



19 Nov 1997

## The Missouri Miner, November 19, 1997

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The

# Missouri Miner

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

November 19, 1997

Volume 87, Number 12

Twenty Pages

## In This Issue

**Verve:** The return of the bench... - page 5

**Sports:** Football ends season with victory. - page 8

## Incidents of violence on campus spark suggestion of gangs

by Brian McBride  
Staff Writer

In the November 12 issue of the Miner, there was an article about two instances of physical assault on campus. The first was by the puck and the second was in the TJ tunnel. These crimes were committed by groups of about 5 to 7 and were described as high school age. Last week, the TJ tunnel was painted white to cover up graffiti. According to the UMR PD, one of the reasons for the cover-up was the presence of gang graffiti. There was a large section of graffiti on the wall that was identified as being the work of the gang called the "Bloods." The suspects in the TJ tunnel assault were described as wearing a lot of red. Coincidence?

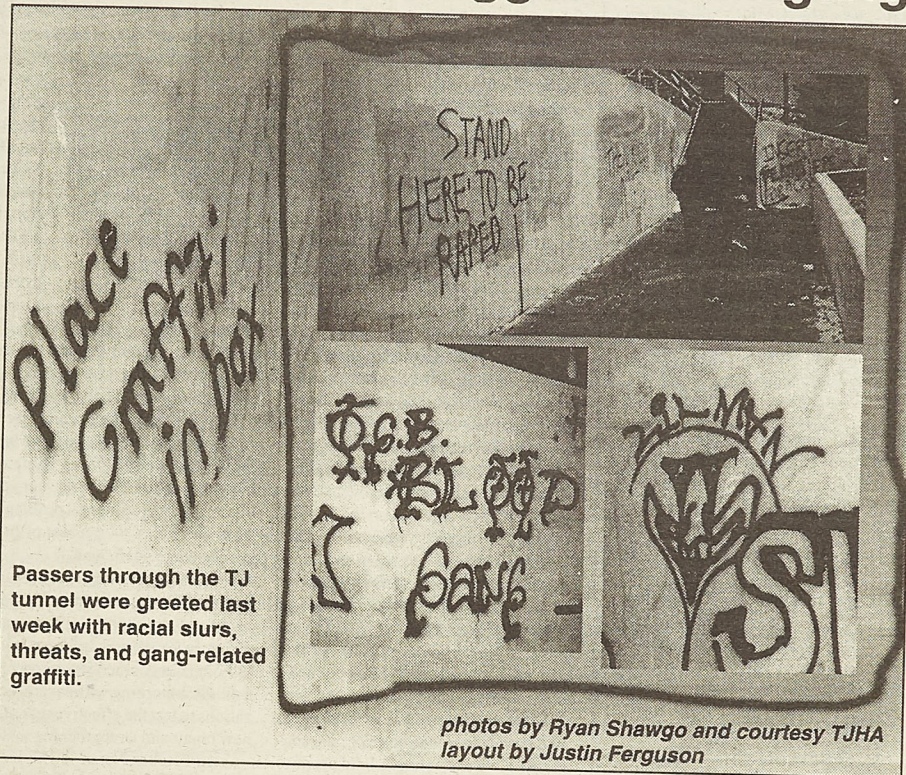
Probably not, according to UMR PD's Chief Bill Bleckmann. The UMR PD has been aware of gangs in Rolla for many years. For those who thought of Rolla as a happy little town with no crime, think again. According to the Rolla PD, there are probably around 50 to 70 gang members belonging to 4 or 5 different gangs, right here in Rolla. Gangs mentioned include Bloods, Crips, Disciples and O.G.s.

The evidence to support the existence of gangs in Rolla is overwhelming. Captain Roy Day of the Rolla PD had

picture after picture of gang graffiti from all over Rolla. There were pictures of people flashing gang signs. There was a clipping from the Rolla Daily News that depicted the Rolla Hawks, an under age 12 soccer team. The coaches of the team were flashing gang signs in the team photo.

Along with the pictures, Day had intelligence reports that described murders, shootings, drugs and automatic weapons, all here in Rolla, Missouri. How does a small Missouri town end up with a gang problem? It's quite simple actually. St. Louis, Springfield, Jefferson City and Columbia all have gang problems. In addition, Ft. Leonard Wood brings in people from all over the country. The military is often times a place to get youth "straightened out." This brings with it a large potential for bad influence. And last, but certainly not least, I-44 is known as one of the biggest drug trafficking highways in the country.

As Bleckmann said, "We're not isolated here." He went on to say that the campus should not be alarmed. There has never been a problem with gangs on campus before and he does not expect any problems in the future. As always the UMR PD can be reached at 341-4300 and at their Web page at <http://www.umar.edu/~police>.



Passers through the TJ tunnel were greeted last week with racial slurs, threats, and gang-related graffiti.

photos by Ryan Shawgo and courtesy TJHA  
layout by Justin Ferguson

## Innovations in glasphalt may pave way for worldwide aviation in the 21st century

by Ellen Huggett  
Staff Writer

For the first time, "glasphalt," which paved the way for recycling waste glass into roads and parking lots, is being used to pave an airport runway, parking apron and taxiway. Three faculty members from UMR provided technical help in paving the runway, taxiway and parking apron at the Rolla Downtown Airport, a small general aviation airport.

After paving the 3,000-foot-long runway with four inches of glasphalt that contained 10 percent broken glass, it was painted with a paint that also contained waste glass as part of the pigment. The glasphalt was prepared in a commercial asphalt plant close to Rolla, and then placed using the same equipment used for laying ordinary asphalt paving. The project was completed in November 1996. One year later, the material is holding up exceptionally well, said Dr. Delbert E. Day, Curators' Professor of ceramic engineering at UMR and one of the inventors of glasphalt.

The information to be gained from this project and the technology being demonstrated could benefit many small Missouri communities that have difficulty in disposing of waste glass and that want to avoid the cost of putting the glass in a landfill. By way of a grant from the Missouri Environmental Improve-

ment and Energy Resources Authority, Ozark Rivers Environmental Inc., a not-for-profit corporation, was able to demonstrate how waste glass can be easily and economically substituted for some of the rock and sand used in ordinary asphalt paving and in paints used to mark airport runways and taxiways.

According to Day, about 450 tons of waste glass, crushed to 1/4-inch and smaller, that would otherwise have been buried in landfills, was used in place of some rock and sand in the glasphalt paving material. "The purpose of the demonstration project is to show how some of the approximately 10 million tons of waste glass in the US that cannot presently be recycled into new glass products can be disposed of in a low-cost and beneficial way that avoids the costly disposal fees now being paid to put waste glass in landfills," Day said. "One of the advantages of glasphalt is that no special equipment is needed, and glass of any color and type from bottles, windows, glass used for baking and tableware can be used."

"Glass recycling is difficult

throughout Missouri since there are only a few glass plants in the state which will purchase scrap glass or cullet," Day remarked. "In addition, the buyers of scrap glass are often long distances--100 miles or more--from the communities where the scrap glass is recovered, so transportation costs can exceed the value

of the glass." All of the glass used in the airport project was collected from community recycling programs in south central Missouri. "Glasphalt offers the advantages of being able to use those types of waste glass which would otherwise be buried in landfills," said Dr. David Richardson, a UMR associate professor of civil en-

gineering, who supervised the installation and evaluation of the glasphalt being used in the airport demonstration project.

"Glasphalt is also a means of disposing of very large quantities of waste glass and even for small projects like a parking lot or street repair, which can use several hundred tons of waste glass."

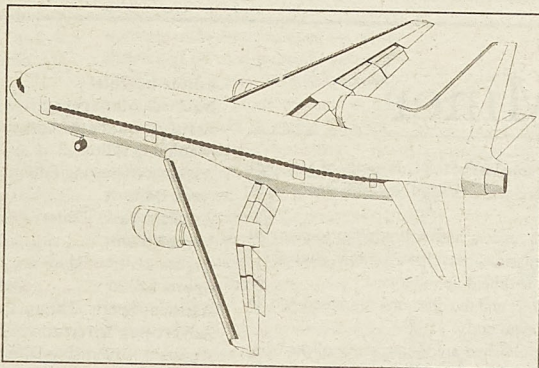
In addition to demonstrating the usefulness and practicality of using glasphalt for airport uses, the reflective properties of glasphalt will also be evaluated. Glasphalt has been used extensively in Baltimore, Md. for many years because the glass particles tend to reflect the streetlights and give the road surface a "sparkle."

"The higher reflectivity of a glasphalt runway could be an advantage at night since the runway should reflect the aircraft's landing lights and be more visible than an ordinary asphalt runway," Day commented. In addition, the tendency of glasphalt to dry faster after a rain than ordinary asphalt is an advantage for aviation use, and that will also be evaluated during the demonstration. The

glass particles in glasphalt do not absorb water like the rock in regular asphalt, Day said. "And in tests made by the Missouri Highway Department, skid resistance of glasphalt was proven to be 50 percent higher than typical asphalt, which is important to aviation when planes land and take off at high speeds," he added.

The paint used to mark the glasphalt runway also used waste glass ground to a fine powder. Dr. Harvest L. Collier, a UMR professor of chemistry, has formulated and produced a "glass paint" that uses the finely ground glass as part of the pigments. The properties of the glass paint meet the specifications for use on highways, but it has never been used for marking airport runways and taxiways. Because of the glass it contains, this paint may also be reflective. The long term durability of this paint to weather conditions will also be evaluated during the demonstration.

"There are more than 180 small airports in Missouri, and thousands throughout the U.S., which could benefit from the results of this project," Day stated. "Glasphalt offers the opportunity to dispose of large amounts of waste glass in a way that could improve the general aviation airports in small communities. These small airports often play an important role in industrial development."

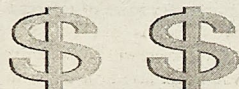




## In A Nutshell

◆ An electrical engineering student Frank Melton was killed in a car accident early Sunday, November 9, when he lost control of his vehicle. Melton was pronounced dead at the scene.

◆ The UMR Multicultural Educational Support Program (MESP) and Service Learning department would like to invite you to the closing ceremony of the Black Culture House from 11 a.m.-1 p.m., Monday, Nov. 24, 1997. Guest Speaker will be Frank Winfield, ME'71. Entertainment will be provided by Voices of Inspiration. For more information contact Robin Collier at (573) 341-4182 or e-mail at rlc@shuttle.cc.umn.edu.



◆ Four University of Missouri-Rolla engineering students received scholarships from the Missouri Society of Professional Engineers for the 1997-98 academic year. Brian Hutsel of El Dorado Springs, Mo., and Nicholas D. Streeter of Carl Junction, Mo., each received a 1997 MSPE Educational Foundation Scholarship of \$1,500. Curtis Robinson of Lecom, Mo., received the \$1,500 Stupp Bros. Co. Scholarship and Curtis Stratman of Jefferson City, Mo., received a 1997 MSPE Educational Foundation Scholarship of \$1,500 and a UMR Scholarship of \$600.

MSPE scholarships are awarded through chapter and state competitions. The scholarships were presented to the students by Jerry Bayless, associate dean of UMR's School of Engineering, and Dr. Robert Mitchell, dean of UMR's School of Engineering.

## New materials hold promise for fixing ailing infrastructure

by Ellen Huggett  
Staff Writer

The solution to America's ailing infrastructure could be a "Band-Aid" approach of sorts, said Dr. Antonio Nanni, the Vernon and Maralee Jones Professor of civil engineering at the University of Missouri-Rolla. In the case of crumbling roads, bridges and buildings, the Band-Aids are strips of new fiber-reinforced polymer (FRP) composite materials that can be wrapped or affixed to damaged beams, pillars or other structural members.

Nanni, an expert in the field of FRP composite materials for construction, is chairing two technical sessions about how these new materials are being used to repair and rehabilitate infrastructure during the American Concrete Institute Conference to be held Nov. 9-14 at the Atlanta Hilton and Towers in Atlanta. Nanni also recently received a grant from the National Science Foundation to study the use of externally bonded FRP composites to repair reinforced concrete structures.

"It isn't your typical Band-Aid approach to the problems of decaying roads, bridges and buildings. But new lightweight materials that can be wrapped like a bandage around deteriorating concrete beams and columns hold promise as a cost-effective solution to infrastructure problems," said Nanni. Nanni explained new composite materials—such as sheets of carbon fiber-reinforced polymers (FRPs) that can be "wallpapered" over a damaged portion of a structure—could help solve the nation's infrastructure problems. They are lighter than steel reinforcement bars, yet stronger, and they may be cost-effective over the long run, Nanni said.

"In the repair and rehabilitation of building and civil infrastructure, these

FRP materials may be very competitive on a first-cost basis," commented Nanni. "Composites are also much more durable than steel, as well as lightweight and, we hope, corrosion-free. However, we have not yet fully determined the durability of these materials for construction-type applications."

Such composite materials have been used in the aerospace industry, but are new to the construction business. Con-



cerns about ailing infrastructure, however, are leading Nanni and others to look at them as a possible

solution to road, bridge and building problems. Recent reports about the nation's civil infrastructure have raised concerns nationally. According to a 1997 report from the Federal Highway Administration, one of every four bridges on the National Highway System, the backbone of America's road network, is obsolete or has structural problems. In Missouri, about 44 percent of bridges are considered deficient.

Carbon and other fibers—including corrosion-free glasses and a fiber known as aramid—hold promise for repairing not only roads and bridges, but also buildings and other structures, Nanni said. He is working with several organizations to test the effectiveness of these new repair and strengthening methods.

In October, Nanni and his research team traveled to southern California to test the ability of these carbon composites to strengthen a 35-year-old, prestressed concrete deck that was weakened due to corrosion of its steel tendons. To strengthen the deck, sheets of carbon fiber were externally bonded to the top and bottom surfaces. Testing showed that the carbon fiber sheets improved the deck's ability to withstand the design loads.

see Infrastructure on page 12

## Grant creates center for study of telemetering on UMR campus

by Ellen Huggett  
Staff Writer

Electrical engineering students at the University of Missouri-Rolla will learn more about the field of telemetering—using wireless communications devices to transmit measurements—through the newly created Telemetering Learning Center at UMR.

The International Foundation for Telemetering (IFT), based in Woodland Hills, Calif., is a professional society of engineers and companies involved in telemetering applications. Telemetering—also known as telemetry—has been used largely in defense-related applications, but industry leaders are looking to expand applications to other wireless communications systems, such as sensors on vehicles that would send signals to "intelligent" highways and radio-controlled devices, such as heart monitors, used in hospitals.

The center, established through a four-year grant from the IFT and funding from UMR, will also provide con-

tinuing education to electrical engineers and promote new applications for the telemetering industry. The new center will allow UMR's electrical engineering department to develop new courses in wireless communication and telemetry systems, as well as update the curriculum in current courses in electromagnetic compatibility, digital signal processing and communications. The program will also make courses available to practicing electrical engineers in the various communications fields.

"There are a lot of techniques in the field of telemetry than can be applied to other problems, and a lot of people are rediscovering the value of telemetry in other applications," said Dr. Kurt Kosbar, associate professor of electrical engineering and the principal investigator for the Telemetering Learning Center. "Through this new center, we hope to better prepare our students for working with telemetry

see Telemetering on page 12

## Miner Spotlights: Development Office

by Keith Missey  
Assistant News Editor

The University Advancement Office headed by Vice Chancellor Neil Smith has nine divisions under it including Advancement Services, Alumni & Constituent Relations, KUMR 88.5 FM, the Phonathon Office, Prospect Research, Public Relations, Publications, Records and the Development Office.

The Development Office is directed by Connie Eggert. She explained its mission is to "build an understanding for what the university is trying to accomplish in advancement. We then seek the resources to fund those." She described the office as a liaison between the people interested in university progress and the external world.

There are several areas in development, but in a generic sense, the office works closely with the deans and the department chairs in considering where they want to take their departments in

the future. "They write down what they want such as recruiting more students or buying new equipment or training their faculty," Eggert stated. "We help them put together a business plan for the next five years. Then we go out and talk to alumni, friends of the university and companies who have an interest in that department or in those subjects and ask them for help, either in prioritizing that list or funding those things."

Eggert commented that development is different than fundraising. "Fundraising is short term. Development is a long term project. They are investing their money in a sense." Currently, the Development Office is working on the \$60 million campaign. Eggert remarked, "We have raised \$31.9 million already and we have four more years to go." There are also other areas that the office is continuously looking into such as advancing the study of environmental engineering in the civil department and creating a computer engineering degree program at the university.



## 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. The Missouri Miner reserves the right to edit all submissions for style, grammar, punctuation, spelling, length, and matters of good taste.

### Mailing Address:

103A Norwood Hall  
University of Missouri - Rolla  
Rolla, MO 65401-0249

### Phone:

Office: (573) 341-4312  
Advertising Only: (573) 341-4235

### E-Mail:

miner@umr.edu

## 1997-98 Staff

Editor-in-Chief	Amy Jones (amy@umr.edu)
Business Manager	Jennifer Harness (j1harn@umr.edu)
Assistant Business Manager	Traci Walker (traci@umr.edu)
Managing Editor	Justin Ferguson (jferg@acm.org)
Assistant Managing Editor	Brian Sharp (bsharp@umr.edu)
News Editor	Justin Sutherland (justins@umr.edu)
Assistant News Editor	Keith Missey (kmissey@umr.edu)
Verve Editor	Jeff Leong (leong@umr.edu)
Assistant Verve Editor	Sarah Albers (salbers@umr.edu)
Sports Editor	Jonathan Erdman (erdman@umr.edu)
Assistant Sports Editor	Brad Neuville (bjn@umr.edu)
Advertising Director	Aimee Tilling (tilling@umr.edu)
Assistant Advertising Director	Tiffany Swoveland (swove@umr.edu)
Photo Editor	Ryan Shawgo (shawgo@umr.edu)
Copy Manager	Sam Clippinger (samc@umr.edu)

Staff Writers: Sean Cordes, Kristen Hartman, Daisie Hobson, Ellen Huggett, Roy Jacobs, Mark Jones, Brian McBride, Todd Monroe, Casey Morriss, Kenesia Schaper, Jimbob Schneider, Nick Skupnik, Jason VanDyke, Keith Winkler

Circulation: Melanie Kostedt, Alex Laputz

Photographers: Cyndie Bolon, Wendy Hoffman, Jackie Kopp, Boyd Niesen, David Redfeam



# Opinions

## Letter To The Editor

To the editor:

Did you know that we have a tunnel, an underpass which leads from TJ to campus? I hope so, but did you know we've had a little trouble with painting in that tunnel? Well, maybe a big problem, but that's another issue. On November 11, 1997, StuCo passed a resolution about this problem and I have two concerns I want to address: the resolution itself and StuCo's handling of it.

The tunnel used to be used to display artwork and an occasional advertisement. I have not seen this use of it since my freshman year, 1995. I have a story I would like to tell you about the tunnel. Last spring, the painting in the tunnel took a turn for the worse, slanderous, racial, and offensive graffiti became its foremost decorations. Physical Facilities was called to clean this up over and over and over, until something happened. Physical Facilities' budget could not support the clean up at the rate the tunnel was being defaced. So, it sat: walls painted black, some lights painted over, and the rest not working. This summer when the walls became so covered with graffiti that new paint could not be seen, the surrounding retaining walls, sidewalks, and stairs became the new canvas. Giving tours to prospective students this summer, one question I wished to avoid was consistently asked: "Where is the tunnel to campus?" I would grudgingly show them, knowing what was to come: parents looking at the tunnel and then looking at their children asking "Is it safe?" My assurances were often not enough to erase the doubt from their faces.

From these stories, I believe it is clear

that there is a problem with the tunnel. The resolution passed at StuCo called for the tunnel to be cleaned, used for personal expression and advertisements, and to be painted over no more than one more a semester. It was assured that vulgarities, slander and racial remarks etc. would not be allowed. There is a problem with this solution: aside from the prohibited "art" what will be considered personal expression and who will determine that personal expression? Would the painted black tunnel be considered personal expression or personal endangerment? Would the need to let people "express themselves" in such a way outweigh the fact that I do not feel safe walking through a pitch black tunnel? Who would make that determination?

If I wanted to paint outside my room in TJ, the answers to those questions would be easy. Any painting must first be approved by my floor and then by the department of Residential Life. What makes the concrete wall outside my room so different from the concrete wall outside TJ? Why isn't someone required to approve painting on the tunnel walls as well? You might say because the tunnel isn't a building; you don't paint on the walls of campus buildings. I would come back with "Then what makes the underpass by TJ different from the underpass through the new EE Building?" Something tells me that if I tried to paint the EE underpass, punishment would reign down upon me. If you say that is because the EE underpass is part of a building then I will ask "What makes the retaining walls, sidewalks, and stairs by TJ any different from other retaining walls, sidewalks, and stairs on campus?" Surely the only difference is that those by TJ are painted and the others are not. Why is the tunnel by TJ so

different from everywhere else.

Look at advertisement. If the tunnel is to contain campus advertisements there will be something missing from them that is on every other flyer posted on campus: "Approved for posting by Student Activities." What is so different about the part of campus the tunnel is on and every other part that advertisements in the tunnel don't need to be approved. If painted ads don't need approval by Student Activities, maybe everyone should paint their ads on campus walls rather than post flyers which need to be approved. Something tells me that wouldn't go over too well with administration.

Don't get me wrong here, I like the murals and ads, and it would be nice for them to stay, but like everything else on campus, they need to be approved and sanctioned. What would be the problem with asking StuCo or someone higher to approve murals or advertisements for the tunnel? Let's face the fact, this is an engineering school, very few of us are talented enough to make a nice picture on a wall with a can of spray paint at 1:00 am in 10 minutes. A few maybe, but not many. Requiring approval by someone for tunnel painting is an easy way to ensure that all advertisements are sanctioned and that interpretations of personal expression are made consistently from the same standards.

You may ask me why I'm voicing my opinions now and why I didn't go to the StuCo meeting to do it. That brings me to my second concern. I did. I went to the meeting to express my concerns on an issue I felt very strongly about and most StuCo members didn't care. I know myself and four others had similar concerns to express, but StuCo members had so little respect

for our opinions, that the discussion was railroaded, moved, and voted on in less than five minutes. The body didn't care what myself and the others from TJ had to say about an issue whose affected students are probably 95% TJ residents and guests. I feel this is a misuse of their powers and duties. No reps asked for my opinion and when I went to express my concerns in person, no one cared to listen. I sat and heard a mouthful of lies spill out from some of those who got to speak and only got to correct one before the motion was moved (ending discussion) and voted upon. A government of student representatives? I think not, no one represented me, no one allowed me to correct misinformation, no one addressed my concerns. I realize not all members are this way, but much of the body is. StuCo needs to take care of this problem and soon. Until they do so, almost every piece of respect I had for the body of StuCo is gone. I am only thankful that next year there will be a different membership who might take their duties to their represented students more seriously. I had what I thought were valid concerns dealing with rules on campus advertisement and possible conflicts with the interpretation of "personal expression." I want to feel safe on this campus and good about the way it looks. I like the murals and advertisements and I think that most should stay—those that depict and represent UMR and its students well. I think that if the concerns were addressed by those in power, a solution could be found that would be acceptable to all.

Elizabeth Dixon

## Letter To The Editor

Dear Miner,

In regard to the November 5, 1997 editorial "Twelve Mil? That's a lot of money!" by Managing Editor Justin Ferguson concerning the approximately \$12 million in Student Activity Fees allocated to the University Center Renovation project, several issues need to be clarified.

First of all, the decision that had to be made by Student Council was not where to spend some \$12 million windfall. Rather, we asked ourselves and the student body as a whole, "Should we pursue renovations to the University Center and if so, to what extent?" The money allocated to the project will be collected through Student Activity Fees. It is not the purpose of Student Activity Fees to pay for parking garages, library books, or academic building improvements. These improvements come about through University of Missouri capital funding, and these decisions are made by the UM Board of Curators. Rather, Student Activity Fees support student groups and fund projects that would otherwise be impossible. Because the University Center is not an "academic" building, meaning it does not contain classrooms or laboratories, expansion or renovations are not allowed through regular operating funds. Student Activity Fees, in conjunction with corporate and alumni support, are the

only options for this endeavor. Therefore, the decision faced by the student body was either a) to fund University Center renovations or b) to not fund University Center renovations.

Secondly, the urgency of the construction of a new building is a subjective area. The age, condition, and operating cost of the University Center-West building made the combining of the two buildings into one a viable option. Upgrades of the mechanical and electrical systems of the building will accompany renovations, and the building will be brought into ADA compliance.

Third, the importance of the University Center has a much broader scope than most people realize. In the broadest sense, the University Center is very much a recruiting and retention tool and contributes very much to the campus environment. Again, this is subjective, but, like all issues, was open for discussion during the debate.

Finally, every student on this campus was allowed representation at the meeting at which Student Council voted. Through the over 100 voting representatives and members-at-large, all living units, off-campus students, and many student organizations had a representative vote on the issue. The vote was highly publicized, and Student Council held an Open Forum open to the entire campus to discuss the issue

with the architects and others directly involved with the planning and construction phases. The meeting at which we voted, like all Student Council meetings, was open to the campus. In essence, we held a "campus-wide" vote with the most effective means that representative government can offer. The students decided to fund the University Center, and that's the decision that will be pursued.

This editorial mentioned that just because the University Center *could* be used my many students does not mean that it *will* be used by many students. This is exactly why the architects will be sponsoring "focus groups" in the coming semesters to gather students' ideas on the new building. No architectural plans are currently etched in stone. This will be our new building, and one that we should be proud of! It is now up to us to make it into one that our whole campus community can enjoy. All students are invited and encouraged to give their input to Student Council or participate in the focus groups to make this project a big success. Congratulations to the student body for making a bold decision that will positively impact UMR for many years.

Chris Polka  
Vice-President of Internal  
Affairs,  
UMR StuCo





**Open House**



**Apple Tree**  
 SAT NOV 22 9:30-8  
 SUN NOV 23 12:30-5

**Save 10-50%**  
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 Refreshments

Southside Shoppers  
 World  
 Rolla

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Pre-Party before  
 Adam Sandler  
 from 5-7.  
 Thursday, November 20  
 Pool Tournament  
 Sign up at the Grotto

**THE MINERS FAVORITE HANGOUT**  
**WE CATER TO UMR**  
**ENJOY OUR LARGE SELECTION OF GAMES AND  
 MUSIC**

Friday Lunch Special Tacos & The Grotto's  
**FAMOUS BURRITOS**  
 11:30-2:00

To be an organ and tissue donor, even if you've signed something, you must tell your family *now* so they can carry out your decision later. For a free brochure on how to talk to your family, call 1-800-355-SHARE.

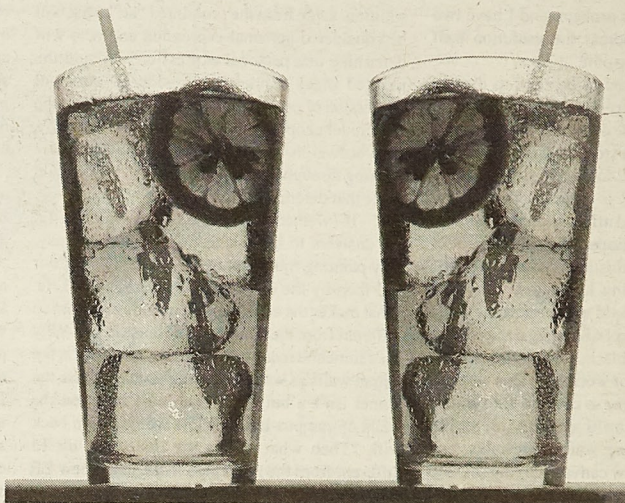
**Organ & Tissue  
 DONATION**  
*"Share your life. Share your decision."*



Coalition on Donation

One will quench your thirst.  
 The other could set you up for rape.

*Which would you drink?*



Rape is a sad reality. And it can happen to anyone. *Even you.*

When secretly slipped into a beverage, even a glass of iced tea, sedating substances can leave *anyone* vulnerable to sexual assault. You may not be able to see it, smell it, or taste it. And you don't have to be at a bar or club. It could happen in any social setting. The tragic fact is that the reasons for rape really have nothing to do with you. It happens *only* because there are people who wish to harm.

*But there are some things that may help reduce your risk:*

- Always keep your beverage in sight.
- At a bar or club, accept drinks only from the bartender or server.

- At social gatherings, don't accept open-container drinks from anyone.

- If you experience dizziness, extreme drowsiness, or other sudden and unexplained symptoms, call someone you trust. Go to a hospital emergency room immediately. Try to retain a sample of the beverage for testing.

If you think you've been sexually assaulted, call (800)656-HOPE for a rape crisis center near you, or call the police immediately. Don't be afraid to reach out for help. There are tests to help prove you've been drugged, and a federal law that can put the rapist in prison for 20 years.

So please, help reduce your risk...

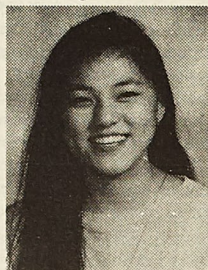
**Watch your drink!**

THIS MESSAGE IS PROVIDED BY HOFFMANN-LA ROCHE  
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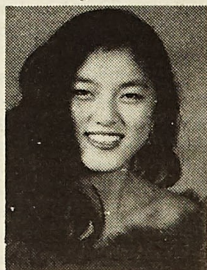
Age 7, 1982



Age 15, 1990



Age 18, 1993



Elizabeth Suto.

Killed by a drunk driver on February 27, 1994, on Bell Blvd.  
 in Cedar Park, Texas.



# Verve

## Donor of Basic Engineering bench responds to article

by Sarah Albers

Assistant Verve Editor

It never ceases to amaze me how one little thing you do can affect so much. I am afraid that I was feeling the same down and beaten feelings that many people receive daily. I try to fight against these things, but sometimes the battle is a lot harder than at other times.

I am not sure if you remember, but I wrote an article about the bench outside of the Basic Engineering building a few weeks ago under the same theme that this article is going to follow. I had been feeling a little sad one day while it was still warm outside and had taken a nap outside on the bench outside of Basic Engineering. A man woke me up and

spoke to me, and for some reason I felt better about life.

I mention this now because something else has happened with my bench. Three or four days ago (when I was in the sad and depressed phase) I received an e-mail from a person I had never met. The man criticized my lack of knowledge of the difference between granite and marble, and pointed out several other points where my bench article was lacking. He meant this all in fun and, I think, really enjoyed the article. I had to laugh at receiving such an outlandish e-mail and promptly responded, still not sure if he had been the man who woke me up or the man who donated the bench. He was the latter of the two.

Dr. Lee Aston owns a rock quarry

in Virginia that supplied the campus with the bench. He is an alumnus and gradu-



ated from UMR in 1950, 1992, and 1993. Dr. Aston flew in the Royal Air

Force (RAF) in World War II, is a bar member in Georgia, Virginia, Indiana and Montana and has degrees in several different disciplines of engineering. He is married and has been to many different places in his life traveling over Europe and to many different parts of the world.

I e-mailed him back and apologized for my mistakes, promising to research my articles more carefully in the future. The next day I received another e-mail telling more about the bench and more about other benches outside of the Geological and Mining department, and around the McNutt building in particular. Dr. Aston also mentioned that the idea for the bench was Dr. Elifrits'.

I sat down and spoke to Dr. Elifrits the other afternoon for about an hour on

different subjects. He was the one who had spoken to me that day, so long ago, yet we both remembered it. We had a nice conversation, and I was absolutely amazed at the stories that Dr. Elifrits told me about Dr. Aston, referring to him as "Captain" from his RAF days, I can only assume. (No, Dr. Elifrits was not in the RAF with Dr. Aston, Dr. Elifrits is a friend and was Dr. Aston's advisor while he was working on completing his degree.)

I just wanted to say thank you to both of these people for being so nice. I must also mention the bench, because it has made me smile twice. All three of them have made me feel better, so you will just have to say hello if you see them. (The bench especially!)

## Flower Power:

## You're smart!

by Daisie H.M. Hobson

Verve Writer

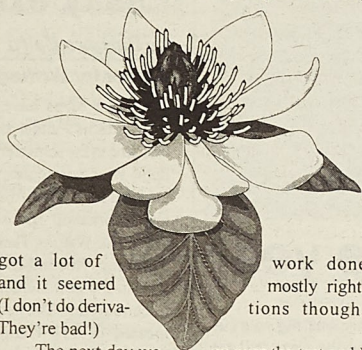
"First Down!" —J. Smith and various football officials.

I'm in a silly mood and I left my quote books at home so I had to think of something funny that I've heard lately. The first time I heard "J" say this, he scared the life out of me. He screamed it as loud as he could one night while studying. I'm not exactly sure about the whole story behind his sudden outburst but it certainly was amusing once I found my heart. It is amazing what we do to amuse ourselves while studying. It isn't just about entertainment, sometimes it is a necessity in order to stay awake. (Miniature footballs flying over my head in McNutt come to mind.)

I did have a break-through this week. I'm really afraid to mention it though. I might jinx it. Anyway, I have learned that I'm not as stupid as I thought. Either that or my brain decided to make its way home to me after my last article. Whatever the case I am truly amazed. It all started with a take home test...

We weren't supposed to work together, and we were all scared. It was asking a lot considering we do almost everything together. We wanted each other's help but were afraid to ask. I was especially terrified because for the last three years the only way

I've survived was due to the help of my classmates. So, here I am Monday night trying to do this test. Lucky for me I've already done four of the 10 problems, but it is due the next day. What is a girl to do? I can't call anyone. I take a nap. I wake up and decide to get to work. To my surprise I actually



got a lot of and it seemed (I don't do derivations though.)

The next day we go over the test and I did really well. I was actually shocked when I helped the guys next to me fix a problem. The teacher gives us another couple of days to do the test but by this point I'm tired of the test so I just turn it in as is (minus the derivations of course). I was pretty proud of myself but I didn't let it get out of control. So, the next night we're doing some

work done mostly right.

homework. I just happened to have most of it already done so I (yes ME) was helping everyone else. It felt great to actually be contributing something.

So, here I am trying to figure out what was going on here. Well I figured it out. I am not stupid! I am just a coward. Why? This school has tricked me into being a coward. From the beginning, they have told me to work in groups and it was there that I learned that I was not as smart as everyone else. This scared me. So, when it came to studying I left it to the smarter people and I added just enough to make it look like I knew something. Well I have now learned that I can work by myself and accomplish something.

Everyone has his or her weaknesses and strengths. It just takes time to find out what they are. I can now graduate with the knowledge that I am not stupid. I'm just not like everyone else. I am Daisie and I will do my best at whatever I do. (Just don't give me any tests!) I didn't write this to brag about myself. I wrote this for people out there who feel the same way I do. We will survive and we are very intelligent people. Just hang in there. The end of the semester is approaching, so everyone stick with it and get the job done! I hope everyone has a great week! Try to stay warm and drive carefully. Love, peace, happiness and graduation to all and to all a good week!

## Do your best all the time!

## Fall Film Fest

"Sling Blade" stars Billy Bob Thornton, Dwight Yoakam, J.T. Walsh and John Ritter, and is directed by Billy Bob Thornton. Academy Award nominee, "Sling Blade" is a southern gothic tale about a mildly retarded man released from an insane asylum 25 years after committing a double murder. He returns to the small town of his youth, forges a friendship with a young boy and his widowed mother and is thrust into a combustible dilemma. This film will be screened on Tuesday, December 2 in Leach Theatre of Castleman Hall.



Karl and Frank Bond  
Photo courtesy of Performing Arts

## THE MINER MUSIC REVIEW:

## COFFEE GRIND CONCERT

by Jimbob

Music Reviewer

The semester is going by so fast now. Only two more issues after this and it will be over but the memories. There were many types of music that have been reviewed this past semester. I hope people listened to what I had to say and either bought the albums or passed on my opinions. Probably not. But either way, I had a good time writing them. Quite a few concerts are working their way in the area, such names as The Toadies, Mannheim Steamroller, Freddy Jones Band and more. This is a good sign letting us know that by March, everyone will be touring and some pretty decent shows

should be lined up. I myself am looking forward to the Deftones, Fiona Apple and Modern English Shows. They might not be the greatest bands, but I know they put on excellent shows.

Last weekend three bands played over at the Coffee Grind: Rose Colored Glasses, Chris Bennett and a couple, Amanda and Mike. The show was definitely fun and interesting with an evening of total original music. Check out the review. It will be pretty fun to read what happened. Well, fingers are getting tired, so keep reading and let me know what you think.—Jimbo (jls@umr.edu)

Goldfinger  
Hang Ups

Mojo  
Performance: 6  
Sound Quality: 7

This is the new release from Goldfinger on Mojo Records. The guys have been working hard on touring and writing new material over the past year from supporting their last album, Self titled Goldfinger. In case you have been in closet and never heard of em... They are a mix of Ska with alternative rock, a spunkier version of Green Day with a bit of a hard core mix of the 80's. Most of the songs on the album keep your foot tapping and head bobbing, but nothing enough to get you out of your chair in class.



The album has 14 songs on it, which is pretty cool since most groups out there either put songs that really blow on the album or can't come up with any more than 10. Either way, the album has a lot going for it. The album opens up with "Superman." It's a song that has a little clean rhythm cranking out that sounds similar to that of the Bosstone's "Knock on Wood." After getting past this part, it's definitely different. The song has a hint of Green Day's "In Your Bedroom." I think that's just coincidence. The song is pretty cool. The song "If Only" and "SMP" have interesting mixes to them. The guys add some interesting riffs in them that

resemble metal power chord/rhythms in and out through the songs.

When I first heard it, I was like, "What the hell was that?" So, I rewinded the song and listened again. That was cool. Moving on with songs on the album that are cool: that overplayed track, "This Lonely Place." Yeah, it's a pretty wacky video, but the happy skip around the room music is something that makes driving around Iowa interesting, not just for cows that pass going moo every few seconds. It just adds something fun to the area... you all know what I mean. Now back to that "SMP" song. It's pretty short, say... about a minute, but what makes it

see Music on page 12



## Dr. Lance Williams to give "Last Lecture"

Wesley House

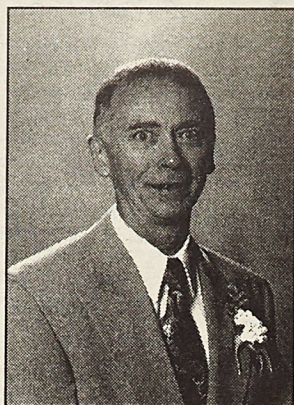
### Campus Ministries

Dr. Lance Williams, Associate Professor of History at the University of Missouri-Rolla, will present this semester's "Last Lecture" on Wed., Nov. 19, at 6 p.m. This presentation will be sponsored by United Ministries in Higher Education (UMHE) and held at the Wesley House, 403 W. 8th St. across from the post office.

The "Last Lecture" is a series in which UMR faculty or staff are invited to speak as if it were the last lecture of their lives. If that were the case, what would they say and what issues would be of paramount importance? "Toleration: Then and Now" is the title Dr. Williams has chosen for his "Last Lecture."

Dr. Williams received his bachelor's of science degree from East Tennessee State University and his master's of arts and Ph.D. degrees from the University of Georgia. Since coming to UMR in 1967, Dr. Williams has

twice served as Section Head in the History Department, Acting Chairman of the Social Sciences Department in 1976 and has been Interim Associate Dean of the College of Arts and Sci-



Dr. Lance Williams  
photo courtesy of News Services

ences since 1996. Dr. Williams has an extensive list of publications, book reviews, lectures and presentations. His primary research interests have been modern Britain and Modern Russia, as well as contemporary Europe and the world.

Campus involvement is a priority for Dr. Williams. He has served for many years as an advisor for numerous organizations including the yearbook staff, ASUM and Alpha Epsilon Pi Fraternity. Dr. Williams is also currently an advisor to undecided students and the campus recruitment representative for Arts and Sciences. In 1977-78, Dr. Williams received the UMR Campus Outstanding Teacher Award and in 1989-90 and 1996-97 received the UMR Alumni Association Outstanding Advisor Award.

All members of the UMR campus and the Rolla community are cordially invited to attend this "Last Lecture" and hear Dr. Williams address. For any questions regarding this presentation, please call Wesley House at 364-1061.

## Organizational Update

### TECHnicalities: Presents "The Road to Success"

by Veronica McAffry  
UMR TECHS

Last weekend, TECHS and peer educator groups from all across the United States gathered in St. Louis for the National Bacchus and Gamma Conference. Bacchus and Gamma is an international association of college and university based peer education programs. Their focus is on alcohol abuse prevention and other student health and safety issues.

At this conference, TECHSpre-

sented "The Road to Success," a model for building successful peer educator groups. The information TECHS conveyed was based on their own program and covered finding assistance, recruitment, training, organization and networking. Also, while attending the conference, three members of TECHS became certified peer educators.

All in all, TECHS members became more informed and inspired, while leaving an impact on peer educator groups nationwide!

### UMR Miner of the Month

by Mark Tschopp  
Blue Key

The UMR chapter of the Blue Key National Honor Society selected Pam Elfrink, sponsored by Zeta Tau Alpha, as October's Miner of the Month.

Pam teaches Public School Religion (PSR) to fourth graders at St. Patrick's Catholic Church for an hour every week. This helps the children

to learn more about the church and their faith. Pam tries to help them become more comfortable with expressing themselves through prayer. Pam lets them help do prayer and she teaches them that there are many ways of praying.

Blue Key would like to congratulate Pam Elfrink on her dedication and individual contribution to the children of St. Patrick's Catholic Church through the PSR program.

### Tips and Quips for Writers:

### Essay exam workshop offered

by Barbara Baird  
Center for Writing Tech.

Most of us have one or two essay exams "under our belts" by this time in the semester. Depending upon your test scores, you may or may not be interested in a free one-hour workshop sponsored by the Center for Writing Technologies on Thursday, November 20, from 3-4 p.m. in the new Center for Writing Technologies. The new "Center" is located in 114 Campus Support Facility.

The workshop will feature presentations from four writing assistants. These presentations will deal with the how to write an effective essay exam response. Believe it or not, there are helpful tips for mapping out a strategy to answer the question at hand.

David Lange, a civil engineering

major, will start the workshop with warm-up material on what makes a good essay—like concepts and justifications. Kristin Swain, a history/English major, will then take over and show you how to strategically plan a layout for your essay response. She will also focus on the thesis statement. Tina Andrews, a life sciences major, will then go over the lower order concerns, called mechanics. Finally, I will wrap it up with some tips from professors who have been kind enough to donate their recommendations about writing essay exams.

The workshop will also feature free hot food and cold drinks. If you have any questions, please call 341-4436, or e-mail us at wac@umr.edu. Hope to see you there!

Quip: A bore is a fellow who opens his mouth and puts his feats in it. —Henry Ford.

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

11/19	Puff Daddy & Family @ Kiel Center	CeCe Winans @ Kiel Center
	Dee Snider @ Pop's	Michael W. Smith @ Kiel Center
	Johnathon Butler @ Mississippi Nights	12/5-6 Soup Kitchen @ The Coffee Grind - Rolla
11/21	Ricky Skaggs @ The Sheldon Theatre	12/8 EC8OR @ The Galaxy
11/22	The Indigo Girls @ The Fox Theatre	12/9 Skrew @ Hi-Pointe
	Smashmouth @ The Galaxy	12/11 The Deftones @ Mississippi Nights
11/23	The Toadies @ The Galaxy	The Rolling Stone @ Trans World Dome
11/26	The Cramps @ Mississippi Nights	12/12-13 Everspinning Real @ The Rockin' R - St. Robert
11/28	Stir @ American Theatre	Everclear @ Mississippi Nights
11/29	Mannheim Steamroller @ Kiel Center	Kenny Wayne Sheppard @ Trans World Dome
	Modern English @ Cicero's	12/15 Goldfinger @ The Galaxy
11/30	Fiona Apple @ American Theatre	12/17 Warrant @ POP'S Nightclub - IL
12/3	Freddy Jones Band @ Mississippi Nights	12/22 The Urge @ Mississippi Nights
12/4	Atari Teenage Riot @ The Galaxy	12/25 NIL-8 @ Mississippi Nights
12/5	Amy Grant @ Kiel Center	2/28 Tony Bennett @ Fox Theatre

## 120 daze till the best day of the year

by Daniel McCulley, Jr.  
St. Pat's Committee

One of the best things about St. Pat's is that it is for everyone. It's a time for all students to take a break from their studies and blow off some steam.

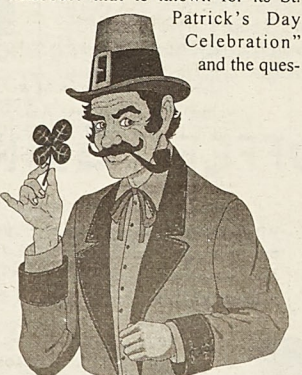
The week of St. Pat's is kicked off with Follies on Monday and Tuesday at the Puck. Everyone is welcome to participate. In fact, we encourage the entire campus to get involved, or at least come out and watch. On Wednesday, Follies moves out to the Bandshell for Saint Patrick's arrival. With Thursday and Friday come Gonzo and games at the Frat Row Fields. Admission to the games is simply your Gonzo cup which also gets you free soda both days. After the games on Friday is the Coronation where the student and honorary knights are recognized and the Queen of Love and Beauty is crowned.

This year, Coronation will be followed by a fireworks display and a Coronation Ball. As always, Saturday brings the Parade, and this year we're trying something new, a fair on Saturday afternoon with booths for food and different activities.

St. Pat's is also a great time for the entire city of Rolla and anyone who makes the trip down to Rolla for the

festivities. Everyone who buys a sweatshirt is participating in the 90 year tradition that makes Rolla famous.

I was watching Jeopardy a few weeks ago and the answer was "City in Missouri that is known for its St. Patrick's Day Celebration" and the ques-



tion, of course, was "What is Rolla, Missouri?" a guy from New York knew that. That is how big St. Pat's is. Wherever I go, when people find out that I go to UMR they ask me about St. Pat's or they share their great stories from when they came down for St. Pat's. So, don't miss out on your chance to be part of some great stories of your

own.

Some of you are wearing your '98 Green and counting the Daze 'till the 90th annual Best Ever St. Pat's 1998, wishing you could participate more in this 90 year tradition.

Well, the best way to get more involved with the greatest St. Pat's Celebration around is to join the best organization on campus, the St. Pat's Committee.

The St. Pat's Committee will recruit new members early next year and right now is the perfect time to start thinking about joining. The St. Pat's Committee not only puts on the biggest celebration of the year, but also provides valuable personal contacts and indispensable leadership skills that will help prepare you for a career dealing with people.

If you are interested in becoming a member, the St. Pat's Committee will hold an informational meeting on Tuesday, December 1 in the Mark Twain Room in University Center East at 8 p.m. The main topic will be new membership. If you have any questions please contact Jasyn Randazzo, the St. Pat's Recruitment Chairman, at 341-5528 or randazzo@umr.edu; or

see St. Pat's on page 12

## Siskel's Flick of the week

Our Flick of the Week is "The Jackal," a needless, pointless remake of a superb thriller, Fred Zinnemann's 1973 handbook on a world-class murderer for hire, "The Day of the Jackal." That film was so good that, even though we knew the assassin couldn't rewrite history by killing French President Charles De Gaulle, we were enthralled by the plot nonetheless. And so, for the umpteenth time, allow me to make this point: Hollywood should remake mediocre movies, not good ones. And so much for "The Jackal" being needless.

As for pointless, I don't see anything distinctive about this film, save for its killer's customized weapon of choice,

a monster modified machine gun that can blow holes in targets almost as big as the ones in the screenplay. The story has assistant FBI director Sidney Poitier using IRA operative Richard Gere to psych out, and help take out, acclaimed international killer Bruce Willis, who has been hired by the Mafia to eliminate a major American public figure.

That's a big-name cast, with actors who previously have displayed a strong social conscience in their roles. Not this time; it's anything for a buck. "The Jackal" is tawdry material when you find out the identity of the target. R. 1 star.  
—by Gene Siskel (c) 1997 Tribune Media Services. All rights reserved.



# Sports

## Miner football defeats SBU 19-0 to end season 3-8; 2-7 MIAA

by Jonathan Erdman  
Sports Editor

The University of Missouri-Rolla football team ended its season with a 19-0 shut out against Southwest Baptist University, which made the Miners final season record 3-8 overall and 2-7 in the Mid America Athletic Association.

The first quarter brought no score for either team. The Miners kept control of the ball for most of the quarter. The second quarter opened up with a Miner drive that ended with an interception thrown by UMR's David McCormack. The ball was returned to the SBU one yard line by SBU's D. White. SBU's drive was shut down by the Miner defense. SBU punted the ball from their one yard line four downs later. The Miners scored five plays afterwards with Miner Ed Starks running for three yards to cap off the Miner drive. Brandon Risner scored the extra point which made the score 7-0 in favor of the Miners.

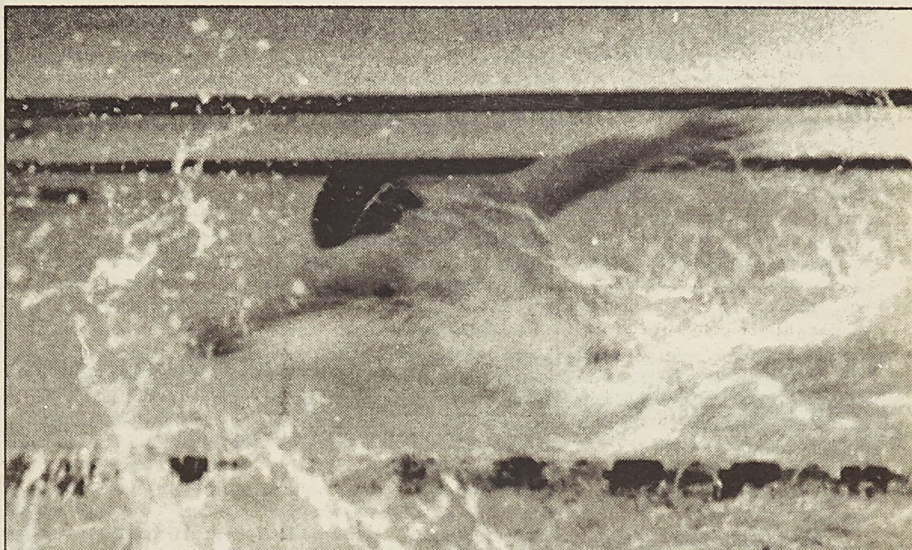
The next scoring drive for the Miners took place in the second half. During the first half, the Miners held the Bearcats to 22 total yards, compared to UMR's 102 yards. The next scoring drive of the game started with 8:22 left in the third quarter. The Miners began their march down field from the Miner 41 to the SBU end zone. The Miners ran the ball for 59 yards through

a series of short rushes led by Jason Wagoner that resulted in a Miner touch down 10 plays and 5:16 later by Brad Clark. Risner failed the extra point attempt, which brought the score to 13-0 in favor of UMR.

The final scoring drive of the game took place in the fourth quarter. Through a series of Miner rushes, the Wagoner took the ball into the SBU end zone nine plays and five minutes later, with a six yard rush. UMR failed a two point conversion pass by McCormack which made the final score of the game 19-0 Miners. The Miner defense held SBU to a total of four rushing yards and 90 yards total. The Miners ended the game with 239 rushing yards and 10 passing yards.

"Defensively, I thought we bounced back quite a bit from the Emporia game. We played good solid defense, and totally shut down SBU's running game," UMR head coach Jim Anderson said. Anderson was pleased with the results of the Miners' last game. "I thought it was an outstanding way to end the season. With twelve seniors playing their last game, you always want to try to go out on top. That's the game that those guys are going to remember for the rest of their lives," Anderson said. "For the rest of our squad, it really gives them something positive to build on going into the

see Miners on page 13



Sophomore Steve Caruso powers his way towards a victory in the 200 butterfly, the Miners only individual victory in their home loss to last year's Division II runner-up Drury on Friday, Nov. 14.

photo by Wendy Hoffman

## Swimmers suffer second defeat at the hands of top-ranked Drury

by Brad Neuville  
Assistant Sports Editor

The University of Missouri-Rolla swim team suffered its second dual meet loss of the season on Friday, Nov. 14 in Rolla. The Miners lost to last year's NCAA Division II national runner-up Drury 119-80 at the UMR Multipurpose Center.

The Miners managed only one first place finish in the meet which was dominated by the Panthers. Drury has one of the most respected and power-

ful swim programs in the nation. Their schedule includes dual meets with six different NCAA Division I schools as well as two huge invitational meets in Hawaii and California.

"We were pleased with how we competed," coach Mark Mullin said. "We went in and showed that we weren't intimidated by them. Drury is the odds-on favorite to win nationals this year. They were second last year and last year's winner is in Division I this year, so they [Drury] should win it this year."

The Miners lone victory came in the 200 yard butterfly where sophomore Steve Caruso outdueled Drury's Aaron Hawke. Caruso finished in 1:55.33 which is less than one and one half seconds off his personal record time of 1:53.93 which he set at last year's national meet.

"Our performances were highlighted by Steve Caruso in the 200 yard butterfly," Mullin said. "His time was only a half a second off of the national cut."

The national cut is the time that a swimmer must beat in order to qualify for nationals in a given event. According to Mullin being so close to the cut this early in the year is a huge accomplishment.

In the first event of the night freshman Josh Jolly, sophomore Tyler Christensen, Caruso and sophomore Tom Beccue combined for a 3:33.84 in the 400 yard medley relay which was good enough for second place.

"I was extremely pleased with our 400 medley relay team," Mullin said. "I now feel that we have a good shot at qualifying for nationals in that event."

The next event was the 1,000 yard freestyle. Junior Todd Lundberg took second place in the grueling event, touching the wall in 10:19.73. Junior

Mike Norris was fourth in the event finishing in 10:46.94.

The next event, the 200 yard freestyle, would see the Miners last second place finish for the evening. Sophomore David Nurre took second, touching the wall in 1:47.87.

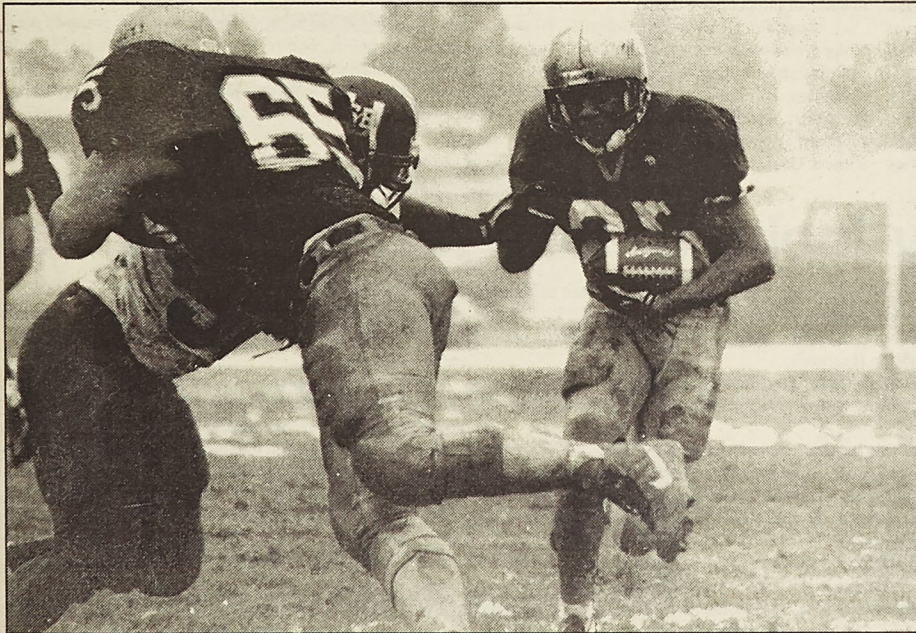
The next two events, the 50 yard freestyle and the 200 yard individual medley, were dominated by Drury. For the Miners, Jolly was fourth in the 50 yard freestyle finishing in 22.83 and in the 200 yard individual medley freshman Eric Carter took third, touching the wall in 2:02.96. The 200 yard individual medley was followed by Caruso's win in the 200 yard butterfly.

"With where this meet falls in our schedule we looked to take a little pressure off of our guys," Mullin said. "We had an extremely tough weekend last weekend, competing against three of the top teams in Division II and with the next two weekends being really big the Drury meet was kind of stuck in the middle. We knew we couldn't beat them in a dual meet format but we knew we could be competitive. We trained really hard this past week and I knew they [the team] would be tired. We actually did a little better than I had anticipated."

The next event was the 100 yard freestyle. Sophomore Mark Pearce took third place, touching the wall in 50.18 and was followed by sophomore teammate Kris Leftwich who finished in 50.24.

The Miners also finished third and fourth in the 200 yard backstroke with Carter nipping out Jolly by only .03 seconds. Carter finished in 2:20.56 while Jolly had 2:02.59. The 500 yard freestyle followed and was again controlled by Drury. The Panthers took the first three spots with Nurre coming

see Swimming on page 13



Senior Elliot Jackson rushes against SBU in the Miners' 19-0 victory. Jackson ran for 28 yards gained and lost 9 for a net total of 19 yards during the game.

photo by Brian Holley



# Miners win exhibition against Dream Builders 86-84

To open season  
Saturday in San  
Antonio, Texas

by Todd Monroe

Staff Writer

The University of Missouri-Rolla Miner basketball team opens the regular season this Saturday, Nov. 22 when it takes on the St. Mary's Rattlers in San Antonio, Texas at 7:30 p.m. Tuesday, the Miners travel cross state in Texas to take on Rice University, in Houston. Gametime for the Tuesday game is slated for 7:35 p.m.

"It will be very tough. Rice will be a tough, physical game and St. Mary's has four returning starters from a team that went 20-7 last year. They are ranked ninth in the nation NAIA, so they'll be very good. It will be good for us and I think it will help us down the road," Coach Dale Martin said.

The Miners gathered confidence and some early exhibition action this past Saturday, Nov. 15, when they took on the Dream Builders, a conglomerate of

past college players.

The game was a tight contest throughout with the first half seeing a dead even finish at 42 points apiece.

The lead did not sway further than five points for either team throughout the second period of play. With under two minutes left in regulation the Miners were holding a 71-70 lead when the Dream Builders' Kevin Sams layed in the ball for the lead. UMR's Robert Guster answered with a three as the game neared the one minute mark. Rolla held the lead until with 25 seconds to go, Sams converted his second consecutive layup to pull even and send the game into overtime.

The overtime session proved to be similar to the rest of the game, with the same see-saw action between the two combatants. This time the lead for either team never exceeded three points as both groups ran neck and neck down to the wire. The five minute period wound down to 28 seconds with the score even at 83. Miner forward Marc Tompkins converted one of two free throws to inch ahead by one. Eight seconds later Tompkins fouled Julian Winfield, who made the top end of his pair of free throws to even the score again at 84. The game remained unchanged until Miner center Ryan Pippett hit the go-ahead jumper with 4 seconds remaining to give the Miners the win.

"We are a very quick team, and not only do we have it, but we use it. We really put pressure on them defensively, there were times when we got involved in a half court game and it was not good for us because we have to create things and play a little bit more all over the floor. As long as we have good ball pressure and have some weak side help, I think this club can have success. It [the game] comes at a very

good time for us, because we needed to play against someone other than ourselves and we needed to see what the things are we need to work on. Lord knows we have a lot we need to work on. We have a lot of new guys, we have guys who don't understand the intense level which we need to play. We need to play harder and we don't help quick enough right now, what I mean by that is, if someone puts the ball on the floor baseline we don't have help-side position quick enough, we don't sell it well enough. But that's to be expected this early in the season, we'll get better," Martin said.

UMR outrebounded the Dream Builders and recorded 22 offensive boards in the process. Martin went on to express his feelings about the good rebounding game the Miners had.

"I felt very good about it. I thought they would kill us on the boards. Not only are they tall, they are much stronger than us, but we were able to outrebound them by four. We were quicker to the ball, and we were also able to get 21 steals and I think that is a tribute to our quickness as well," Martin said.

Martin was very pleased with the way the scoring was distributed among the players and how a lot of shots went to a single person. He felt that is a key for the team to be successful. He expressed that he would like to see the field goal percentage increase. The Miners finished the game at 35 percent. The fact that this was the first game-type action was thought to have contributed to some of the poor shooting.

Stats for UMR included Scott Holly with four points, five rebounds, four assists and a steal and a block, Tompkins: 18 points, seven rebounds, two assists, and three steals, one block; Pippett: 15 points, 10 boards, six steals; Robert Guster: 13 points, three re-

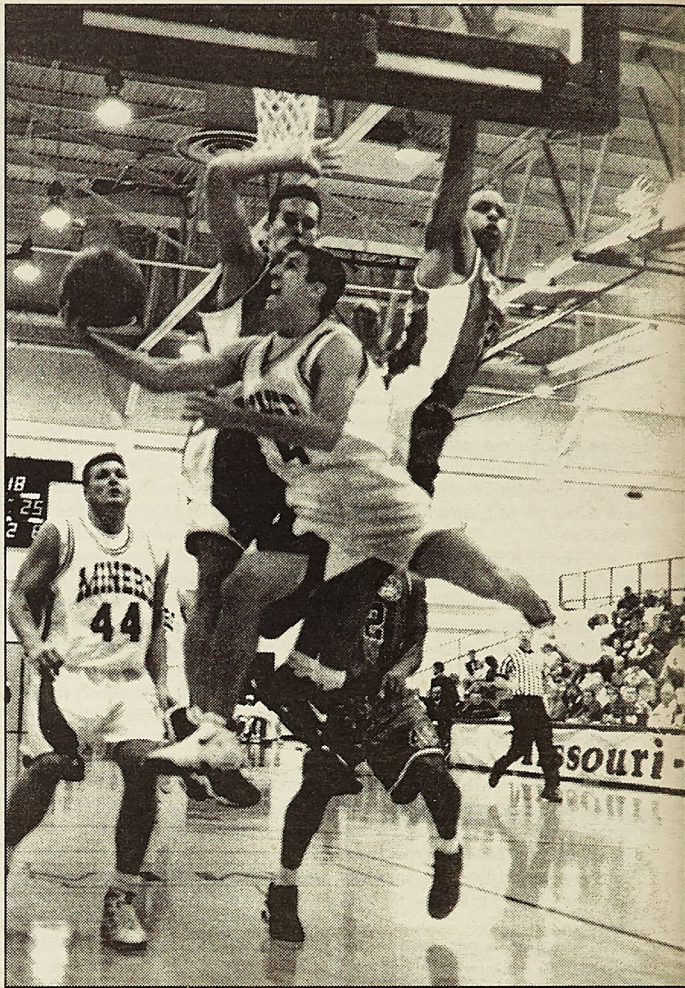
bounds, 1 assist and six steals; Kevin Conkright: eight points, seven boards, five assists and one steal; Cory Brunson: 10 points, one rebound and one assist; Antoine Lucas: eight points, one rebound, one assist; Ryan Matthews: six points, five rebounds, one assist and five steals; Kevin Robertson: four points, three rebounds.

The Dream Builders were led by

Sams who had 24 points and five rebounds.

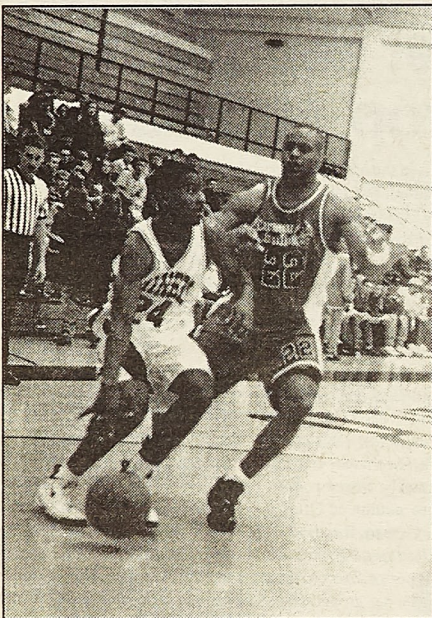
Coach Martin looks for a good season from this group of players.

"I think this group's going to be extremely entertaining. They love to play. The club's got a great personality and so far no one's pointing fingers: everyone's taking responsibility," Martin said.



Miner basketball player Cory Brunson goes up for a shot in the exhibition against the Dream Builders Saturday, Nov. 15. The Miners edged by the Dream Builders with a score of 86-84 in overtime.

photo by Ryan Shawgo



Miner Scott Holly (24) drives around former Miner Chris Dawson. photo by Ryan Shawgo

## UMR's Ben Mulvaney looks to take Nationals by storm

by Brad Neuville

Assistant Sports Editor

Last year Ben Mulvaney went to the NCAA Division II National Cross Country Championships looking to finish among the top 25 Americans in the race, which would qualify him for All-American honors. He accomplished his goal. This year the University of Missouri-Rolla senior has a somewhat loftier goal.

"My goal is to be the top American [at nationals]," Mulvaney said. "I'm much better than I was last year. I'm running at a different level now."

Mulvaney qualified for this year's national meet by placing fifth at the Great Lakes Regional Meet on Saturday, November 8. Mulvaney was the top individual qualifier to come out the regional and therefore took one of the two individual spots open to go to the national meet which will be held in Kenosha, Wisconsin on Saturday, November 22.

Many of the top runners in Division II are foreign-born. The reason they choose to run in Division II instead of Division I is

due to the rule in Division I that states that no one can participate in Division I athletics if they are over the age of 25. Foreign students who wish to participate and are over 25 are then forced to go to Division II schools.

"A couple of the guys that beat me at regionals have freshman eligibility," Mulvaney said. "But none of them are under 28 years old."

"For this reason, Mulvaney should be in the running to accomplish his goal. The four people who finished ahead of him along with the fifth and sixth place finishers at the regional meet were all foreigners. Also, the Great Lakes Regional is, arguably, the toughest regional in the country.

"I beat the top finishers in four of the other six of this year's regionals at nationals last year," Mulvaney added. "I also was only three seconds behind last year's national champion at regionals. I should be [in the] top 15 [at nationals]."

Mulvaney's confidence in himself is well supported by his recent performances. His time of 31:30 at this year's regional is a personal record by 53 seconds.

He also fared very well at the MIAA conference meet where he also posted a personal record, this time in an eight kilometer race, placing fourth behind three Central Missouri State runners with a time of 25:45.

Mulvaney has lead the Miners all year, steadily improving after coming off of an early season hip injury which forced him to miss several days of training. He has come back strong, however, and is in prime condition to have a strong showing at nationals.

Mulvaney's stiffest competition for top American honors may come from Matthew Hoyt from the University of South Dakota. Hoyt finished first at the North Central Regional with a time of 30:43 on a fast course. California Poly-Pomona runner Mike Moreno should also be tough to beat; he finished ahead of Mulvaney at nationals last year placing 28th overall.

Despite the tough competition Mulvaney feels confident going into his second national meet.

"We've done some different things to get me ready this year," Mulvaney said. "We've done a lot more [this year] to build up my speed which has really put me over the top."



# Lady Miners lose opener to Missouri 74-49

by Kristen Hartman  
Staff Writer

The Lady Miner basketball team opened its season with a 74-49 loss to the University of Missouri-Columbia Lady Tigers on Fri., Nov. 14.

According to head coach Linda Roberts, the Miners played well against the Division I Tigers.

"We were just hoping that we could play better than we played last week (against the Gold Stars). I think we did," Roberts said.

This game was played as a guarantee game for the Miners. This means that the Tigers gave the Miners "guarantee" money to help cover the expenses of traveling to Columbia to play. The purpose of this, according to Roberts, is to give the Tigers an early home game that they are likely to win. For the Miners, it is a good experience, and a game Roberts would have her team play even if it was not a guarantee game.

"It gives our players the opportunity to play against tough

competition," Roberts said.

Starting the game for the Miners were Debra Gronewoller, Miranda Beadles, Sarah Wilcox, Emily Mills and Jamie Martens.

The team fell behind early in the first period with the Tigers building a 25-5 lead in the first 10 minutes. However, the Miners kept it a five point game in the next 30 minutes. At half the score was 40-21, a difference of 19 points. The Miners lost by 25 points.

"I thought we got better as the game went on. After the first ten minutes, we settled down," Roberts said.

Roberts credits the team's ability to keep the game close after the first 10 minutes to their defense.

The Miners struggled on offense making 11 of 41 field goals and two of five three point shots, but they shot well at the line, making 25 of 36 free throws. Mills was the leading scorer for the Miners with 18 points. She lead the Miners in scoring last year averaging 14.1 points a game, but Roberts wants to work on running the offense more effectively.

"We really hope this year we can spread out the offensive load," Roberts said.

With 6:46 left in the second period, the Miners lost a key defensive player when Wilcox fouled out on what Roberts thought was a bad call by the referee.

"That was probably pretty frustrating for her. When she went to the bench, we lost a lot of size and strength," Roberts said.

Overall, Roberts was happy with the Miners performance. She was pleased with freshmen Jackie Kelbe's and Shannon Perry's performance off the bench. Kelbe and Perry scored seven and six points, respectively.

According to Roberts, the Miners will continue to work in practice on getting their new players used to the offensive and defensive systems.

"We want to see if we can just keep getting better," Roberts said.

The score of Lady Miners game at SIU-Edwardsville on Tues., Nov. 18 was not available at press time. The Lady Miners will face Coe and Ottawa on Fri., Nov. 21 and Sat., Nov. 22, respectively, in Warrensburg, Mo. before returning home to face William Woods on Tues., Nov. 25.

## Miner Scores & Stats

### Women's Basketball

Missouri - 40 34 -- 74

UMR - 21 28 -- 49

#### Lady Miner Leaders

Points: Emily Mills, 18; Jackie Kelbe, 7; two with 6.

Rebounds: Mills, 5; five tied with 3.

Steals: Mills, 4; Kelbe, 4; Jamie Martens, 3.

### Swimming

#### Drury College Dual

Drury - 119, UMR - 80

#### Top Performances

200 butterfly: 1. Steve Caruso, 1:55.33.  
1,000 freestyle: 2. Todd Lundberg, 10:19.73.  
200 freestyle: 2. David Nurre, 1:47.87.  
400 Medley relay: 2. UMR, 3:33.84.

### Men's Basketball

UMR - 42 32 12 -- 86

Dream Builders - 42 32 10 -- 84

#### Miner Leaders

Points: Mark Tompkins, 18; Ryan Pippett, 15.

Rebounds: Pippett, 10; Tompkins, 7; Kevin Conkright, 7.

Steals: Robert Guster, 6; Pippett, 6; Ryan Matthews, 5.

### Miner Football

Southwest Baptist 0 0 0 0 -- 0

Missouri-Rolla 0 7 6 6 -- 19

#### Season Statistics

RUSHING	ATT	+YDS	-YDS	TOTAL	TD	LG
Jason Wagoner	97	479	28	451	2	52
Ed Starks	90	400	40	360	2	67
Elliot Jackson	30	132	7	175	3	61
Brad Clarke	33	141	1	140	1	15
William Feickert	36	134	6	128	0	15
MINERS	424	1753	411	1342	11	67

PASSING	ATT	COMP	INT	YDS	TD	LG
David McCormack	127	49	5	583	1	38
Matt Brueckner	113	44	4	572	2	70
Brian Eisenloeffel	4	2	0	-22	0	11
MINERS	244	95	9	1177	3	70

RECEIVING	NO	YDS	TD	LG
Elliot Jackson	39	460	2	38
Ed Starks	15	202	0	36
Sam Petty	12	235	1	70
Jason Benne	10	138	0	22
MINERS	95	1177	3	70

DEFENSE	UT	AT	TT	SACKS	TFL	REC	BRK
Dean DeSherlia	58	26	84	1-9	8-31	1	4
Willie Halliburton	41	17	58	0-0	6-14	2	0
Richard Crowe	38	18	56	0-0	1-2	1	4
Bryan Lewis	38	9	47	2-20	8-30	0	2
Colin Miller	28	18	46	0-0	5-12	1	1
Tom Benassi	29	15	44	0-0	0-0	2	1
Greg Hayes	32	10	42	0-0	2-3	0	1
Bret Lindsey	32	9	41	0-0	1-3	1	0
Charles Varadin	26	12	38	0-0	1-1	0	0
Jeff Fulks	29	8	37	0-0	1-4	0	1
Arnett Thomas	25	7	32	0-0	1-5	0	9

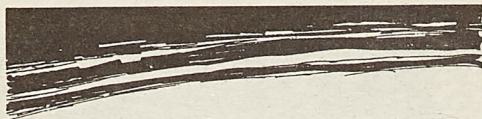
SCORING	TD	PAT	2-PT	FG	SAF	PTS
Brandon Risner	0	14	0	10	0	44
Elliot Jackson	5	0	0	0	0	30
MINERS	15	14	0	10	0	134

Stats courtesy of UMR Sports Information



## Comics

## NON SEQUITUR BY VIEV



I SEE YOU HAVE  
A TEENAGER...

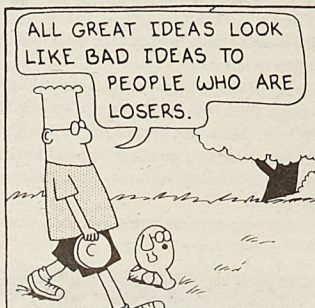


11-15

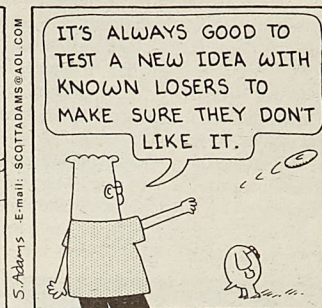
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Washington Post Writers Group E-mail: [wiley@wileytoons.com](mailto:wiley@wileytoons.com)

## DILBERT

by Scott Adams



ALL GREAT IDEAS LOOK  
LIKE BAD IDEAS TO  
PEOPLE WHO ARE  
LOSERS.



IT'S ALWAYS GOOD TO  
TEST A NEW IDEA WITH  
KNOWN LOSERS TO  
MAKE SURE THEY DON'T  
LIKE IT.



DOGBERT'S RESEARCH CO.  
WHAT A COINCIDENCE.  
WE BOTH LOST THREE  
HOMES IN  
FLOOD ZONES.

LET'S  
BEGIN.



DOGBERT RESEARCH CO.  
YOU'VE ALL BEEN CARE-  
FULLY SCREENED FOR  
THIS FOCUS GROUP.

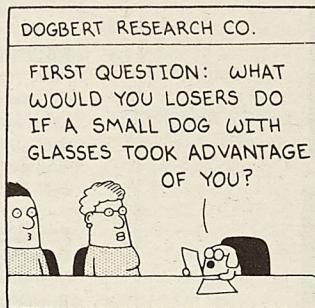


EACH OF YOU HAS A  
PATTERN OF MAKING  
"LOSER CHOICES." I'LL  
TELL MY CLIENTS TO DO  
THE OPPOSITE OF WHAT-  
EVER YOU RECOMMEND.



FUN! I'M GLAD I  
SKIPPED JURY DUTY  
TO BE HERE.

I RESCHEDULED  
MY LIVER TRANS-  
PLANT!



DOGBERT RESEARCH CO.  
FIRST QUESTION: WHAT  
WOULD YOU LOSERS DO  
IF A SMALL DOG WITH  
GLASSES TOOK ADVANTAGE  
OF YOU?



WE WOULD COMPLAIN  
TO THE... UM... WHO-  
EVER HANDLES THAT  
SORT OF  
THING!

YEAH!



IT COSTS FIFTY BUCKS  
TO FILE A COMPLAINT?

BUREAU  
OF  
DOGS.

AND TEN  
BUCKS TO  
BORROW  
A PEN.

## MINER ADJUSTMENTS

By C. James

YOU KNOW THE HONEYMOON IS OVER BEFORE IT STARTS WHEN...



PETE, WHAT  
ABOUT THE  
RIVIERA?

BEST DAMN  
CAR PONTIAC  
EVER MADE...

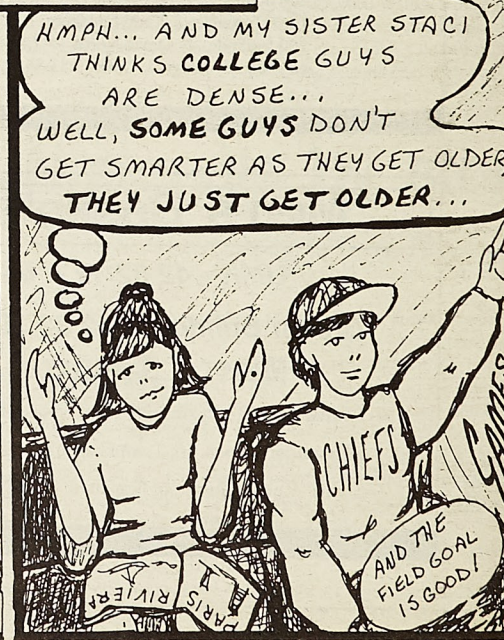
NO... THE  
FRENCH RIVIERA...

AND THE  
CHIEFS  
ARE DOWN  
21 TO 23...



NOW, LAURA... I KNOW YOU  
DON'T KNOW MUCH ABOUT  
CARS, BUT THE **FRENCH**  
CAR IS A **RENAULT**... DON'T  
LOOK A THING A LIKE...  
BESIDES, WEREN'T WE  
TALKING ABOUT PLACES TO  
GO ON OUR HONEYMOON?!?

?!?



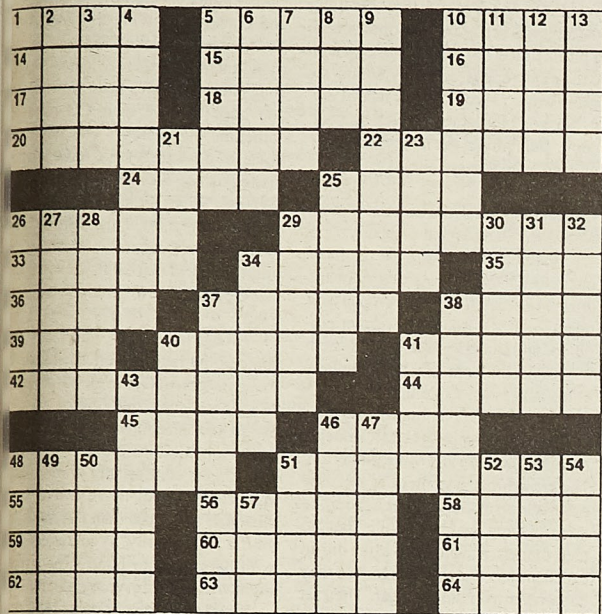
HMPH... AND MY SISTER STACI  
THINKS **COLLEGE GUYS**  
ARE DENSE...  
WELL, **SOME GUYS** DON'T  
GET SMARTER AS THEY GET OLDER,  
**THEY JUST GET OLDER...**

AND THE  
FIELD GOAL  
IS GOOD!



# Diversions

## Crossword Puzzle



### ACROSS

- 1 Mid-East man
- 5 Fight off
- 10 Help along
- 14 — monster
- 15 Make happy
- 16 Give out
- 17 Tresses
- 18 Heals
- 19 Forest plant
- 20 Height
- 22 Piano style
- 24 Grow weary
- 25 Bosc
- 26 American saint
- 29 Voided
- 33 Happening
- 34 Father
- 35 Notable period
- 36 Copenhagen citizen
- 37 Lost color
- 38 Algae derivative
- 39 Summer drink
- 40 Sharpens
- 41 Tilting
- 42 Complex systems

### DOWN

- 1 Turkish leader
- 2 Iranian money
- 3 Landed
- 4 Male voice
- 5 Happen again
- 6 Escape
- 7 Trim
- 8 Summer, in Paris
- 9 Abated
- 10 Be fond of
- 11 Blessing

### 12 Otherwise

- 13 Examination
- 21 Color
- 23 Treaty
- 25 Book leaves
- 26 Portable
- enclosed chair
- 27 Escape by deceit
- 28 Church teaching
- 29 Surrenders by treaty
- 30 Lawful
- 31 Obliterate
- 32 Pub game
- 34 Financial houses
- 37 Predict
- 38 Isolate emotionally
- 40 Antler
- 41 Monastery head
- 43 Restaurant worker
- 46 Bundled
- 47 States firmly
- 48 Rebuff

### 49 Church head

- 50 Flower
- 51 Reside
- 52 Battle of honor
- 53 And others: abbr.
- 54 City on the Tiber
- 57 Stooze name

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## "I.N.I.T.I.A.L. REACTIONS" PUZZLE

49 S. Walnut Bend  
Cordova, TN 38018

By Stuart Levine

PUZZLE # 51

© 1997 Initial Reactions

The top line links two familiar celebrity names, real or fictional. When written vertically, they form the 'initials' of the 'reaction' names below. Fill-in the 'linked' names to get the initials of the 'reaction' names, or solve for the 'reaction' names, using the hints given, and use their initials to spell out, vertically, the 'linked' names for the top line (Name 1 and Name 2)

S \_ \_ \_ M \_ \_ \_ and N \_ \_ \_ R \_ \_ \_  
(NAME 1) (NAME 2)

LINK: "Cheers" and Texas Ranger's former baseball pitchers

NAME 1 NAME 2 "REACTION" NAMES

S N S N

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- HINTS
- Conservative Southern Senator From Georgia
  - 50's TV Western Heroine Based On Real Life Cowgirl
  - He Hangs Out With Five Other "Friends"
  - 60's Boxing Champ Axed For Refusing To Be Drafted
  - Musical Comedy Actor Appeared In "Dr Doolittle"
  - First Big Hit Was 1958's 'Good Golly Miss Molly'
  - Cannine Star Of 50's Disney Movie Of The Same Name
  - First Man To Set Foot On The Moon
  - The Only Female "Taxi" Driver On TV

## PUZZLED ?? ABOUT CLASSIFIED ADS ?

CALL OUR AD PROFESSIONALS AT: 341-4235



## 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.

Nearly 300,000 people work directly in mining throughout the United States. Employment in industries that support mining accounts for about three million jobs

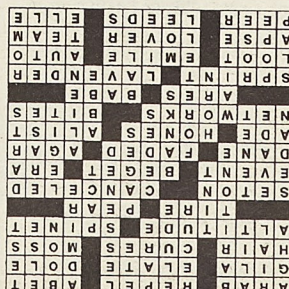
--GEM

As of today there are...

- 14 class days left until the start of finals week
- 31 days left until Winter Semester Commencement
- 35 shopping days left until Christmas



## Puzzle Solutions



PUZZLE ANSWERS  
SAM MALONE AND NOLAN RYAN  
Sam Nunn, Annie Oakley, Matt LeBlanc,  
Muhammad Ali, Anthony Newley, Little  
Richard, Old Yeller, Neal Armstrong,  
Elaine Nardo



## Telemetering

from page 2

systems as well as help practicing engineers stay current on the technology."

The IFT contributed \$67,000 in first-year funds for the project. Combined with UMR and National Science Foundation funding, the project will receive about \$190,000 for the first year. Funding levels will stay approximately the same over the four years. Working with Kosbar on the project are Drs. James L. Drewniak, associate professor of electrical engineering; E. Keith Stanek, chair of electrical engineering; and Robert Mitchell, dean of the School of Engineering.

## Infrastructure

from page 2

This rehabilitation method, known as "externally bonded reinforcement," is "ideal when you are rehabilitating existing structures," Nanni explained. "You are not increasing the structural member's thickness or adding any weight to the structure." Carbon fibers are anywhere from two to eight times stronger than steel, depending on the grade of steel, Nanni said.

While Nanni emphasized the usefulness of these new materials in reha-

bilitating existing infrastructure, he also is involved in research on using these materials for new construction. Through a grant from the Federal Highway Administration, Nanni will test pre-stressed concrete girders and piles that use fiber-reinforced polymers rather than steel tendons for pre-stressing. Working through a subcontract with the University of Wyoming, Nanni and his team will test 40-foot-long girders in UMR's Engineering Research Laboratory.

## Dinner with Speaker Gaw

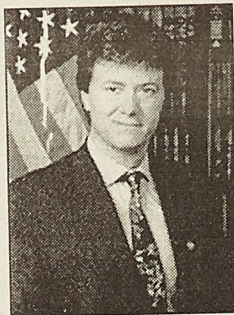
The Missouri Speaker of the House Steve Gaw will join ASUM and all interested students, faculty, and staff for a dinner. He will be sharing his ideas on issues such as student financial aid and loan forgiveness.

December 3, 1997

6:00 - 7:30 p.m.

Carver-Turner Room UC-East

The Associated Students of the University of Missouri  
"The Student Voice in State Government"



The dinner is open to all UMR students, faculty, staff. R.S.V.P. by December 1, 1997 341-4970, umrasum@umr.edu, 212 UC-West www.umr.edu/~umrasum

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### Spring Break '98

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: cdroum@umr.edu

**Earn MONEY and FREE TRIPS!!** INDIVIDUALS and GROUPS wanted to promote SPRING BREAK!! Call INTER-CAMPUS PROGRAMS at 1-800-327-6013 or http://www.icpt.com.

**MAZATLAN! SPRING BREAK! FREE TRIPS! CASH!**

Starting at \$399! Includes 7 nights hotel, air, party & food discounts. Organize a group and travel FREE! Call 1-888-472-3933 USA Spring Break Travel Since 1976

**HEY!!!** I'm looking for people who want: Flexible Hours, Above average wages, like helping others. Serious inquiries only. 573-368-3752.

**Christian guitarist/singer/songwriter** looking for like musicians to start Christian rock band. Inquiries to jhamer@umr.edu or call 9724.

**Will do typing and presentations.** FAST AND FRIENDLY! Will pick up and drop off. Call 341-9968.

**FOR SALE:** 1967 Mustang. Red/Red. 6 cyl 3 spd manual trans. Good outside, Great inside. Runs good. \$4500 nego. Call Larry, 364.4324, evenings.

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.

## Music

from page 5

interesting, not just for cows that pass going moo every few seconds. It just adds something fun to the area...you all know what I mean. Now back to that "SMP" song. It's pretty short, say...about a minute, but what makes it cool is the attempt to sound something like the Beastie Boys "Whatcha Want"...gave me a grin too. Overall, the album is pretty cool. It does sound a bit like their last album, but Ska and Green Day songs can only sound so many ways...I won't knock it cuz I dig it. So, go to the store and pick up your copy. If anything, get it for the sake of owning a Goldfinger album.

**Concert Review:** Rose Colored Glasses with Chris Bennett and company

Saturday Night was the return of one of Rolla's hardest working women's duet Minstrellettes. Accompanying them was Chris Bennett, a former employee and student of the UMR system who broke the chain that held him here in Rolla to move to Columbia.

Opening the evening was the folk/gospel singing voices of UMR students Amanda Garrison and Mike Pinkerton. The crowd that was there at the time was made up of a large church group, so them playing was a definite treat to their dinner. Amanda and Mike did an excellent job, playing songs that they had written over the past year. Their set consisted roughly of seven songs, but lasted a good 30 minutes.

Next to take the stage was Chris Bennett. Chris is a folk/pop singer that pretty much puts John Denver's album in the bottom shelf. Chris has been writing songs for some time, playing at places like the Open Hand, the Coffee Grind and other small venues throughout Missouri. His style of play and emotion he puts in the songs are amazing. Songs like "Little White Lie," "Slow Dance" and "James Dean" are all thought provokers and keep the atten-

tion of anyone that listens. My mother is one of the hardest to get to listen to stuff from my friends, and when she heard him, she asked if I was friends with Hootie. Well, I told her no but she said "That boy's got a good voice, he gonna go places"...Thanks, Mom, for that insert. Anyhow, Chris did an excellent job and should be coming back with Rose Colored Glasses in January at least that's what the talk was.

The headlining divas of Unplugged Contemporary were now taking stage and crammed in with drummer Al Turkovich and Steve Reese accompanying them. The lovely ladies played songs that they have been working on and hope to have their CD released sometime in January. The powerful voice of PJ and Sherry have a ve distinguishing harmony when singing together. PJ is a die hard expressionist similar to that of Tina Turner...she laughs when I say that. Sherry is a timid balladeer that calms the room and lays the ambiance to a tranquil environment.

Songs like "Polly" and "Stay" are some of my favorites after listening to the girls practice as well as performing. "Stay" is a song that Sherry says about how she moved to Rolla, and meets all these people and when she finally gets comfortably around the and gets tight, they move away." It's slow sad song, but man...it made me sniffle a bit. "Polly" is an upbeat song with harmonies to boot. The over night was a great evening of entertainment and will happen again. Next time you see them listed in the Concert Calendar, check them out.—Jimbo

### CD Releases:

Celine Dion - The Reason 11/18  
Metallica - Re-Load 11/18  
Rage Against the Machine - Self-titled 11/25  
Baby Face - MTV Unplugged 11/25  
Tupac - Are You Still Down, Remember Me 11/25  
Method Man - Tical 2: Judgement Day 12/09

**St. Pat's.** As always, the best way to involved is to get your '98 Green and wear it around campus. The best time to wear your Green is on Fridays because they are the St. Pat's Green Daze. Now is the time to get fired up about St. Pat's. The Green is out, the Committee will be taking new members soon, and the 9th Annual Best Ever 1998 is only 1 Daze away!

## St. Pat's

from page 6

Daniel McCulley, the St. Pat's Publicity Chairman, at 341-8984 or mcculley@umr.edu.

Even if you aren't interested in joining the St. Pat's Committee, you can still have fun at all of the festivities of

**LONG JOHN SILVER'S**

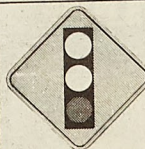
Accept - Visa - Master card - Discover

**Grab and Go Sandwiches \$99**

**Fish or Chicken**

10% Discount with Student ID

Not available on specials



**KEEP THE GREEN LIGHT SHINING**

Thanks to MDA research the future looks brighter than ever

**MDA**  
Muscular Dystrophy Association

**1-800-572-1717**



## Swimming

from page 9

in fourth with a time of 5:03.28.

"We didn't swim our strongest line-up at this meet," Mullin said. "We put most of the guys in one strong event. We are looking forward to the next few weekends to try to get some guys to qualify for nationals. The UALR [University Arkansas-Little Rock] Invitational is our big weekend in this semester. We've had it marked on our calendar since the beginning and it is the meet we are tapering toward."

Tapering involves the gradual lessening of practice time and degree of toughness of workouts in order to be rested and strong for a big meet.

"We have three meets that we taper for every year," Mullin said. "This year the three are going to be the UALR invite, regionals and nationals. However, some of the guys that qualify for nationals before regionals may not taper for regionals. You don't want guys to rest too many times."

In the final two events of the meet Drury decided to swim exhibition only which meant that they did not score in those events.

"It's kind of like not putting on a full-court press in basketball in the fourth quarter when you're up by thirty," Mullin remarked.

Sophomore Bruno Amizic touched the wall third but scored in first place in the 200 yard breaststroke finishing in 2:14.18. In the final event of the evening the Miner's 400 yard freestyle relay team of Beccue, Leftwich, Pearce, and Nurre finished second but scored first, finishing in 3:17.15.

This Friday and Saturday, Nov. 21 and 22 the Miners will travel to St. Peters, Mo. to compete in the St. Louis Invitational. The Miners will then be traveling to Little Rock, Arkansas on Dec. 5th and 6th to compete in the important UALR Invitational. Several Miners will be trying to qualify early for nationals in these two meets.

## Miners

from page 9

off season."

Anderson cited the games three scorers as having an outstanding offensive performance in the game.

"I think Jason Wagoner had a fine day. Ed Starks did an excellent job getting our first touchdown and getting us on the board. He made an outstanding play against SBU's defenders into the end zone. Brad Clark had a fine day of rushing the football, and really established the full back for us in the wishbone attack," Anderson said. "You've got to give a lot of credit to the offensive line for the blocking they did to spring those running backs."

He cited a few areas on which the Miners need to improve.

"I think, number one, we need to start with recruiting. We've got to bolster both our offensive and defensive line. I think that linebackers will be a priority for us as well. Of course, we will be looking at running backs as well."

Anderson believed that some members of his team performed particularly well this season.

"I think a lot of people played pretty well this season. Jason Wagoner had a very good season for being injured half of it. I would have liked to see him healthy the whole season. He was really healthy for about four of our 11 games. I think he had a really good year. I think Brad Clarke really came on the second half of the season, at the fullback spot for us when we went into the wishbone, and had several outstanding rushing games there. I think both our quarterbacks, Dave McCormack and Matt Breuckner, made some progress this year. Both of them led us to some key victories when we went to the wishbone offense," Anderson said. "Defensively, Brian Lewis probably played as consistently as anyone we had this year, at the defensive end position. Arnett Thomas had an outstanding year for us at the

cornerback position. He's an outstanding cover man. I think there were other people who made some progress throughout the year."

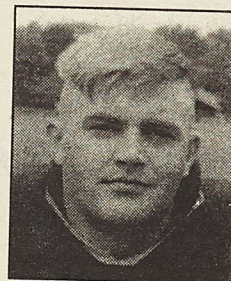
Risner made 10 out of 22 field goal attempts this season. Anderson believed that he performed well.

"Although he didn't tie the school record for field goals I think he had a really good season this year," Anderson said.

Anderson believes that the Miners could have been a more successful team this year.

"It was not nearly as good as I had hoped. I think that there were a couple of games that we were in that we had an opportunity to be successful in and didn't get the job done. I think that we could have very easily be 6-5. That's why you have to play every Saturday, to see who wins and see who loses," Anderson said.

## M-Club Athlete



Nathan Murphy

This week's M-Club athlete of the week is Nathan Murphy. Murphy won the award for his performance in the Miners game against SBU. He earned six tackles, five of which were unassisted. He had 2 1/2 sacks and 2 tackles for a loss of yardage.

of the week

## Miner Match-up



### UMR Miners at St. Louis University Invitational

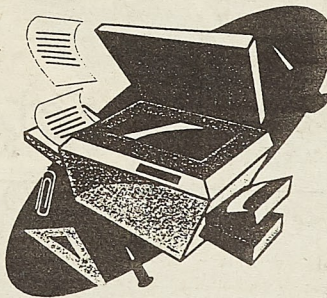


Site: St. Peters, Mo.  
Date: Friday and Saturday,  
Nov. 21st and 22nd, 1997  
Time: TBA

S w i m m e r s T o W a t c h

UMR: David Nurre (1st and 2nd place finishes), Steve Caruso (3 1st places), Eric Carter (1st and 2 4th places), Josh Jolly (1st and 2nd), Kris Leftwich (2nd and 3rd) and Tom Beccue (1st and 3rd places)

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connect candidates with job opportunities. Also at the bus, you'll learn the skills to help you put together a resume that stands out, interviewing skills that will get you the job, and you'll even get some tips that will help you use credit responsibly. So stop by the JobDrive. After all, it's been said 80% of success is just showing up.

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730 Olive Street Room  
St. Louis, MO 63101  
Attn: Mr. Bill Reardon  
Degree Level: B Min  
Majors: CHE ELE  
Grad Dates: 1297 079  
Citizenship:  
Position Available: En  
Position Location: St  
Deadline for submitting  
[www.lcledegas.com](http://www.lcledegas.com)

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of my life  
donation,  
in making  
his organs  
I tell people  
be afraid."  
about orga  
call 1-800



# Employment

## Full-Time

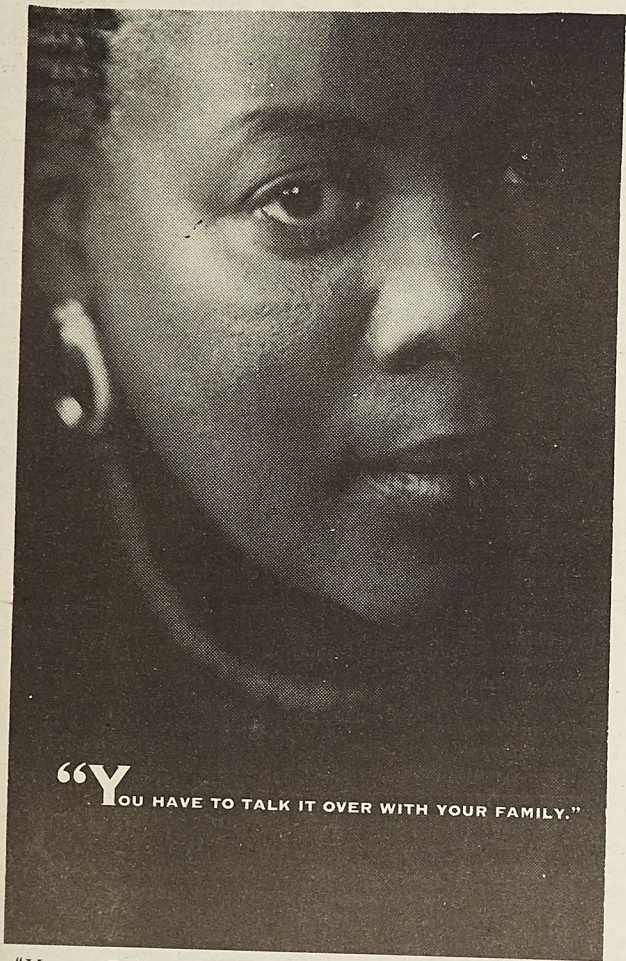
Laclede Gas Company  
720 Olive Street Room  
St. Louis, MO 63101  
Attn: Mr. Bill Reardon, Manager of Employment  
Degree Level: B Minimum GPA: 2.650  
Majors: CHE ELEC CIVL MECH  
Grad Dates: 1297 0798  
Citizenship:  
Position Available: Engineer  
Position Location: St. Louis, MO  
Deadline for submitting resumes: November 14  
www.lcledegas.com

Method: PRS-OPEN  
Interview Date: 11/25

PLEASE NOTE CHANGE OF INTERVIEW DATE

STAR MANUFACTURING INTERNATIONAL  
10 Sunen Drive  
St. Louis, MO 63143  
Attn: Mr. Doug Vogt, Director of Engineering  
Degree Level: B Minimum GPA: 2.750  
Majors: MECH  
Grad Dates: 1298  
Citizenship:  
Position Available: Product-Design Engineer  
Position Location: St. Louis, MO  
OPEN SIGN UP DATE: November 11 - 8:00 a.m.  
Information positions available in 301 Norwood Hall  
www.star-mfg.com

Method: OPEN  
Interview Date: 11/19



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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).



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

## 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 resources, 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 necessarily 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 Malhorta 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 freshman, 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

or 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.umr.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 of 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 on-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. or 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 stu-

dent 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), if 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 Management Association (AWMA) 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.

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.**

#### 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 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>.

## Guess what Johnny's bringing for Show and Tell today.



Every day, thousands of kids bring guns to school. Find out how to help get guns out of the hands of children. Call 1-800-WI-PREVENT for free information.

Not one more lost life. Not one more grieving family. Not one more.



# 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

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

7:30 pm: Adam Sandler sponsored by SUB, Multi-purpose Bldg.

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

## Thursday

9:00 am: Multicultural Education Support Program Coffee Talk, "Gettysburg Soldier Display", 107 Norwood Hall

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

1:30 pm: Academic Council, 204 McNutt

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, "Pattern Recognition in Wavelet Domain", 209 M-CS

3:30 pm: Student Council lawyer, Walnut Rm UCW

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

6:00 pm: Intercollegiate Knights, 204 McNutt

6:30 pm: American Nuclear Society, 227 Fulton Hall

6:30 pm: Student Assn. of Management Systems, 107 Harris Hall

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

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

8:00 pm: Solar Car Team, 103 Eman

## Friday

3:00 pm: Trap & Skeet Club, 107 Buehler

5:30 pm: UMR Lady Miner basketball vs. Coe College, Warrensburg, Mo.

7:00 pm: Show Me Anime, 204 McNutt

7:00 & 9:00 pm: SUB Fall Film *The Fifth Element*, 104 ME

8:00 pm: Campus Performing Arts Series presents "Yosemite", Leach Theatre Castleman Hall

## Saturday

2:00 pm: Chess Club, Gallery UCE

5:30 pm: UMR Lady Miner basketball vs. Ottawa University, Warrensburg, Mo.

7:00 & 9:00 pm: SUB Fall Film *The Fifth Element*, 104 ME

7:30 pm: UMR Miner basketball vs. St. Mary's University, San Antonio, Texas

8:30 pm: Contemporary folk singer Mackie Redd, Coffee Grind

## Sunday

10:00 am: UMR Newman Center Chicken and Dumpling Dinner and Silent Auction, St. Patrick's Catholic Church

10:00 am: Zeta Tau Alpha brownie day, Cafeteria UCE

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

2:00 pm: UMR 65-Member Fall Wind and Percussion Ensemble and the UMR University Symphony Orchestra, Leach Theatre Castleman Hall

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

11:00 am: Closing ceremony of Black Culture House, Black Culture House

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

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

3:30 pm: Christian Campus Fellowship, 106 Eman

continued on page 20

## HOW TO USE THE BATHROOM.

You're probably saying

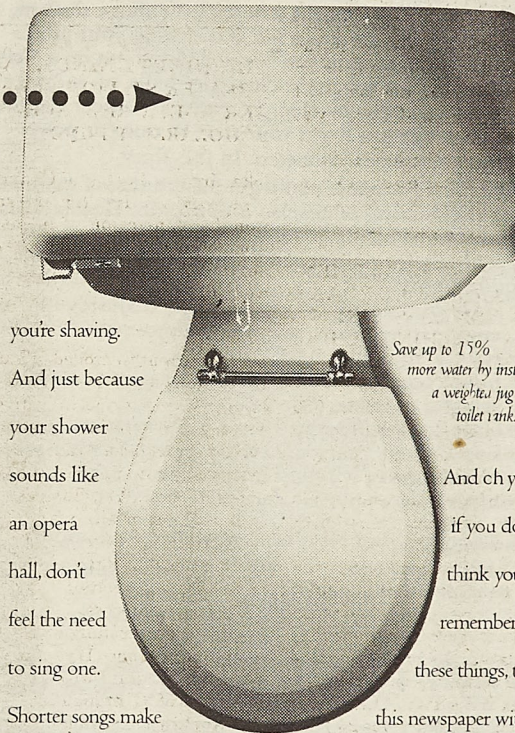
to yourself, any four-year-old knows how to use the bathroom. But you may not know that you use more water in the bathroom than anyplace else in your home. In fact, between the



You could end up using 30 to 60% less water by using a low-flow shower head.

toilet, the shower and the sink you can use up to 55 gallons a day. Multiply that by the number of homes in the world, and that's a lot of natural resources going down the drain.

Now, we're not saying you should stop taking showers or brushing your teeth. We're just suggesting some simple bathroom training. For instance, when you're brushing your teeth, turn off the water. Do the same when



you're shaving. And just because your shower sounds like an opera hall, don't feel the need to sing one. Shorter songs make

for shorter showers. And for the biggest culprit of them all, the toilet, try putting a weighted jug in the tank. It will help save water every time you flush. Plus, don't forget to turn out the lights when you leave. You'll be helping to conserve electricity.

Save up to 15% more water by installing a weighted jug in your toilet tank.

And oh yeah, if you don't think you'll remember these things, take this newspaper with

you the next time you go. This message brought to you by the 43 environmental charities that make up Earth Share. For more tips or information on how you can help, write Earth Share, 3400 International Drive NW, Suite 2K (AD2), Washington, D.C. 20008.





## from page 19

4:00 pm: Rugby team practice, Rugby fields

5:00 pm: IFC, 216 McNutt

7:00 pm: Alpha Phi Omega, 114 CE

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

7:00 pm: Bridge club, Miner Lounge UCE

7:00 pm: UMR Lady Miner basketball vs. William Woods University, Multi-Purpose Bldg.

7:35 pm: UMR Miner basketball vs. Rice University, Houston, Texas

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

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

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

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

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