeman and Chris Austin play for them and it should be fun for some of the juniors and seniors to see those guys again."

## 1997-98 Schedule

DATE	OPPONENT	SITE	TIME
Sat., Nov. 15	Dream Builders (Exhibition)	Rolla	7:00 p.m.
Sat., Nov. 22	St. Mary's	San Antonio, Texas	7:30 p.m.
Tues., Nov. 25	Rice	Houston, Texas	7:35 p.m.
Fri., Nov. 28	Arkansas Baptist	Rolla	6:00 p.m.
Sat., Nov. 29	Rockhurst	Rolla	6:00 p.m.
Wed., Dec. 3	Westminster	Rolla	7:00 p.m.
Fri., Dec. 5	Arkansas Tech	Rolla	5:45 p.m.
Sat., Dec. 6	North Alabama	Rolla	7:45 p.m.
Sat., Dec. 13	Lincoln	Rolla	3:30 p.m.
Tues., Dec. 30	Arkansas Tech	Russellville, Ark.	7:30 p.m.
Sat., Jan. 3	Emporia State*	Rolla	7:45 p.m.
Mon., Jan. 5	Northwest Missouri State*	Rolla	7:45 p.m.
Sat., Jan. 10	Missouri Western*	St. Joseph, Mo.	7:30 p.m.
Sat., Jan. 12	Truman State*	Kirkville, Mo.	8:00 p.m.
Wed., Jan. 14	Washburn*	Rolla	7:45 p.m.
Sat., Jan. 17	Central Missouri State*	Rolla	7:45 p.m.
Wed., Jan. 21	Missouri Southern*	Joplin, Mo.	7:30 p.m.
Sat., Jan. 24	Northwest Missouri State*	Maryville, Mo.	3:30 p.m.
Mon., Jan. 26	Pittsburg State*	Pittsburg, Kan.	7:45 p.m.
Wed., Jan. 28	Southwest Baptist*	Rolla	7:45 p.m.
Wed., Feb. 4	Pittsburg State*	Rolla	7:45 p.m.
Sat., Feb. 7	Truman State*	Rolla	7:45 p.m.
Wed., Feb. 11	Lincoln*	Jeff. City, Mo.	7:30 p.m.
Sat., Feb. 14	Washburn*	Topeka, Kan.	7:30 p.m.
Wed., Feb. 18	Missouri Southern*	Rolla	7:45 p.m.
Sat., Feb. 21	Southwest Baptist*	Bolivar, Mo.	7:30 p.m.
Feb. 23-27	MIAA Tournament	Campus Sites	7:00 p.m.

conference games indicated with a \*

## 1997-98 Roster

No.	Name	Pos.	Ht.	Wt.	Yr.	96-7 ppg	Hometown
5	Cory Brunson	G	5-10	170	Fr	--	Evansville, In.
20	Robert Guster	G	6-2	185	Jr.	--	Monroe, La.
22	Antoine Lucas	G	6-3	170	Fr.	--	Lake Prov., La.
23	Kevin Conkright	G	6-3	185	Jr.	3.9	Lenexa, Kan.
24	Scott Holly	G	6-2	180	Fr	--	Alamogordo, N.M.
30	Ryan Matthews C-F		6-8	215	Jr.	3.1	Spring, Tex.
35	Kevin Robertson	G	6-2	190	So.	--	Jeff. City, Mo.
44	Marc Tompkins	F	6-5	218	Jr.	8.9	Conroe, Tex.
45	Ryan Pippett	F	6-7	220	Jr.	5.1	Des Moines, IA

Coaching Staff: Dale Martin, head coach (138-127, 11th year); Don Morris, assistant coach; Michael McClain, assistant coach



# Swimmers win two, lose heartbreaker to Truman

by Wendy Hoffman  
Staff Writer

The UMR men's swimming team continued its success this weekend with their triumph over University of South Dakota and University of Indianapolis on Saturday, November 8. This defeat was very encouraging for the Miners as University of South Dakota and Indianapolis are regulars at the Division II nationals. The Miners beat South Dakota 116.5-83.5, and Indianapolis 94.5-57.5 to add to their list of defeats for the beginning of the 1997-98 season. While they defeated the two teams they swam against on Saturday, they didn't go undefeated this weekend when they lost to Truman on Friday one point.

On Friday, November 7, UMR faced Truman State. The Miners took first place in three of the nine events and backed these scores up with nine second and third place finishes. The first event was the 400 relay medley in which the Miners came away with first place with a time of 3:35.09. The next event was the 1000 yard freestyle in which the Miners took second and third place. Junior Todd Lundberg finished second with a time of 10:20.19, and sophomore Brian Cunningham came next with a time of 10:37.00.

The remaining events were packed with more second and third place finishers and a few first place wins also. Sophomore David Nurre came back with two first place finishes in the 500 and 200 yard freestyle with times of 4:58.07 for the 500 and 1:47.52 for the 200. In the 50 freestyle, sophomore Tom Beccue came in a very close second place with a time of 21.83.

Despite all of their impressive showing at TSU, the Miners lost to Truman by one point. Yet, coach Mark Mullin is not discouraged by the meet.

"I would have liked to come away with a victory. We had all the opportunities given to us, but we weren't able to capitalize on them. We lost, but we learned a lot and came back on Saturday and were challenged and won. All individuals on the team performed well considering the number of events that were held in the short period of time," Mullin said.

The defeat by Truman did not discourage the Miner swim team from defeating the two teams they competed against during the Saturday meets. The Miners took first place in four of the eight races during the meet against University of Indianapolis. And in the rest of the events, the Miners mostly took up the second and third place spots which enabled them to come away with another defeat.

In the first event at the meet against Indianapolis, Nurre, Lundberg and Cunningham came in right after each other to take second, third and fourth place in the 500 freestyle with times of 4:55.08, 5:13.39 and 5:14.71, respectively.

Next came the 100 individual medley with freshman Josh Jolly taking first with a time of 55.91. Following close behind with second and third place were sophomore Steve Caruso with a time of 56.90 and sophomore Mark Pearce with a time of 57.86.

The Miners dominated most of the events during this meet, even though they were competing against tough schools. "The competition was very good and there were close races in every event," Mullin said.

The other top finishers in this meet were Beccue with a first place in the 50 freestyle with a time of 21.85 with senior Randy Jones following close behind with a third place finish of 23.17. The Miners came in first and second in the rest of the events to bring their overall score to 94.5 which defeated Indianapolis by 37 points.

The last meet of the weekend was against the University of South Dakota. The Miners placed first in every event and placed in

see Swimmers on page 14

## Miner Scores & Stats

### Women's Soccer

UMR - 1 2 2 1 -- 5

SIU-Edwardsville - 3 0 1 0 -- 4

#### Season Scoring Leaders

Points: Natalie Sanders, 50; Lizz Szkrybalo, 20; Jen Splaingard, 12.

Goals: Sanders, 22; Szkrybalo, 7; Splaingard, 5; Alison Hanson, 5.

Assists: Sanders, 7; Szkrybalo, 6; Crissie Eckhoff, 5.

### Miner Football

Emporia State 25 14 6 32 -- 77  
Missouri-Rolla 7 0 0 13 -- 20

Team Statistics	ESU	UMR
First Downs	34	18
Rushes-Yards	45-291	39-178
Passing Yards	411	102
Passes-Att-Comp-Int	35-29-0	14-5-2
Total Yards	702	280
Punts-Average	0-0.0	2-43.5
Fumbles-Lost	2-0	3-2
Time of Possession	35:46	24:14

### Swimming

Truman State University Duals

Truman State - 103, UMR - 102

UMR - 116.5, South Dakota - 83.5

UMR - 94.5, Indianapolis - 57.5

### Men's Soccer

#### Season Scoring Leaders

Points: B.J. Stuhlsatz, 25; Nathan Wojtiekwicz, 18; Gevan McCoy, 14

Goals: Stuhlsatz, 11; Wojtiekwicz, 7; McCoy, 5; Greg Naslund, 4.

Assists: Mike Kiefer, 7; Wojtiekwicz, 4; McCoy, 4.

### Miner Cross Country

#### Great Lakes Regional

##### Men

5. Ben Mulvaney, 31:30; 21. Matt Hagen, 32:37;  
38. Kevin Johnson, 33:14; 54. Craig McCauley,  
33:52; 79. Dan Saylor, 34:35; 97. John Sanders,  
35:06; 125. Tim Albers, 35:42.

##### Women

42. Sheri Lentz, 19:52; 48. Tracy Jones, 19:59;  
59. Jennifer Frazer, 20:09; 69. Sheryl Ziccardi,  
20:19; 111. Mindy Settles, 21:16; 145. Serena  
Jagtiani, 22:48; 146. Julia Kuseski, 22:56.

Stats courtesy of UMR Sports Information



# Comics

## DAVE

by David Miller



## MINER ADJUSTMENTS

By C. James

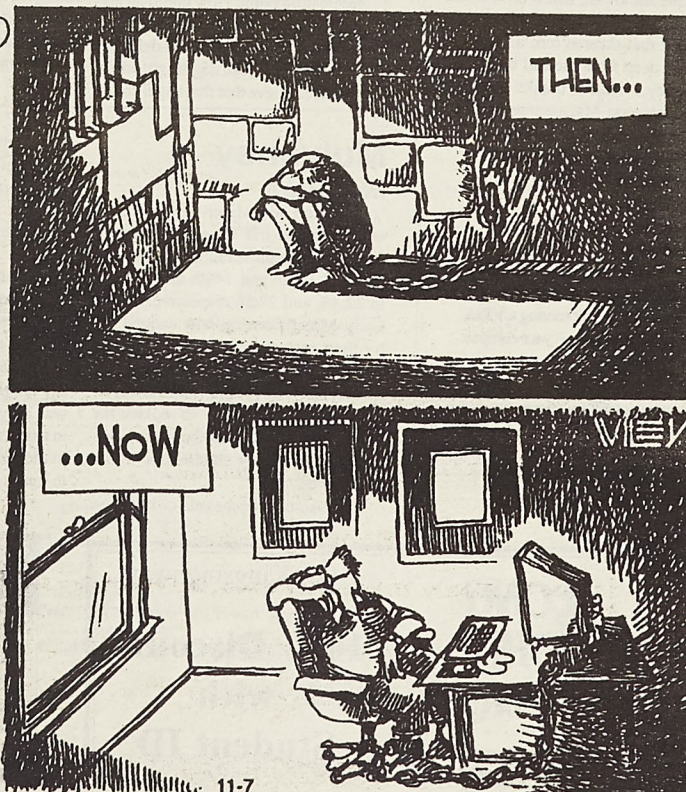


## THAT'S JAKE

by Jake Vest



## NON SEQUITUR BY VIEW



## Campus Gossip

The Miner is charging a \$0.25 fee for every gossip submission to The Miner. There are envelopes on The Miner Submission Box outside the office in 103A Norwood Hall.

To the Fraternities and select other men of UMR:

Thank you for helping us achieve our "Trick-or-Treating" goal! Your favorite hookers/burglars, Bambi and Candi

Cat,  
Good luck interviewing! You have one month to find the perfect toilet-making job!  
Your roomie

Bigg D,

We did it! We accomplished an amazing feat and touched our golds (and gold-plates)! Here's to the next challenge!

Little C

P.S. It sucks that we have to pay for campus gossip.

G.E. graduating seniors are awesome! Good luck with the "trash" presentations Thursday!  
the C.P.-MOB tree hugger



## Music

from page 6

of Chino's vocal acrobatics. Overall, I am giving the album a killer thumbs up. So far, out of the albums that I have reviewed, this is definitely one that gets in the "To be played a lot" section.—Jimbo

The Crystal Method  
Vegas

Outpost Recordings  
Performance: 9

Sound Quality: 9

The Crystal Method (TCM) is the American answer to the British dominated techno music scene. Ken Jordan and Scott Kirkland comprise TCM and have been part of the electronic music scene since they were kids growing up in Las Vegas. This explains the title of the CD and the various pictures of neon

lights printed on the sleeve.

Vegas is their first full length album and it packs over 61 minutes of electronic music into ten tracks which include "Trip Like I Do," "Busy Child" and the essential "Keep Hope Alive." The version of "Trip Like I Do" is nothing like the Filter/TCM collaboration found on the "Spawn" soundtrack. In fact, except for the bass line, it is almost impossible to tell that they are even the same song without looking at the title. "Busy Child" was released as a single earlier this year and it can also be found on MTV's Amp compilation. I say "Keep Hope Alive" is essential because there are seven remixes of it on eight different compilation CD's released since 1995.

With the exception of vocal snippets here and there, only two tracks have vocals on them (meaning someone singing throughout the song). This leads one to wonder what they do at a

live performance? TCM believes in playing their instruments on stage and allowing people to see exactly what they're doing. Overall, most techno groups bore me to tears. There might be one or two decent tracks on the CD but the rest is just repetitive electronic noise. I found this not be true with Vegas. Even with the long playing time the disc is still dynamic enough to take you on an electronic journey without losing its edge. I suggest you grab a copy and take that journey too.—Jimbo (Submitted by Jason S.)

### CD Releases:

Celine Dion - The Reason 11/18  
Metallica - Re-Load 11/18  
Rage Against the Machine - Video Feat 11/25  
Tupac - Are you still down, Remember me 11/25  
Method Man - Tical 2: Judgement Day 12/09

## Colors

from page 5

The article might have been referring to the decoration of your room and external surroundings. I am afraid it is the exact same story just in a slightly different key. I would safely say that I am a happy person.

Some of you may be wondering how this gives a color "power." Let me continue. If a color can affect someone's emotions, it therefore affects a person's decisions, and still even affects their outlook on a day. On a good day you will get a lot of necessary things done, feel good while you are doing it, and relaxed when it is all over. Tell me, honestly, could you have a "good day"

when feeling like you are wearing a color that is signaling to aliens passing near the Earth? I know I could not.

Colors have control, but you too control the colors. What you like, the color that is around you, and even appreciating the color of a strange solution in 'chem lab. You have some opportunity to choose the color of quilt on your bed at home (Then again, so does your mother, if she is anything like mine).

The next time you think you are going to have a bad day, specifically wear a color that makes you happy. If you think you are going to have a stressful day, wear a color that makes you relaxed and comforted. One more, if you think you are going to get a very hard test back, black is the way to go!

## Brain

from page 5

happens! I need to just move on and pray for a earthquake. Just kidding! I'm actually very positive about this brain thing. I'm renting "The Wizard of Oz" this weekend, so I will know all words. I think I'm just a little burnt out and I need a break. If I was younger I would co-op, but that is not an option at this point.

Well, if anyone else is missing their brain let me know and we'll start a support group for people with missing brains. Maybe we'll find them along the way to recovery. Until next week... Please laugh at my misfortunes and applaud yourself for being smarter than I am. But, HA I'll still get a job!! Again I wish everyone love, peace and happiness and for those missing their brains I wish their brains a safe trip home sometime soon.

## Swimmers

from page 12

the second and third spots in most of the eight events. In the first event, Nurre placed first with a time of 10:27.07 in the 1000 freestyle with Cunningham and senior Brandt Modlin coming in close behind with times of 10:32.06 and 11:09.51, respectively.

The next event was the 200 freestyle with Caruso coming in first by two seconds with a time of 1:48.54. After that, Beccue got first place in the 50 freestyle with a close time of 22.09. Next came the 100 butterfly, in which the Miners went one, two and three. Caruso finished first in 53.60, then came junior Evan Aspinwall in 57.38, and then Modlin with a close time of 57.96. Other events that the Miner team took over were the 100 freestyle with Beccue coming in first with a very close time of 48.80, and the 100 backstroke with Jolly coming in first with a time of 54.49.

"By looking at it in the long term, it was a great and beneficial weekend for us and has helped us prepare for the meets at the end of the semester in December and conference. This weekend allowed us to swim three sessions in a small amount of time," Mullin said.

The Miner swim team will compete against Drury on November 14 in Rolla at 6 p.m.

## Rout

from page 9

He had two rushing touchdowns and a touchdown receiving. Our special teams player of the game was Ed Starks, who had three kickoff returns for 100 yards," Anderson said.

Anderson believes the Miners are ready for their last game. The Bearcats have been winless this season, and their last season. Anderson thinks the Miners will have to play well, offensively and defensively, to win the game.

"I think that we're going to have to play a very emotional game, and execute well on both sides of the football. I know that SBU is going to come in here thinking that this is the last opportunity to get a win this season. They haven't won in two years now, and they're going to be ready to play. But I can also guarantee that the Miners are going to be ready to play," Anderson said.

## Women

from page 9

to Sunday's game was ranked tenth in goals-against-average, at .71. She also had 53 saves and 10.5 SHO's.

UMR's team defense was ranked ninth in goals allowed per match with .72.

Team player statistics after the game were as follows: Sanders: 18 games played, 24 goals, eight assists; Lizz Szkybalo: 18 games played, eight goals, eight assists; Splaingard: 18 games played, five goals, two assists; Kelly Thomas: 18 games played, four goals, three assists; Alison Hanson: 18 games played, five goals, 0 assists; Amber Fischer: 14 games played, three goals, four assists; Crissie Eckhoff: 18 games played, one goal, five assists; Heather Morgan: nine games played, two goals, one assist; Kim Hydeman: 18 games played, two goals; Sara Rudy: 18 games played, one goal, two assists; Lori Douglas: 18 games played, one goal, one assist; Denise McMillan: two assists; Connie Meyers: 18 games played, one assist; Dena Burns: 15 games played, one assist; Michelle Johnson: 18 games played, one assist; Amanda Gilbertson: three games played.

The UMR Lady Miners finished their season with a record of 15-3-1. Eleven of those wins were shutout victories. Two of their three losses were by a margin of one goal.

## Bad things

from page 5

"But isn't it also a bad thing to get all your fingernails ripped off by one?" I replied, "What if they were ripped off by an angel?" Everyone replied in unison: "Then it would still be a bad thing." And then there were two things that were decidedly bad - even if done by an angel. But that wasn't all. There are many other very bad things. Another very bad thing that we decided on was spilling a high concentration of hydrosulfuric acid in your cup and then drinking it - even if it was spilt by an angel. We went on and on. After many more things that we decided were bad - even if done by an angel - we went on to other things.

But then we came to another interesting point: How could an angel defecate? I finally decided that if an angel said "he" could defecate on you, well (gosh dagnit!) then I'd sure believe that that angel could

defecate on me, and I sure would not ask that angel to prove it. But then my friend Kyle said that angels were pure energy, pure ethereal life forms, pure spiritual entities without corporal bodies and therefore could not defecate at all. But if an angel said he could then chances are, using some "angel magic," that angel could, in fact, defecate on you. But then John said that if they were "ethereal," then would their defecation be lighter than air? Would an angel have to defecate upside down? Many of these questions popped up and we all received major headaches. And that, my friends, is a very bad thing.

So now we decided on the worst thing of all. The worst thing of all is getting a major headache while talking about very bad things. The effect caused here is a very bad thing - even if it was caused while talking about angels. So, you see, never start talking about very bad things or one of them will happen to you.

## Mulvaney

from page 8

The Lady Miner regional team was rounded off by senior Serena Jagtiani and freshman Julia Kuseski who finished 145th and 146th and crossed in 22:48, and 22:56 respectively. The Lady Miner's season was capped off by their regional performance which, according to coach Preston, was the best of the year. Next year's team, however, will have to find a way to replace the five senior varsity members from this year's team to stay competitive in the conference.

"Across the board, in both the

men's and women's races, we had no bad races this weekend," Preston said. "Of course as a coach I'm never satisfied and there is always room for improvement, but overall I was really pleased. Anything less would have been a disappointment and anything more and we would have been elated."

Preston will have the chance for elation on the 22nd when she and Mulvaney return to Kenosha, Wisconsin for the national meet. Mulvaney was only 12 seconds off of first place in what is arguably the toughest regional in the conference and has a real chance to make some noise at nationals.

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# Employment

## Full-Time

**AMERITECH CELLULAR SERVICE** Method: PRS-CLOSED  
 500 Maryville College  
 St. Louis, MO 63141  
 Attn: Mr. Vince Zagarri, Engineering Manager  
 Degree Level: B Minimum GPA: 2.000  
 Majors: ELEC CMPS  
 Grad Dates: 0597 0797 1297  
 Citizenship: US/Perm  
 Position Available: Electrical Engr; Comp Sci Engineer  
 Position Location: Chesterfield, MO  
 This schedule set up from resumes sent to the company previously.  
 These are 45 minute interviews.

**EMPOWER TRAINERS & CONSULTANTS** Method: PRS-CLOSED  
 12101 Woodcrest Exec Drive  
 St. Louis, MO 63141  
 Attn: Ms. Susan Brenner, Recruiter  
 Degree Level: B Minimum GPA: 3.000  
 Majors: CMPS MGTS  
 Grad Dates: 1297 00  
 Citizenship: US/Perm  
 SCHEDULE BEING SET UP FROM RESUMES COLLECTED AT THE CAREER FAIR.

**KIMBERLY CLARK CORPORATION** Method: PRS-OPEN  
 480 Exchange Avenue  
 Conway, AR 72032-7191  
 Attn: Mr. Kay Keberlein, Recruiting Assistant  
 Degree Level: B Minimum GPA: 2.950  
 Majors: ELEC MECH  
 Grad Dates: 1297 0598 0798  
 Citizenship: US/Perm  
 Position Available: Mechanical Engr; Electrical Engr  
 Position Location: Conway, AR & other U.S. locations  
 Deadline for submitting resumes: November 7  
 Information on positions available in 301 Norwood Hall  
 www.kimberly-clark.com

**MANSFIELD PLUMBING PRODUCTS** Method: Open  
 PO Box 472 Highway 259  
 Kilgore, TX 75663  
 Attn: Mr. Jim Gilson, Operations Manager  
 Degree Level: B Minimum GPA: 2.000  
 Majors: CER  
 Grad Dates: 1297 0598 0798  
 Citizenship: US/Perm  
 Position Available: Ceramic Engineer  
 Position Location: Kilgore, TX  
 OPEN SIGN-UP DATE: Immediately  
 SCHEDULE BEING SET UP FROM RESUMES SENT TO THE COMPANY BY THE  
 DEPARTMENT AND BY OPEN SIGN-UP.

**NATIONAL STEEL COMPANY** Method: PRS-FCFS  
 1951 State Street  
 Granite City, IL 62040  
 Attn: Ms. Michele Henry, Human Resources Represent.  
 Degree Level: B Minimum GPA: 2.500  
 Majors: ELEC MECH  
 Grad Dates: 1297 0598 0798  
 Citizenship: US/Perm  
 Position Available: Management Position  
 Position Location: Granite City, IL  
 THIS SCHEDULE SET UP FROM RESUMES COLLECTED AT THE CAREER FAIR  
 www.nationalsteel.com

**NATIONAL STEEL COMPANY** Method: Open  
 1951 State Street  
 Granite City, IL 62040  
 Attn: Ms. Michele Henry, Human Resources Represent.  
 Degree Level: B Minimum GPA: 2.450  
 Majors: EMAN  
 Grad Dates: 1297 0598 0798  
 Citizenship: US/Perm  
 Position Available: Management Associate  
 Position Location: Granite City, IL  
 OPEN SIGN-UP DATE: November 11 - 8:00 a.m.  
 www.nationalsteel.com

**SANDIA NATIONAL LABORATORIES** Method: PRS-OPEN  
 PO Box 5800 MS/1023  
 Albuquerque, NM 87185-0723  
 Attn: Ms. Bonnie M. Townsend  
 Degree Level: B M PhD Minimum GPA: 2.950  
 Majors: ELEC CMPS  
 Grad Dates: 1297 00  
 Citizenship: US Only  
 Position Available: Information not available  
 Deadline for submitting resumes: November 14  
 www.sandia.gov

**SEAGATE TECHNOLOGY** Method: PRS-OPEN  
 8001 E Bloomington Freeway  
 Bloomington, MN 55420  
 Attn: Mr. Ryan Sjoblad, HR Assistant  
 Degree Level: B M PhD Minimum GPA: 2.950  
 Majors: ELEC CMPS MECH  
 Grad Dates: 0597 1297 0598 0798  
 Citizenship: US/Perm  
 Position Available: Electrical Engr; Computer Engr  
 Position Location: Bloomington, MN  
 Deadline for submitting resumes: November 13  
 www.seagate.com

**SPORLAN VALVE** Method: Open  
 206 Lange Drive  
 Washington, MO 63090  
 Attn: Mr. James L. Jansen, Manager Product Support  
 Degree Level: B Minimum GPA: 2.450  
 Majors: EMAN MECH  
 Grad Dates: 1297 00  
 Citizenship: US/Perm  
 Position Available: Sales Engineer  
 Position Location: Train in Washington, MO then to major U.S. city  
 OPEN SIGN-UP DATE: Immediately  
 PRE-RECRUITMENT MEETING: Tues, November 11, 7:00 p.m.-201 Norwood Hall



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TAD TECHNICAL SERVICES  
1803 W Detweiler Drive  
Peoria, IL 61615

Method: Open  
Interview Date: 11/19

Attn: Ms. Amy Tourtillott, Technical Recruiter  
Degree Level: B M Minimum GPA: 2.650  
Majors: AERO ELEC CMPS MECH  
Grad Dates: 1297 00

Citizenship:

Position Available:

Position Location: Information not available

OPEN SIGN-UP DATE: November 12 - 8:00 a.m.

PRE-RECRUITMENT MEETING: Tues, Nov 18 - 7:00 p.m. - 201 Norwood Hall  
THIS IS A CONTRACT COMPANY

U.S. DEPT OF DEFENSE-NAVY

Method: Open

1222 Spruce St., 10th

Interview Date: 12/02

St. Louis, MO 63103-2814

Attn: CWO4 Les Lentz, Officer Programs Recruiter

Degree Level: B M Minimum GPA: 2.950

Majors: ENG CMPS CHEM AMTH PHYS GEOL

Grad Dates: 0597 1297 0598 0798

Citizenship: US Only

Position Available: Nuclear & Civil Engrs

Position Location: Worldwide

OPEN SIGN-UP DATE: November 18 - 8:00 a.m.

www.navyatlouis.com

#### CHANGES

WorldCom - Recruiting date CHANGED to November 20, 1997

#### CANCELLATIONS

St. Louis Bridge - St. Louis, MO

11/14/97 recruiting date - CANCELLED

## Summer

SANDIA NATIONAL LABORATORIES

Method: PRS-OPEN

PO Box 5800 MS/1023

Interview Date:

Albuquerque, NM 87185-1023

Attn: Ms. Bonnie Townsend

Must be Freshman or Sophomore Level

Minimum GPA: 2.950

Majors: ELEC CMPS

Citizenship: US Only

Position Available: Summer Intern

Position Location: Information not available

Deadline for submitting resumes: November 14

www.sandia.gov

#### CANCELLATION

St. Louis Bridge, St. Louis MO

11/14/97 recruiting date has been CANCELLED

# Financial Aid

## RURAL MISSOURI, INC.

If you have been employed as a farmworker in the past two years, you may be eligible to receive free tuition assistance for your education. If you have worked as a farm, orchard, greenhouse or poultry/egg production employee, you may qualify. To obtain details and the field representative closest to you call 1-800-234-4971.

## CHRYSLER ANNOUNCES NEW SCHOLARSHIP PROGRAM

With an eye toward assisting outstanding college bound students, Chrysler Corporation recently awarded 1,000 grants to 40 recipients through its new Junior Golf Scholarship Program. Even though the majority of the winners play golf, all selections were made based upon their academic and extracurricular effort. For more information on this exciting program call 1-800-856-0764.

## DEPARTMENT OF THE ARMY U.S. ARMY HEALTH PROFESSIONAL SUPPORT AGENCY

Let the Army pay your way through Medical, Dental Optometry School, or a Doctoral level degree in Clinical/Research Psychology. Scholarship includes: full tuition, required books, lab fees, required equipment rental, \$865.00 monthly stipend.

FOR MORE INFORMATION ON ARMY SCHOLARSHIP OPPOR-

TUNITIES CONTACT: CAPTAIN DINO L. MURPHY OR MRS. SHARON MACKENZIE AT 1-800-829-0924.

## THE JOHN GYLES EDUCATION FUND SCHOLARSHIP

The John Gyles Education Fund is a private, benevolent endeavor established seven years ago with the help of a Canadian/American benefactor. Each year financial assistance is available to students in both Canada and the United States. Full Canadian or American citizenship is a requirement. Awards are available to both male and female students for all areas of post-secondary study. A minimum GPA of 2.7 is required. Criteria other than strictly academic ability and financial need are considered in the selection process. Selected students will receive up to \$3,000.00. Filing dates for mailing application in 1997 are April 1st, June 15th, November 15th. Applications must be mailed by these dates.

To receive an application please send a stamped \*\*\* (US 32 cents), self-addressed, standard letter size (No. 10) envelope to the following address: The John Gyles Education Fund, Attention: R. James Cogle, Administrator, P. O. Box 4808, 712 Riverside Drive, Frederickton, New Brunswick Canada E5B 5G4.

We use international mail services, therefore U.S. postage is acceptable.

## KIDS' CHANCE INC. OF MISSOURI

What is Kids' Chance? It is a

nonprofit corporation developed by interested insurers, employers, attorneys, labor, medical and rehabilitation groups. The purpose of Kids' Chance is to provide financial scholarships to complete the education of children of workers who have been seriously injured or killed in Missouri work related injuries.

Which Children are Eligible for the Scholarship? Children who have a parent who was permanently or catastrophically injured or killed in a Missouri compensable injury or occupational disease, and who are Missouri residents between the ages of 16 and 25.

Applications available in the Student Financial Aid Office, G-1 Parker Hall, Rolla, MO 65409-0250 or by calling 1-800-522-0938.

## AMERICORPS EDUCATION AWARDS PROGRAM

The AmeriCorps Education Awards Program offers members the standard AmeriCorps education stipend of over \$4,700 for one year of community service, but unlike AmeriCorps USA, it does not provide a living allowance or other benefits.

For information on this program contact the Student Financial Aid Office, G-1 Parker Hall.

## CHARLES P. BELL CONSERVATION \$500 SCHOLARSHIPS

### QUALIFICATIONS

Applicant must be a Missouri resident. Applicants enrolled in Missouri schools will be given preference.

Applicant must be involved in the management of natural re-

sources, specifically: Fish, Wildlife, Forest, Soil, Water.

Applicants must already have earned at least 60 hours of college credits.

Applications available in the Student Financial Aid Office, G-1 Parker Hall.

Application deadline must be received by: **January 15, 1998.**

## PETER D. COURTOIS CONCRETE CONSTRUCTION SCHOLARSHIPS

Two \$1,000 (U.S.) awards are available through the ACI Concrete Research and Education Foundation (ConREF) for undergraduate study in concrete construction for the 1998-99 academic year. The Peter D. Courtois Concrete Construction Scholarship honor the memory of Peter D. Courtois, whose long-term commitment to practical achievements in construction focused on the fields of formwork and tilt-up construction.

### REQUIREMENTS:

These awards are open to any undergraduate student in the United States 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 (not necessarily at the time of application).

Transcripts, recommendations, and an essay must be submitted as outlined on the application form. Applications available in the Student Financial Aid Office, G-1 Parker Hall. Application deadline must be received by: **January 15, 1998.**

## CONCRETE RESEARCH AND EDUCATIONAL FOUNDATION OF ACI INTERNATIONAL

\$3,000 (U.S.) awards are now available through the ACI International Concrete Research and Education Foundation (ConREF) for graduate study in the field of concrete for the 1998-99 academic year. The awards include the Katharine and Bryant Mather Fellowship, ACI - W.R. Grace Fellowship, V. Mohan Malhorta Fellowship, Stewart C. Watson Fellowship, and ACI Fellowships.

### REQUIREMENTS:

These awards are open to any student completing studies toward the bachelor degree or one who has received a bachelor degree from a higher education institution which is accredited by the responsible regional or national agency.

The following criteria must be met by the applicant:

Must have possession of a bachelor degree from an accredited program by the summer of 1998.

At the time of acceptance of the fellowship (but not necessar-



ily at the time of application) the applicant must have been accepted for graduate study. This graduate study must be in engineering, architectural, or materials science program at an accredited college or university in the USA or Canada which offers a graduate program in concrete design, materials, or construction, with the exception of the V. Mohan Malhotra Fellowship which is available only to an applicant majoring in concrete materials science research and the Stewart C. Watson Fellowship which is available to an applicant with a special interest in joints and bearings for concrete structures.

Must be a full-time first or second-year graduate student during the entire fellowship year.

Must be proficient in the English language (or French as required in Province of Quebec or Spanish in Puerto Rico).

Applications available in the Student Financial Aid Office, G-1 Parker Hall.

Application deadline must be received no later than: **January 15, 1998.**

#### NATIONAL SECURITY EDUCATION PROGRAM (NSEP)

The National Security Education Program was designed to provide American undergraduates with the resources and encouragement they need to acquire skills and experience in countries and areas of the world critical to the future security of our nation. As a student of another culture and language you will begin to acquire the international competence you need to communicate effectively across borders, understand other perspectives and analyze increasingly fluid economic and political realities.

#### REQUIREMENTS:

As a U.S. undergraduate student, you are eligible to apply for an NSEP scholarship if you meet the following conditions:

U.S. citizenship at the time of application.

Matriculated as a freshmen, sophomore, junior, or senior in a U.S. post-secondary institution, including universities, colleges, and community colleges accredited by an accrediting body recognized by the U.S. Department of Education.

Applying to engage in a study abroad experience that meets home institution standards.

Planning to use the scholarship for study abroad. NSEP undergraduate scholarships are not for study in the U.S.

Your study abroad program ends before you graduate.

Applications available in the Student Financial Aid Office, G-1 Parker Hall. Application deadline: **January 26, 1998.**

#### THE BARRY M. GOLDWATER SCHOLARSHIP AND EXCELLENCE IN EDUCATION FOUNDATION

This scholarship covers eligible expenses for tuition, fees, books, and room and board to a maximum of \$7,500 per academic year. Junior scholarship recipients can expect to receive a maximum of two years of scholarship support. Senior scholarship recipients are eligible for a maximum of one year of scholarship support.

#### ELIGIBILITY:

To be considered for nomination, a student must:

be a current sophomore or junior pursuing a bachelor's degree on a

full-time basis. A current sophomore student in a two-year college who plans to transfer to a baccalaureate program may be nominated.

have an average of at least B or the equivalent and be in the upper fourth of his or her class.

be a U.S. citizen, U.S. national, or resident alien.

have a demonstrated interest in a career in mathematics, the natural sciences, or engineering.

be nominated by his or her college or university on the official nomination materials provided by the Barry M. Goldwater Scholarship

and Excellence in Education Foundation.

#### DEADLINE:

The campus deadline is **4:30 p.m. on December 5, 1997.** Applications must be complete, including letters of reference and transcripts and returned to the Office of the Vice Chancellor for Academic Affairs, 204 Parker Hall, by this date. The application is also available via our Home Page: <http://www.umn.edu/~acaf/rs/pressrel.html>

#### KANSAS CITY CHAPTER OF THE CONSTRUCTION FINANCIAL MANAGEMENT ASSOCIATION

The Kansas City Chapter of CFMA is a professional organization that is promoting growth of construction financial management in the Kansas City area. Since its inception in 1985, the primary purpose of the Kansas City Chapter has been to unite individuals having financial responsibilities in the construction industry and provide a forum through which the members can meet to exchange ideas. We sincerely want to see construction financial management as a profession passed on to qualified outstanding men and women.

#### REQUIREMENTS:

Scholarships will be awarded based on merit and the recipient's potential contribution to the financial management of the construction industry in the Kansas City area. Financial need may be considered. To be eligible for a scholarship from the Kansas City Chapter an applicant must meet the following criteria:

Be enrolled or plan to enroll in an accredited four year Degree

Program as a Junior during the 1998-99 school year with a series of courses related to an Accounting, Finance, or Management degree.

Qualify as a full time student (minimum of 12 hours a semester).

Provide proof of previous scholastic achievement (minimum cumulative 3.0 grade-point average on a 4.0 scholar or equivalent) and be progressing toward a degree or certificate.

Provide a letter or recommendation from a college professor, a business person, and a personal acquaintance.

Be capable of serving an internship in Kansas City during the summer of 1998.

Application deadline must be submitted before: **December 31, 1997.**

#### DEPARTMENT OF ELEMENTARY AND SECONDARY EDUCATION MISSOURI TEACHER EDUCATION SCHOLARSHIP

This scholarship is a one-time non-renewable award of \$2000 to be used in one academic year.

#### REQUIREMENTS:

Be a Missouri resident.

Be a high school senior: freshman or sophomore at a community or four-year college or university in Missouri (with not more than 60 college credit hours).

Rank in the top 15% of their high school class or score in the top 15 national percentile on an ACT or SAT examination (Last year the qualifying ACT Score was 25).

Application packet must be submitted by: **February 15, 1998.**

#### DEPARTMENT OF ELEMENTARY AND SECONDARY EDUCATION MISSOURI MINORITY TEACHING SCHOLARSHIP

This scholarship is a \$3,000 per year renewable award for up to four years.

Be a Missouri resident.

Be African American, Asian American, Hispanic American, or Native American.

Be a high school senior, college student, or returning adult (without a degree) who ranks in the top 25 percent of their high school class and scores at or above the 75th percentile on the ACT or SAT examination. (Last year qualifying ACT score was 23.) OR, individuals who have completed 30 college hours and have a cumulative G.P.A. of 3.0. OR, individuals with a baccalaureate degree who are returning to an approved math or science teacher education program.

Application must be submitted by: **February 15, 1998.**

#### AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR-CONDITIONING ENGINEERS, INC.

A Grant-in-Aid is a grant of funds to a full-time graduate student of ASHRAE-related technologies. Is awarded once each year for use in the following academic year. Normally 20 to 25 grants are made each year.

Applicants should be involved in the heating, ventilation, air conditioning or refrigeration (HVAC&R) fields or in related areas. These related areas may include indoor air quality, energy conservation, human comfort or HVAC system design, operation or maintenance.

Applications must be received by: **December 15, 1997.**

#### RENEWAL FREE APPLICATION FOR FEDERAL STUDENT AID (FAFSA) FOR 98/99

Renewal FAFSA will be mailed to students beginning November 18, 1997. If a student does not receive their renewal FAFSA by the middle of January 1998, those students will need to pick up and complete a regular 98/99 FAFSA. Those forms will be available in the Student Financial Aid Office, G-1 Parker Hall around December 1, 1997.

#### THE NINETY-NINES, INC. GREATER ST. LOUIS CHAPTER ADELA RIEK SCHARR SCHOLARSHIP FUND

The Greater St. Louis Chapter, Ninety-Nines, Inc. (an international organization of licensed women pilots), is offering an academic scholarship to qualified women students.

#### ELIGIBILITY:

Be currently enrolled full time in an accredited institution of higher learning and be actively seeking a degree in an aviation related career field. Academic programs may be in Engineering, Sciences, Liberal Arts, Business, as well as flight or aircraft maintenance training. Determination of the relationship of the applicant's career plan to aviation is part of the selection process.

Have successfully completed a minimum of one (1) year in this academic program with an average grade of "C" or higher.

Applications available in the Student Financial Aid Office, G-1 Parker Hall.

Application deadline must be postmarked by: **February 1, 1998.**

#### AIR & WASTE MANAGEMENT ASSOCIATION

The Air and Waste Manage-

ment Association (A&WMA) is pleased to announce that \$24,000 in scholarship and grants is available to full-time graduate students pursuing careers in environmental sciences, such as air pollution control or waste management, for the entire 1998-99 academic year. Awards are based on academic record, career plans and goals, recommendations, and extracurricular activities.

Applications available in the Student Financial Aid Office, G-1 Parker Hall.

Application deadline must be postmarked no later than Wednesday, **December 3, 1997.**

#### NATIONAL ACADEMY FOR NUCLEAR TRAINING SCHOLARSHIP PROGRAM

#### REQUIREMENTS:

a U.S. citizen or U.S. national considering a career in the nuclear power industry enrolled at an accredited U.S. college/university in an approved curriculum

related to a career in the nuclear power industry, such as: nuclear engineering,

chemical engineering (nuclear or power option), mechanical engineering, (nuclear power option), electrical engineering (nuclear or power option), power generation health physics

free of post-college obligations (e.g. ROTC or NUPOC) or active military service

minimum GPA of 3.0 (on a scale of 1.0 to 4.0) as of January 1, 1998

at least one but no more than three academic years of study remaining to

graduation (for co-operative education students, no more than six in-school semester or nine quarters)

Applications available in the Student Financial Aid Office, G-1 Parker Hall.

Application deadline must be postmarked by: **February 1, 1998.**

#### AMERICAN ELECTROPLATERS AND SURFACE FINISHERS SOCIETY

The American Electroplaters and Surface Finishers Society offers scholarships to upper class undergraduate and graduate students who are interested in careers in the surface finishing field.

#### REQUIREMENTS:

Undergraduate students must be studying in metallurgy, metallurgical engineering, materials science or engineering, chemistry, chemical engineering, or environmental engineering.

Selection factors include achievement, scholarship potential, motivation and interest in the finishing technologies

*continued on page 18*



Must be a full-time student during the academic year the scholarship is received

Financial need is not a factor. Applications available in the Student Financial Aid Office, G-1 Parker Hall.

Application deadline must be postmarked by: April 15, 1998.

#### MARY R. NORTON MEMORIAL SCHOLARSHIP AWARD FOR WOMEN

Committee E-4 of American Society of Testing and Materials (ASTM) is sponsoring a scholarship for a woman college senior or first year graduate student enrolled in Metallurgy or Materials Science. The amount of the award is \$500.00.

#### REQUIREMENTS:

Student must be registered full-time and must expect to be classified as a senior or first year graduate student during the academic year 1997-98.

Applications available in the Student Financial Aid Office, G-1 Parker Hall.

Application deadline: December 15, 1997.

#### GLAMOUR MAGAZINE'S 1998 TOP TEN COLLEGE WOMEN COMPETITION

Any woman who is a full-time junior (third year of undergraduate study) at an accredited college or university for the 1997-98 academic year.

#### REQUIREMENTS:

leadership experience  
involvement on campus and in your community  
excellence in your field of study  
unique, inspiring goals

Applications available in the Student Financial Aid Office, G-1 Parker Hall.

Application deadline must be postmarked by: January 31, 1998.

#### 1998 HARRY S. TRUMAN SCHOLARSHIPS

In 1975 the US Congree established the Harry S. Truman Scholarship Foundation as a memorial to Missouri's native son. The Foundation grants scholarships to college students who are committed to public service.

The Foundation defines public service as employment in "government at any level, uniformed services, public-interest organiza-

tions, non-governmental research and/or educational organizations, and public-service oriented non-profit organizations such as those whose primary purposes are to help needy or disadvantaged persons or to protect the environment."

The scholarships are monetarily generous but limited in number. Students eligible to be nominated by their colleges and universities must be juniors who are full-time students. They must rank in the upper fourth of their class and be US citizens or US nationals.

Students who are awarded scholarships will receive up to \$3,000 for their Senior year of undergraduate education and as much as \$27,000 for graduate studies.

The University of Missouri-Rolla campus faculty representative is Michael E. Meagher, Assistant Professor of Political Science. He is currently actively soliciting possible nominations from the faculty. In addition, prospective nominees can contact Professor Meagher directly.

Since any nomination package must be in the hands of the Truman Scholarship Foundation no later than January 27, 1998, names for possible nomination must be submitted to Professor Meagher no later than November 15, 1997.

#### INDUSTRIAL HYGIENE GRADUATE FELLOWSHIP ANNOUNCED

Looking for the opportunity to become a professional in a rewarding profession? If so, the Industrial Hygiene Graduate Fellowship program is for you. Industrial hygienists anticipate, recognize, evaluate, and control those environmental factors or stressors arising in or from the workplace that may cause sickness, impaired health, significant discomfort, or inefficiency among workers.

Sponsored by the U.S. Department of Energy, Office of Worker Safety and Health, the fellowship program is accepting applications for the academic year beginning September 1998. The deadline for receipt of applications is January 26, 1998.

The primary goal of the fellowship program is to increase the number of industrial hygienists at the master's degree level to help ensure healthful working conditions for employees of DOE research and development facilities throughout the United States.

Administered by the Oak Ridge Institute for Science and Education (ORISE), appointments in the Industrial Hygiene Graduate Fellowship are for 21 months. Fellows are required, however, to

Wednesday, November 12, 1997  
submit a renewal application at the end of the first 12 months. The program pays an annual stipend of \$15,600 in 12 monthly payments of \$1,300 and full tuition and fees.

Participation in a three-month practicum, a practical, hands-on work experience, at a DOE-designated facility is required. Transportation expenses to and from the practicum site are reimbursed and a dislocation allowance of \$400 per month is paid. The program required that fellows agree to a service obligation of one year for each academic year in the fellowship program.

The program is open to U.S. citizens who hold the baccalaureate degree and who have not completed more than one academic year of graduate studies by the effective date of the fellowship appointment. For application materials or additional information, please contact: Mary Kinney, Industrial Hygiene Graduate Fellowship program, Education and Training Division, Oak Ridge Institute for Science and Education, 105 Mitchell Rd., MS 16, PO Box 117, Oak Ridge, TN, 37831-0117; telephone (423) 576-9655; e-mail kinneym@orau.gov. More information is also available on the Internet at <http://www.orau.gov/orise/edu/uggrad/ih1.htm>.

### Classifieds

**Car Stereo Installation.** Rates starting at \$25 + parts. Please call 368-3530 or e-mail jls@umr.edu. MECP CERTIFIED. 5 years experience.

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Free food and drinks! Cancun, Bahamas, Jamaica and Florida from \$399. Organize a small group and travel FREE! Highest commissions and lowest prices! Call Surf & Sun Tours to become a campus representative (800)574-7577

**University Theatre is looking for a choreographer** for the spring musical, "A Funny Thing Happened on the Way to the Forum." If you are a trained dancer, and interested in this position, please contact John Woodfin at 127 Castleman Hall, or call 341-4958. A \$500.00 stipend is offered for this position.

**Sofa For Sale:** Good condition. Taupe/Blue. \$60. Call 341-9758 (on campus) or email: cdr@umr.edu

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Will pick up and drop off.  
Call 341-9968.

Classified Ads are free for students and may be submitted to the Miner at 103B Norwood Hall, or via e-mail at [miner@umr.edu](mailto:miner@umr.edu).

### Interference from page 2

free evaluation copies of the early versions of the software.

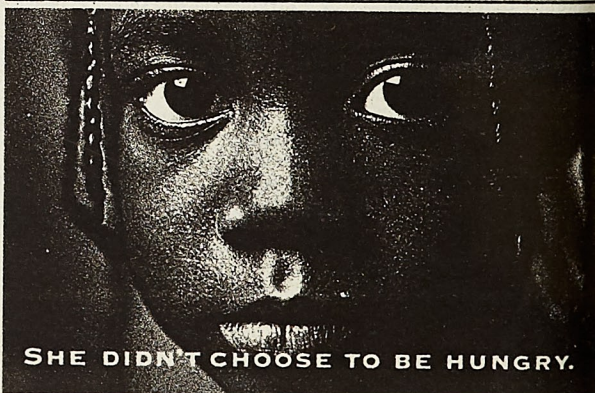
When completed, these expert systems will diagnose circuit board designs, catch any potential problems, predict the extent of those problems, and recommend ways for designers to fix them.

"Through this consortium, we're developing software that does the same thing that an EMC engineer would do, looking at things the way a human would," Hubing said, "if you had a human EMC expert looking over the shoulder of circuit board designers, then you wouldn't have a problem,

but circuit board designers have a lot of other things to concern themselves with besides EMI problems.

"For example you've got thermal considerations, cost trade-offs, and manufacturing considerations to take into account -- plus you must keep up with the latest in digital technology," Hubing added. "Circuit designers can't be experts in all of these areas, and so they're having to rely on tools to catch certain things automatically."

Already, the UMR EMI Expert System Consortium has developed prototype software that all partners in the consortium are evaluating. The system software now under development not only locates potential problems, but also analyzes them and proposes specific solutions.



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# Calendar of Events

All organizational meeting times and places are provided by the Student Activity Center, 218 UCW. Please send all changes to the aforementioned office.

## Wednesday

- 9:30 am: Lambda Sigma Pi selling tickets for fundraiser, The Puck
- 12:00 pm: Residence Hall Association Mock-Car-Crash, Mall/Library
- 4:00 pm: UMR Chemical Engineering seminars, "Mass Transfer of a Solubilize in a Micellar Solution and Across and Interface", 125 Schrenk
- 4:00 pm: Rugby team practice, Rugby fields
- 5:45 pm: Christian Science Org., Sunrise Rm UCW
- 6:00 pm: Chess club, Gallery UCE
- 6:00 pm: MSM Spelunkers Club, 204 McNutt

6:20 pm: Associated General Contractors, 217 CE

6:20 pm: American Concrete Institute, 118 CE

7:00 pm: American Society of Civil Engineers, 117 CE

7:30 pm: Society of Mining Engineers, 212 McNutt

8:00 pm: Alpha Chi Sigma, G-3 Schrenk

## Thursday

9:30 am: Lambda Sigma Pi selling tickets for fundraiser, The Puck

10:00 am: Staff Council, 117 Fulton Hall

2:00 pm: Spanish Club, 205 H-SS

3:00 pm: Men's volleyball club practice, Multi-purpose Bldg

3:30 pm: Computer Science Dept.

seminar, "Future Directions on Human-Computer Interaction", 209 M-CS

3:30 pm: Mechanical and Aerospace Engineering and Engineering Mechanics seminar, "Macro-to Microscale Heat Transfer: The Lagging Behavior", 214 ME Annex

4:00 pm: Rugby team practice, Rugby fields

6:00 pm: Christian Campus Fellowship, Mark Twain or Missouri Rms UCE

6:00 pm: Toastmasters, 109 CSF

7:00 pm: St. Pats, 107C ME Annex

7:00 pm: Physics Dept. seminar, "Birth of Stars: Where We Came From", 104 Physics

8:00 pm: Academic Competition Org., 314 CE

8:00 pm: Solar Car Team, 103 Eman

## Friday

9:00 am: Student Environmental Action Coalition National Recycling Day information booth, The Puck

9:30 am: Lambda Sigma Pi selling tickets for fundraiser, The Puck

3:00 pm: Trap & Skeet Club, 107

Buehler

6:00 pm: UMR Lady Miner basketball vs. University of Missouri-Columbia, Columbia, Mo.

6:00 pm: UMR swimming vs. Drury College, Multi-Purpose Bldg

continued on page 20

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Spaghetti • Lasagna

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from page 19

7:00 pm: Show Me Anime, 204 McNutt

7:00 & 9:00 pm: SUB Fall Film Empire Records, 104 ME

**Saturday**

10:00 am: Tau Kappa Epsilon Pool Tournament, Game Room UCE

1:00 pm: Rugby team vs. St. Louis Hornets, Rugby fields

1:00 pm: UMR Miner football vs. Southwest Baptist University, Jackling Field

2:00 pm: Chess Club, Gallery UCE

7:00 & 9:00 pm: SUB Fall Film Empire Records, 104 ME

7:00 pm: UMR Miner basketball vs. Dream Builders Exhibition, Multi-Purpose Bldg

**Sunday**

10:00 am: Tau Kappa Epsilon Pool Tournament, Game Room UCE

1:30 pm: Chinese Student Assn., 105, 117, 215, 216 ME

2:00 pm: University Choir performance "In Praise of Music: Hymns, Songs and odes for St. Cecilia", Leach Theatre Castleman Hall

3:00 pm: Tau Beta Pi initiation, 114 CE

6:30 pm: Christian Campus Fellowship Sunday evening Church Service, 104 ME

7:00 pm: Men's and women's volleyball club practice, Multi-purpose Bldg

**Monday**

11:30 am: University Orators Chapter of Toastmasters International, Missouri Rm UCE

4:30 pm: Chemistry Dept. Seminar, "Chiral Separation by Capillary Electrophoresis", G-3 Schrenk

6:00 pm: UMR Independents officers meeting, Walnut Rm UCW

7:00 pm: National Society of Black Engineers/Assn. of Black Students, 204 McNutt

8:00 pm: Academic Competition Org., 314 CE

**Tuesday**

11:05 am: School of Mines and Metallurgy seminar, "Hazardous Waste Remediation Course", 317 McNutt

3:30 pm: Christian Campus Fellowship, 106 Eman

4:00 pm: Rugby team practice, Rugby fields

5:00 pm: IFC, 216 McNutt

6:30 pm: Student Council Exec meeting, Missouri Rm UCE

7:00 pm: UMR Lady Miner basketball vs. Southern Illinois University-Edwardsville, Edwardsville, Ill.

7:00 pm: AIAA, 107C ME Annex

7:00 pm: Assn. of Engineering Geologists, 212 McNutt

7:00 pm: Alpha Phi Omega, 114 CE

7:00 pm: Tau Beta Pi, G-3 ChE

7:00 pm: Film Festival *Vertigo*, Leach Theatre Castleman Hall

7:00 pm: Bridge club, Miner Lounge UCE

8:00 pm: Alpha Chi Sigma, 125 ChE

8:00 pm: Amateur Radio Club, 110 Buehler Bldg.

9:00 pm: Delta Omicron Lambda, 126 Schrenk Hall

9:00 pm: Arnold Air Society, 208 Harris Hall

**Next Wednesday**

10:00 am: Student Council blood drive, Centennial Hall UCE

12:00 pm: Booster Club, Pizza Inn 1735 N. Bishop Ave

4:00 pm: Rugby team practice, Rugby fields

4:00 pm: Chemical Engineering Dept. seminar, "Information Models for Batch and Real Time Processes", 125 Schrenk

4:00 pm: UMR Chemical Engineering seminar, "North American Phosphorus/Phosphate Industry", 125 Schrenk

5:45 pm: Christian Science Org., Sunrise Rm UCW

6:00 pm: Chess club, Cafeteria UCE

6:00 pm: MSM Spelunkers Club, 204 McNutt

6:30 pm: Blue Key, 216 ME

7:00 pm: AICHe, G-3 ChE

7:00 pm: American Institute of Aeronautics & Astronautics, 107C ME Annex

7:00 pm: Institute of Electrical and Electronics Engineers, G-31 EE

7:30 pm: Society of Mining Engineers, 212 McNutt

8:00 pm: Alpha Chi Sigma, G-3 Schrenk

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November  
**Incid**  
by Brian McB  
Staff Writer

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**Innova**  
by Ellen Hugg...  
Staff Writer

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