



25 Oct 1989

## The Missouri Miner, October 25, 1989

Follow this and additional works at: [https://scholarsmine.mst.edu/missouri\\_miner](https://scholarsmine.mst.edu/missouri_miner)

These newspapers reflect the attitudes, perspectives, and beliefs of different times. Neither the library nor the university endorses the views expressed in these collections, some of which contain images and language which may be offensive to some readers.

---

### Recommended Citation

"The Missouri Miner, October 25, 1989" (1989). *The Missouri Miner Newspaper*. 2531.  
[https://scholarsmine.mst.edu/missouri\\_miner/2531](https://scholarsmine.mst.edu/missouri_miner/2531)

This Newspaper is brought to you for free and open access by Scholars' Mine. It has been accepted for inclusion in The Missouri Miner Newspaper by an authorized administrator of Scholars' Mine. This work is protected by U. S. Copyright Law. Unauthorized use including reproduction for redistribution requires the permission of the copyright holder. For more information, please contact [scholarsmine@mst.edu](mailto:scholarsmine@mst.edu).



# Missouri Miner

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

October 25, 1989

Volume 78, Number 10

Twenty-four pages



## UMR faculty chosen to develop aircraft composite

By David Martin  
Staff Writer

A group of UMR researchers has been selected to develop a composite material for the National Aerospace Plane (NASP). The NASP is designed to take off from a conventional runway and travel through space at several times the speed of sound.

The interdisciplinary group includes Lokesh Dharani, a UMR associate professor of mechanical and aerospace engineering and engineering mechanics and senior investigator in the Graduate Center for Materials Research; Dr. Robert Moore, UMR professor of ceramic engineering; Dr. Len Rahaman, UMR associate professor of ceramic engineering and research investigator in the Graduate Center for Materials Research; Dr. Delbert Day, director of the Graduate Center for Materials Research at UMR and Curators' Professor of ceramic engineering; and Dr. Vellore Gopalratnam, assistant professor of civil engineering at the University of Missouri-Columbia.

"The composite material we are developing is one of several candidates being considered for the primary structure of the aerospace plane," said Dharani. The material is required to be lightweight, resistant to skin temperature of more than 3,000 degrees Fahrenheit and must be strong enough to withstand the aerodynamic stresses it will encounter at super sonic speeds.

"Ceramics meet the requirements because they are lightweight and heat resistant, but they are brittle and a small crack or flaw can cause them to fracture," Dharani added. Fibers can be used to add strength to the ceramic materials. "The ceramics are reinforced with short fibers called 'whiskers' or with long, continuous fibers," stated Dharani. "The term ceramic-matrix composites, or, CMC, is used to describe this combination of materials and fibers."

"We are trying to make these materials tougher by adjusting the relationship between the fibers and the matrix, or surrounding material, that contains them," said Dr. Moore.

Dr. Dharani uses a mathematical model to determine the strength of certain materials. After the modeling is completed, Drs. Moore and Rahaman produce the selected material in the Refractories and Structural Ceramics Laboratory. Tests are then performed on the newly made material by Dr. Gopalratnam at UMC.

The NASP research at UMR is supported by NASA, the US Air Force, McDonnell Douglas, the University of Missouri's Weldon Spring Endowment Fund, UMR's Center for Advanced Technology and UMR's Eminence Program in Materials Engineering and Science.

## EE Building to expand

By David Martin  
Staff Writer

A St. Louis architectural firm, The Christner Partnership Inc., has been selected by the University of Missouri System Board of Curators to prepare plans for a 39,100 square foot addition to the Electrical Engineering Building.

The new addition will provide the electrical engineering department with auditorium facilities and office space for faculty and staff. Some faculty members are currently occupying offices in other buildings on campus. UMR's Media Based Pro-

grams will also be housed in the new wing, providing engineering courses to students across the state via the Very Small Aperture Terminal (VSAT).

The plan also involves some renovation of the existing building. The improvements include the installation of modernized heating and air-conditioning, window, and sprinkler systems. The interior of the building will be refurbished to provide a more efficient use of space and asbestos pipe insulation will also be removed.

The cost of this state and privately funded project is estimated at \$7,762,000.

## Music program receives gift

By David Martin  
Staff Writer

A contribution of \$25,000 has been made by the trustees of the Amy Shelton McNutt Charitable Trust to endow a fund for the music program at UMR. Income from the fund, which has been named the Scott-Morris Annual Award for Special Grants to the Music Program at UMR, will be used for the purchase of musical instruments, scores and sound equipment.

John W. Scott, a Rolla Businessman and former student of UMR, initiated the first official band program in 1926. Scott was the grandfather of

John M. Morris.

"The association of the Scott and Morris families with the university exemplifies the contributions of the citizens of Rolla to the growth and excellence of this university for more than a century," said Chancellor Martin C. Jischke.

Direction of the fund will be performed by a selection committee comprised of the UMR department chairman of the music program, two UMR faculty members in the music program, a trustee of the Amy Shelton McNutt Charitable Trust and Lenore J. Morris and John M. Morris Jr. of Rolla.

## Armstrong named Curators' Professor

By David Martin  
Staff Writer

Dr. Daniel W. Armstrong, professor of chemistry and head of the analytical chemistry division at UMR, has been named a Curators' Professor of chemistry by the University of Missouri System Board of Curators.

Dr. Marvin Barker, dean of the college of Arts and Sciences at UMR, said, "I am pleased that the Board of Curators has selected Dr. Armstrong for this high academic honor. By naming him a Curators' Professor, the Board has acknowledged his stature among his peers and the pharmaceutical community."

UMR Chancellor Martin Jischke said, "Dr. Armstrong's contribu-

tions in the field of bioanalytical chemistry have brought him international renown as well as recognition from the chemical industry."

"This distinct honor will further recognize Dr. Armstrong for his past accomplishments and bring added prestige to the UMR department of chemistry. It also will enhance his research efforts at UMR," Jischke added.

Dr. Armstrong has also received a Teaching Excellence Award from the Arts and Sciences Council of Texas Tech University in 1985 as well as a Faculty Excellence Award from UMR in 1988 and an Outstanding Teacher Award from UMR in 1989.

## Raven to speak in lecture series

By David Martin  
Staff Writer

The University of Missouri Sesquicentennial Distinguished Lecturer Series will present Dr. Peter H. Raven, Director of the Missouri Botanical Garden and member of the University of Missouri Board of Curators, at 7:00 p.m. Thursday, Oct. 26, in Centennial Hall of the University Center-East.

Dr. Raven, author of eight books and over 200 scientific papers, specializes in research concerning plant classification and distribution. Presently, he is Engelmann Professor of botany at Washington University as well as an adjunct professor of biology at the University of Missouri-St. Louis and St. Louis University.



Mogens Dalsgaard performs at Centennial Hall

Bill Booth



# Calendar of Events

## Wednesday

### PREREGISTRATION!

**Physics Colloquium**, 4p.m., "Rutherford Backscattering: Textbook Physics in Action," Dr. Knoessen, University of Western Cape, South Africa, in Physics 104. FREE!

**Chemistry Seminar**, 4:30p.m., "The garvan Medalists," Dr. Nina M. Roscher, The American University, in G-3 Schrenk. FREE!

**Wesley Meeting**, 6 p.m.

**Spelunkers Meeting**, 206 McNutt, 6 p.m.

**Blue Key Meeting**, 6:15p.m., in Ozark Room.

**Juggling Club Meeting**, 6:15p.m., in TJ South Lounge.

**Kappa Kappa Psi/Tau Beta Sigma Meeting**, 101 Old Cafe, 7 p.m.

**APO Meeting**, 7p.m., in G-5 H-SS.

**Hang Gliding Meeting**, 7p.m., in 210 McNutt Hall.

**Newman Mass**, 9p.m.

## Thursday

### PREREGISTRATION!

**EIT Exam**, 8a.m.-4p.m., in Centennial Hall and Miner Rec.

**Civil Engineering Seminar**, 12:30p.m., "Persils, Pitfalls, and Perks in Consulting," Robert G. Bening, president and chief executive officer, Metcalf and Eddy, in 114 CE> FREE!

**ME, AE, and Engineering Mechanics Seminar**, 3:30p.m., "Material Experimentation in Micro-Gravity," M. Makihara, Government/Industry Research Lab, Osaka, Japan, in room 210 ME. FREE!

**TNT, Thursday Night Together**, 6:30p.m., at the Baptist Student Union.

**UM Sesquicentennial Distinguished Lecture Series**, 7p.m., Dr. Peter Raven, UM Curator and director, Missouri Botanical Garden, St. Louis, in Centennial Hall, University Center-East. FREE!

**UMR Film Series**, "The Misfits," 7:30 p.m., Miles Auditorium, Mechanical Engineering Building. Admission by season ticket or \$3 at the door.

## Friday

### PREREGISTRATION!

**SWE High School Conference**, in University Center-East.

**UMR Women's Soccer**, 5p.m., versus University of Arkansas-Little Rock. UMR Soccer Complex. FREE!

**IVCF Meeting**, 7p.m., in 139 Chem.Eng.

**UMR Men's Soccer**, 7p.m., versus Southeast Missouri State University (SEMO). UMR Soccer Complex. FREE!

## Saturday

**CSA Language Study**, 9:30a.m., in Ozark Room.

**UMR Football**, versus Central Missouri State University (CMSU), 1:30 p.m., New Jackling Field. Admission charged.

**SUB Movie Series**: Matthew Broderick Double Feature, ME 104, 7 p.m.

**Chinese Student Association Movie Series**, G-3 Schrenk, 7:30 p.m.

**Alpha Chi Sigma Init.**, 7:30p.m., in G-3 ChE.

## Sunday

**UMR Women's Soccer**, versus Quincy College, 2 p.m., UMR Soccer Complex. Free.

**University Orchestra Children's Concert**, 2p.m., in Centennial Hall.

## Monday

**Civil Engineering Seminar**, 3:30p.m., on "Non-conforming Finite Elements of Plates and Shells," in Needles Room in CE Building. FREE!

**Chemistry Seminar**, G-3 Schrenk, 4:30 p.m.

**Student Activity Fee Board Meeting**, 4:30p.m., in Walnut Room.

**Independents Meeting**, Maramec, 6:30 p.m.

**Bible Study**, 6:30p.m., at the Baptist Student Union.

**NRHH Meeting**, 8p.m.

## Tuesday

**Test Anxiety**, 3:30p.m., in Ozark Room.

**Student Lawyer**, 3:30p.m., in Walnut Room.

**Vets Club Meeting**, 4:30p.m., in room 204, Building T-2 (which is behind library). We will discuss tab collection, membership drives, intramurals. Yearbook pictures will be taken. All

interested parties welcome.

**Campus Crusade**, 6:30p.m., in Maramec Room.

**AEG Meeting**, 7p.m., in 204 McNutt Hall.

**Math Help Session**, 7p.m., in room 203 M-CS.

## Next Wednesday

**Wesley Foundation Meeting**, 6p.m.

**Spelunkers Meeting**, 6p.m., in room 206 McNutt Hall.

**Juggling Club Meeting**, 6:15p.m., in TJ South Lounge.

**Alpha Chi Sigma Meeting**, 6:30p.m., in G-3 Schrenk.

**Kappa Kappa Psi/Tau Beta Sigma Meeting**, 101 Old Cafe, 7 p.m.

**Beta Chi Sigma Meeting**, 117 ME, 7 p.m.

**ASCE Meeting**, 7p.m., in 114 CE.

**ABS Meeting**, 7p.m., in 103 Eng. Mgt.

**Sport Parachute Meeting**, 7p.m., in 210 McNutt Hall.

**Met Society Meeting**, 7:30p.m., in 204 McNutt Hall.

**Newman Mass**, 9p.m.

## Noday

**Preregistration Details**, Preregistration for the 1990 Winter semester is open to currently enrolled students and former students who have been accepted for readmission to the university. Students should obtain their preregistration materials from the Registrar's office beginning October 19th. Registration material is to be returned to the Registrar's Office October 23 through October 27. Students should contact their departments for advising appointments and other preregistration details.

Detailed information regarding preregistration will be found in the Winter Schedule of Classes.

Students who preregister will be given an opportunity to pay fees prior to regular registration. THOSE STUDENTS WHO DO NOT PAY FEES EARLY MUST ATTEND REGULAR REGISTRATION. COURSE CARDS WILL NOT BE RESERVED. Signed Lauren A. Peterson, Associate Registrar.

**Cap and Gown Information**, Students receiving

masters and bachelors degrees may purchase their cap and gown at the UMR Bookstore anytime after Dec. 4. Masters and bachelors attire do not need to be ordered in advance. Cap and gown orders for faculty, staff and PhD students will have a deadline of Nov. 15 and may be picked up after Dec. 11. The UMR Bookstore will be open on Saturday Dec. 16 from 10 a.m. to 4:30 p.m.

**Crop walk monies continue to come in:** The CROP Committee reports that at present \$5774.59 has been received from walkers participating in the CROP Walk for the Hungry September 24. All monies are due by November 1 at which time the "Golden Sneaker" Award; given to the person who has turned in the most money, and the trophies to a fraternity or sorority who has turned in the most money will be award. Monies can be turned in at the Wesley House, 403 West 8th.

Your pledges do make a difference for the hungry of our world and community, so please contact your walkers if they have not contacted you.

## Financial Aid

**Harry S. Truman Scholarship:** University of Missouri-Rolla sophomore interested in a career in government service at the federal, state, or local level are invited to apply for a 1990 Harry S. Truman Scholarship.

Established by Congress in 1975, the Harry S. Truman Scholarship Foundation operates an ongoing educational scholarship program designed to provide opportunities for outstanding students in the United States with potential leadership ability to prepare for careers in government service. Since 1977 the Foundation has appointed 1,137 Scholars.

In April, 1990, the Foundation will award 92 Scholars nationally. The University of Missouri-Rolla can nominate three students for the 1990 competition. The scholarship award covers

eligible expenses up to \$7,000 per year for the junior year, the senior year, and two years of graduate study. To be eligible, a student must be a full-time sophomore working toward or planning to pursue a baccalaureate degree, have a B average, stand in the upper fourth of the class, and be a United States citizen or United States national heading toward a career in government.

Interested students should contact Donald B. Oster, Associate Professor of History, Department of History/Political Science, Room 124, Humanities-Social Sciences Building (Phone: 341-4817), before October 24, 1989, for final submission of nominees to the Truman Foundation has to be made before December 1, 1989.

**The Heavy Constructors Association of the Greater Kansas City Area Industry Advancement Scholarships** are specifically for persons who are planning and preparing for careers in construction. The amount of each scholarship is \$2,500.00 per year. Recipients shall be full-time students who demonstrate financial need. Applicants will be required to demonstrate their commitment to obtaining careers in construction. Recipients will be required to seek summer employment in construction. Deadline is April 15, 1990. For more information and applications, contact the Student Financial Aid Office, G-1 Parker Hall.

**The Society for the Advancement of Material and Process Engineering** wishes to announce their undergraduate scholarship awards for 1990. There will be a first and second place award - \$3,000 and \$1,500, respectively. In addition, there are twenty-five \$1,000 awards. The awards will be restricted to engineering students only, and a minimum of 3.3 cumulative grade point average based on 4.0. Those attaining college senior level by Feb. 1, 1990, are not eligible. For more information and applications, contact the Student Financial Aid Office, G-1 Parker Hall.

## Missouri Miner

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

All articles, features, photographs, and illustrations published are the property of the **Missouri Miner** and may not be reproduced or published without written permission.

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

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

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

Editor-in-Chief	Nikki Pagano 341-4312
Business Manager	Shelly Kaller 364-6463
Advertising Director	Terry Brackett 364-1137
Asst. Advertising Director	Leslie Viron 364-1433
Managing Editor	Larry Williams 364-8968
Circulation	Erich Elmer 364-8968
News Editor	Steve Pulaski 364-8968
Asst. News Editor	Steve Atkinson 364-7612
Features Editor	Amy Nash 364-7612
Asst. Features Editor	David Freeman 364-1433
Sports Editor	Jeffrey Esparrago 364-1433
Photo Editor	Dave Labies 364-5226
Copy Manager	Dan Gualtieri 341-8263

302 Rolla Building  
University of Missouri-Rolla  
Rolla, MO 65401-0249  
(314)341-4235





# NEWS ON EDUCATION

## Some Helpful Tips On Paying For College

The cost of college tuition continues to skyrocket. Some of the nation's top universities are charging more than \$85,000 for a four-year education. Landing financial aid is becoming more of a necessity than an option. Here are some simple tips on how to obtain money for a good education.

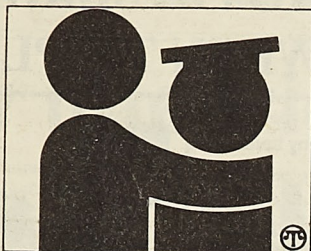
1. Contact your college financial aid office for a list of financial options. There are also credible companies, like College Financial Planning Service (CFPS), who provide lists of available grants, loans and scholarships for a small fee.

2. Analyze your financial situation honestly and apply for as many programs as you are eligible. Fill out the forms accurately.

3. After selecting a good financial aid package, negotiate improvements with your college financial advisor. Also thoroughly investigate alternative means for more support.

College Financial Planning Service has a data base of more than 180,000 listings of scholarships, fellowships, grants and loans. It offers information about donations from corporations, memorials, trusts, foundations, religious groups and other philanthropic organizations.

To enter the program, a student



Many opportunities for financial aid exist, but you have to be aware of how to get them.

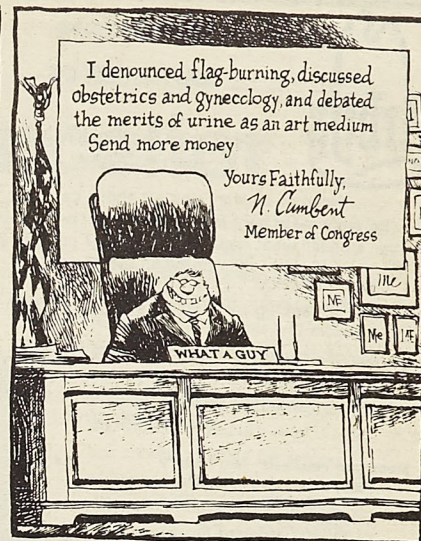
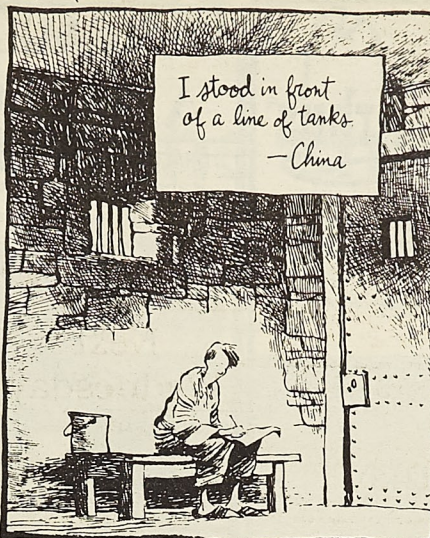
can call 1-800-346-6401 to request a "student data form." It must be completed and sent to CFPS with \$45 for the research fee. In about two weeks, the student will get a personalized computer print-out of financial aid resources that matches his or her background.

Many scholarships are based on academic interests, career plans, family heritage and place of residence. There are also many unique sources such as money for students who have been golf caddies or newspaper carriers.

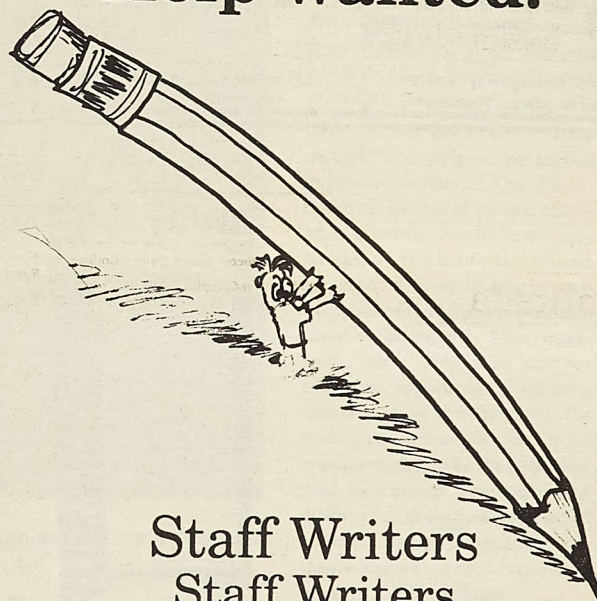
In the words of one financial aid expert, unique opportunities for monetary support do exist, you just have to be creative and resourceful in finding them.

MAXED Chicago Tribune

## What I Did Last Summer



## Help Wanted!



Staff Writers  
Staff Writers  
Staff Writers

Staff Writers  
Staff Writers

For information about wages and openings, attend the *Missouri Miner* staff meeting at 4:15 p.m. on Thursday, October 26th.



J. M. B. LIBRARY

MAXED Chicago Tribune

## WORKERS OF THE WORLD, NEVER MIND



# REACH FOR THE POWER. TEACH.

No other profession has this power. The power to wake up young minds. The power to wake up the world. Teachers have that power. Reach for it. Teach. For information call


1-800-45-TEACH.



Recruiting  
Young Teachers, Inc.


00 per year for  
and two years of  
a student must be a  
ward or planning  
ce, have a B aver-  
the class, and be a  
ed States national  
ernment.  
contact Donald B.  
istory, Department  
om 124, Humaniti-  
Phone: 341-48177,  
inal submission of  
ndation has to be  
2.  
association of the  
ndustry Advance-  
cally for persons  
ng for careers in  
ach scholarship is  
shall be full-time  
cial need. Appli-  
rate their commu-  
struction. Recipi-  
mer employment  
ml 15, 1990. For  
ions, contact the  
-1 Parker Hall.  
ent of Material  
hes to announce  
wards for 1990.  
nd place award  
ly. In addition,  
arts. The awards  
students only, and  
ade point average  
lege senior level  
For more infor-  
the Student Fi-  
Hall.  
iversity of  
ssouri and  
erty of the  
permission.  
nt to print  
must have a  
be withheld  
a Building  
reserves the  
length, and  
s expressed  
body.  
ddi Pagano  
341-4312  
helly Kaller  
341-6463  
y Brackett  
364-1137  
essie Verna  
y Williams  
364-1433  
rick Elmer  
364-8968  
eve Pajlak  
364-8968  
e Alderson  
Amy Nash  
364-7612  
Freeman  
Esparrago  
364-1433  
ave Libez  
364-5226  
n Gualtieri  
341-8263





**UMR STUDENTS**  
**HELPFUL HINT #3**

"Lean and Tender Roast Beef  
Can't Be Beat!"



Tired of memorizing all those calculus formulas?  
Do you really care what the derivative of 6,423,092.87 is?  
Ever wonder what happened to the 57 pencils you bought at the  
beginning of the semester?

Looking for a little simplicity in your life?

**Arby's has it!**

"Lean and Tender Roast Beef Can't Be Beat!"  
**PLAIN AND SIMPLE**

Bring your roommate--don't worry  
whose turn it is to do dishes!

Eat alone--enjoy the simple  
life!

**\$1.00 off**

when you buy  
2 Super Roast Beef Sandwiches,  
and 2 Soft Drinks

Not valid with any other offer or  
discount.  
Expires 11-30-89.

Bacon & Cheddar Deluxe,  
Regular Fries, and a 16 oz.  
Soft Drink

Only **\$2.71**

Not valid with any other offer or  
discount.  
Expires 11-30-89.

1005 Kingshighway, Rolla  
Sharon Young, Manager

Ft. Wood Spur, Waynesville  
Audrey Scott, Manager

## SUB FALL MOVIE SERIES PRESENTS A HALLOWEEN TRIPLE FEATURE

**DRACULA** Your favorite pain in the neck  
is about to bite your funny bone.



Sleep all day.  
Party all night.  
Never grow old.  
Never die.  
It's fun to be  
a vampire.

**THE  
LOST BOYS**

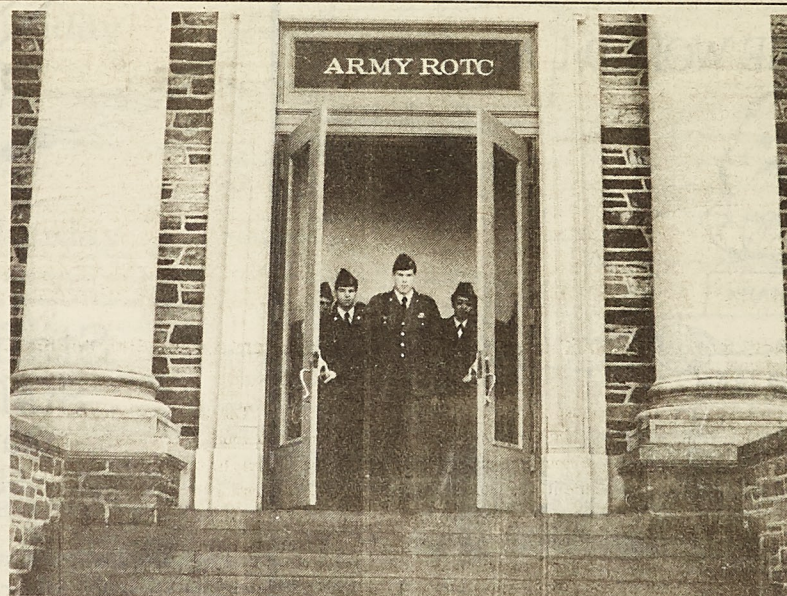
**PLUS Abbott and Costello ME 104**

**Friday and Saturday October 27 & 28**  
**Love at First Bite at 7 p.m., Lost Boys at 9 p.m.,**  
**and Abbott and Costello at 11 p.m.**

**ME 104**

**Free w/ID**

### RESERVE OFFICERS' TRAINING CORPS



## OPPORTUNITY KNOCKS ON THESE DOORS FIRST.

Why? Because Army ROTC helps you develop  
management and leadership skills. Builds your  
self-confidence. And makes you a desirable  
candidate in the job market.

There's no obligation until your junior year,  
but stick with it and you'll have what it takes to  
succeed—in college and in life.



**ARMY ROTC**

**THE SMARTEST COLLEGE  
COURSE YOU CAN TAKE.**

**Find out more. Contact Major Hoskins**  
**308 Harris Hall or call 341-4738 today.**



# Features

## The Miner interviews the chancellor

**Matt Licklider**  
Staff Writer

What do you foresee as being the greatest problem for engineers in the near future and the 21st Century? What message do you try to convey to students of UMR? What goal do you have for this campus in the next decade? These and similar questions were proposed to Chancellor Jischke in a recent interview.

Dr. Martin Jischke is a nationally recognized professional engineer and engineering educator. He has earned a bachelor's degree in physics from Illinois Institute of Technology, and master's and doctoral degrees in aerodynamics and astronautics at the Massachusetts Institute of Technology. He has served on and chaired numerous national, state, and professional committees. He has also been recognized in Who's Who in Engineering, Who's Who in America, and Outstanding Engineers of America. With qualifications like these, it seems he is well qualified to answer such taxing questions, ones that should be considered every student and faculty member on his campus.

The biggest problem facing engineers in the near and distant future will not be summarized as one problem.

There are actually four areas that will appear to be delimas in the future. First there is the problem of the pace of development in science and technology. Engineers must especially must stay on top of all technological advances. The problem is, though, that what may be the latest technology today may very well be considered passe in ten years. The second problem is that of demographics. The number of young people preparing for science and technology degrees is inadequate to meet the demands of industry, and, more importantly, the schools. The ability of engineering as a profession depends upon expanding the number of young people participating in these fields. This can be accomplished by increasing the num-

ber of non-traditional students, such as women and ethnic minorities. The third is a much broader problem. Since the Second World War, those countries which were conquered by

is becoming more complex. The constraints are inherently more complex; issues of environment and ethics are doubling the pace of change. Therefore the idea of education and practice

participatory process is an evolutionary one. He does have a vision, though. It is that "UMR would be a public technical university of national distinction."

keeps it clear in his mind what it is he's trying to accomplish.

The chancellor also has a message to the students here. It is his deep hope that all of the students will receive a first rate education by being challenged and nurtured. The student should grow academically and intellectually. The student should feel like there is someone concerned about his success. In addition to this, all activities that don't allow academic or intellectual growth, challenging and nurturing should be discouraged and abolished.

The final question deals with the general decline in enrollment at UMR and in engineering schools elsewhere. The problem here is here is twofold. First, fewer students are graduating from high school in the state and across the nation. Second, the fraction of students graduating choosing technical careers is also declining. There are a number of things that can be done to increase enrollment. One is to increase the fraction of students choosing engineering. Another is to simply broaden the pool from which students are drawn. This can be done by interesting women and ethnic minorities to study engineering. More importantly, these large scale solutions should be implemented. Attention should be called to the problem. The institutions need to work hard to recruit students. Finally, the institutions need to stimulate those stimulating others, such as high school teachers and counselors. By doing these things, there is a chance to see an enrollment increase in the near future.

These questions and answers are of great relevance to all students, faculty, and staff here at UMR. Such problems will be facing future engineers and administrators. Without an increase in the number of students studying engineering, the profession could experience a major crisis. So take into consideration these problems that will face you, the engineer.



Chancellor Jischke offers explanation to declining enrollment here at UMR and nationwide.

the United States have been rebuilding and are now competitive in the world market. This gives the United States as a whole a tremendous challenge, that is to sustain the competitiveness of the country economically and otherwise. As previously mentioned, this is due to a much more competitive world market in which the U.S. is no longer the predominant force overall. The last major issue facing the engineering profession is the fact that the practice

must change accordingly.

In explaining the goals for the campus, the chancellor wanted to be sure it was understood that the goals are constantly evolving as society changes. He also stated that they are determined by many individuals, including students, faculty, and staff, and all the way up to state, national, and worldwide participants, some direct, some indirect. The chancellor gives these goals direction, but the

The next question asked was: how do you stay in touch with the campus while being involved in national, congressional and state committees? The most obvious answer is hard work. In addition to that, he has appointed capable people to whom he can delegate with confidence. This excellent team allows him to be able to complete all necessary tasks. He also tries to keep his finger on the pulse. He has numerous channels of communication and

## World renown Covenant Players are to perform

**Matt Licklider**  
Staff Writer

Seeing a play performed by actors age out of you into a position where almost become a part of the plot. It is no longer an audience but a half filled with villagers, a ship with passengers, or a castle and a feast. These things cannot be rehearsed in a movie. That is why the Covenant Players, an international

repertory theater, are coming to campus on November 3.

With a repertoire of over 1500 plays, their performances are able to communicate a wide variety of themes, issues, and subject matter. Using numerous styles ranging from light comedy to serious drama, including science fiction and Biblical characterizations, the players present a message that all can relate to and

understand.

During their first visit to UMR, the players will utilize their unique style of drama in two separate settings. Throughout the day, between classes, they will be presenting brief skits in front of the library and at the hockey puck. Later that evening, there will be a command performance in Centennial Hall at 7:00 p.m.

Since their beginning in 1963,

Covenant Players have performed nearly one million times in 65 countries around the world, presenting their plays in twelve languages. There are currently 115 units traveling around the world. The team coming to our campus is composed of four young adults; three women and one man.

Local sponsors for this performance of the Covenant Players include United Ministries in Higher Education

at the Wesley Foundation, Christian Campus Ministries Association, Baptist Student Union, and Jefferson City / Rolla District of the United Methodist Church. All performance will be free to those attending. For more information, please call Campus Pastor Cleo Kottwitz at 364-1061.



# Campus Organizations

## Student elected chairman

Submitted by ASUM

The Associated Students of the University of Missouri (ASUM) Board of Directors met Sunday, October 8 at the University of Missouri-Columbia. Among other business, they elected a Chairman of the Board to serve the remainder of the term when an absence was created by the retirement of Torrance Credit.

Eugene Bae was elected Chairman, making him the first student from UMR to serve in that position. Eugene is a Junior in Electrical Engineering and holds several offices in Kappa Alpha Fraternity, UMR Honors Association, Phi Eta Sigma and Blue Key. He has held the office of President of both the International Student's Club and Gamma Alpha Delta. Other or-

ganizations in which he is a member include Tau Beta Pi, Kappa Mu Epsilon, Phi Kappa Phi, MSPE and IEEE. Eugene has been included in Who's Who, Outstanding College Students of America, and the National Dean's List.

In the same meeting, Karri Hall was approved as communications director on the Rolla campus. Karri is a junior in civil engineering. She is the daughter of Ray and Diana Hall, Bolivar, Mo. Karri is a member of the Rolla chapters of the American Society of Civil Engineers and Associated General Contractors as well as the Wesley Foundation. Karri is a transfer student from Southwest Missouri State University where she held several offices in the Student Government

Association, Honors Council and the College of Science and Mathematics

Student Advisory Council. She was also Commissioner of the SMSU Collegiate Lobbyists and the Academic Affairs Committee.

The University of Missouri-Columbia's legislative interns were also approved during the meeting. Five UMC students will intern in Jefferson City during the spring semester. In future meetings UMRC and UMR hope to present prospective interns to the Board. Anyone interested in the UMR intern position should come by the ASUM office 206 University Center-West, or call 341-4970 before October 27.

## Open House



OCTOBER 28, 1989

Submitted by  
Triangle Fraternity

The brothers of the Missouri Mines Chapter of Triangle Fraternity will be conducting an open house Saturday, October 28, from noon until 6 p.m. This service will allow the people of the campus and community to view the recently rebuilt four level structure, which has a long and varied history. The house was originally built in the 1880's and was modeled after a south-

ern hunting lodge. The distinctive rock that makes up most of the exterior portion of the building was taken from the remains of Fort Dette. The structure was continually upgraded and a fire destroyed most of it in January 1988. The reconstruction has taken almost two years to complete, and the brothers are proud to finally unveil the finished product. The open house will be formal and admission is free.

## SUB hosts triple feature nite

Submitted by SUB

Once again it is time for our favorite holiday, Halloween. To celebrate the event the Student Union Board will present a Sub-cinema Halloween Triple feature. That's right, triple feature, count 'em one, two, three. The 7p.m. feature will be *Love at First Bite* starring Suzan St. James, Artie Johnson and a cast of blood-thirsty crazies. The 9p.m. feature will be the *Lost Boys*. The 11p.m. feature will be a classic comedy/horror flick. Imagine the absolutely insane combination of Abbot & Costello with *Frankenstein*. That's right, we've got *Abbot & Costello meet Frankenstein*. The movies will be shown in ME 104 and are shown to all students of the UMR campus free of admission. Yeah, this includes all members of the students family. Yes, even your mother-in-law. The movies will be shown on Friday and Saturday nights.

If you have seen the movie "Mis-



issippi Burning" you got some idea of what the South was like during the mid 1960's. The movie gives the impression that the Federal Bureau of Investigation intervened on the side of the Civil Rights activists. Many say that

this portrayal is misleading and that in the sake of making a movie that would sell, the true role of the FBI was severely distorted by the producer. Robert Zellner was involved with the Civil Rights struggle in the south and will be on campus on November 2nd to discuss "How Mississippi Really Burned." Mr. Zellner will talk about the reality of the civil rights struggle and the true role that the FBI played during that time. Too much of the history of the battle for human rights in the 1960's has been forgotten by many of us born during the mid and late 1960's. So do not miss this interesting lecture in room 204 of McNitt Hall on November 2nd at 8p.m. No admission will be charged.

Remember folks if you have any suggestions, please let us know. We are located in room 217 of the University Center-West and our phone number is 341-4220.

## Haunted house open

Submitted by  
Newman Center

The Newman Center, Phi Kappa Theta, and Epsilon Phi Theta fraternities are sponsoring a haunted house which will be open from 7:00 to 10:30 p.m. on October 27th, 28th, 30th, and 31st. The haunted house will be held at Newman Center which is located across from the Electrical Engineering Building and St. Patrick Lane. Admission will be \$1.00 per person. The

proceeds from the haunted house will be given to the Cerebral Palsy Foundation, The Gingerbread House, and Covenant House. Come see the scariest haunted house in Rolla.



## Angel Flight schedules rape protection seminar

Submitted by  
Angel Flight

Afraid to walk home alone at night? Do you feel that there is someone lurking behind every shadow? If so, you need to be prepared to protect yourself from the boogie man.

Seriously, though, rape is nothing to joke about. Rape on college campuses is becoming more common. To protect yourself, you need to be aware of the threat and feel ready to defend yourself.

To help you, the female RA's at the Quad and Angel Flight are co-sponsor-



ing self-defense classes for anyone interested. The classes will be held in the Rayl Cafeteria at the Quad at 7:00 p.m. on October 30th, and November

1st and 6th. The first class will include an introductory session and general coverage of the topic. The second and third classes will go more in depth on the use of self-defense. Each class will last approximately 1 to 1-1/2 hours and will be instructed by Harvest and Shirley Collier. Dr. Collier is a professor in the Chemistry Department and is also a certified blackbelt instructor in Tae Kwon Do.

No one should be afraid to walk home at night. Be aware of the threat and protect yourself.



## Lions Club Clean

by Kevin Webb  
Staff Writer

This Friday, October 27th, the St. Pats Board will be joined by the IFC to complete a service project at Lions Club Park. This project will consist of cleaning the park free from any trash and various other odd jobs. Lions Club Park is the site for the annual Septemberfest and St. Pats celebration, which is both put on by the St. Pats Board. This is our way of saying "thanks" to the Lions Club and the Rolla community.

The parade theme for the 1990 St. Pats parade is the "Building of America." So get those ingenious minds working to come up with some great float ideas.

The 1990 St. Pats sweatpants will be on sale very soon at the hockey puck for only \$15.00. Many other items will be popping up in the near future so get psyched to see what the new designs will be. St. Pats 1990 is only 141 days away!!! THINK GREEN!!!



Cindy Patterson of KA falls for the disappearing coin trick.

## Research paper contest

Submitted by  
Sigma Xi

The local chapter of Sigma Xi, a national scientific honorary society, will be conducting a research paper competition. The competition is open to any undergraduate at UMR who has conducted a research project on his or her own, or under the supervision of a faculty member. Papers in any field of engineering or science, including so-

cial and computer sciences, are welcome. The deadline for submitting papers is Monday, March 26, 1990. Five copies of the paper should be submitted to Dr. Riordan, Department of Psychology, UMR. A letter accompanying the submission should include the student's full name, local address and phone number, and a brief description of contributions to the paper by co-authors or supervising

faculty. There will be four cash awards ranging from \$50 to \$175 made at the annual Sigma Xi banquet April 18, 1990.

Copies of papers from previous years can be reviewed in the Psychology Department Office during regular business hours. Questions concerning submissions can be directed to Dr. Riordan at 341-4812.

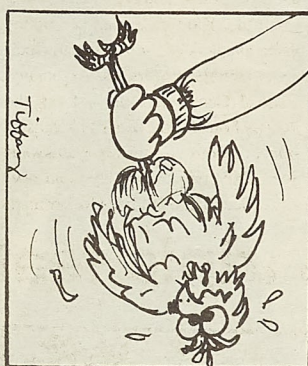
## 28th chicken benefit dinner

Submitted by Lambda Chi Alpha

On November 12, the Lambda Chi Alpha fraternity will be having its 28th annual Chicken Benefit Dinner. All proceeds from this event will be given to the Gingerbread House and Rolla's Cerebral Palsy Center.

The menu for the day will include chicken, green beans, potato salad, a dinner roll, ice cream, and coffee, tea, milk, or soda.

Tickets for the dinner went on sale for both campus and community on



October 21 and can be ordered through Lambda Chi Alpha or Key Sport. The tickets will be on sale through November 11. Members of the fraternity will also be going door-to-door during that time selling tickets. Ticket prices are \$3 in advance, \$3.50 at the door, and \$2.50 for children under 12.

Once again, the Chicken Benefit Dinner is Sunday, November 12. The doors at 1705 Pine Street will be open from 11 a.m. to 7 p.m. Carry out and delivery is also available.



## ROTC holds annual leaf rake

By Matt Licklider  
Staff Writer

Everyone enjoys the fall scenery as the leaves turn brilliant shades of gold, red, and orange, as the air turns cold and the wind becomes brisk. There is a downfall to all of this pleasantry. What happens next may cause one to

dread the coming winter as the temperatures drop and the yard is filled with leaves. This need not be a burden.

Air Force ROTC Cadets from UMR will be holding their annual leaf rake on November 4th and 19th. On these leaf rake days, cadets will rake leaves and do general yard work to

raise funds. These funds are used for cadet activities and projects. For more information about getting yard work done, call Norma Jane at 341-4925 before 4:00 p.m. or call Jenni Peterson or Brooke Sander at 364-6463 after 4:00 p.m.

## Orson Wells War of the Worlds is coming, courtesy of KMNR

Submitted by KUMR

It seems like an ordinary evening at home. But gradually something on the radio catches the attention of millions of listeners. Many of these listeners are seized with a sudden panic at the news they think they're hearing. The aliens have landed. Or have they? Is this really the news, or the put-on of a century?

This time, it's the 51st Anniversary production of Howard Koch's celebrated science-fiction drama, THE WAR OF THE WORLDS. This time it's happening in a cinematic production bringing the original tale to life in new times.

This entirely new production stars Jason Robards as Princeton astronomer Richard Pierson, originally portrayed by Orson Welles in the famous radio broadcast of 1938. Robards is



one of a handful to survive the initial Martian attack on Grovers Mill, New Jersey. Also joining the cast are two of National Public Radio's foremost personalities. Scott Simon, anchor of Saturday morning's WEEKEND EDI-

TION will play Carl Phillips, the first newscaster to see the Martian invaders. Terry Gross, host of the NPR daily interview show FRESH AIR, will play a local radio DJ. Media personality Steve Allen's familiar voice will an-

chor the TV network news broadcast in THE WAR OF THE WORLDS. Allen stays at his microphone until the last. Veteran newscaster Douglas Edwards provides informed commentary on the end of civilization.

KUMR 88.5 FM will broadcast this remake of radio's finest drama, along with 200 other public radio stations nationwide, on Monday, October 30 at 7 p.m. and Tuesday, October 31, Halloween eve, at 10 p.m.



# Tesla bring platinum success to Missouri

By Babu Barat  
Staff Writer

How would you like to be in a band that has toured with the likes of Alice Cooper, David Lee Roth, and Def Leppard after your first album was released. And that first album sold over a million copies worldwide. By the time your second album is released you are already set to hit the road headlining your own shows. Pretty amazing, huh?! Well, it's not commonplace in the rough and tumble world of rock 'n' roll. Making a successful record is tough to do alone, not even considering anything else. Rock star? What is that? Well the five members of the band Tesla can tell you about that. Eventhough they prefer not to be categorized as rock stars, Tesla have scratched and clawed their way to stardom. It was inevitable. Concievably, their destiny.

Tesla is in the process of wrapping up their year long U.S. tour co-headlining with Great White where they exposed themselves to thousands of new fans. Their second album, The Great Radio Controversy, has sold hundreds of thousands of copies and has been one of the hottest products on the rock shelves this year. No wonder considering that songs like "Heaven's Trail" and "Hang Tough" have done extremely well on MTV and hundreds of radio stations across the world. Their latest single and video for the balad "Love Song" has already been #1 on MTV and is getting well deserved ariplay locally as well as nationally. Love song is a tune that everyone can relate to. "There's a love

out there for everybody," said vocalist Jeff Keith. "Maybe it's not here now but you can find it. You can destroy your life looking for it but someone is out there for you. You'll know it when you find it," he adds. The video gives you a glimpse of the rough and tumble world of rock and roll, and the happiness had between you and those who do love you.

Tesla, the band, is based out of Sacramento, California. Their name evolved from the great Nikolai Tesla whose true story is narrated on the band's first release, Mechanical Resonance; and is followed up currently on The Great Radio Controversy. Tesla isn't one of those bands that wastes their lyrics on "hey baby this" and "in the back seat that." There is a true meaning behind all off Jeff Keith's lyrics. Whether it be emotional or not, each song has it's own special meaning. The albums, although revolving around the ideas of Nikolai Tesla have no definite concept directed towards the man. The band basically records what sounds the best and what they like which in itself is a good concept.

The rest of the band guitarists Frank Hannon and Tommy Skeoch,

bass player Brian Wheat, and drummer Troy Luccketta have a long and prosperous future ahead of them if their first two albums are any indication of what is to come. Seemingly, still not completely satisfied with their second release the band is happy to see that their fans have welcomed The Great Radio Controversy with open arms. "Their is always room for improvement," says Hannon. "We al-

about the current tour and album.

**Did Tesla use to be called City Kid?**  
It's not really the same band. A couple of us were in another band and we use to play the clubs. That was the name of our band.

**Who suggested the whole Tesla concept?**

Cliff Burnstien. He suggested it to us and we loved it. He didn't tell us we had to use it, he just told us about the

Well, we want to see how "Love Song" does. If it does really well we have been talking about doing a video for "The Way It Is" or maybe for "Be a Man."

**What is the story behind the song "Paradise?"**

As far as lyrics go, it is another song inspired by the road. About having to leave home. It's like when you go home for a couple of days you realize

**What is Mechanical Resonance?**

It was a theory that Nikolai Tesla Mechanical Resonance are res sound frequencies where he co into an object and break the co apart with those sound frequ He would hold seminars. As ample he would put an apple opposite side of a room and make it explode. He had a n that would apply mechanical



Courtesy Geffen Records

**Tesla: (l to r) Brian Wheat, Tommy Skeoch, Jeff Keith, Frank Hannon, and Troy Luccketta; currently have a top ten video on the MTV most requested list for their balad "Love Song" off of their latest album The Great Radio Controversy (Geffe**

ways try to stay away from the cliché rock band," he adds. And that they have, This badn ahs done it with no gimmicks which are all to common these days. Their music has been the driving force behind their success.

So, if your in the mood for some meaningful hard edged rock 'n' roll pick up a copy of The Great Radio Controversy. If not to totally satisfy your musical tastes, it will definately give you something to think about. I'm not saying that this is a thinking-man's band, but rather a reason that distinguishes this band from the others and puts them in the category of great rather than just avergae. Outstanding tracks include "Be A Man," "Love Song," and "Hang Tough." An album that does as much for the intellect as it does for the ear.

Frank Hannon recently took time out of his busy day to speak with me

guy and the whole story. We took if from there.

**The song "The Way It Is" has kind of a Peter Frampton-ish vibe. Was that intentional?**

Yes, definitely. I did it as a tribute to Peter Frampton.

**Was he a big influence on you?**

Yes, he was. "Little Suzi" off of the first album, and then "Love Song" on this album, have acoustic intros. Is that to be a Frank Hannon tradition?

No, I like to experiment with different styles of guitar. I like to create different moods and different atmospheres with the guitar instead of having the same overdriven tone, non-stop. The kind of stuff that so many bands sound like nowadays. I try to use the guitar as more of a creative instrument.

**What is planned as far as the next video is concerned?**

how wonderful it is at home and how much your wife and family love you and stand by you. Then you have to go back out into this road-hell.

**Does Jeff do all of the lyrics for the records?**

Yes he does most all his lyrics. One of us might come up with an idea and he will fool with it, but he mainly does lyrical stuff.

**You all have kept with the story of Nikolai Tesla on the first two albums. Do the songs all have an overriding concept or each its own meaning?**

No, not at all. They are just songs we wrote that we liked and that we thought were good. They all fit together in the way that Jeff writes lyrics. Sometimes they're negative in what he's talking about. Other times they are very positive. But they generally deal with what goes on in our lives.

nance in the air and explode the a He felt you could tune into any of even the earth. So we thought, that's pretty heavy. Sound w blowing things up! So we took it to our wing.

**Is the band going to continue ongoing Nikolai Tesla saga on next album?**

Not necessarily. I couldn't really you. We are not the type of band plans out our albums. We just them one by one and use things we which have a little thought to th We aren't too thought out. We things spontaneously.

**How did the recording of this all compare to that of Mechanical Resonance?**

The time that it took was exactly

see Tesla, page 18



# The flexibility of a one-sided relationship?

By Nora Okong'o  
Staff Writer

"So what happened?" Lance asked, eyeing Sarah suspiciously.

"I had a meeting with my lab group; it took longer than I thought it would. I'm sorry."

"Sarah, I've been waiting for almost an hour."

"I'm sorry. Anyway, since when did you get jittery about my being late? It's not like it's the first time."

"Exactly. I'm getting tired of waiting for you."

"Lance, we have a test the day after tomorrow, and we wanted to study together to help each other. I'm not paying tuition to fail my classes, you know."

"So who all is in your lab group?"

"Lance could we please talk about something else?"

"You want to order something?" Lance asked.

"Sure," Sarah replied, although order was not exactly the term she would use in a fast food restaurant. She walked up to the counter. Each register had a line before it four people long, so she jounced to the one at the end, since the girl fronting it seemed more efficient.

She stared at the head of the man in front of her. There was something familiar about the shape of his head. She realised why. That was, when he turned his head.

"Sarah!" he greeted her. "I was wondering who it was breathing down my neck."

"Hi, Bill, it's just me. How are things going?"

They had caught up on the latest in each other's life by the time it was Bill's turn to order. The man before him had finally received a sundae and a burger that matched his specifications, after what seemed like ages.

"What took you so long?" Lance demanded, as Sarah sat down.

Sarah looked at him in surprise. His irritability usually vanished pretty fast. And hadn't he seen her waiting in line?

"There were a lot of people, I had to wait."

"Had to? You seemed to be having a good time talking to that guy."

"What guy? You mean Bill?"

"Is that his name?"

"Lance! You used to complain how obnoxious he was when he lived next door to you. Don't tell me you didn't recognize him. Anyway, I was just being polite."

She ate her hamburger in a strained silence that was occasionally inter-

rupted by Lance's expressions or impatience. For once, Sarah was at a loss for words - nothing she said was alleviating Lance's bad mood. Spending time with him was usually relaxing, but of late...

"Why don't you talk to him about it?" Maggie suggested, as she and Sarah walked home from class the next day.

"He's impossible to talk to. I mean, he's paranoid. I'm just as late as I used to be, I think, but he's touchy. 'Where were you?' 'Who's that you were talking to?' He doesn't even recognize people that we both know. Worst of all, he doesn't want to tell me what is bothering him; or if it is something I've done."

"Maybe you could try giving him more of your time, you know, a little extra support. Obviously something is bothering him."

"You're right. I'll call him tonight."

"Calling him?"

"He's out of town - he went on a plant trip. He should be back on Monday. I guess I've kind of neglected him, especially with that report I've been working on. I'm beginning to wonder if I shouldn't choose a different topic."

"Don't be silly. You know that Dr. Andrews likes original topics. And it's not easy finding something that you can research in depth."

"Well, it's too late to change anyway. Are you going to the party tonight?"

"Yeah, sure. You want to go together?"

"Why not? I'll pick you up, say at eight."

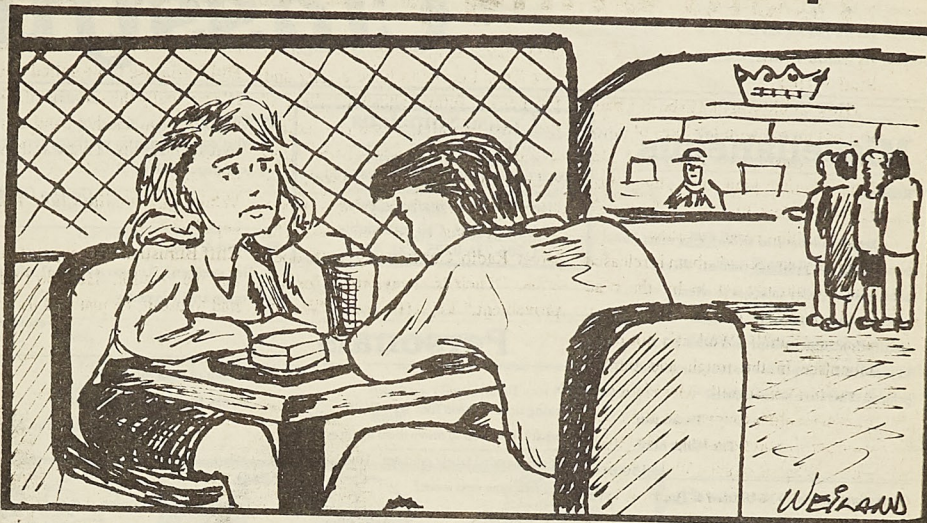
Sarah groaned in dismay as she woke the next morning. It was almost eleven o'clock - the day was practically over! She had been planning to call Lance, but it was now too late. No - wait a minute. California was three hours behind, so it would be about eight there. Maybe she could still catch Lance. He had left a number for emergencies, he had said, but this could, by a little stretch of the imagination, be considered such. The phone rang for a full half minute without an answer. She tried again.

"Ramada Inn - may I help you?"

answered the courteous desk clerk.

"Yes, I'd like to speak to Lance Gereau - is he in?"

"Hold a minute." There was a long pause, brightened by genuine on-hold music and then, "I'm sorry, we don't have any Lance Gereau on our guest list."



"Any, Mr. Gereau?"

"No."

"He's a guest of Zenith Computer Systems and he told me that he would be staying at your hotel."

"I'm sorry ma'am, that company isn't one of our corporate clients."

"Thanks, Goodbye."

That was strange. Maybe she could call the company and find out if they had seen any sign of Lance. All she

could get for her trouble, it seemed, was a twenty dollar phone bill. The company had never heard of Lance Gereau, let alone offered him a position. So, where was Lance?

"Have you tried everywhere?" Maggie suggested.

She's always full of suggestions, Sarah mused, most of them redundant.

"As far as his parents know, he's in California. So that's what everyone

else thinks too."

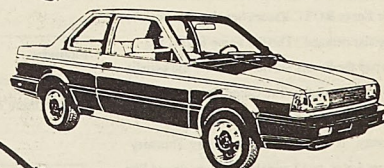
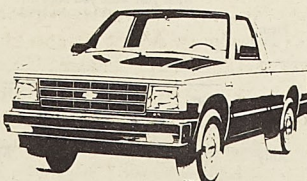
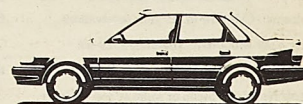
"You think he's lying about the plant trip?"

"It seemed like it - but why would he do something like that?" More importantly, where is he now? I guess I'll just wait until he shows up on

Monday and ask him about it then."

## You don't need rich parents to get a car for graduation.

### GEORGE WALSH



CAR WASH  
*Walsh & Matic*  
CAR SALON

THE Heart  
of Missouri  
TRUCK CENTER  
1 800 BUY TRUX

**Budget**  
RENT A CAR

100 Fairground Road • Rolla, Missouri • 314-364-1002



# Classifieds

## Miscellaneous

Readers,

Classifieds submitted to the Miner must be of decent and printable content. Please adhere to this policy so as not to offend those who may read them. Also all classifieds must be printed on a full 8-1/2 X 11 inch sheet of paper or else they cannot be printed. There are no exceptions!

Thank you  
The Miner Staff

**Correction:** In the 10-18-89 issue of The Miner the phone number to call if you are interested in Amnesty International at Rolla is 364-9932 and ask for Jim Kaiser in Room 228. The number that was printed was incorrect.

**Free Bible Study via Correspondence:**  
Lessons available in both English & Spanish. Please write to World Bible School, Rt.2 Box 626, Rolla, MO 65401.

**For Sale:** A King Size Waterbed mattress. Call 341-2689.

**For Sale:** Mustang 1977, 302 Automatic, no rust, new paint, loaded, 71000 miles. Make Offer, 364-6294, Kris M.

**For Sale:** HP 28-S, \$150, BRAND NEW, 341-8397, ask for Kevin.

**Any Faculty/Staff member** interested in Advisor position of the Hang Gliding Club please contact Steve at 364-2082.

**Collegiate Ski Trip** at Steamboat Springs: Luxury Accommodations with individual Hot-Tubs at the new Timberlun Resort; 6 nights, 7 days of partying; mountain BBQs everyone welcome! Call now to get your reservations. Only \$249 w/out transportation, \$329 w/ transportation. Great X-mas gift. Come by Sigma Nu or call Steve or Mike at 364-7396 or Ken 364-7079. \*\*Info meeting wed. Nov. 1st, 7 pm, Lakeview Apt. #5. Come & watch '89 Steamboat video. Refreshments provided!

**Air Force ROTC Escort Service**, It's back by popular demand. The Air Force ROTC has started the Escort Service again for the benefit of UMR students. The Escort Service will be run from the desk in the main lobby of the library. It will be available Sunday-Thursdays from 8 p.m. to 12 midnight. If you would like an escort to your car, residence or anywhere on campus feel free to ask at the front desk for one.

**RESEARCH PAPERS**  
19,278 to choose from — all subjects  
Order Catalog Today with Visa/MC or COD  
Toll Free **800-351-0222**  
in Calif. (213) 477-8226  
Or, rush \$2.00 to: **Research Assistance**  
11322 Idaho Ave. #206-SN, Los Angeles, CA 90025  
Custom research also available—all levels

## Cruise Ship Jobs

HIRING Men - Women, Summer/Year Round. PHOTOGRAPHERS, TOUR GUIDES, RECREATION PERSONNEL. Excellent pay plus FREE travel. Caribbean, Hawaii, Bahamas, South Pacific, Mexico.  
**CALL NOW!** Call refundable.  
1-206-736-0775, Ext. 483J

## Personals

**Jamie,**  
Getting tired of those files yet? Well, guess what? We need to move them again and also put color-coded labels on them. Do you have any free time next week?

Just Kidding

**Schonda and Stacey,**  
Sorry about cracker spitting, it was an accident.

What time do you Shower?  
P.S. Thanks for the R-crispie treats.

**Big Hair Flunkie,**  
Symmetry is the key. (Hairspray helps!)  
The Big Hair Girl

**Dorie,**  
Hope your birthday celebration went great!!

YNN

**Anthony,**  
You're a great little brother. Let's get together Oct. 28th and party til dawn. You can babysit me.

YBS,  
Amy

**Ding,**  
Get psyched for Pi formal! Party!

-yls

**Clueless loser,**  
Our house motto: "Use me, abuse me, throw me away - then call me again!"  
Your Roomie

**Deanna,**  
I think that means one more beer!!

Flem

**Flounder,**  
Did you enjoy meeting the family? Did I tell you there's more?

Amy

**Stacy-**  
My electricity went out, could you stop by so I have light to study by?

-CHBFH

**Movie Line,**  
"This is crazy, this is crazy, this is crazy!" is what Chevy Chase said before jumping into the pool in the movie: National Lampoon's Vacation. Here's one for you: "Pretty peppy party isn't it pal?"

Trivial

Get over Girl #1,

What does that sign on your back say, "If you get dumped call me"??

Get over Girl #2

Stephanie & Lisa,

Hey strangers! Are you still alive? Maybe I can make a visit someday.

Weenie fan

To the men of Beta Sigma Psi,

Thanks for the great bar night!!

The ladies of Zeta Tau Alpha

Mindy,

I never see you anymore. Let's get together and party.

YBS

Supersonic,

Did you enjoy meeting the alumni Sunday morning?

Exponential

To the men of Beta Sigma Psi,

Thanks for the invitation Wednesday (nite-caps).

Schond & Stacy

Fooches,

Heard any good stories lately?

Boochart

Jeanius,

We'll just have to win the Spades tourney at Newman.

Dibbles

Bob C.,

Have you found a partner for cards yet? That's what happens when Forbes starts blowing his big mouth saying how bad you are. Really, I think the Forbes' just have a system or some kind of signals.

Hacker

Couch,

It's just a game.

Crip

Renee,

Are you sure you didn't skip a grade then you could be 18!!

**The Daily Routine takes your soul** lost

without a trace. It holds you down and turns you 'round and puts you in your place. Another door, another down, another pretty face, another chance to lose yourself in the inner space...

Hold On

Turner,

I think your alarm is still going off!

The Roomies

Beth,

You're the best little sister ever! I think we need to shed the old "Balls and Chain" and go out soon!

ZLAM,

Jami

**Dear Supersonic's I.S.,**

Classifieds are free-thanks for the dollar.  
Miner Staff

Clara,

You light up my life-you Really light up my life. Tum if OFF or down!

Stacy

Ruff,

Thanks for braving Skip & risking those lovely legs.

Exhausted Travelor

Bruce-

Of course we're going to get 4.0's so lets bird the study halls and go get ??

YBS,

Jami

KC,

Hope you are feeling better. We will have a great time at Sigma Pi's formal.

Supersonic

S,

Congrats on winning the b.h. contest! I am impressed! I'll try for the s.h. title! WOW.

S

see Classifieds, page 11



Stacy Pro-tem-

Sorry for all the teasing about your birthday incident-can I buy you dinner?  
-interim Big Sis

Renee,

What year were you born in??

ZLAM,  
YBS

Ruff,

Foxes must get cold too ..

Knitting Bee

All Greeks,

You might as well have some fun and get crazy. Whether we do something wrong or not we get blamed for it! Right Joe W.? Just ask Mizzou.

A fellow Greek criminal

Kory, Matt & Jeff,

Denny's was a lot of fun! Next time renee might remember her age!

Flem

Ronald T.,

Happy Birthday! Surprised I remembered?

Kory,

Do you have any peanuts??

Kris and Renee

Hey Supersonic,

If you won't tell your big sis the pledge class secret why don't you tell your little one? Even if you won't tell me, you're still the greatest.

Love in KD,  
YLS

Lenny,

It's a personal thing!

The Zetas

Mike & Paul,

You thought Big hair was impressive, just wait till you experience shark hair.

S & S



# Classifieds

from page 10

**Michelle,**  
Don't worry about "men" you've got us!  
Your Roomies,  
Jami & Noe

**Joyce L,**  
I've been watching you since you stepped  
on yard. Get your nose out of the air, leave  
those little boys alone and notice me.  
Signed: Your Fantasy Man

**Jenius,**  
Thanks for taking care of my animals.  
Dibbles

**Rhonda C-**  
Lets motivate!  
ZLAM,  
James

**According to society,**  
if it weren't for them evil fraternities we  
wouldn't have crime in our nation. I say prove  
it!  
-Scapegoat  
P.S. Uh-oh Looks like trouble ... It's them  
fraternity boys!

**Zeta Pledges are the coolest!**

**Woody,**  
Get psyched for Sigma Pi's formal! Did  
you enjoy meeting the family? They thought  
your hair was a little too long. Better get it  
shaved next time, I guess that will be taken  
care of this summer.  
Supersonic

**CHBFH-**  
I turned it off, but you most likely  
couldn't tell-yours is always glowing!  
UBFH

**Jeff,**  
I had a wonderful time at formal. Actually  
.. I have a great time whenever I'm with you ..  
You're a sweetheart (The secret is out).

**Suzanne,**  
I bet you'll see even more of me now that  
I've left.  
LiCO,  
YBS

**Amy-**  
Did you say L.G.D.N.? I'm game! You  
bring the strawberry, I'll bring the hill.  
Zeta love,  
James

**To the Get over Girl,**  
What does that sign on your back say? "If  
you get dumped -Call me!"  
Get over Girl No. 2

**Kelly,**  
What a great big bro! Did you have fun  
walking Danne home from the uptown. Save  
me a dance at Sigma Pi's formal, you dance so  
much better than Woody!  
Your little sis

**Clara,**  
Wine coolers & ding dongs - at your  
disposal-anytime. Wish I would have won.  
Stacy

**Jelf,**  
Was that too mushy? Too sentimental?

**Nantz,**  
You were/are a great roommate. Don't  
worry we can still write some awesome  
chapters and have latenight chats -in person  
and on the phone!

LICO,  
Your ex-roomie.  
P.S. Remember, I think we should study at  
4:30.

**Special thanks to-**  
Yvonne and Dawn for helping us win first  
place in sororities in intramural swimming.  
In AOT,  
KD ladies

**Mirror,**  
At least clarify which Ray you are  
referring to or identify yourself.  
FHF

**Rhonda B-**  
Is it birded or bagged?  
ZLAM,  
Jami

**Renne,**  
Maybe you're 14 or 15 and just skipped a  
couple grades!!  
YBS

**Ebb & Ray,**  
Thanks for the memories and great stories,  
they went to a very good cause.  
Love in chili,  
#70

**Lori,**  
Have you seen our roommate lately??  
Kris

**Supersonic,**  
I may not live there but I pay my house  
bills.  
Goldie

**Way to go LaChelle-**  
Kappa Delta's newest Blue Ribbon Club  
member. Thanks for all your hard work on  
Rush!

**My school it has a first name,**  
it's U-ni-ver-sity. It also has a last name  
it's R-O-L-L-A. I go to school here every day  
and if you ask me why I'll say 'cause U-M-  
Rolla has a way of making my life hell each  
day!

**Pete,**  
We love flagpoling with you!  
Susan and Cindy

**D.K.D.S.L.**  
Only 70 days left!  
Flem

**Social, KC and Champagne,**  
Get psyched for Sigma Pi's formal, yes  
Social the "loser" did ask me (I had to hint a  
lot though).  
Supersonic

**Wendy Sue,**  
Thank you for being the greatest roomie in  
the world! You are absolutely wonderful!  
Love in AOT,  
Nina Sue

**Dear Geek,**  
I love you and the obnoxious buggy too!  
Love,  
Four-eyes

**Barb,**  
You're such a cool grandma!  
ZLAM,  
Susan

**Freeman,**  
You promised me roses!  
Heartbroken

**Deanna,**  
Let's cook again sometime!! Next time  
we won't make any mistakes!  
Flem

**Curious,**  
Yes I have considered calling or writing a  
letter, but personals are free and I am a  
starving college student.

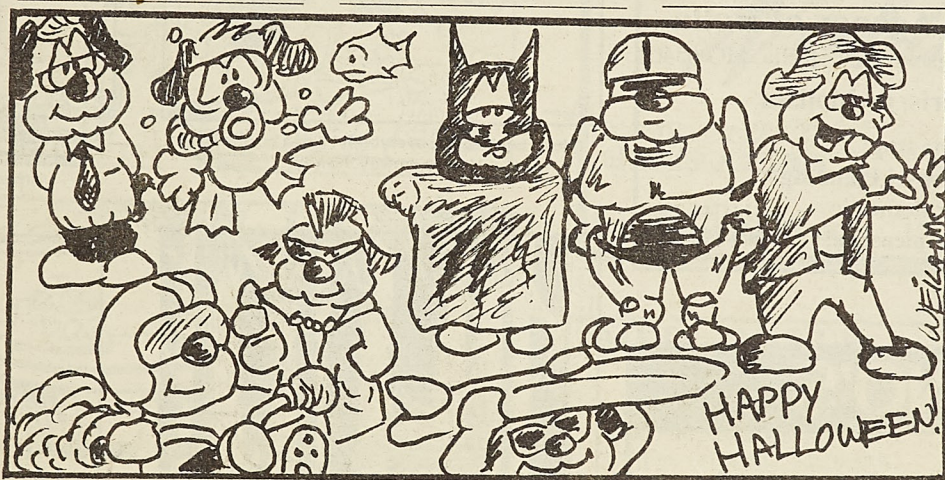
**Tim,**  
Thanks for being my big brother!  
Love your little sis,  
Cindy

**Bob of the month,**  
I feel honored to know you, but don't  
quote me on it!  
Respectfully,  
a concerned crew member

**Querido Cristobal,**  
Gracias para noche de martes.

**To all the brothers of UMR-**  
Why is it that you worry about whether or  
not we speak to you. It shouldn't matter to  
you. We are not here to comfort and satisfy  
you; we are here for the same reason you are:  
To get a degree!! In conclusion - leave us  
ALONE!  
Stuck Up Crew

see Classifieds, page 16



**Dawn, Matt & Adam,**  
Almost time for the AE midterm ritual.  
Are you ready?

**Dean-**  
Are you going to teach me! Get psyched  
about steamboat.  
Love-  
Jami Lee

**Dave,**  
Congrats on the plant trips. No more little  
slips of paper with fuzz on them! Keep up the  
good work in 343.  
Hacker

**Hey Stock!**  
Why don't you go play in a food  
processor?  
YSNA

**Zetas-**  
Great job on SACH! The "A" and "B"  
board is lookin' awes!  
SACH Chairwoman  
Jami

**Social,**  
How about that APO tea? Was that water  
you were drinking?  
Goldie

**Champagne,**  
You're doing an awesome job at rush!  
Keep up the good work.  
Goldie

**S**  
Maybe you should try a microwave  
instead. They ten to expand things and from  
what I hear - you need all the "Expansion"  
help you can get!  
YSNA

**Segur & Gregg,**  
Thanks again for the move. I owe 'ya one.  
Love,  
Hoots

**Spit,**  
How are you doing?  
Flem

**Jeffy,**  
Tell me the truth. Did you do it to Lu-Lu?  
I think it was Gene but why did he just tear up  
her paw? Anyway, I think we should disable  
their tongues next. Maybe feed them  
Smidgets...Nnnnaaa!  
KTC,  
Roomie

**Kim,**  
You're an awesome big sis!  
ZLAM,  
Susan

**Travis,**  
I want U 2 know that U R 4ever N my  
heart. Nothing said R done will ever come  
between us. Don't let foolish words turn U  
away. I love and miss U much.  
-Me

**Question?**  
Is this the Zeta classifieds or what?  
Curious  
P.S. Yeah, I know. The answer is what - ha ha.

**Tim,**  
Thanks for being my big brother!  
Love your little sis,  
Cindy

**Bob of the month,**  
I feel honored to know you, but don't  
quote me on it!  
Respectfully,  
a concerned crew member

**Doriesaurus,**  
You're getting pretty old!!  
SFL

**KC,**  
You're a great friend & I hope you get  
well soon.  
Goldie

**Hot men at Lambda Chi**



SPI AH Games D&D Supplies  
**ROLLA CRAFT & HOBBY**  
 1009 Pine Rolla, MO 65401 364-5581

**TEST ANXIETY PRESENTATION**  
 Tuesday, October 31  
 3:30-4:30 pm; Ozark Room, UCW  
 Facilitator: Dr. Gene Van Matre

**International Tours**  
**Travel Agency of Rolla**  
 1023 Kingshighway Rolla, MO 65401  
 Call Rick, Chris, or Melissa  
 MON-FRI Your one stop!  
 8 AM - 6 PM For complete travel Planning  
 SAT Foreign or domestic (314)341-3300  
 10 AM - 4 PM Business or pleasure! 1-800-876-3331

**BRUNO'S**  
 Banquet Facilities Available  
 Wednesday Night - Student Night  
 9:30 - 1:00  
 341-2110 2001 Forum Drive

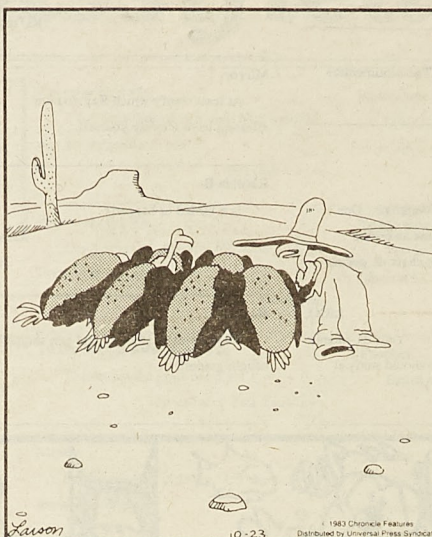
**SKI COLORADO**  
 S-L-E-E-P TO THE SLOPES ON OUR SLEEPER BUSES  
 OUR SKI BROCHURE IS READY WITH OVER 200 TRIPS  
 Group Leaders Shop the Town — then let us quote you a package. You'll be glad you did  
 KEYSTONE, COPPER, WINTER PARK, STEAMBOAT & VAIL  
 THANKSGIVING — Nov. 23-27 — 3 SKI DAYS  
 Starting at \$186.00 — 7 Trips to Choose From  
 THANKSGIVING — Nov. 22-27 — 4 SKI DAYS  
 Starting at \$221.00 — 7 Trips to Choose From  
 CHRISTMAS HOLIDAYS — 14 Trips to Choose From  
 ALL TOURS INCLUDE SLEEPER BUS, LODGING AND LIFT TICKET EACH DAY  
 LESSONS AVAILABLE. SINGLE, DOUBLE & TRIPLE RATES AVAILABLE  
**WEEKENDER SPECIAL: 2 Ski Days**  
 STARTS NOV. 3, AS LOW AS \$124.00 Per Person  
 Departs Friday 6:00 P.M. Returns Monday 6:00 A.M.  
**Driving Out???** Discount Lift Tickets and Lodging Available in Our Office  

LIFT TICKETS	EARLY SEASON	REGULAR SEASON	SKI AREA
Keystone	\$19.00	\$22.00	\$32.00
Copper	20.00	23.00	32.00
Winter Park	19.00	22.00	30.00
Steamboat	26.00	28.00	34.00

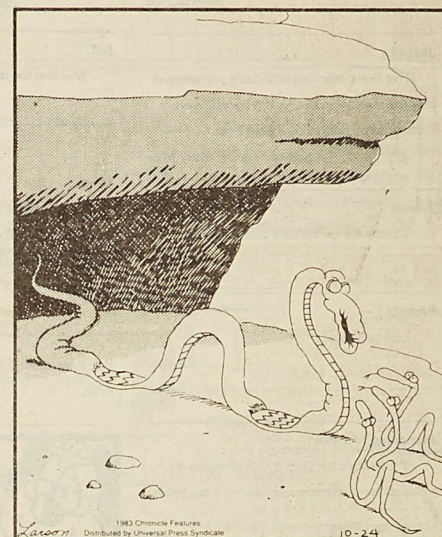
**Overland Adventures**  
 8360 NW Barrybrooke, K.C., MO 64151  
**741-8822**  
 1-800-333-8850

**THE FAR FAR SIDE SIDE SIDE**

By GARY LARSON



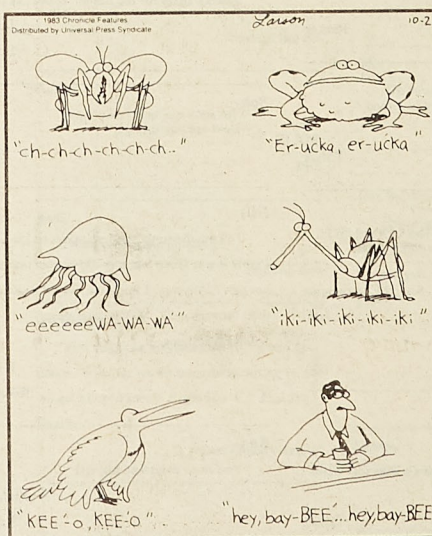
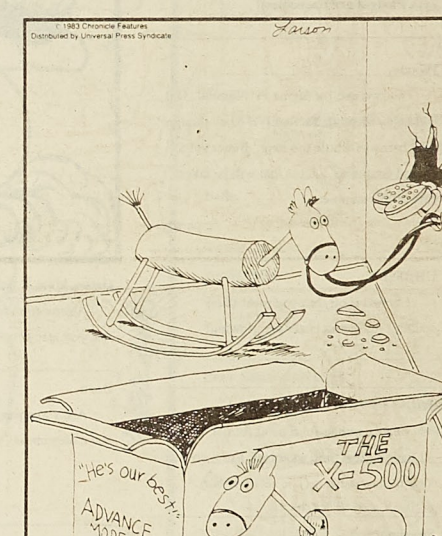
"Hey! Look at me, everybody! I'm a cowboy! ... Howdy, howdy, howdy!"



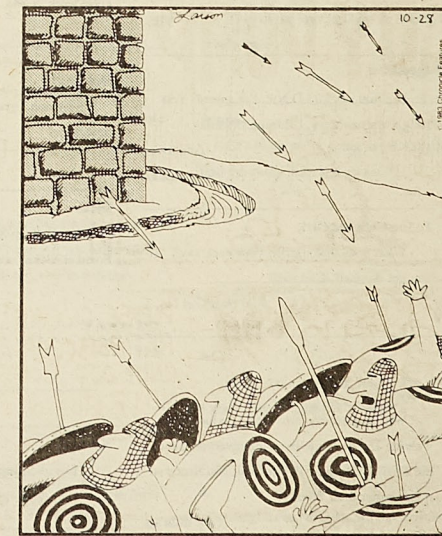
"Again? Oh, all right ... One warm, summer evening many years ago, I was basking on a stretch of Interstate 95 not far from here ..."



Carl shoves Roger, Roger shoves Carl, and tempers rise.

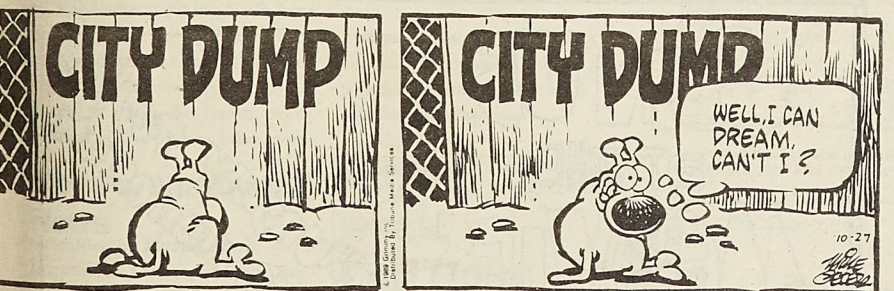
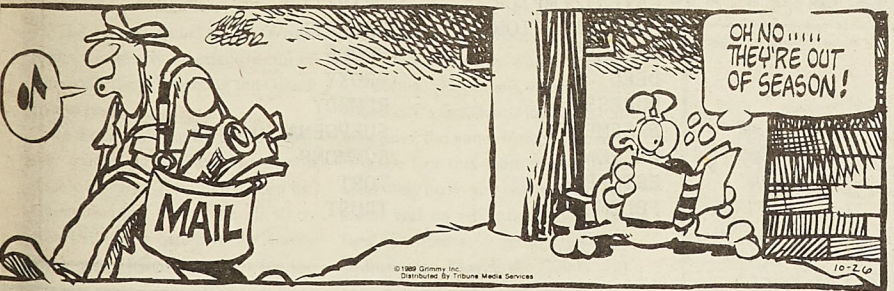
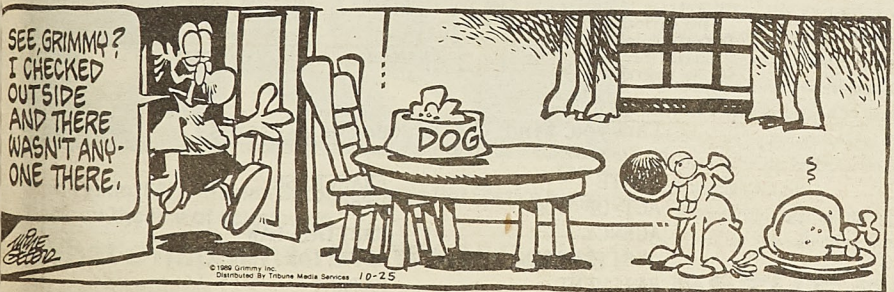


Animals and their mating songs.



"What did I say, Boris? ... These new uniforms are a crock!"





## Quality Cleaners

\* Expert Cleaning \* Reasonably Priced

108 W. 7th Street Rolla, MO 65401 364-3650

YOU HAVE FRIENDS WHO CARE AT...

**BIRTHRIGHT**

PHONE: 364-0066

215 WEST 8th STREET  
P.O. BOX 832  
ROLLA, MISSOURI 65401

FOR HELP  
DURING UNPLANNED PREGNANCY  
FREE PREGNANCY TESTING

**Nobuko's**  
**HAIR**  
**BOUTIQUE**

details make the difference

across from TJ MAX 341-3800

## MEDI-VALUE PHARMACY

Rolla's Only Downtown Pharmacy  
1000 Pine Street Rolla 364-7077  
Mon.-Fri. 8:30-8 Sat. 8:30-6  
Sunday 11-5  
7 DAYS A WEEK



Full Line of Drug Store and Pharmacy Items Plus!

If you have questions about the prescriptions you take, ask Bill Wuenschel, your friendly pharmacist, for the answers!



## UMR Student Special

3 Free Movie Rentals with \$5 Lifetime membership  
(all titles included)

\*All of the newest movie releases as well as recreational, music, and childrens videos. Large selection of Sega and Nintendo games.  
\*We also rent VCR's, Camcorders, and Nintendo Systems

### Membership Benefits:

\*3 movie rentals for \$5  
\*Dollar Day every Sunday  
\*Free Reservations

\*All movies \$1 after 8:30  
Sunday-Thursday and after  
9:30 on Friday and Saturday

This coupon entitles one UMR student to a Lifetime Membership and three free movie rentals for \$5.00 at Adventuretime Video with Valid Student I.D. and Drivers License.

Not valid with any other offer. Coupon expires November 8, 1989

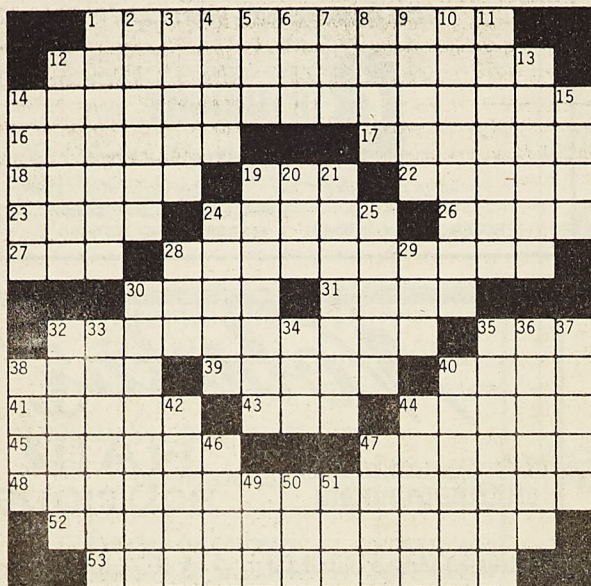
### Two Locations In Rolla To Serve You:

(in the Forum Shopping Center)  
near National  
364-0905

(Southside Shopping Center)  
near Walmart  
364-3526



# Fun & Games



© Edward Julius

- ACROSS**
- 1 Where one might study Andy Warhol's works (3 wds.)
  - 12 Enrollment into college
  - 14 "Calculus Made Simple," e.g. (2 wds.)
  - 16 Evaluate
  - 17 Extremely small
  - 18 Follows a recipe direction
  - 19 Belonging to Mr. Pacino
  - 22 Of land measure
  - 23 Meets a poker bet
  - 24 — Gay (WW II plane)
  - 26 Capri, e.g.
  - 27 Belonging to Mayor Koch
  - 28 Irritate or embitter
  - 30 Train for a boxing match
  - 31 — and the Belmonts
  - 32 Processions
  - 35 Diet supplement (abbr.)
  - 38 Scottish historian and philosopher
  - 39 College in Greenville, Pa.
  - 40 The Venerable —
  - 41 "...not with — but a whimper."
  - 43 Return on investment (abbr.)
  - 44 Pondered
  - 45 Belonging to Mr. Starr
  - 47 Part of the classifieds (2 wds.)
  - 48 Possible place to study abroad (2 wds.)
  - 52 Small school in Canton, Ohio (2 wds.)
  - 53 Orson Welles film classic (2 wds.)
- DOWN**
- 1 Those who are duped
  - 2 "Do unto —..."
  - 3 Fourth estate
  - 4 Goals
  - 5 Well-known record label
  - 6 Well-known king
  - 7 151 to Caesar
  - 8 Prefix meaning milk
  - 9 Confused (2 wds.)
  - 10 — husky
  - 11 Most immediate
  - 12 Like a sailboat
  - 13 Cash register key (2 wds.)
  - 14 En — (as a whole)
  - 15 Auto racing son of Richard Petty
  - 19 Political disorder
  - 20 — cit. (footnote abbreviation)
  - 21 Traveled on a Flexible Flyer
  - 24 Glorify
  - 25 Prospero's servant in "The Tempest"
  - 28 Well-known government agency
  - 29 American league team (abbr.)
  - 30 Fictional hypnotist
  - 32 Style exemplified by Picasso
  - 33 "She's —..." (from "Flashdance")
  - 34 Be unwell
  - 35 Visible trace
  - 36 Think
  - 37 Woman's undergarment
  - 38 Commit —-kiri
  - 40 — burner
  - 42 "...for if I — away..."
  - 46 Actress Gibbs
  - 47 African antelope
  - 49 Pince — (eyeglass type)
  - 50 1968 film, "Station Zebra"
  - 51 1965 film, "Ryan's Express"

S L E P P O T S E R F O X Y T  
 M E C O X N U D T S L O D X S  
 A A A O E T A B A R C E O O U  
 R N G T N M R O B I M R C R B  
 T O A L A S B A O E V I O T P  
 I P T G B A I T R O T D N W O  
 A T E P I L T D P V Y O A Y E  
 L S R D M S R E E T A G N X N  
 L U V E S E A X I R E F E O A  
 A R N E T S T V T N A O I R T  
 W T R D E V I A C E P T L P N  
 S U B M F R O Y E F A C I O N  
 D R E S P A N X Y V N A L O T  
 S N O M M U S Y O T A E V A N  
 T H E S I H C N A R F C R O W

Can you find the hidden legal terms?

- |               |             |
|---------------|-------------|
| ABATE         | FRANCHISE   |
| ACT OF GOD    | LIEN        |
| AGENCY        | MARTIAL LAW |
| ARBITRATION   | NOVATION    |
| BAILMENT      | PATENT      |
| CAVEAT EMPTOR | PRIVITY     |
| CONSIDERATION | PROBATE     |
| DAMAGES       | PROOF       |
| DEED          | PROXY       |
| DURESS        | REMEDY      |
| EASEMENT      | SUBPOENA    |
| ESCROW        | SUMMONS     |
| ESTOPPEL      | TORT        |
| FELON         | TRUST       |

see Solutions, page

JOIN US  
 at THE  
 MOVIES

THURSDAY 7:00 PM  
 MILES AUDITORIUM

October 26: The Misfits

CLARK GABLE, MARYLIN MONROE, MONTGOMERY CLIFT.  
 Directed by JOHN HUSTON. Screenplay by ARTHUR MILLER. PG-13-1961. A disillusioned divorcee keeps house for her three brooding cowboy friends in Arthur Miller's engrossing parable. Monroe and Gable made their last screen appearance in this film.

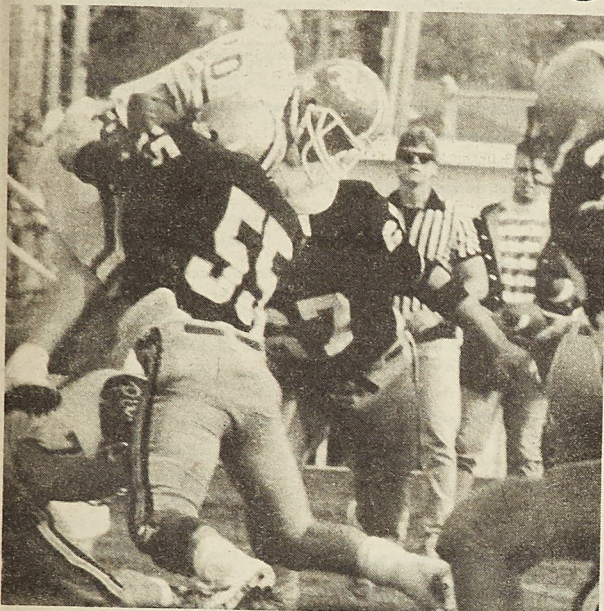


WELAND



# Sports

## Pitt State remains undefeated



Ron Tyson (55) and Brian Sitton (67) stop Pitt State's running back on the line of scrimmage.

By Eric Hardin  
Staff Writer

The undefeated Pittsburg State Gorillas protected their perfect record by defeating UMR this past Saturday 42-14.

The Gorillas, now 8-0, are a big, rough and powerful football team. Pitt State used these characteristics to gracefully move the ball up and down the field. Dominating the game from the start.

The Miners knew they had a tough day ahead of them. They took the skill and reputation of Pitt State into consideration before committing themselves.

Pittsburg State took every opportunity to score their first two possessions put the score 14-0 in favor of the Gorillas. Within five minutes and 13 downs, Pitt State gained 54 yards. On the 14th play quarterback Jay Padden put the ball in the endzone on a three yard touchdown run.

Keeping the ball on the ground, the Gorillas second drive went 60

yards in 14 plays. The score increased to 14-0 when tailback Kelly Lawson dove into the endzone from one yard out. Watching Pittsburg execute these two drives, one could feel the Miners were in a hole they could not get out. That prediction was nothing but accurate, for Pitt State got on the board once more before the half was over. A few key passes and a Bryan Mahnken 16 yard run helped the Gorillas to increase the lead to 21-0.

Following a roughing-the-punter penalty, UMR freshman quarterback Mike Wise passed to freshman Chris Kennedy who ran 57 yards for the touchdown with seconds left in the first half.

The Miners entered the locker-room a team looking to salvage what's left of the game. But when they took the field in the second half, the results were not much better than the first half. The Gorilla's scored three more touchdowns. The most impressive score came from Pitt

State's Steve Ginavan. Ginavan ran back a 85 yard punt return in the third period. The other 14 points came from tailback Darrin Dawson on a one yard run and Kelly Lawson who scored from one yard also.

The UMR combination of freshman quarterback Rob Noble and Quentin Kaston scored on a 15 yard touchdown pass in the end of the fourth quarter.

Coach Finley knew they were in for a game. He admits Pitt State is better than the young Miners, and plans to see the Gorillas in the NCAA Division II post season playoffs.

Pitt State racked up 242 yards rushing and 339 yards total offense yards. Mahnken led the Gorillas running game with 67 yards.

UMR had 213 yards in total offense. The two Miner quarterbacks totaled 85 yards and completed four out of 11 passes. The Miners, now 7-6, will play Central Missouri State at 1:30 Saturday at New Jackling Field.

## What's happen to the World Series?

By Scott Konersmann  
Assistant Sports Editor

The second game of the World Series was nearly a perfect re-run of game one, the A's beating the Giants five to one.

In the first inning Rickey Henderson scored on Carney Lansford's double to right. Then in the third the Giants tied the A's at one all when Jose Uribe was batted in by Robby Thompson. But that was it for the Giants.

Jose Canseco put the A's in front in the fourth on a hit by Parker. Then the A's widened the gap to five to one when Terry Steinback hit a three run homer to finish the fourth inning outburst. There were no other scores

for the rest of the game.

The excitement level for this World Series is probably at a record low. No one cares who wins. In California, people are wearing hats with the A's and Giants logo on it. So why have the game if nobody cares. Just the fact that there seems to be absolutely no rivalry between the two teams and no violence between the fans contributes to the low level of enthusiasm. Maybe the Giants will win one and spark a fire of excitement.

Thus far the A's are 2-0 over the Giants. Game three has been postponed until Friday, October 27, because of the earthquake.

## Mens's Intramural

News  
Submitted by Patrick Short  
Intramural Correspondence Secretary

The 1989 intramural season is well under way as the men have completed four sports. In first place at the present time is Sigma Nu while Pi Kappa Alpha follows closely in second. At the last intramural manager's meeting, Kelly Van Buren of Sigma Nu was elected Intramural Athlete of the Week for his volleyball skills while CCF was elected team of the week for winning the Division II Football Championship. Sports now being contested are volleyball and soccer while billiards will be held on October 28th.

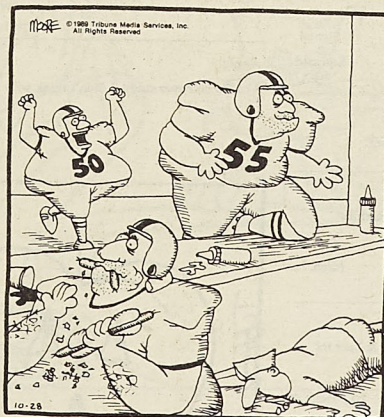
## Athlete of the week: Carl Roth

Submitted by M-Club

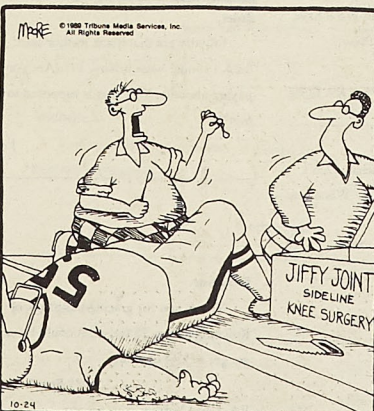
The M-Club Athlete of the Week for October 8 to 14 is Carl Roth. Carl led the Miners in a strong defensive effort against NWMSU. Carl had 12 tackles in the game and is fourth in the MIAA with an average of 11.8 tackles per game.

Carl is a senior out of Valle High School in Ste. Genevieve, MO.

## IN THE BLEACHERS



Having sacked the quarterback, the linebackers plunder and loot the concession stand.

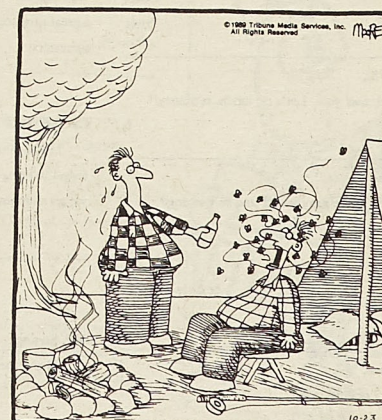


"This is cartilage, you idiot ... I said hand me a ligament."

## by Steve Moore



Place kicker with an attitude



"Oh, a bottle of beer. Isn't that nice ... but I asked for a bug light!"



## Classifieds

from page 11

Rich-man,

Thanks for doing the Devo. It was terrific because it was sincere. Keep up the good work.

YourPrez

Mike,

You're such a Dork!

Luv ya lots,  
Your adopted little sisters

Jennifer,

Congrats! You will make a great Home Coming Queen!

Goldie,

We all have our slow weeks, but things will speed up for Sigma Pi's formal.

Supersonic

Hey Jody,

How 'bout us getting together and partying again? It has been awhile and I really miss you!

Love,  
Corona/SLASH/PTRUMA

Holy Speeding tickets Batman,

The "Liar" stole the batmobile and broke the land speed record!

GDI,

Alright, who called me the Internmaniac?

Smiley,

Keep on smilin'!

Smilette

Jennifer,

Love it!

Flem

Kory &amp; Jeff,

So when are we partying together??

Anne &amp; Michelle L.

Social,

You are doing a great job as scholarship chairman, keep up the good work, maybe I will pass Chemistry this semester.

Supersonic

Nina,

Those B.B.s sound great! How about this weekend? We can party-hop again, but maybe this time I won't lose you!

Love,  
Tricia

Tim S.,

I miss you! Let's do lunch, seriously!!

L

Beau,

Is that a gray jacket you're wearing?

Cindy &amp; Susan

Miner,

Looking good!

Scott,

Hey lil bro, wanna buy a shark?

YBS,

Michelle L.

KC,

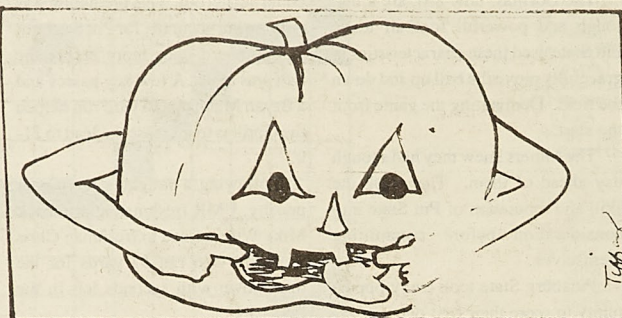
Don't you wish APO teas were held at Acacia more often?

Exponential

Girl's GDI Volleyball Team,

Just think Brewsters, and you will survive.

The Internmaniac



D'Anne,

You are the best Big Sis I could ever ask for! Thanx for everything you've done for me! We need to party more often and do some of those famous Dr. Peppers!

Love,  
Your little sis-Tricia

That man at Kingsford,

I figured out a nickname for you. It has something to do with you and your sister's eyes.

Signed,  
Emerald

Lamda Chi,

I told you 6 am was pretty early.

Noe &amp; Jami,

You two are the "greatest" roomies!

ZLAM,  
Mich. L.

Social,

Here's to the uptown theater & beer for breakfast.

Exponential

Castro,

Can you guess who your little sister is? Well I'm sure it won't be too hard. We'll have a great time together over the next few semesters!

Your KA lil sis

Cat Steven's Fan,

I hope you did well on your tests. Don't forget to bring the you know whats. When can we go shopping?

Music Lover

Mr. Strange,

Thank for the flowers!

-Me-

Julie B. at KD,

Each day I gaze upon your face/And see immortal beauty/If only I could leave this race/and spend a moment near thee  
I'd conquer both the waves and wild/If it would bring you near/With your smile my soul you'd mend/And from it drive all fear.

???

Laura,

Go for doobie! (Hee)

ZLAM,

YBS

Amy &amp; Barry,

Now that I'm home we should do a hot tub repeat, well almost repeat.

Love ya both!

Hippy,

Gee, I always wanted to be experimented on. Do you promise it will be fun?

Purple

Batman, Riddle me this:

Who's the only person smart enough to get a thousand dollar scholarship with a 1.9 GPA? Who's the only person aggressive enough to make a thousand dollars a week at the Gotham City Grocery Store?

The Riddler

Sapphire Eyes,

A friend is someone who reaches out to hold your hand, and touches your heart.

Your special friend,  
Tina

Jeff,

I see your student and raise you two vice chancellors.

B-off

IFC Baby reps,

Congratulations on receiving your jackets.

Zeta

Hey Sig Ep,

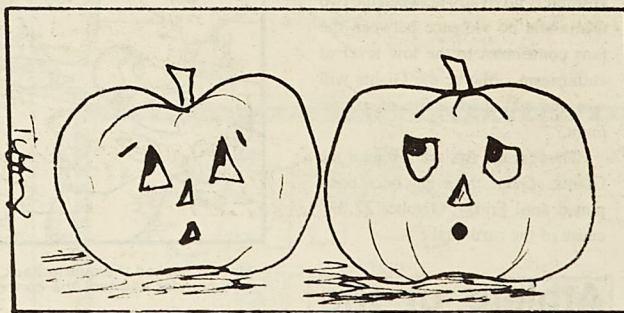
Thanks for the TGIF-what a great way to end a week!

Thanks,  
Chi-O

Jen-i,

Have you found your pillow yet?

ZLAM,  
"The Swamp"



Jules,

I finally got that black leather skirt! You think I should wear it Nov. 17? (Are you paying attention S.E., this is supposed to be a hint!)

Emerald

Ed,

Why don't I ever see you anymore? And when I do you are behind a camera? Let's get together soon & party!

YLS,  
Amy

DSBFH,

I haven't quite fallen off the face of the earth (yet). How 'bout you?

Sunshine

EIT-ers,

Good luck tomorrow. Try to stay awake during the 8 hour torture session at least.

A fellow victim

Dear Sue,

Thank you for gracing the pages of Rollamo at least 75 times. It could be more but we got sick of counting.

1989 Sue A. Fan Club

P.S. Can I borrow your camera

dz,

You can't go to UMKC! I won't be able to find anyone to put up with me as well as you do (or ignore me so well).

Purple

B. Phillips,

Who is the pres of BOB fan club?

Noe,

How about that Glade can..lessons anyone?

ZLAM,  
Mich. L.

Anyan,

Nice Scrapbook!

Flounder,

Do you want to go to Sig Pi formal? You'll be the only Kappa Sigma there.

Amy

Mel, Tom, S.O.I, and Becky,

Duh nuh nuh nuh nuh, Duh nuh nuh nuh nuh, Duh nuh nuh nuh nuh, Duh nuh nuh nuh nuh, ...

Sunshine

P.S. Does anybody really know what time it is?

Chancellor Jischke,

Would you do me a favor? Wake me up when I graduate!

A super-senior

Jami,

Have you found your bed yet?

ZLAM,

"the other two roomies"

Timmy P.,

Are you missing a piece of anything? Did it come unscrewed?

Dawn,

You're an awsome little sis. Come visit me some time soon.

YBS

Dear Rollamo,

The yearbook is representative of two things: Kappa Delta and S. Anyan.

Chap,

Are you single?

ZLAM,  
Lil

Flounder,

Want to road trip to Columbia next weekend?

Amy

Mr. Burglar,

Thanks for the movie! How about a game of table tennis sometime soon (before I forget how to win)?

Cashew Chick

see Classifieds, page 17



# Classifieds

from page 16

# Solutions

from page 14

**Lewis (or Cyc-man),**  
Have you considered going professional?  
I'm sure lil Deb would wait for you.

Hacker

**To my best friend Jeffy B.,**  
As white and soft as snowflakes, two apple blossoms burst into bloom, each turning a different direction, each reaching out to catch a different sunbeam, and yet they still share the same solid branch that keeps them from growing too far apart.

All my love,  
Urs.

**Zeta houseboys are "way cool"**

**Miner,**  
You're better than the Rollamo but still not totally representative of this campus.

**Pi Kappa Alpha is great!**

Your lil sisters

**Woody,**  
I thought you weren't allowed to have overnight visitors over Homecoming. Where was my roommate then?

Amy

**Zan,**  
You're a great Big Sis. I'm glad I'm in your family.

LiCO,  
Susan

**To the Sig Nu Excons,**  
Jailbreak '89 was a blast, maybe we should have a repeat offense soon!

Thanks,  
The ChiO Jailbirds

**Dawn,**  
Thanks for teaching us Diff Eq in 3 hrs!  
You're great!

ZLAM,  
Noe & Anne

**Kappa Delta Fall 88 Pledge Class,**  
Get psyched for Oct. 27.

Your pledge prez,  
Goldie

**Sam,**  
You're the best lil sis. Sorry I'm never around.

LiCO,  
YBS

**Gawed,**  
Don't you feel honored to be on a list with so many guys who were once also in your position?

Purple

**Lucinda-**  
You're an awesome big sis! If ya ever need anything let me know!

ZLAM,  
yls

**SUBhumans,**  
I was only trying to fill out your STAR wall!

-of the month

**Holy Capers Batman,**  
It's the super evil villian "The Liar"!

Robin

**Joz,**  
What a grandma! Just remember you're the best candidate.

ZLAM,  
yls

**My Little Red Fox,**  
I hope you like the stuff. Happy anniversary. It won't be long. Miss you.

Your Hound

**Jami & Michelle,**  
Raise your hands one more time to vote and I'll cut them off!

ZLAM,

no more problems

**Sharon,**  
You should really work out an agreement or understanding between you and your roommates (yes, all of them). Just ignoring them won't make for a happy semester. There's still a lot of time left in this semester. Think about it.

Your Sadist-ics buddy

**Julie,**  
The votes are in! Get ready to kiss the pig!

Deanna and Kris

**To the person who accessed my account this summer,**  
You messed up.

Purple

**Dean-**  
Stop yelling at Jami at volleyball practice -a concerned observer

**Jackye-**  
When are you going to make up your mind?

ZLAM,  
Just wonderin

**Carl,**  
I've got my eye on you (and I like what I see!).

A woman of Rolla

**Annex Geeks,**  
Second annual Annex Geek party, my place Wed Nov 1 at 6pm. You bring the BEERS, ok?

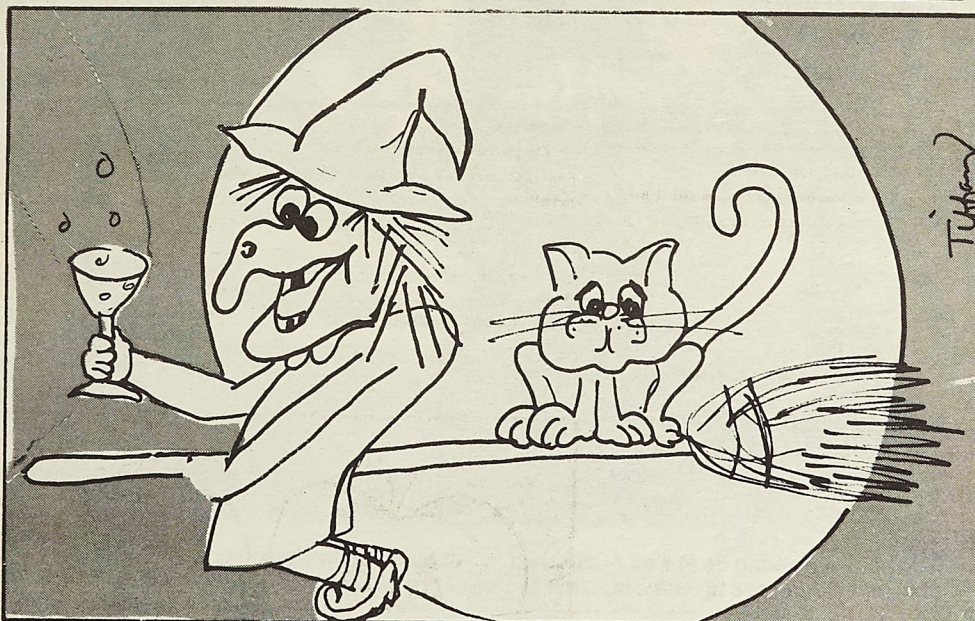
Physics Geek

**Nancy,**  
Good luck on mid-terms. You'll do great!

ZLAM,  
ybs

**ZTA-**  
Sell those rush ads.

ZLAM,  
Your baby reps



**Heather,**  
You are the best roommate ever! Last weekend we fulfilled our mission, but believe me there will be many more missions to come! Hey, have you seen the Wabbit lately? If so, shoot to kill! Do you think we'll ever vacuum our carpet? Oh, who cares anyway. No, seriously!

Love,  
Your Roomie

**ZLAM, LICO, and AOT,**  
Is all this really necessary???

Acronyms Anonymous

**Michelle S-**  
Can't wait till next semester. We're going to make it awesome.

ZLAM,  
roomie-to-be

**Hey Julie,**  
IUT.IIBHITKIL, try telling someone what that means when you thought you know yourself, or do you?

Guess Who?  
P.S. I'm not going to tell you.

**Supersonic,**  
Do you ever see Champagne or KC in person? It seems that that would be an ideal time for a decent conversation of more than one or two sentences.

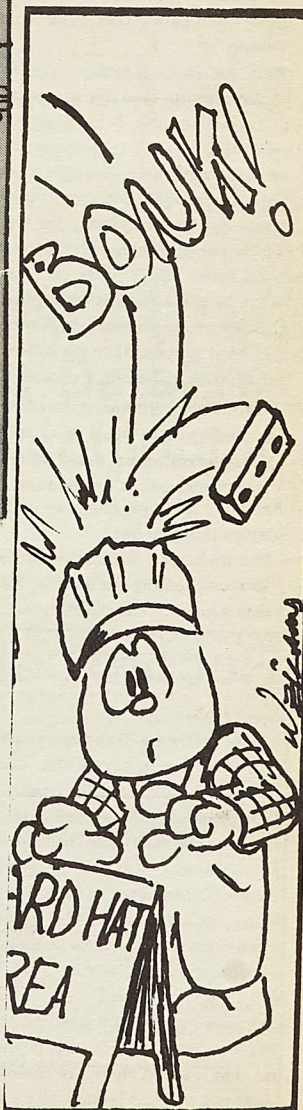
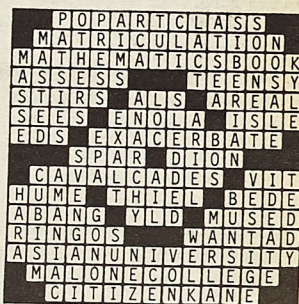
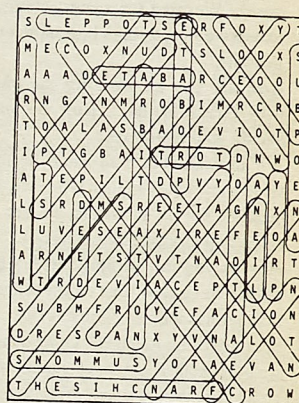
Curious

**Hey Zeta,**  
Our can opener is running a little warm. What was that number for the Fire Department?

-The PigPen  
(Home of the Horsemen)

**Terry R.**  
was the victim of a very brutal attack by a female vampire who left a huge mark on his neck. He went to the hospital and was treated and released.

Elvis





## Tesla

from page 8

same. We used the same technique except we were trying a little harder on this one.

**How are you all working the tour with Great White? How do you decide who headlines?**

We alternate, but both bands do the same show every night. When we do headline we do an encore, so that is about an extra fifteen minutes.

**How do you and Tommy decide who plays what guitar part on the songs?**

Some songs we never collaborated on, but they come together. Other songs we put together. As far as guitar parts go it happens right away. When a song is in its rawest form one of us might take off and do a solo and that usually ends up being the guy who plays it on the record.

**In the beginning of "Party Over," the guitar goes from one speaker, to the other, and then back. Are you and Tommy alternating before you both break into the song?**

We tried alternating, but it didn't sound right. It was too weird doing it that way. What we did was put Tommy's guitar up in the middle of the stereo spectrum and what I did was do the left and right thing.

**How does your style differ from Tommy's?**

Well, we are both rock'n'roll guitar players. It's not like I'm a jazz guy and he's something else. Since we are both rock guitar players our styles are similar in that sense except his style is very uniform and solid. He's very consistent. His tone is exactly the same which is great for him. He gets a really good tone. It's a really fat sound. When he plays guitar it's like getting punched in the stomach. My style in this band is more of trying different things. Using different sounds on the record. Trying different styles of soloing whether it be blues or classical. Our styles differ in that I'm more experimental and he's more solid.

**Are there any new bands or guitar players that you like?**

I like Badlands. They're really hot. I've been checking out this new band called KingsX. They sound good. I



Courtesy Geffen Records

**Tesla will appearing be at Keil Auditorium in St.Louis on a co-headlining bill with Great White on November 8 at 8:00 p.m. This has been one of the best received tours this year.**

haven't really looked into their technical style as far as guitar players go. As far as new guitar players go I haven't really heard any that impress

me or knock me out as much as Hendrix.

**Who were your influences?**

Hendrix, Peter Frampton, and Rick

Duriger. Also Roger Fisher from the old Heart. He played stuff like "Barracuda" and "Magic Man." People who were really creative in the 60's and

70's. Back then bands were more creative. They were making neat sounds. Nowadays, sounds are all too uniform. Too strict!

**Are you a trained guitarist?**

I taught myself. I took lessons to learn the basics but everything use I did on my own.

**There is a lot of slide guitar on the album. Have you ever experienced with open tunings?**

Yes I have. As a matter of fact I just did a column for *Guitar World* magazine that talks about open tunings and different ones I have fooled with and stumbled upon.

**Was there a reason for using the same producers on both albums?**

The reason we did that because they work well with us. We should have received a co-production credit on both records. We basically produced it ourselves, be we worked together with them. It was a good relationship. They had a lot to do with putting the finishing touches on the tracks.

**What's ahead for the band?**

We will be on the road until November. Then we will be taking a month off. After that we will be going to Japan for a couple of weeks followed by a two month break. From there we will see what happens.

Don't miss Tesla's appearance in St.Louis on November 8 at 8:00 p.m. at Keil Auditorium in St.Louis. They are touring with Great White which has proved to be one of the best double-bills this year. Nothing but rave reviews have been said about this band. Their live performance is one hottest tickets in the country.

Thanks to Leslie Crockett for her help in making this interview possible.

In the weeks to come we have several different bands that are scheduled to be featured. This includes acts like L.A. Guns, Mr. Big, Princess Pang, Faster Pussycat, Bang Tango, Bonham, Diving For Pearls, Danger Danger, Warrant, and Motley Crue.

## Record company replies on success of weekly music column

Babu:

We just wanted to thank you for your dedication to your column. There are only a handful of college publications nationwide that include such an extensive review column that exposes new bands as well as keeping up with the established bands in the business. Many people felt that rock 'n' roll was a dead form of music, but with the help of publications such as yours, rock 'n' roll is alive and well today. Even though we represent a small percentage of the many bands your publication has featured, there has been very good talk of *The Missouri Miner* and

the quality articles that are featured about the rock 'n' roll medium. Students at the University of Missouri-Rolla who listen to rock 'n' roll are fortunate to have the weekly feature. Keep up the good work.

**The Staff at WEA (Warner-**

Every week it seems that you interview some band that I have never heard of. Eventhough I do find it interesting I sometimes feel like I would like to hear about a performer I am familiar with. I enjoyed your Debbie Gibson article which was the first I have seen that has been on a pop

artist. I would like to ask that you feature more performers that we might hear on the radio. Some bands that I like are Motley Crue, Richard Marx, and Paula Abdul.

**In Search Of The Known**

I will try my best to expand the arena of this column to include performers that might be more familiar to the general public. My intension is to do that as well as give many new bands exposure to the students on campus. Many of you may not care for the bands that I have interviewed while I know that many do read this column week after week. I would like to hear from

the students so I may have an idea of what performers they are interested in. I will try my best to work something out with the performer requested. By the way, we are currently in the process of working something out with the Crue.

**Babu**

I always get asked, either in person or by a letter how do I get to interview the musicians that I write about in my column. There is really only one way to answer this question. All I have to do is write the column which is the hardest part for me. There are many

dedicated people in the music industry as well as the performers themselves that make this all happen. Without their dedication and commitment what I do would not be possible. This is my chance to thank them for their cooperation. Their job is not easy. Also the continuing support of the editor and features editor of *The Miner*, as well as the rest of the staff, has made this a successful column. Without them this paper could not happen.

Thanks a lot!  
Babu

"If he show  
ominously.  
Sarah did no  
kindly.

"Of course  
and hung up.  
She had nev  
before, and she  
turned out to be  
was waiting for  
class on Monday  
was happy to see  
been even happy  
so tired.

"Where ha  
asked, once the  
hamburger hang  
"In Californi  
remember?" he  
He was even  
than she was to  
"I tried callin  
"I gave you t  
gencies. Did sor  
gone, and you ju  
to tell me?"

"Well, you  
Ramada Inn?"  
"Ramada Inn  
you call anyway  
She showed  
she had written

"No wonder  
lantly. "That s



Erich Elme



"If he shows up," Maggie said, ominously.

Sarah did not take the insinuation kindly.

"Of course he will," she snapped, and hung up.

She had never hung up on Maggie before, and she felt guilty about it. It turned out to be a waste of guilt - Lance was waiting for her as she got out of class on Monday afternoon. Sure she was happy to see him; she would have been even happier if he hadn't looked so tired.

"Where have you been?" she asked, once they were seated in the hamburger hangout.

"In California, on my plant trip, remember?" he said curtly.

He was even less happy to see her than she was to see him.

"I tried calling you -"

"I gave you that number for emergencies. Did someone die while I was gone, and you just happened to forget to tell me?"

"Well, you weren't staying at Ramada Inn?"

"Ramada Inn! What number did you call anyway?"

She showed him the slip on which she had written the number.

"No wonder!" he said, almost jubilantly. "That should be a three, not a

two. You can't even read your own handwriting."

She decided not to mention that that was his handwriting. But he was not going to get away.

"I called the company you claimed you were on a plant trip for, and they'd never even heard of you."

"It's a big company."

Sarah, I'm not going to go on like this. There are plenty of guys around. I'm sure one of them wouldn't mind having a second mother."

Sarah gasped at him as he stood up and left. That hadn't been the Lance she knew. But this Lance had sounded

"Don't be silly, Sarah," was her patronising reply. "He's perfectly alright. Besides, you admitted yourself that you were calling the wrong number."

"Yes, but -"

"Has he done anything out of the ordinary lately?"

Sarah was not one to give up easily. She decided to go to the placement assistance office the next day and find out if Lance had really had an offer from that computer company.

"I'm sorry, Sarah, his name isn't showing on the computer," Anne Simmons said. It had taken a lot of persuasion to have her look up Lance's file.

"Does that mean that he didn't have any offers at all?"

Sarah was puzzled. Lance had given her the impression that he had companies falling over themselves trying to recruit him. An exaggeration, obviously, but she had been sure that he had some interviews scheduled.

"I wish that was all. Actually, it means that he's not a student here."

"Since when? Surely he enrolled?"

"We keep records on students up to six weeks into the first semester they are no longer enrolled. That means he didn't enroll at all this semester."

It was a stunned, but furious, Sarah who drove determinedly to Lance's apartment.

(Next Week: What game is Lance playing and what are his parents hiding?)



"They looked all over, and I don't think they misplaced your file. Why don't you just admit that you weren't

serious. But he couldn't just call everything off like that? Yet, he just had.

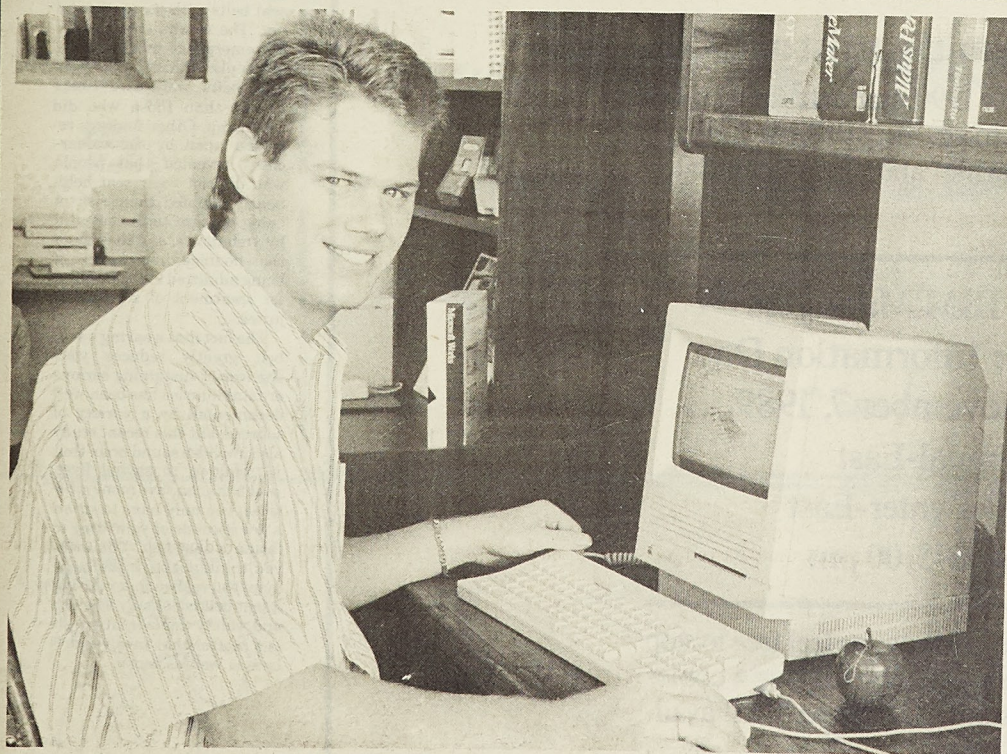
"He ended our relationship today." She got no sympathy.

in California, and that -"

"I'm not going to admit anything," he interrupted coldly. "And I'm tired of you trying to run my life. It's over

Her first inclination was to call Maggie, but she decided against it. Instead, she would call his parents and find out if they knew what was bothering Lance. She got his mother.

"It's about time," his mother said, and the line went dead.



## Elmer wins DataPro Macintosh computer

Submitted by  
Data Pro Computer Systems

Early this month, Data Pro Computer Systems held a drawing for a Macintosh Plus computer exclusively for students at UMR. The drawing was won by Erich Elmer, a junior in the Engineering Management Department. The computer's paraphernalia includes one megabyte RAM, a 68,000 micro processor, a built-in 800K floppy disk drive, and a high-resolution monochrome monitor.

Data Pro is the local Apple dealer and the president, Chris Nibeck, says that the Macintosh Plus is the highest in Macintosh sales while the Macintosh line is one of the hottest selling computer systems.

Erich Elmer was the winner of the Macintosh given to a UMR student by Data Pro of Rolla.



## Protecting Your Health

**Seat Belts: Can we afford the cost of ignoring them?**

Public Service Information from The American College of Surgeons

*George F. Sheldon, MD, FACS, Professor and Chairman of the Department of Surgery at the University of North Carolina, Chapel Hill, and a member of the Board of Regents of the American College of Surgeons, discusses the use of seat belts as a health and safety measure, as well as a cost-saving consideration for the occupants of automobiles.*

Oddly enough, one of the leading causes of death in this country—death by automobile accident—is also one of the easiest to prevent. According to the American Automobile Association, only heart disease, cancer, and stroke cause more deaths within the general population. Even more disturbing is the fact that these fatalities rank second only to cancer as the leading cause of death for adults ages 25 to 44, and they are the main killer of young people from the ages of 1 to 24.



Dr. Sheldon

Although people in this country frequently express concern about the high cost of medical treatment for long-term illnesses such as cancer and heart disease, they probably don't give much thought to how much it costs to treat victims of automobile accidents. Yet there are countless victims of these accidents who, in addition to sustaining debilitating injuries, have also unknowingly run up large bills for medical expenses.

The physicians and other health care professionals who treat these accident victims in emergency life-saving situations and then follow them

through the rehabilitation process, undoubtedly wish that they would have used the preventive measure of "buckling up." So would their employers—who miss their skill and expertise on the job while they take long leaves of absence to recover from their injuries.

Despite the fact that many states now have laws requiring the mandatory use of seat belts, many people still neglect to use them. Consequently, injuries from automobile accidents remain one of the major causes of death and disability in this country. According to a national committee on trauma, injuries, in general, are responsible for more lost working days of life than all types of cancer and heart disease combined. Furthermore, the committee points out, one out of every eight hospital beds in this country is occupied by an injured patient, and with an approximate annual cost of \$75 to \$100 billion, these injuries comprise one of our country's most expensive health problems. In many cases, the types of injuries that frequently come into play when these figures are discussed are those that are sustained unnecessarily by accident victims who did not wear seat belts.

When you start to think about all the cost factors that are involved in automobile accidents, the total cost can be a bit overwhelming. The enormity of the problem is underscored by the fact that there are over 50,000 auto accidents each year in which people who choose not to wear seat belts wind up needing life-saving emergency surgery. Of course, the major

motivation for buckling up is to protect yourself from serious or fatal injuries if you should become the unfortunate victim of a crash. But there is also a secondary consideration to keep in mind, and that's the issue of cost. If you doubt that using a seat belt can save you money, you might be interested in a study citing the cost-effectiveness of automobile safety restraints that was recently reported on in a national business and health magazine. The report reviewed the experience of a Massachusetts hospital that began comparing the medical expenses of accident victims who wore seat belts with those who did not. The results showed that the emergency medical costs of people who did not wear seat belts were two times higher than those who did buckle up. Other findings reported upon by the researchers revealed that people who did not wear seat belts nearly doubled their risk of being brought to the hospital by ambulance, and they more than doubled their chances of being admitted to the hospital for treatment of serious injuries.

The fact that wearing a seat belt greatly reduces your chances of sustaining serious or fatal injuries has been well documented by a variety of sources, but this recent study also provides sound proof that in addition to saving lives, seat belts can save money. Besides, you only have to spend a few seconds of your time to fasten a seat belt. The more you think about it, then, the more you realize that wearing a seat belt is not only a health and safety consideration—it is a matter that involves dollars as well as sense.

# When you start your career, there's nothing like initial success.

**Exciting opportunities exist at IBM!**

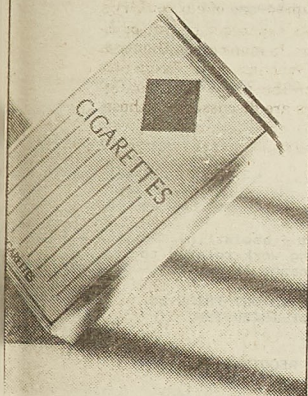
IBM is recruiting 1989/1990 graduates and co-op candidates for openings in Programming, Accounting, Engineering and Technical Sales (BS/MS).

**Meet with IBM Managers  
At Our Career Information Day  
Tuesday, November 7, 1989  
Centennial-East  
University Center-East  
12:00 noon-5:00 pm**

There is no formal presentation, so feel free to stop by anytime during the event. Please bring 4 copies of your data sheet/resume and transcript, if available. Dress is casual.

An equal opportunity employer





If you smoke 10,000 cigarettes a year, giving up 20 won't kill you.

In fact, it might save your life. All you have to do is join millions of other Americans and give up smoking for a day. Because if you can quit for a day, you can quit for life. For more information, call 1-800-ACS-2345.

Join The Great American Smokeout, November 16.



# KMNR 89.7

## FREAKERS

• refreshments

B A II

• costume prizes

Friday

OCTOBER 27th 8 pm

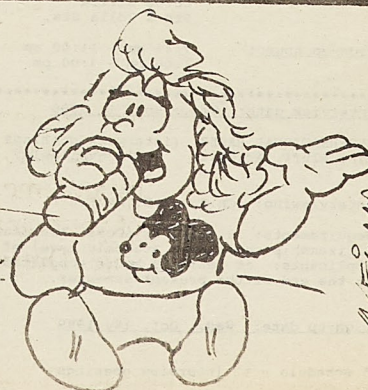
at TECH ENGINE CLUB

all campus Halloween party

featuring authentic midwestern surf music by

UNTAMED YOUTH

• bonfire





# Placement

UNIVERSITY OF MISSOURI-ROLLA  
PLACEMENT OFFICE  
Buehler Building, 9th & Rolla St.

FALL WEEKLY DETAIL LIST #9  
Additions--weeks of Nov. 6 & Nov. 13, 1989

U.S. DEPT. OF TRANS./F.A.A.  
601 E. 12th St. (ACE -450A)  
Kansas City, MO 64106  
attn: Ms. Vera Shinn

NUMBER OF SCHEDULES: 1  
MAJORS: BS/CE  
POSITION: Field Engineering  
LOCATION: Kansas City, MO (extensive travel in Iowa, Kansas, Missouri, and Nebraska)  
DECEMBER 1989 grads  
3.0 G.P.A. REQUIRED  
U.S. CITIZENSHIP REQUIRED FOR WORK IN FEDERAL GOVT.

RESUMES OF ALL CIVIL ENGINEERS REGISTERED WITH CAREER DEVELOPMENT WERE MAILED TO U.S. DEPT. OF TRANS.  
INTERVIEW DATE: Nov. 7, 1989  
(We will post names of those selected.)

CYBER TEL  
c/o Logan Group, Attn: Brian Ryan  
555 N. Ballas Rd., Suite 195  
St. Louis, MO 63141

NUMBER OF SCHEDULES: 1  
MAJORS: BS EE with electronics, microwave, computer background - work for a firm who mfg. cellular telephones (car phones), etc., to metro St. Louis area.  
LOCATION: St. Louis  
DEC. 89 GRADS

DEADLINE FOR TURNING IN RESUMES: Friday, Oct. 27, 1989  
INTERVIEW DATE: Nov. 8, 1989

SCS ENGINEER  
9233 Ward Parkway  
Kansas City, MO 64114  
attn: Ms. Kirk Ellis

NUMBER OF SCHEDULES: 1  
MAJORS: BS/MS in CE  
POSITION: CE with Environmental preference  
LOCATION: Kansas City  
INTERVIEWS WILL BE 45 MIN. IN LENGTH  
INTERVIEW SIGNUP DATE: Friday, Oct. 27, 1989  
INTERVIEW DATE: November 9, 1989

TEXAS GAS TRANSMISSION  
3800 Frederica  
Owensboro, KY 42301  
attn: Ms. Pam Higdon

NUMBER OF SCHEDULES: 1  
MAJORS: BS/ME  
POSITION: Position in technical services dept. field performance testing, technical evaluation of pipeline & compressor facilities used for trans. of natural gas.  
PERMANENT VISA REQUIRED  
DECEMBER 1989 GRADS

DEADLINE FOR TURNING IN RESUMES: Friday, Oct. 27, 1989  
INTERVIEW DATE: Nov. 16, 1989

LOS ANGELES COUNTY DEPT. OF PUBLIC WORKS  
P.O. Box 1460  
Alhambra, CA 91802-1460  
attn: Ms. Susan Noyes

NUMBER OF SCHEDULES: 1  
MAJORS: BS/MS/CE  
POSITION: Civil Eng. Assistant - assist in performance of detailed civil engineering work related to design, location, construction & maintenance of public works structures, facilities, or projects.  
COMPANY REQUESTS THAT APPLICATION BE FILLED OUT PRIOR TO INTERVIEWS. WILL BE AVAILABLE AT TIME OF INTERVIEW SIGNUPS.

U.S. CITIZENSHIP OR PERMANENT RES. VISA REQUIRED -  
NO STUDENT VISAS  
DEC. or MAY grads

INTERVIEW SIGNUP DATE: Friday, Nov. 3, 1989  
INTERVIEW DATE: November 17, 1989

U.S. NAVAL WEAPONS CENTER  
Code 22502  
China Lake, CA 93555-6061  
attn: Ms. Mary Moore

NUMBER OF SCHEDULES: 1  
MAJORS: BS/MS/PhD AE, ME, EE, Physics  
POSITION: Entry level in Jr. Prof. Development Program - rotating training in various technical areas during first year.  
DEC. 89, MAY & JULY 90 GRADS  
U.S. CITIZENS ONLY  
PREFER 2.8 G.P.A. AND ABOVE

DEADLINE FOR TURNING IN RESUMES: Friday, Oct. 27, 1989  
INTERVIEW DATE: Nov. 28, 29, 1989

U.S. DEPT. DEFENSE-NAVY (NUCEALR)  
1222 Spruce St.  
10th Floor  
St. Louis, MO 63103-2814  
attn: Lt. Kent Custer

NUMBER OF SCHEDULES: 1  
MAJORS: BS/MS/PhD - all - 1 year of calculus based physics required  
POSITION: Nuclear propulsion managers/engineers, Nuclear Navy Power School Instructors  
LOCATION: East/West Coast, Orlando, FL (Instructors)

INTERVIEW SIGNUP DATE: Monday, Nov. 13, 1989  
INTERVIEW DATE: Nov. 27, 1989

## Co-op Employment

OCTOBER, 1989

### CO-OP EMPLOYMENT

Sign-up location: 101 Buehler Bldg.  
Co-op Office  
9th & Rolla Sts.

Sign-up hours: 7:45 am - 11:00 am  
1:00 pm - 3:00 pm

\*\*\*\*\*  
Interview date: Wed., Nov. 1, 1989

INTERNATIONAL PAPER (interview openings  
Pine Bluff, Arkansas still available)

Interviewing: Ch.E., E.E., M.E.

Requirements: 3.0 GPA or above, American Citizenship required. Academic level of applicants: at least 59 hours completed at the end of the present semester.

Sign-up date: Wed., Oct. 18, 1989

1 schedule - 12 interview openings

\*\*\*\*\*

ATR WIRE AND CABLE  
Danville, Kentucky

Interviewing: Chem., C.Sc., Met., Mgmt.

Requirements: 2.85 GPA or above, American Citizenship required, Academic level of applicants: at least 65 hours completed at the end of the present semester.

Sign-up date: Wed., Oct. 25, 1989.

RESUMES ONLY. IF YOU WOULD LIKE TO BE CONSIDERED FOR CO-OP EMPLOYMENT WITH THE ABOVE COMPANY, PLEASE BRING A COPY OF YOUR CO-OP RESUME TO THE CO-OP OFFICE ON THE ABOVE DATE.

\*\*\*\*\*

### CO-OP EMPLOYMENT

JACOBS ENGINEERING GROUP  
Lakeland, Florida

Interviewing: Ch.E., C.E., M.E., Mining

Requirements: 2.5 GPA or above, American Citizenship required. Academic level of applicants: At least 75 credit hours completed at the end of the present semester.

Start Work: Summer 90 or Fall 90

Sign-up date: Wed., Nov. 1, 1989

RESUMES ONLY. IF YOU WOULD LIKE TO BE CONSIDERED FOR CO-OP EMPLOYMENT WITH THE ABOVE COMPANY, PLEASE BRING A COPY OF YOUR CO-OP RESUME TO THE CO-OP OFFICE ON THE ABOVE SIGN UP DATE.

\*\*\*\*\*



CO-OP INTERVIEW INFORMATION SHEET

Addition to October Co-op List

IBM CORPORATION  
Charlotte, North Carolina

Interviewing: Chem., C.Sc., E.E., M.E.

Requirements: 3.0 GPA or above, Permanent Resident Status ok, No student Visas  
Academic level of applicants: at least 30 credit hours completed at the end of the present semester.

Sign-up date: Thurs., Oct. 26, 1989

RESUMES ONLY. IF YOU WOULD LIKE TO BE CONSIDERED FOR CO-OP EMPLOYMENT WITH THE ABOVE COMPANY, PLEASE BRING A COPY OF YOUR CO-OP RESUME TO THE CO-OP OFFICE ON THE ABOVE DATE.

\*\*\*\*\*  
DELTA ENVIRONMENTAL CONSULTANTS, INC.  
Charlotte, North Carolina

Interviewing: Ch.E. with environmental emphasis, and C.E. with environmental emphasis

Requirements: 2.9 GPA or above, American Citizenship not required. Academic level of applicants: at least 60 hours completed at the end of the present semester.

Sign-up date: Thurs., Oct. 26, 1989

RESUMES ONLY. IF YOU WOULD LIKE TO BE CONSIDERED FOR CO-OP EMPLOYMENT WITH THE ABOVE COMPANY, PLEASE BRING A COPY OF YOUR CO-OP RESUME TO THE CO-OP OFFICE ON THE ABOVE DATE.

\*\*\*\*\*

Addition to October Co-op List

Interview date: Tuesday, Oct. 31, 1989

GENERAL METAL PRODUCTS  
St. Louis, Missouri

Interviewing: M.E.

Requirements: 2.5 GPA or above

See Sharon, Co-op Office as soon as possible for sign-up times.

\*\*\*\*\*

NOTE: The ones that indicate RESUMES ONLY. This means the company will not be on campus interviewing, but they want resumes to review and should contact you if they are interested in employing you.

Please let the Co-op Office know immediately of any acceptance of an offer.

Please check with the Co-op Office periodically to see if additional companies have scheduled interviews. These will be posted on the bulletin board by the Co-op Office and printed in the Miner Newspaper.

\*\*\*\*\*

Company and Location: IBM, Nationwide

Information Day: Co-ops should attend the November 7th IBM Information Day. This event runs from 12:00 noon til 5:00pm and will be held in the University Center East - Centennial Room East.

Interviews: Co-op interviews will be set up during the IBM Information Day. They will held on November 8th and start at 8:00am in the above location. These two events will be for both graduating students and co-ops.

Interview Length: 30 minutes

Academic Level: At least 29 credit hours completed

Starting Work Dates: Spring 90, Summer 90

Citizenship: IBM will consider Citizens, Permanent Residents and "Intending Citizens" as defined by the 1986 Immigration Reform and Control Act.

G.P.A.: 2.0/4.0 (Competitive Screening during Information Day)

Disciplines Needed:

Ceramics	Computer Science
Chemical Eng.	Chemistry
Electrical Eng.	Industrial Eng.
Mechanical Eng.	Metallurgical Eng.

Contact: Dario J. DeMaria  
National College Recruiting Representative  
07/864  
One IBM Plaza  
Chicago, IL 60611

Note: All students must have a resume and transcript on file at the Co-op Office before you will be considered for Co-op employment.

You must submit (4) copies of your co-op resume form to IBM on the informal information and sign-up day, November 7.

# WANTED

**Wanted:** Co-op students in mining, civil and mechanical engineering or mining-related careers.

**Where:** Associated Electric Cooperative's modern surface mine near Moberly, Missouri.

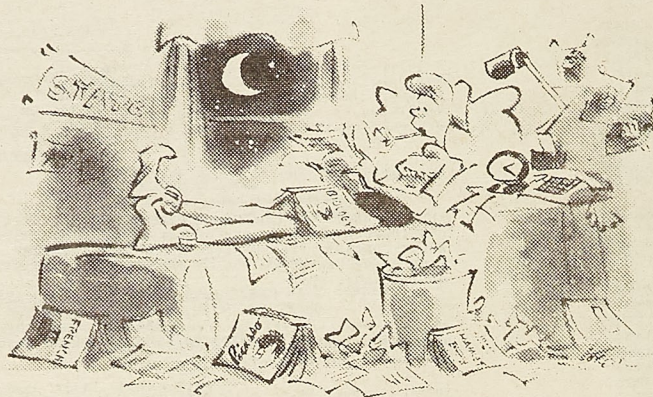
**When:** June through August or September through December or January through May.

**Contact:** *See Sharon - Co-op Office*  
Janice C. Walker at (816) 261-4221 or write Human Resources Specialist Associated Electric Cooperative, Inc. Thomas Hill Energy Center Mining Division Route 1, Box 110 Clifton Hill, MO 65244-9778

J. M. B. LIBRARY



## How're you going to do it?

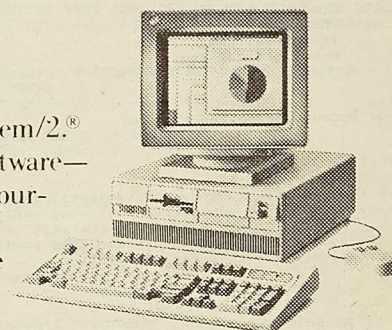


"My chem lab report is due Monday.  
My English lit. paper is due Tuesday.  
My economics paper is due on Wednesday.  
And the big game's tomorrow."

## PS/2 it!

### Now, super savings on PS/2's.

Be ready for this semester with the IBM Personal System/2.<sup>®</sup> Choose from five complete packages of hardware and software—all at special low student prices. What's more, when you purchase a PS/2,<sup>®</sup> you can get the exciting new PRODIGY<sup>®</sup> service at less than half the retail price.\* Strike while the prices are hot. Pick the PS/2 that's right for you.



	Model 25 8525-001	Model 30 286 8530-E21	Model 50 Z 8550-031	Model 55 SX 8555-061	Model 70 386 8570-E61
Memory	640Kb	1Mb	1Mb	2Mb	4Mb
Processor	8086 (8 MHz)	80286 (10 MHz)	80286 (10 MHz)	80386SX™ (16 MHz)	80386™ (16 MHz)
3.5" diskette drive	720Kb	1.44Mb	1.44Mb	1.44Mb	1.44Mb
Fixed disk drive	20Mb	20Mb	30Mb	60Mb	60Mb
Micro Channel™ architecture	—	—	Yes	Yes	Yes
Display	Monochrome	8513 Color	8513 Color	8513 Color	8513 Color
Mouse	Yes	Yes	Yes	Yes	Yes
Software	DOS 4.0 Microsoft® Windows/286 hDC Windows Express™	DOS 4.0 Microsoft Windows/286 Word 5.0* hDC Windows Express hDC Windows Manager™ hDC Windows Color™	DOS 4.0 Microsoft Windows/286 Word 5.0* Excel* hDC Windows Express hDC Windows Manager hDC Windows Color	DOS 4.0 Microsoft Windows/386 Word 5.0* Excel* hDC Windows Express hDC Windows Manager hDC Windows Color	DOS 4.0 Microsoft Windows/386 Word 5.0* Excel* hDC Windows Express hDC Windows Manager hDC Windows Color
Price	\$1,499	\$2,299	\$2,799	\$3,499	\$4,699

**IBM Printers** Proprinter™ III w/Cable (4201/003) **\$369**  
Proprinter X24E w/Cable (4207/002) **\$499**  
Proprinter XL24E w/Cable (4208/002) **\$669**

**Hurry Promotion ends  
October 31, 1989! Place order at 114  
Math-Computer Science**

\*Microsoft Word and Excel are the Academic Editions. This offer is limited to qualified students, faculty and staff who order an IBM PS/2 Model 8525-001, 8530-E21, 8550-031, 8555-061 or 8570-E61 on or before October 31, 1989. Prices quoted do not include sales tax, handling and/or processing charges. Check with your institution regarding these charges. Orders are subject to availability. IBM may withdraw the promotion at any time without written notice.

IBM, Personal System/2 and PS/2 are registered trademarks, and Proprinter and Micro Channel are trademarks, of International Business Machines Corporation. Microsoft is a registered trademark of Microsoft Corporation. PRODIGY is a registered trademark of Prodigy Services Company, a partnership of IBM and Sears. hDC Windows Express, hDC Windows Manager and hDC Windows Color are trademarks of hDC Computer Corporation. 80386SX and 80386 are trademarks of Intel Corporation. © IBM Corp. 1989.