



13 Mar 1991

## The Missouri Miner, March 13, 1991

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### Recommended Citation

"The Missouri Miner, March 13, 1991" (1991). *The Missouri Miner Newspaper*. 2575.  
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# Missouri Miner



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

March 13, 1991

Volume 79, Number 23

Twenty-four pages

## HAPPY ST. PAT'S!!



Saint Patrick, the patron saint of engineers.

Kevin Biggers



0-1000 02-11

## Iraq agrees to Allied terms

Gary Meyer  
STAFF WRITER

President George Bush closed the book on the Persian Gulf War after seven Iraqi generals signed an agreement to accept conditions for a permanent cease-fire, released all remaining prisoners of war, and formally annulled the annexation of Kuwait. The agreement also mandated dissemination of Iraqi information pertaining to land and sea mines placed throughout

### "This isn't a negotiation"-Schwartzkopf

Kuwait and off-shore areas and established "control measures" to prevent accidental clashes as Iraqi troops return home. The allied commanders assured Iraq that, in return, all coalition forces would withdraw from Iraq.

U.S. General H. Norman Schwartzkopf led the allied delegation at the signing which took place at an occupied air base three miles north of Kuwait. The general was terse in the summary of his purpose, "This isn't a negotiation. I'm here to tell them exactly what we expect of them."

The United Nations reaffirmed that Iraq must comply with all 12 prior resolutions levied against it and stated that the authority to use force remained until permanent terms for peace were established. The U.N. also upheld that Iraq would be responsible in principle for the atrocities perpetrated in Kuwait.

### Unrest in Iraq

At war's end, a series of uprisings began throughout southern Iraq. Protests against Saddam Hussein were

held as portraits and statues of him were defaced. Basra, Iraq's second

### "There are bodies all over the streets."

largest city, became overrun with soldiers returning from Kuwait who could be seen scavenging for food and water or turning their guns on citizens. Iranian news reported that the provincial governor of Basra was killed. In the north, Kurdish opposition groups claimed control over several cities in their homeland which was once a part of Turkey.

Reports from southern Iraq indicated that the fragmented Iraqi army has turned its guns on itself with some units fighting the Hussein regime, others defending it. Intelligence officers have been unable to decide which factions are on which side but say that it is too early to call the conflicts a civil war. An Egyptian refugee in Basra told reporters, "There are bodies all over the streets."

By the end of the week, unrest had spread to Baghdad where the official news media made a plea for unity. Some experts believe Saddam Hussein will be able to quell the unrest with members of the Republican Guard that remain loyal.

The possibility of a Shiite fundamentalist uprising remains as Shiite opposition figures returned to Iraq from exile in Iran. Iraq is divided between Sunni Muslims in the North, around Baghdad, and Shiite Muslims in the south. Shiite fundamentalists were responsible for the overthrow of Iran's government a decade ago when the Ayatollah Khomeini was instilled

into power.

### Troops returning home

American troops have begun returning home at a rate of 5000 per day with all troops returning within three to four months according to Secretary of Defense Dick Cheney.

President Bush, in a nationally televised speech to congress, said that troops will not be stationed on the Arabian Peninsula, but that U.S. participation in air and ground military exercises will be forthcoming as will a permanent naval contingent in the region. In addition, Mr. Bush called for a new effort to control "weapons of mass destruction and missiles used to launch them" and urged nations of the Mideast to avoid a new arms race. Meanwhile, a \$650 million aid package to Israel rode through congress on a \$47 war funding package and experts expect leniency on the U.S.'s newfound allies, primarily Saudi Arabia, regarding arms purchases.

### War in hindsight

With the wars end, stories and reports are emerging that detail the successes and problems of the American military arsenal. Many feel the war was won in the air with the use of precision guided smart bombs that destroyed Iraq's infrastructure. The stunning rout of Iraq's ground forces after the aerial bombing questions—in the minds of many—the conventional wisdom that says a war cannot be won by air power alone.

The one-sidedness of the war can be seen in numerous ways. AWACS airborne radar planes, J-Star ground targeting aircraft, and reconnaissance

See News, page 3

## Chancellor addresses recent on-campus racial harassment

Martin C. Jischke  
CHANCELLOR

The faculty, staff, administration and students of the University of Missouri-Rolla campus are committed to establishing and maintaining an environment of understanding, civility and tolerance of the diversity which exists here. Once in a while, persons will carry out what they may believe to be harmless pranks involving posting of racial slurs, or slogans of traditionally non-tolerant groups at locations on

campus. Such an incident occurred recently with the posting of a "KKK" sign on the door of the campus Affirmative Action Office.

Everyone needs to know that the campus community, and especially the administration at UMR, consider such actions neither harmless, nor mere pranks. Any action which results in the defacing of campus property, or involves the placing of notices or posters which fall in the category of harassment, will be investigated immediately, and dealt with promptly—up to

and including disciplinary action. This kind of intimidating activity is inconsistent with our educational mission and with the creation of a rich and inviting educational environment.

On a campus of higher education, debate and disagreement are the foundation of academic freedom—discrimination and harassment are not. We are absolutely committed to making every person who interacts with UMR in any way—as a student, visitor, faculty or staff member—feel not just welcome, but valued.



# Calendar of Events

## Wednesday

**St. Pat's Arrival** noon, 9th and Oak Streets, downtown Rolla.

**St. Pat's Follies:** town beard judging, novelty beard judging, men's shillagh contest, leprechaun look-a-like contest, and most St. Pat's sweatshirts on in one minute, 12:30 p.m., 9th and Oak Streets. Free.

**Chemical Engineering Seminar,** "Synthesis and Optimization of Reactor Networks and Reactor Separator Recycle Systems," Antonis Kokossis, Princeton University, 4 p.m., Room 125, Schrenk Hall. Free.

A specialist in environmental effects of the United States Energy Policy will speak at the Methodist Church in Rolla at 7 p.m.

**Bible Study Club,** 12:30 p.m.

**Wesley Lenton Prayer Time,** Walnut, 1:30 p.m.

**Wesley Mtg.,** 6 p.m.

**Newmann Mass,** 9 p.m.

## Thursday

**SPRING RECESS!!!!**

**IRC Dance,** Miner Rec

**Board of Curators meeting in St. Louis.**

**Juggling Club,** meeting at Multi-Purpose south balcony at 6 p.m. (Bring clubs, maces, silverware, checkbooks, or whatever else you think can be juggled.) As always beginners are welcome.

**Adult Children of Alcoholics (ACOA),** 1:45 p.m. in 201 Norwood Hall. Anonymous Fellowship.

**Film Series, ME,** 7 p.m.

## Friday

**SPRING RECESS!!!!**

**Board of Curators meeting in St. Louis.**

**St. Pat's Coronation and Knighting Ceremonies,** 9 p.m., Multi-Purpose Building. Free.

**IVCF Mtg.,** 139 Schrenk, 7 p.m.

## Saturday

**St. Pat's Parade** begins at 11 a.m. on Pine Street. Free.

**St. Pat's Concert** featuring REO SPEEDWAGON, 7 p.m. Bullman Multi-Purpose Building. Advance tickets (\$5 for UMR students — one ticket per valid UMR ID, and \$10 for the general public) are available from 9 a.m. to 3 p.m. weekdays through March 15, in the University Center-West by the entrance to the bookstore. Tickets may also be purchased by phone (314-341-4220), or by mailing a money order for the total amount of tickets (\$10 each ticket) with a self-addressed, stamped envelope to UMR's Student Union Board Office, 218 University Center-West, UMR, Rolla, Mo. 65401. Tickets also may be purchased at Woolf Music, Forum Video and Kip Sport in Rolla. In addition, tickets (\$10 for everyone) will be available at the door on the day of the performance.

**Chinese Student Assoc. Movie,** 7 p.m., G-3 Schrenk

## Sunday

**ST. PATRICK'S DAY!!!!!!**

**Wesley Chapel,** 7 p.m.

**Omega Sigma Mtg.,** 125 ChE, 8 p.m.

## Monday

**Christian Campus Fellowship,** Missouri, 6 p.m.

**GDI BOG,** Marmec, 7 p.m.

**Chemistry Department Seminar,** Dr. Warren Bush, Shell Development Company, Houston, Texas, 4:30 p.m., Monsanto Hall (G-3), Schrenk Hall. Topic to be announced. Free.

**Life Talks,** 7:45 p.m., 414 Holtmann. Sponsored by Koinonia.

**Alcoholics Anonymous (AA),** 7 p.m., Walnut Room, UCW.

**Nuclear Engineering Seminar,** topic to be announced, Jackie East, Savannah River Facility, South Carolina, 3:30 p.m., Room 227, Fulton Hall. Free.

## Tuesday

**Chemistry Seminar,** "Unusually Stable Enols of Acids and Amides," Dr. A. Frank Hegarty, University College Dublin, Ireland, 4:30 p.m., Monsanto Hall (G-3), Schrenk Hall. Free.

**SWE, UCE,** 5:30 p.m.

**Student Council Mtg.,** 103 Eng. Mgt., 6:30 p.m.

**Math Help Sessions,** 203 M-CS, 7 p.m.

**SAE Mtg.,** 104 ME, 7 p.m.

## Next Wednesday

**Bible Study Club,** 12:30 p.m.

**Wesley Lenton Prayer Time,** 1:30 p.m., Walnut

**Wesley Mtg.,** 6 p.m.

**Blue Key Mtg.,** 216 ME, 6 p.m.

**Sport Parachute Club,** 105 ME, 6:30 p.m.

**Amnesty Int.,** 114 CE, 7 p.m.

**SME Mtg.,** McNutt, 7:30 p.m.

**Amer. Found. Soc.,** 7:30 p.m.

**Alpha Chi Sigma,** G-3 Schrenk, 7:30 p.m.

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

**Sigma Xi Luncheon Meeting,** noon, Mark Twain Room, UCE, "Decontamination of Lead Waste from Super Fund Sites," Ann Withington, Bureau of Mines, Rolla Research Center. Bring your own lunch.

**Chemical Engineering Seminar,** topic to be announced, Alan Kao, Lehigh University, 4 p.m., Room 125, Schrenk Hall. Free.

**Geology and Geophysics Seminar,** "Scam Related Tin Deposits of Northern Portugal," Gary R. Lowell, Southeast Missouri State University, 4:30 p.m., Room 204, McNutt Hall. Free.

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

**Environmental Protection Advocates** will meet at 7:30 p.m., Room 201 Engineering Management Bldg. Everyone is invited to attend.

## Today

**CAP AND GOWN INFORMATION** Students receiving masters and bachelors degrees may purchase their cap and gown at the UMR Bookstore anytime after May 1. Masters and bachelors attire do not need to be ordered in advance.

Cap and gown orders for faculty, staff, and Ph.D. students will have a deadline of April 13th and may be picked up after May 1.

The UMR Bookstore will be open on Saturday May 11 from 10 a.m. to 4:30 p.m.

## Financial Aid

**NAVY ENGINEER** Each year the United States Navy selects approximately 300 of the top students in engineering, math, physics and chemistry from around the nation, for its highly prestigious Nuclear Propulsion Officer Candidate program. Minimum qualifications are:

- completed 2 semesters of calculus and calculus based physics
  - grade point average of 3.3 or better (3.0 for seniors)
  - U.S. Citizenship
- For more information contact the Student Financial Aid office, G-1 Parker Hall.

The Student Financial Aid office is available to give presentations on Financial Aid to any interested parties. For more information or to make arrangements, call 341-4282 or come by G-1 Parker Hall.

**SOCIETY OF PROFESSIONAL WELL LOG ANALYSTS FOUNDATION** The Society of Professional Well Log Analysts Foundation provides financial assistance to eligible and qualified recipients pursuing a degree program related to oil, gas or other mineral formation evaluation. Scholarships are available for undergraduate and graduate students and are awarded on a competitive basis which takes into account academic achievement, career objectives, and financial need. Grants are available to undergraduate and graduate students and to faculty members to support research studies and educational projects related to formation evaluation.

Deadline dates for submitting applications for SPWLA scholarships and grants are March 18, 1991.

For more information and application forms contact the Student Financial Aid office, G-1 Parker Hall.

**AMERICAN ELECTROPLATER AND SURFACE FINISHERS SOCIETY SCHOLARSHIP PROGRAMS** The American Electroplaters and Surface Finishers Society offers separate scholarships for university or college undergraduates and graduates who demonstrate that their training (or research) is related to plating and surface finishing technologies.

Eligibility for Undergraduate Scholarship Program:

A student may apply for any academic year when he or she will be an undergraduate of at least junior standing in a chemistry, chemical engineering, environmental engineering, metallurgy or material science program where the focus of the curriculum is in surface science subjects.

Eligibility for Graduate Scholarship Program: A student may be eligible if he or she has completed an accredited undergraduate program and is enrolled in a graduate program leading to a master's or Ph.D. degree.

Award selections will be based on, but not limited to: career interest in surface finishing, scholarship, achievement, motivation and potential. Awards are not necessarily based on financial need.

Application materials may be acquired in the Student Financial Aid office, G-1 Parker Hall. **Deadline is April 15, 1991.**

**The Coterie of Faculty Wives 91-92 Scholarship** The UMR Coterie is offering a \$1000 scholarship for the 91-92 year. Eligibility for selection will be the following:

- the recipient must be a female student at UMR.
- she must have completed 50% of the hours necessary for completion of her degree from UMR.
- She must be enrolled with a minimum of 9 hours in a degree program at the time of scholarship payment, and must show evidence of satisfactory progress toward that degree.
- she must demonstrate financial need.
- she must submit a written statement outlining her reasons for application to the Coterie Scholarship Committee.
- she must submit a written statement outlining her reasons for application to the Coterie Scholarship Committee.

- she must not be a member of the family of any UMR faculty, full time staff, or other personnel. (She may be an employee herself.)

Preference will be given to:

The women with added personal obligations (i.e. children, invalid dependence, physical disabilities, etc.)

The women who had her college education interrupted and is returning to complete her grad or undergraduate degree at UMR.

Grade point average will be taken into consideration.

Please send a letter of application explaining your qualifications to: COTERIE, P.O. Box 1638, Rolla, MO 65401

**Deadline is April 1, 1991.**

**Bright Flight Scholarship Checks** The Winter 91 "Bright Flight" checks are now available to be picked up or signed over at the Cashier's office, G-4 Parker Hall. Cashier's hours are from 8:30 to 3:00, M-F. **Students must be full-time enrolled to receive check.**

**Martin Luther King, Jr. Memorial Scholarship** Applications are now being accepted for the 1991-92 Martin Luther King, Jr. Memorial Scholarship. Applications must be currently enrolled UMR students who are pursuing a degree program in engineering or science. Selection will be based upon academic achievement and potential, leadership qualities, and financial need. Application forms are available at the Minority Engineering Program Office, 107 Norwood Hall and the Student Financial Aid Office, G-1 Parker Hall. **Application deadline is March 18, 1991.**

**THE HEAVY CONSTRUCTORS ASSOCIATION OF THE GREATER KANSAS CITY AREA** The Heavy Constructors Association of Greater Kansas City is making two scholarships available, each in the

amount of \$2,500 for students pursuing careers in construction sciences. Requirements are:

- Shall be full-time students who demonstrate financial aid.

- Preference given to well rounded persons who are upper classmen, to Kansas City area residents, and to sons or daughters of construction employees.

- Applicants will be required to demonstrate their commitment to obtaining careers in construction.

- Recipients will be required to seek summer employment in construction.

**Deadline: April 15, 1990**

Applications may be obtained in the Student Financial Aid office, G-1 Parker Hall. The application is to be turned in to the SFA office by April 15, 1990.

**THE RALPH J. BUNCHE HUMAN RIGHTS FELLOWSHIP PROGRAM, AMNESTY INTERNATIONAL USA** Since its inception in 1961, Amnesty International has been at the forefront of the international struggle for human rights. Basing its work on internationally recognized standards, the organization works impartially for the release of prisoners of conscience, fair and prompt trials for political prisoners, and an end to torture and executions. In the last decade, Amnesty International has become a worldwide movement attracting the support of over 1,100,000 members in more than 150 countries.

Applicants for the Ralph J. Bunche Human Rights Fellowship should be members of traditionally recognized American "minority" groups, including African, Arab, Asian, Latino and Native Americans. Most applicants are college or graduate-level students in varied academic fields.

**Application Deadline: March 15, 1991.**

**See Financial Aid, page 3**

## 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 Norwood Hall, Room 103) by 3:30 p.m. on the Thursday before publication. The **Missouri Miner** reserves the right to edit all submissions for style, grammar, punctuation, spelling, length, and matters of good taste.

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

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# News

satellites aided the allies by giving them nearly perfect communications and intelligence information. In contrast, Iraq pleaded with the Soviet Union to share satellite intelligence information—to no avail—and resorted to couriers to relay messages to some field commanders as many lines of communications were cut.

"And when there was a lull in the bombardment, we felt lucky and went out only to find a place to bury our fellows who were killed."-Iraqi soldier

Also, conditions in the trenches serve as stark comparison for what life must have been like for the troops of the disparate militaries. While some Iraqi units were dependent on rain water to drink and began to consume grass, American troops enjoyed fresh fruits provided daily.

Despite the military romp, analysts have identified several areas of improvement in the American military. Foremost is the lack of mobility to remote spots throughout the world. Although the U.S. was able to amass 500,000 troops in five months, transportation capabilities were pressed to their limit. Some of the ships in the Ready Reserve suffered mechanical problems causing the U.S. to charter foreign ships to meet needs. Another problem—certainly one that causes this war to stand out—is that allied forces killed

more of their own troops than the enemy did. By the time of the attack on Iraq's Republican Guard, allied tanks were proceeding with orange flourescent sheets to identify them as friendly and avoid gunfire from attacking aircraft.

## Focus turns to Israel

"The time has come to put an end to the Arab-Israeli conflict."-President Bush

As President Bush closed the books on the Persian Gulf War he signaled that he will try to persuade Arab states to formally recognize and make peace with Israel, while at the same time pursuing solutions to the conflict over Israeli-occupied lands in the West Bank and Gaza Strip. He said the new drive for peace would be based on a mutual agreement in which Israel would grant territory to Palestinians in return for Arab recognition of Israel's right to exist.

Secretary of State James Baker offered to meet with Palestinians this week during a trip to Israel. However, the offer probably does not extend to members of the Palestine Liberation Organization since the United States broke off dialogue with the PLO after its leader, Yasser Arafat, refused to condemn a Palestinian terrorist attack against Israel last year. More recently, relations with the PLO have suffered further as Palestinians have visibly supported Iraq and cheered as Scuds were launched into Israel.



Israel was created in 1948 when the United Nations split Palestine in two to create a homeland for Jews—an act not yet recognized by Arab states. With substantial support from Western nations, Israel rapidly modernized and

expanded its military capabilities. In wars in 1967 and 1973 Israel assumed control of the Palestinian areas of the West Bank and Gaza Strip and pushed outward into the Golan Heights area of Syria. Since then, the PLO has at-

tempted to draw recognition to its plight by turning to terrorism including airline hijackings and the massacre of Israeli athletes at the 1972 Munich olympics.

Compiled from the Wall Street Journal

## Milling process could save billions

News Services  
SOURCE

An innovative way to use high pressure lubricoolant waterjets to mill titanium and its alloys could save the United States billions of dollars in energy consumption, according to a University of Missouri-Rolla associate professor of mining engineering.

"Metal machining, one of the most basic and universal of all manufacturing processes, has lately been required to deal with increasingly tougher materials such as titanium and its alloys," says Dr. Marian Mazurkiewicz, who also is a senior research investigator in UMR's Rock Mechanics and Explosives Research Center.

According to Mazurkiewicz, the American Society of Mining Engineers (ASME) Research Committee on Lubrication recently studied the role of tribology (the science of friction), in energy conservation.

"It concluded that 5.5 percent of U.S. energy consumption is used in primary metals and metal processing industries," Mazurkiewicz says. "They reported that in 1980, for example, the energy used was 1.8 percent of the nation's total annual energy consumption, at a cost of about \$21.5 billion."

Mazurkiewicz explains that in the machining of titanium and its alloys, a significant amount of heat is generated as a result of rubbing of the cutting tool and the machined surface.

most up-to-date materials," Mazurkiewicz says. "One benefit of this research is the application of this idea to high speed machining in the aircraft frame industry."

He continues that during most cutting conditions a seizure effect exists at the tool/chip interface, which requires the use of a liquid for cooling and lubrication.

"The problem becomes even more complicated and difficult to resolve during the machining of titanium and its alloys," Mazurkiewicz says.

"Titanium reacts rapidly at high temperatures with oxygen nitrogen and materials in the cutting tool itself.

He indicates that thin titanium chips cause higher sliding velocities and small tool/chip contact areas. Titanium does not conduct heat well, which causes high thermal stresses.

"These conditions, in conjunction with the relatively high strength of titanium, produce high temperatures at the tool tip," Mazurkiewicz says.

He indicates "Slender titanium parts are also more likely to become distorted due to clamping and machining forces than are slender steel parts."

Mazurkiewicz explains that current techniques of cooling and lubricating with low pressure cutting fluid do not have the power or position required to penetrate into the contact cutting area and therefore, do not allow the cutting tool to slide easily.

See Process, page 4

## Financial Aid

from page 2

year (Fall 1991 and Winter 1992) are available for students in the foyer outside the Student Financial Aid Office (G-1 Parker Hall). This form must be completed in order for a student to be considered for a Pell Grant, College Work Study, Perkins Loan, University Loans, Missouri Grants, the Stafford Student Loan Program, The Income Contingent Loan program and for the PLUS/SLN Loan Program for the 1991-92 academic year. First consideration will be given to those students whose ACT-FFS is received by the processing agency by March 31, 1991.

**ORVILLE REDENBACHER'S SECOND START SCHOLARSHIP PROGRAM** Twelve \$1000 scholarships will be made available to qualifying students for the 1991-92 school year under this program. To be eligible for the Orville Redenbacher Second Start Scholarship, students must meet the following criteria:

- be 30 years of older
- be enrolled in a degree program
- be either full-time or part-time students; and
- attend an accredited college or university

Application Deadline: May 1, 1991.  
For more application materials, contact the Student Financial Aid office, G-1 Parker Hall.

**INTEREST FREE LOANS FROM THE SCHOLARSHIP FOUNDATION OF ST. LOUIS** Qualified applicants who can demonstrate financial need will be considered for an interest-free loan. Applicants must be citizens of the United States or in possession of an Alien Registration Card and permanent residents of St. Louis, St. Louis County, or the Fox C-6, Francis Howell, Orchard Farm or St. Charles school districts. Interest-free loans are awarded in amounts up to \$3,000 per year. For more information and applications, contact the Student Financial Aid Office, G-1 Parker Hall.

Application Deadline is: April 15, 1991.

**COUNCIL ON PUBLIC HIGHER EDUCATION FOR MISSOURI** COPHE will provide \$1000 scholarships to 10 outstanding students from the state's public four-year colleges and uni-

versities who are completing undergraduate preparation for careers as mathematics, biology, chemistry, physics and foreign language teachers at the elementary and secondary levels. Students currently in their third year of college and intending to become mathematics, science or foreign language teachers are encouraged to apply. They must have a minimum of 75 college credits.

For more information and application materials contact the Student Financial Aid office, G-1 Parker Hall.

**NATIONAL ASSOCIATION OF WOMEN IN CONSTRUCTION ST. LOUIS CHAPTER** The St. Louis, Missouri Chapter of the National Association of Women in construction awards several stipends each

year to young women and men pursuing degrees from universities and vocational colleges in fields related to the construction industry. Applications must be postmarked no later than April 15, 1991 to be considered.

Please note that the scholarship does not apply to first year students.

To receive an application, contact the Student Financial Aid Office, G-1 Parker Hall.

**1991-92 ACT/FFS Available** The ACT Family Financial Statements for the 1991-92 academic

For more information and applications, contact the Student Financial Aid Office, G-1 Parker Hall.

Application Deadline: May 10, 1991.

**Sigma Phi Epsilon**

**K-SHE CLASSIC**

BAND

**Friday, March 15**

**8:00 pm**



## Process

from page 3

"Under typical cutting conditions the tool/chip interface is also completely sealed, and there is little chance to improve cutting by conventional lubricating methods," Mazurkiewicz says.

He explains that these cutting conditions limit tool life, restrict material removal rates, limit the resulting quality of the surface finish, and can lead to the creating of a hot ribbon-type chip, all of which are matters of serious industrial concern.

Mazurkiewicz says that these problems have existed since machine tools were first used for machining metal. Until now, little practical progress has been achieved in the reduction of friction on the tool/chip interface.

"Most efforts to date have been directed at developing a tool which could withstand the high temperatures and bearing pressure present," Mazurkiewicz explains.

"The use of coated and uncoated carbide inserts and the introduction of ceramic tools are only partial answers to this continuing problem," he says.

Mazurkiewicz explains that an effective heat extraction system, which eliminates seizure and creates the sliding effect along the tool/chip interface, has been developed at UMR's Rock Mechanics and Explosives Research Center. The research project is being supported by funding from the U.S. Department of Energy (DOE).

"The desired objective was achieved by the injection of a high pressure water jet into the tool/chip interface," Mazurkiewicz says.

"Because of its ability to penetrate all gaps and discontinuities, the results achieved were outstanding," he adds.

Mazurkiewicz explains that the small diameter water jet enables accurate targeting at the tool/chip interface, thus creating a selective cooling effect.

The faculty, staff, and graduate student research team will be able to evaluate the possibility of increased cutting speeds for titanium and its selected alloys above conventional levels with this new approach.

## Environmental engineering career provides opportunities

### News Services SOURCE

The opportunity to work in a "challenging and dynamic" area prompted Nicole Pagano, a University of Missouri-Rolla student, to pursue a career in the environmental field.

Pagano, a senior in geological engineering from Rolla, plans to work in waste site remediation after she graduates. She hopes to gain hands-on experience this summer as an intern at a hazardous waste site.

"Waste site remediation involves cleaning up an area which the government has determined contains hazardous wastes," explains Pagano. "The government or responsible party will hire a consulting company which will conduct a remedial investigation and feasibility study to determine how to dispose of the wastes."

In addition to disposing of hazardous wastes, environmental professionals are needed to monitor and prevent the pollution of water supplies and characterize the effects that landfills or hazardous waste sites might have on an area, says Dr. David J. Barr, professor and chairman of geological and petroleum engineering at UMR.

"There is much to be accomplished in these areas and the demand for environmental professionals shows no signs of diminishing," he says.

"The department receives more than 100 inquiries during the year from companies wanting to hire geological engineering graduates who have the educational background necessary to work in environmental engineering," continues Barr.

He describes opportunities for women pursuing careers in environmental areas as outstanding.

Kathy Duckett, a 1986 UMR graduate, agrees. "Environmental engineering is not a field that discriminates between men and women," says Duckett, who received bachelor's and master's degrees in geological engineering from UMR.

Duckett began working at John Mathes and Associates in Columbia, Ill., after she graduated. "At that time, John Mathes and Associates was a small, private consulting company with one office and a growing environmental department," she explains.

"Four and a half year later, it is a nationally recognized consulting company with five offices and a large, integrated environmental division."

She began her career as an entry level hydrogeologist and geological engineer. "My responsibilities included assisting project managers with analyzing data, writing reports and preparing proposals," she says. "I also did a lot of field work installing wells and collecting soil and groundwater samples at hazardous waste sites."

"After about six months, I began managing some small projects and learning the various project management duties," she continues.

She now has a variety of responsibilities including group leader for several hydrogeologists.

"I also am a project manager for large-scale projects, such as remedial investigations and feasibility studies for hazardous waste sites on the national priorities list," Duckett says. In addition, she is responsible for several groundwater investigation and remediation projects.

Duckett adds that the environmental field provides opportunities for

professional and personal growth. "I enjoy being a part of something that is helping increase peoples' awareness of the importance of our environment," she says.

Increased public concern for protecting and preserving the environment and laws such as the Superfund legislation, which deals with the characterization and cleanup of hazardous waste sites, have spurred the demand for environmental professionals, says Barr.

Several publications have pointed out the need for environmental engineers.

"U.S. News and World Report's 1991 career guide issue includes engineering among the top 20 best jobs for the future and environmental engineering as being on the 'hot track,'" continues Barr. The article says that "As environmental laws tighten, demand for engineers with expertise in such problems as toxic-waste disposal will heat up further."

He adds that on Oct. 9, 1990, article in the Wall Street Journal reports that environmental professionals will be in demand even as the economy weakens. The article quotes the owner of an

environmental economics research firm who says that companies in such businesses as trash disposal, water treatment and air-pollution control tend to resist economic downturns "because their revenues are based on government regulations rather than discretionary spending."

"UMR graduates with bachelor's degrees are receiving as many job offers as those with master's degrees," says Barr. "Graduates who receive Ph.D. degrees are often employed by universities or in research laboratories. Several UMR students with Ph.D. degrees have formed their own environmental consulting companies."

Pagano says she became interested in the environmental field after studying basic geological engineering courses at UMR. "I took a course in the 'Geological Aspects of Hazardous Waste Management' and really liked it," she says.

Since then she has enrolled in an advanced course in hazardous waste management and the Occupational Safety and Health Administration (OSHA) course offered through the geological engineering department.

## EIT Review Sessions Schedule

Room	Time	Date	Instructor	Topic
H-SS G-5	7:00pm	2/26	Dr. Munger (CE)	Eng. Economics
CE 117	7:00	3/5	Dr. Cunningham (EE)	Elec. Circuits
CE 117	7:00	3/21	Dr. White (Bas. E.)	Statics & Dynamics
CE 114	7:00	3/26	Dr. Herring (Math)	Mathematics
CE 114	7:00	3/28	Dr. Morris (CE)	Fluid Mechanics
H-SS G-5	7:00	4/9	Dr. Sheffield (ME)	Thermodynamics
CE 117	7:00	4/11	??	Mech. of Materials

EIT Exam - Saturday, April 13, 1991

Review session handouts will be available at the review sessions.

Those taking the EIT are encouraged to attend these review sessions.

They should be very beneficial.

Organized by the American Society of Civil Engineers Student Chapter & Chi Epsilon

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# Comments

## Have we come to expect the worst ...(in) race relations?

The Forum Syndicate  
Making of Reverend Al by Joey Merrill

Today, most blacks and whites are surprised at what is considered black leadership in America. There seems to be very little which one has to do in order to reap a certain amount of kudos from portions of the black community today. Of course, these portions of the black community claim to speak for the entire black community, and the media believes them. A case in point is Reverend Al Sharpton of New York.

In the era of civil rights, the black leader promoted Christian behavior and unity with the black community in order to promote changes which would provide equality for blacks. Today, a black leader's image may easily become associated with fraud, tax evasion, looting charity, drug abuse, defamation and secret tapes—as in the case of Sharpton. The clarity of purpose seems to have been smeared a bit, to the point that Sharpton can claim to be a victim of some sort of elaborate conspiracy aimed at besmirching "leaders" like him.

Wilbert Tatum, publisher of the Amsterdam News, a black New York newspaper, offered this theory about the new black leadership: "(the media) has created a caricature of black leadership. He was fat. He wore jogging suits. He wore a medalion and gold chain. And the unforgivable of unforgivables, he had processed hair. The white media, perhaps not consciously said, 'We're going to promote this guy because we can point up the ridiculousness and paucity of black leadership.'"

It is possible that the media is to blame for the attention which Al Sharpton has received. It is also possible that all the individuals (black and white) who listened to and believed Al Sharpton's message are to blame. The real question at hand is: Have we (black and white) come to expect the worst in regards to race relations?

The editorial boards of the North New Jersey Herald and the News of Passaic, New Jersey, mad a decisive and risky move in deciding to no longer report stories associated with Al Sharpton. The boards believed that the media was giving

Sharpton the attention he desired. To be more clear, it was not that the papers did not want to cover news important to the black community; very simply they did not want to help, as the papers put it, "a reverend of racism and a minister of hate."

The time has come to stop paying homage to individuals who claim that they represent the black community and yet do not live up to solid values. One ought to become a leader of any community only through merit and good works, not through media-assisted self-appointment. Sharpton's record is hardly one of concrete accomplishments. The Washington Post reported in March of 1990 that Sharpton's organization, the National Youth Movement, has never been anything more than a single room with a telephone and a transient staff. Of course, having a small office does not condemn an organization, but never recording any solid accomplishments does. No one has been able to point to anything actually produced by Sharpton's organization.

If an organization can be manipulated for the purposes of opportunism by such a leader,

then surely so can the color of his skin. No longer are individuals allowed the luxury of supporting a "leader" simply through allegiance to skin color. When whites do this, it is called racism (e.g. the Ku Klux Klan). Many blacks have found themselves following anyone proclaiming himself a "black leader," with the emphasis on "black," as a result of a solely race-based consciousness.

The good news is that there is opportunity for changing this demagogic, harmful trend in race relations. The Daily News polled whites and blacks in New York at the height of Sharpton's heyday and discovered that the majority of the public believed the Sharpton was damaging race relations. It is clear that 90% of whites and 73% of blacks in New York believe that the time for the likes of Al Sharpton has passed. Perhaps this awareness resulted from their having to feel the wrath of numerous racially motivated incidents and violent demonstrations which occurred during Sharpton's media reign.

Another positive signal, weak as it may be, is coming

from the existing black leadership. Fact: only two black leaders have dared to even speak about Al Sharpton. After all, Sharpton puts most black leaders in an awkward position, having to show allegiance to the "fight against racism" while also working within the mainstream political system. Mayor David Dinkins of New York, after being called a "liberal hypocrite" by Sharpton, tried to defend himself, telling New Yorkers that Sharpton's best assets is making "good copy." Congressman Major Owens (D-NY) also supports this sentiment, referring to the reverend as a opportunist who sells papers.

Perhaps the result of the poll in New York and the signals form the elected black leadership offer hope for the future. The question is, how many other communities will have to experience what New York went through in order to understand that not all self-professed "black leaders" are true black leadership? The answer to this question can only come from the black community's response to such "leaders."

## Lambda Sigma Pi explained by member

Dear Editor,

I am a member of Lambda Sigma Pi. There seems to be some controversy over exactly what we are. Well, I'd like to clear everything up right now.

Everyone is aware of the ratio on campus. Well, believe it or not, the women on this campus are aware of it, too. Lambda Sigma Pi is a way for the women on the UMR campus to get to know each other in a completely neutral zone. When we are all together, we are no longer grouped by sororities, or as being independent—yes, we have girls not in sororities—but instead, as one group. Very close friendships have formed through this organization that wouldn't have formed otherwise.

This also gives women on campus a chance to do something worthwhile for those less fortunate than us. Our projects have been very successful, and we are all very proud of what we are accomplishing. Members of Lambda Sigma Pi are very serious about keeping this organization going. We are not modeling ourselves after anyone and hope to give women on this campus opportunity to get more involved. We hope that the closed minded males and females will become aware of what Lambda Sigma Pi really represents and give us a chance. In the meantime, we will continue to serve the community and do all we can to restore a little of the hopes and dreams that so many people lack in this day and age. Since when is being charitable a bad thing?

Sincerely,

A proud member of Lambda Sigma Pi




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For more information call 314-341-4220

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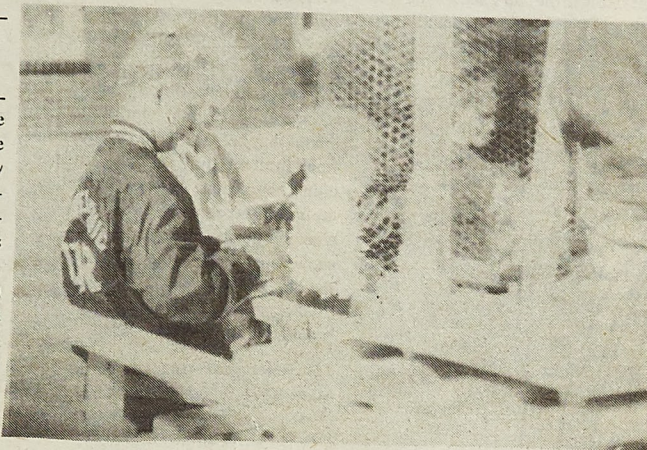


# Features

## St. Pat's, the festivities have begun Time to sign up for the Walk

By Matt Tobey  
STAFF WRITER

Snake Invasion is over. Follies are complete. Its time to think about some serious partying! Gonzo is tomorrow and besides featuring the K-SHE Classics Band, having no-worry transportation, and being the party of the year, its also one the last times to get your 1991 St. Pat's Green. Green will also be on sale at the Games and at the parade, but don't wait because they might be gone before then! If you haven't gotten your Gonzo an Games button they will be on sale at any of the bus pick-up locations for \$4. Just remember glass bottles and kegs aren't allowed at Lion's Club and bus usage is mandatory, so have a great time, but party smart.



Brett Goodman

Members of Chi Omega work to get their float finished in time for Saturday's parade.

Busses will leave for Lion's Club Park on Thursday and Friday at 11:30 form the Quadrangle, Fraternity Row, and the E.E. building. Tomorrow at Gonzo, the volleyball tournament will begin at 12:15 and at 2:00 the sexy legs contest will begin. The K-SHE Classics band will play until 3:30 and the cudgel carry will begin at 4:00. The Games will begin at 12:00 with the first event beginning at 12:30. KMNK will

be DJ-ing all day. Friday evening marks the Coronation Ceremony starting at 9:00.

The 1991 St. Pat's Celebration ends with a bang this Saturday. The traditional St. Pat's Parade begins down the green streets of Rolla at 11:00. Following the parade is the "Best Ever: Alice ceremony starting at 2:30 at the football fields. Then, courtesy of SUB and the St. Pat's Board,

REO Speedwagon will play for the colossal St. Pat's Finale Concert. The Concert will be held at the Multi-Pur-

pose Building at 7:00 and tickets may still be available.

So don't forget to buy your Green, get a Gonzo button, and REO Speedwagon ticket, and something cook to drink because St. Pat's is here and it's going to blow you away!

IFC/Blue Key  
SOURCE

The Super Cities Walk to help find a cure for Multiple Sclerosis is less than a month away, so now is the time to register and get sponsors. Just fill out the form printed in this week's Miner

and send it to: National Multiple Sclerosis Society, St. Louis Area Chapter, 915 Olive - Suite 310, St. Louis, MO 63101. Then, get your sponsors. Be sure to get their name, address, and pledge per kilometer on donation. If you have questions about the event, call Matt Roos at 364-8575 or Jeff Zawila at 364-1433.

## Registration form

1991 SUPER CITIES WALK<sup>SM</sup> Registration Form  
Please affix mailing label, with any corrections. Complete form (please print) and return.

Name \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Phone: Home \_\_\_\_\_ Work \_\_\_\_\_

My Route Location is \_\_\_\_\_

School or Employer \_\_\_\_\_

T-shirt Size: Adult: M L XL XXL Child: L

My fundraising goal is \$ \_\_\_\_\_ Age \_\_\_\_\_ Sex: M F

Challenge Team Name: \_\_\_\_\_

Team Captain: \_\_\_\_\_

**Waiver:** I hereby waive all claims against the National Multiple Sclerosis Society, sponsors or any personnel for any injury I might suffer in this event. I attest that I am physically fit and prepared for this event. I grant full permission for organizers to use photographs of me and quotations from me in legitimate accounts and promotions of this event.

Signature X \_\_\_\_\_

Parent or guardian's signature if less than 18 years of age: \_\_\_\_\_

- ☐ Send me more brochures & a poster - I'll put them up at work.
- ☐ I'm unable to walk but would like to volunteer.
- ☐ I will mention the SUPER CITIES WALK<sup>SM</sup> in my corporate newsletter, please send me a press release.
- ☐ I am unable to walk, but please accept my check for \$ \_\_\_\_\_ (please enclose)
- ☐ I have MS and would like to know more about the NMSS.
- ☐ I don't have MS, but am interested in the NMSS. Please send me more information.
- ☐ I am walking on behalf of someone who has MS.
- ☐ I'm a SUPER CITIES WALK<sup>SM</sup> Veteran. I walked in '89 '90
- ☐ My company has a matching gifts program.

Where did you hear about the SUPER CITIES WALK<sup>SM</sup>?

- ☐ Radio ☐ Health Club
- ☐ TV Station ☐ Club or Organization
- ☐ Friend/Co-worker ☐ Place of Employment
- ☐ School ☐ Mail
- ☐ Convenience Store
- ☐ Shoe Store (please indicate) \_\_\_\_\_
- ☐ Other (please indicate) \_\_\_\_\_

## Ozark novelist to give reading of latest book

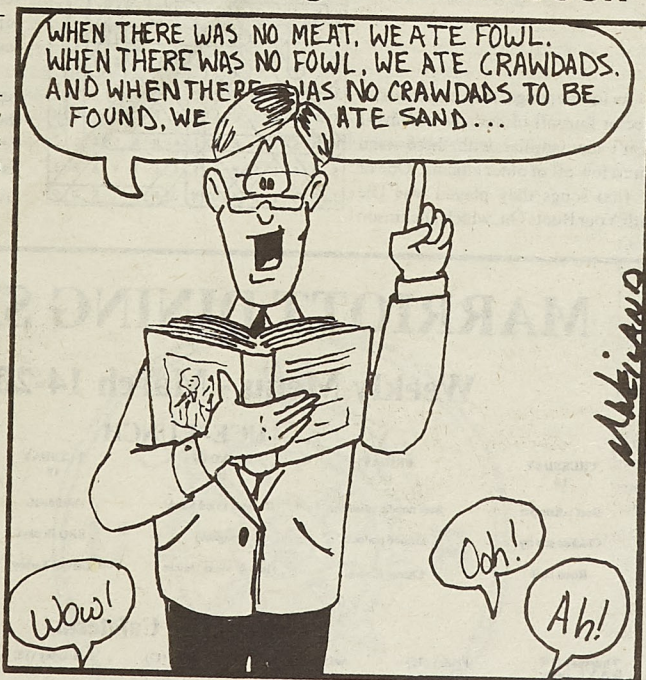
English Department  
SOURCE

Donald Harington, whose many novels detail life in the Arkansas Ozarks, will be a Visiting Professor in English at the University of Missouri-Rolla.

While on campus, Harington will give a reading from his newest novel, The Choring of Trees at 7:00 p.m. in G-5 of the Humanities-Social Science Building.

Publisher's Weekly describes Harington's new novel as "an intense, lyrical, moving story—based on fact—of an unjustly convicted criminal and the woman who saved his life. Harington makes of it a dramatic, engrossing narrative with melodramatic pace of a cliffhanger the tenderness of a pastoral romance, and the power of a documentary-like descriptions of brutal prison conditions in Arkansas in the early 1900's." The Choring of Trees, published by Harcourt Brace Jovanovich, will be available in bookstores April 15.

In addition to his reading, Harington will also meet informally with students, faculty, and the public on Tuesday, March 19 from 3:30 to 4:30 p.m. in 201 Humanities-Social Science Building.



Harington's most recent novel, The Cockroaches of Stay More, has been described by The New York Times as "truly captivating; and by the Washington Post Book World as "surprising and funny." His non-fiction work, Let Us Build a City, which examines the dreams and the ambitions of the resi-

dents of 11 small towns in Arkansas, won the Porter Prize for literary excellence and was featured on a segment of ABC-television's "Good Morning, America."

Both the informal meeting with Harington and his reading are free and open to the public.



# A review of the recent Iron Maiden/Anthrax concert

By James Barnes  
STAFF WRITER

This concert was well worth the \$21 I spent on the ticket—the ticket actually says \$18 because the ticket ordering place has to add three dollars for something or other. Everything was perfect at the concert: the bands were good, the sound was great, and the place was absolutely fascinating. Before the concert I was thinking the Fox Theater would be some small crappy place to see Iron Maiden, but after witnessing the concert, I would prefer to see all the bands I like there. The walls are covered with all kinds of totem pole faces and Indian looking art. On either side of the stage there are large statues sitting in meditation. The figures are sunken into the wall, and are each dimly lit giving them an eerie look. There are large stained glass windows at the top of each side, and huge columns line the walls below. The place gives you an almost temple-like feeling. We got there a little bit early, but it didn't seem like we waited long until Anthrax came out.

Anthrax's stage set consisted of a huge styrofoam clock complete with arms that spun around really fast. The same clock is pictured on their new album "The Persistence of Time." The rhythm guitar player, Scott Ian, was the most active of the band. As soon as they came out, he was thrashing—some distorted chicken stomp mosh—all over the stage. They played a few songs off of their last couple of albums, and then climaxed with an extremely uncensored version of I am the Man. After they quit, it was interesting to watch a bunch of middle aged men dismantle and remove the clock.

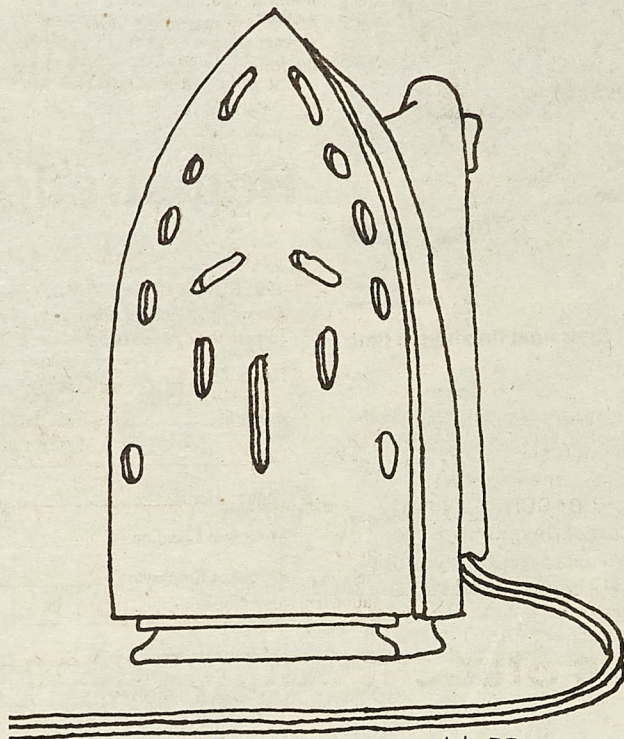
Iron Maiden came out after a five minute classical music introduction. The first thing about them that I noticed

was their new guitar player, Jannick Gers. Adrian Smith, the replaced guitar player is currently making a solo album. The new player, Gers, can be heard on the new Iron Maiden album "No Prayer for the Dying," or on Bruce

the drummer, ran around the stage a lot too. Between songs Bruce Dickinson seemed to double as a stand up comedian, telling stories of this and that. He was talking to the audience as if he were talking to one person in a small room.

cordially dedicated to Saddam Hussein; this was greeted with wild applause from the crowd, I might add. The album they played the most songs off of was "Number of the Beast," six, including an incredible version of Children of the Damned. The only really old songs they played were Wrathchild and Iron Maiden. I thought the stage show would include more surprises than it did, but taking into account the small theater setting I can see why they didn't have a huge stage show. Behind the drums there was a huge tapestry that changed during different parts of the show. Each had a different and disturbing picture of "Eddie," the band's official mascot-monster on it. At one point, a twenty foot "Eddie" robot came out on the stage wearing an Iron Maiden t-shirt and blue jeans. The guy next to me was really wondering where they got a pair of jeans that big.

The band played for awhile, and then came back out for three encores. The second encore was the song Number of the Beast which sent the fans into a wild frenzy. They probably could have played more stuff, but what they did play was worth paying \$21 to see. The experience; bands, music, and environment was extraordinary. I would recommend this band live to everybody.



Dickinson's—the singer—solo project called "Tattooed Millionaire." Gers ran around the stage quite a bit, and sometimes at the end of the songs he could be seen throwing his guitar up in the air. The rest of the band, except for

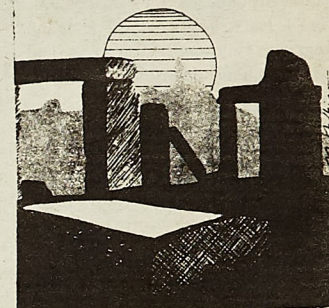
As for the songs, they played about three or four off of the new album—I wasn't too familiar with these—and quite a few off of older albums. One of the first songs they played was Die With Your Boots On, which Dickinson

## Spring Equinox can be observed at Stonehenge replica

News Services  
SOURCE

The Spring Equinox (when the sun crosses the equator) is Wednesday, March 20, and the equinoctial sunrise and sunset may be viewed at the University of Missouri-Rolla's replica of Stonehenge.

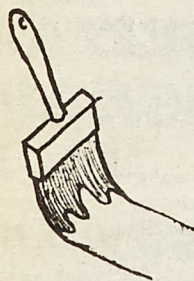
Dr. Joseph H. Senne, UMR professor emeritus of civil engineering who made the astronomical calculations for UMR Stonehenge, said that the equinoctial sunrise will be at 6:11 a.m. and sunset at 6:18 p.m. The official time for the equinox is 9:02 p.m.



"Viewers should stand over the UMR Stonehenge marker and sight above the notch on the east compass stone to observe the sunrise and sight over the notch on the west compass to watch the sunset," Senne said. "Because of buildings to the east of the monument, the sunrise will be observed a few minutes later than the official time of 6:11 a.m. and will be a few degrees south."

UMR's Stonehenge is a partial replica of England's Stonehenge. Like the original, it may be used to observe certain astronomical alignments, such as equinoctial summer and winter solstice sunrises and sunsets.

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## MARRIOTT DINING SERVICE

### Weekly Menu - March 14-20, 1991

#### UCE- LUNCH

THURSDAY 14	FRIDAY 15	MONDAY 18	TUESDAY 19	WEDNESDAY 20
Beef potato pie	Beef noodle casserole	Country Fried Steak	Meatloaf	Oven browned Chicken
Chicken stir fry	Grilled pollock	Spaghetti	BBQ Brisket	Liver & Onion
Roast beef	Cheese Ravioli	Ham & Swiss Quiche	Carved Turkey	Meatball Sandwich

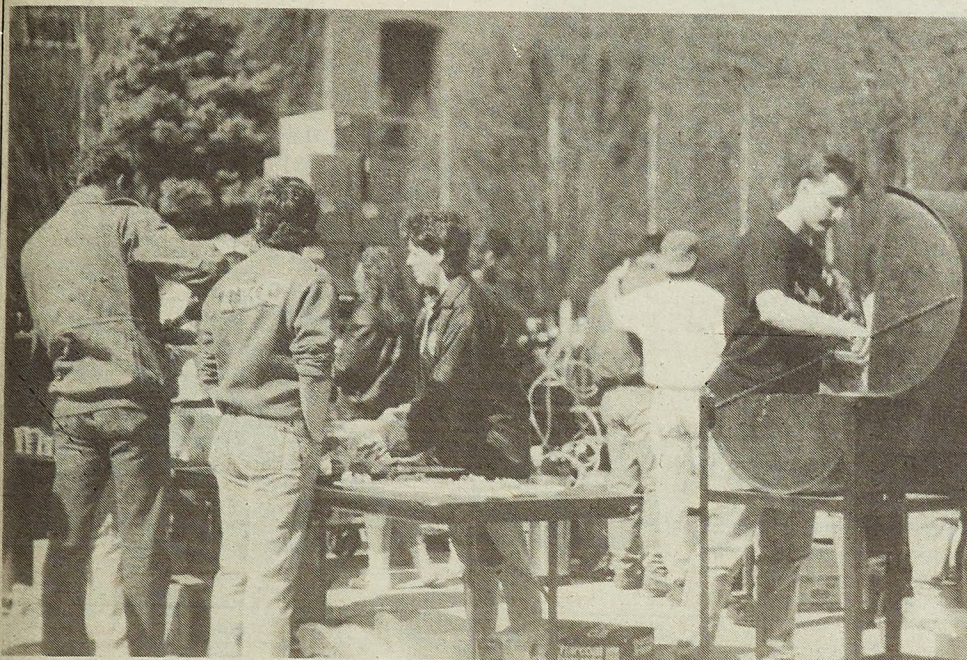
#### Rayl and TJ Cafeteria

Thursday (14) RAYL only	Friday (15) TJ only	Saturday (16)	Sunday (17)	Monday (18)	Tuesday (19)	Wednesday (20)
LUNCH:						
Hot Beef Sandwich Variety of Omelettes	Grilled Ham & Cheese Grilled Cheese Macaroni & Cheese			Hot dogs Chicken Noodle Casserole Chef Salad	Pita Sandwich Spanish Macaroni Cheese Omelettes	Fishwich Beef Noodle Casserole Egg Foo Young
DINNER:						
Pizza Food	Tacos Enchiladas			Chicken Supreme Spaghetti Beef & Sausage Turnover	Chicken Fried Steak Tacos BBQ Sausage	Hot Beef Sandwich Beef Stir Fry Liver and Onions



# UMR students host first Foodfest

## Angel Flight looking for interested new members



Brett Goodman

Last Wednesday eight student organizations sponsored a "Pre-St. Pat's Foodfest." The event featured a barbecue and mocktail contest. The organizations which provided the event were: Student Council, RHA, TJHA, SUB, St. Pat's Board, IFC, Panhellenic and BACCHUS. Also assisting with the program were Dr. Camille Consovo, Counseling and Career Development, and Mark Potrafka, Greek Life Advisor.

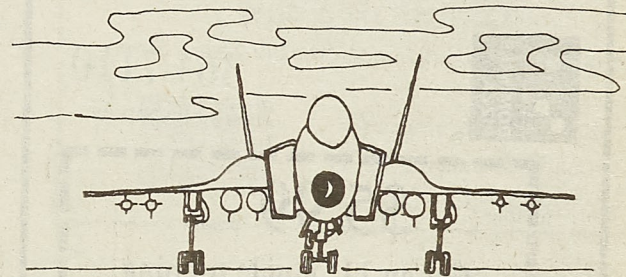
### Silver Wings SOURCE

There may not be any "gold in them there hills," but there is a giant "Silver Rush" about to occur on the campus of UM Rolla — a Silver Wings/Angel Flight Rush that is! The new Silver Wings organization is currently "digging" for new members who are interested in becoming part of a national, service-oriented organization. An exciting Rush party will be held Tuesday, March 19 at 6:30 p.m. in the H-SS Building, Room 104 with "vittles" (refreshments) being provided.

viding service to the Campus, Community and the AFROTC Cadet Corps (but we are NOT members of AFROTC). Our most successful projects have been the Rock-A-Thon for Alzheimer's Disease and our participation

School of Rolla is another of our rewarding activities.

Silver Wings is a great group of guys and gals dedicated to helping those around them and having a fun time doing it. If you are looking for a group that can provide lasting friendships and purposeful activities, then join in the "Silver Rush" and make a fortune in friends and fun.



Silver Wings is a reformation of the UMR Angel Flight but is established on the same guidelines and purposes of the National Angel Flight. We are a national organization dedicated to pro-

in Walk-America. We have been recognized regionally for our accomplishments in these projects and also for our dedication to protecting the environment. Visiting the Cerebral Palsy

## Minutes concerning last week's Student Council general meeting

### Student Council SOURCE

After the approval of the minutes from the previous meeting, Dave Dearth, Director of Computing Services, spoke briefly to outline the goals and operations of his department. The Computing Services Department, in addition to operating the mainframe systems on campus, helps students and faculty alike in the use of computer systems from the mainframe down to the installation of desktop PC's. They also oversee the Computer Learning Centers on campus and, as Mr. Dearth pointed out, plan to continue upgrades and improvements of the CLC's.

The President of Student Council cited a recent survey and walk-around conducted on campus to rate on-campus lighting in his report. He says that the lighting situation, a key in on-campus security during the nighttime hours, has improved since recommendations for improvements were made last year. As of now, most places on campus are at least "moderately lit."

The Vice President of External Affairs' report touched upon many subjects. COSGA, a yearly meeting of student government representatives, went well at Texas A&M this past month. Members who attended say that it was a very helpful experience and recommend that anyone having the opportunity to go would have a chance

at a beneficial learning experience.

He also spent time discussing the proposed tax initiative for higher education which is currently in the works in the state legislature. Beginning in December 1989, the Curators of the University of Missouri created a Student Fee Task Force, which reported

that, in order to fulfill the University standard of exceptional education, it was necessary, without the aid of a tax increase, to raise the tuition standards of the University from low to moderate. These "moderately higher" fees would raise the fees (not including room & board, books, and personal expenses)

from \$2,228 in the 1990-91 school year to \$4,109 in 1995-96—an increase of nearly 100%. The other living and school expenses would increase as well, though not as dramatically as the educational fees i.e. tuition. In a survey conducted by ASUM on campus, only 37% of the students were aware of the proposed fee increase. After hearing the news, 91% favored the tax increase. Currently, Missouri is ranked 48th nationwide in per capita support of educational funding. He stated that the short range task of a newly formed ad hoc tax initiative committee is to educate the public concerning the proposed increases and what they would mean to students ad to education in Missouri.

Another topic touched on was the proposed increase in parking prices and availability on campus. A plan currently in the works is to raise prices for red, gold, and silver lots to approximately \$98, \$75, and \$62, respectively, by 1995. The raised proceeds would be used for refurbishing the deteriorating parking lots, and, possibly, for the construction of new parking facilities.

After the passage of three equipment fund requests (one from Rollamo for a new computer system to enhance layout quality and cut down printing costs, two from KMNR for new CD players for the road show and a computer to link to the AP newswire) an the deletion of an obsolete bylaw, nominations were held for offices in Student Council. The current nominees are:

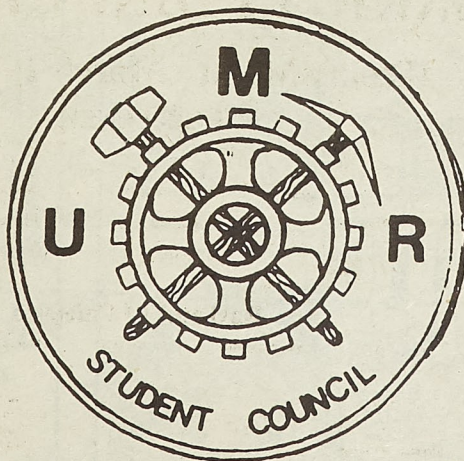
President: Luke Peterson and Ronald Platz  
Vice President of External Affairs: Scott Maycock  
Vice President of Internal Affairs: Eric Matlock  
Treasurer: Jennifer McGee  
Recorder: Laura Ledgerwood

If elected, Luke Peterson, Scott Maycock, and Eric Matlock would be returning to their current positions on the Executive Committee of Student Council.

### SPRING BREAK!

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Get an 11" single topping pizza for only \$5.99 plus tax.



Expires: 12/31/90

Valid at participating locations only. Not good with any other offer. Prices may vary. Customer pays sales tax and bottle deposit (where applicable). Our drivers carry less than \$20.00. Delivery areas limited to ensure safe driving. Our drivers are not penalized for late deliveries. ©1990 Domino's Pizza, Inc.

**Two Good To Be True!**

**2 Medium - 2 Topping Pizzas Only \$9.99**

PLUS TAX

Delivered in...

**30 MINUTES OR LESS**

**MUST USE COUPON WHEN ORDERING.**

**NOT VALID WITH ANY OTHER COUPON OR OFFER**

**704 N. BISHOP 364-7110**

**EXPIRES 2-29-91**

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**Late Night Special**

**\$7.99**

Get a large single topping pizza for only \$7.99 plus tax after 9 pm everyday.

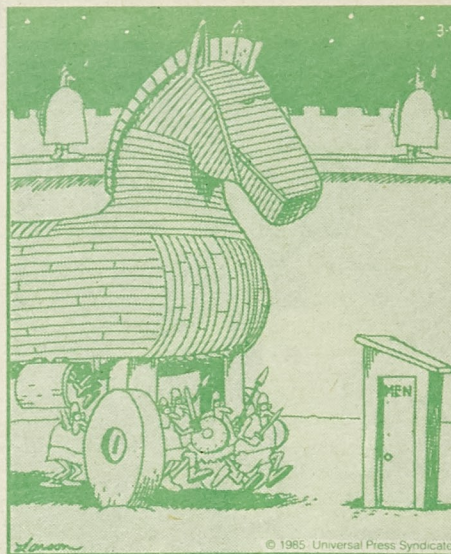


Expires: 12/31/90

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## THE FAR SIDE

By GARY LARSON



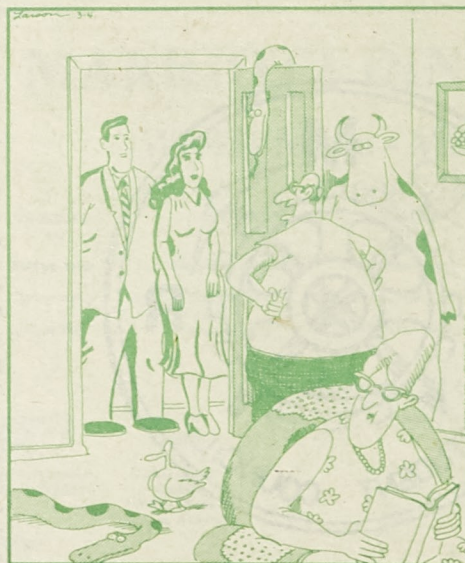
Houdini's final undoing



"Hey, look . . . you knew when you married me that I was a non-working breed."



"Uh-oh, Lenny ... It's the slimelord."



"Oh, man! You must be looking for 'Apartment 3-G,' 'Mary Worth' or one of those other 'serious' cartoons."



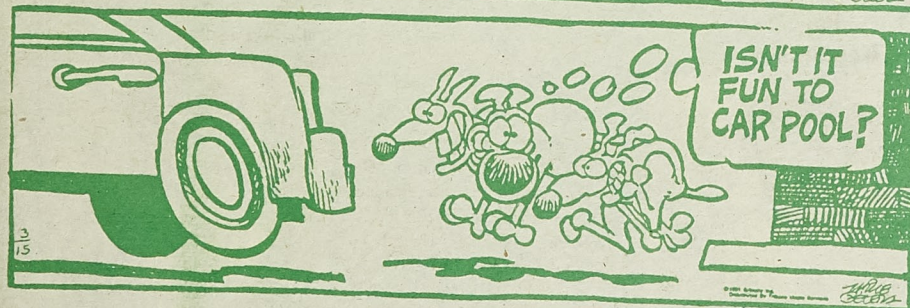
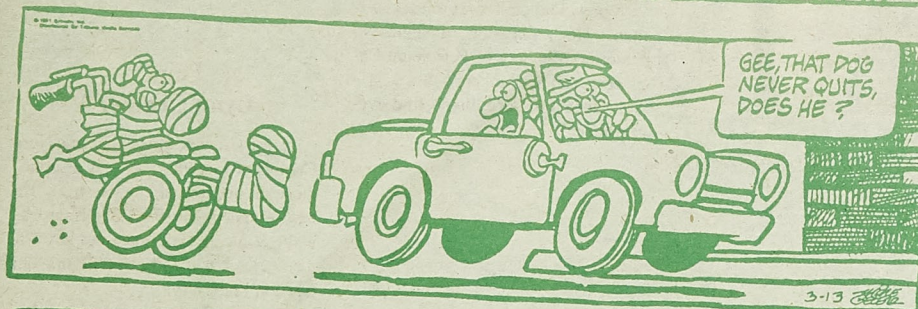
"You just take your victim, slip 'em into the flex-o-tube, flip the switch, and the Mr. Coils o' Death takes over."





## Mother Goose & Grimm

by Mike Peters



## A CUT ABOVE

Hair & Tanning Salon

Wolff Tan Beds

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OPEN 9AM FOR PARADE  
Hotdogs & Chili/Soda  
BBQ Beef/32 oz draft

OPEN ALL DAY  
Have a Safe St. Pat's



# St. Patrick and

**St. Pat  
Stephen Starwalt**



Stephen Starwalt, son of Glen and Marilyn Starwalt of Effingham, IL., is a junior in civil engineering. Steve has served as the St. Pat's Board's treasurer and campus sales chairman as well as decorations chairman. He is a member of Kappa Alpha Fraternity and has been vice-president and steward.

"Look out Mom, it's the return of St. Fat."



**Master Guard  
Michael Rollet**



Michael Rollet, son of Elvis and Shirley Rollet of Perryville, MO., is a senior in mechanical engineering. He has served on the St. Pat's Board as president, parade fund chairman, and sweatshirts chairman. He has been the social and charities chairman for Phi Kappa Theta Fraternity and is a member of Theta Tau Omega.

"This year we're the Master Guards not the master puppets."

**Master Guard  
Russel Bucher**



Russel Bucher, son of Martin and Betty Bucher of St. Louis, MO., is a junior in petroleum engineering. He has served on the St. Pat's Board as vice-president and costumes chairman. He is a member of Sigma Nu Fraternity, Society of Petroleum Engineers, and Spelunkers Club.

"Here's to here, there, and everywhere."



**Page  
Lynn Cramer**

Lynn Cramer, son of Dale and Nora Cramer of Florence, MO., is a sophomore in mechanical engineering. He has served on the St. Pat's Board as ways & means chairman and boy Friday. He is a member of Sigma Phi Epsilon Fraternity.

"I hope Rolla is ready for a fat, slimin' Page!"

**Herald  
Pete Wehmeyer**



Pete Wehmeyer, son James and Linda Wehmeyer of Rosebud, MO., is a junior in mechanical engineering. He has served as Septemberfest chairman, public relations chairman, and decorations chairman for the St. Pat's Board. He has been Student Union Board's concert committee and has been social chairman for Intercollegiate Knights and Alpha Epsilon Pi Fraternity where he has also been their steward.

"Alice, I feel as if you're a part of me."

**Page  
Ken Smiley**



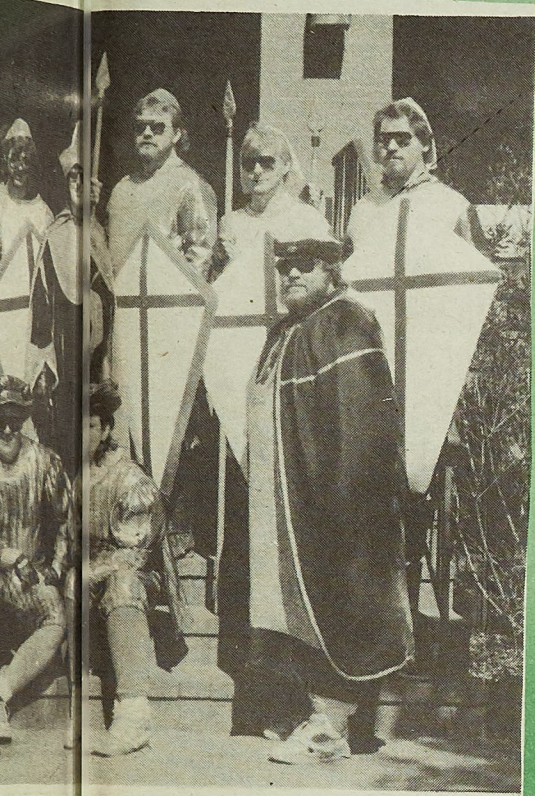
Ken Smiley, son of Thomas and Bonnie Smiley of Shell Knob, MO., has served on the St. Pat's Board as participation & town coordinator as well as queens chairman. He is a member of the General Delegation of Independents.

"Now I'm just a Page in the history of the Board."





# and his Court



**Guard  
Terry Piskorski**



Terry Piskorski, son of Mary Jo Piskorski of FLorissant, MO., is a junior in mechanical engineering. He has served as secretary, public relations chairman, and float & parade chairman for the St. Pat's Board. He has been the pledge trainer for Tau Kappa Epsilon Fraternity and is member of Theta Tau Omega.

"St. Pat thinks he's in charge, but the guards rule!"

**Guard  
Kevin Webb**



Kevin Webb, son of Vernon and Shirley Webb of St. Louis, MO., is a junior in electrical engineering. He has served on the St. Pat's Board as sales manager and local publicity chairman. He is a member of Pi Kappa Alpha Fraternity and has been their public relations and alumni newsletter chairman. He is a member of IEEE and has been on the Missouri Miner staff.

"Hey Doc, better late than never."

**Guard  
Greg Allen**



Greg Allen, son of Lloyd and Sherill Allen of Centralia, IL., is a sophomore in basic engineering. He has served on the St. Pat's Board as parade fund chairman and national publicity. He is member of Triangle Fraternity.

"Some say we're the last of a dying breed, I say we're the first of a new generation."

mom

**Trumpeteer  
Marc Reynolds**



Marc Reynolds, son of Roger and Wendy Reynolds of Lake St. Louis, MO., is a senior in electrical engineering. He has served on the St. Pat's Board as special sales chairman and historian. He is a member of Sigma Pi Fraternity.

"Hey Holland, now I get the Trumpeteer shorts!"

**Guard  
Mark Kelly**



Mark Kelly, son of Ronnie and Sheila Kelly of Alton, OK., is a junior in nuclear engineering. He has served on the St. Pat's Board as president, parade fund chairman, trophies chairman, and Gonzo & Games chairman. He is a member of the Chancellors Student Cabinet, University Center Board Alcohol Awareness Committee, Alpha Phi Omega, and has been the alumni secretary for Alpha Epsilon Pi Fraternity.

"Alice, how much will she pay."





# Blarney Club 1991

W. Lance Haynes

Dr. D.C. Look, Jr.

Richard Anderson

Don & Nancy Brackhahn

Neil Smith

Martin Jischke

Jack & Marcia Ridley

Mr. & Mrs. Ray E. Morgan

Dr. & Mrs. Glendon (Jake) Stevens

John Suarez

Robert and Dorothea Wolf

Tim Pimmel

Louis and Jean Marie Kiehl

Dave Hettenhauser

Richardson Revocable Trust

Harry J. Sauer, Jr.

John Thorton Park & Dorcas M. Park

Hap Ruhlman

Gregory & Sharon Lang

Dick Dubroff

W. David Evans

James E. Adkins

Richard A. Dumay

B. Ken Robertson

Kittie Lee Robertson

Charles & Norma Stack

Betty A. Menold

Gary Pariani

Don L. Warner

Samuel D. Otto

John P. Rasor

Tracy J. Orf

Richard A. Gnecco

William J. James

Frank H. Mackaman

Michael J. Gross

Lenore & John Morris

Dave & Kathy Kunze

Eleanor & Paul Dowling

Michael F. Ellis, Jr.

W. Glen & Marilyn Starwalt

James R. Patterson

Richard & Shirley Bauer

Gregory M. Fleck

Bob Norris

Russell Perry

Bob & Betsy Bruce

Marvin & Alice Barker

Mr. & Mrs. Peter F. Mattei

Steve Sowers

Eric D. Dunning

Mike & Nancy Kovack

Hon. Mike Lybyer

William J. Zaner

James C. Kirkpatrick

John D. Powell

Bowman Powell

Mr. & Mrs. James B. Wehmeyer

Hans & Jimmie Schmoldt

Joseph & Louise Marchello

Ken Fiebelman

Chris Layton (St. Pat 1989)

Mary Jo Piskorski

Mr. & Mrs Vernon Webb

Ransdall Recycling

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Sirloin Stockade  
Phil's Marine Sales  
Dairy Queen  
Rolla Welders Supply  
La Posada Mexican Restaurant  
A Cut Above  
A Slice of Pie  
Dishman's Mobil Service  
Lynch Bros. Furniture  
Martha's

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Ends 4-31-91

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WAY THESE TWO  
ARE GOING TO  
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**THE  
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MATINEE SAT & SUN 2:00

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Maj Scott McWilliams

310 Harris Hall

Phone 341-4738

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**1/2 off**

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Double Side/Double Density 3.5" ..... **\$11.99**

Quantities Limited.

**OPEN for St.Pat's Saturday March 16**

**9:00 am to 1:30 pm.**

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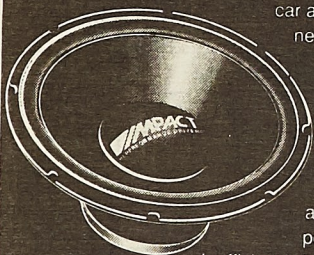
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### BRONCHITIS OR PNEUMONIA

- \*Testing two antibiotics for ten days, Augmentin or Cefprozil
- \*Participants must be ages 18 or older
- \*Participants must have a productive cough and produce a sputum sample

### ECZEMA

- \*Testing a new Hydrocortisone cream, Pandel cream, against a placebo or fake preparation, for 14 days
- \*Participants must between the ages of 18 and 70 years
- \*Participants must currently have mild to moderate eczema

- \* All medications are approved and maintained for testing by the Federal Drug Administration
- \* All medications and projects monitored by a Medical Review Committee
- \* All medical examinations, medications, tests and office visits are at no charge to participants.

Participants will receive a monetary stipend for their participation.

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364-7777 ASK FOR VICKI OR ROBIN



# Classifieds

## Miscellaneous

**It's Here! The dance of all dances—The 1991 St. Pat's Shamrock** sponsored by the Inter-Residence Council (IRC). The dance will take place at Miner Rec. Mar. 14, from 7:30 p.m. to 12:30 a.m. Music will be provided by a professional DJ straight from St. Louis, and hey, we're even going to spring for food and soda! If that's not enough, there will be contests with prizes! The IRC promotes responsible drinking. So, continue the fun of St. Pat's at the 1991 Shamrock. FREE ADMISSION.

**"Missouri's Bio-diversity and Its Protection"** will be the topic of the next Ozark Rivers Audubon Chapter meeting on Friday, March 15 at 7:00 p.m. in room 204 McNitt Hall, University of Missouri-Rolla. This program, which is co-sponsored by Grand Gulf Audubon Chapter, West Plains, the Missouri Native Plant Society, and the local Ozark Audubon Chapter, will feature lectures by Tim Nigh, Missouri Department of Conservation community ecologist; Doug Ladd, The Nature Conservancy botanist; and Dave Hamilton, Missouri Department of Conservation research biologist. The meeting is free and the public is invited to attend. The program will be followed the next day, Saturday, March 16, by a field trip to Paddy Creek Wilderness—the Eck Tract. The outing will be from 9:00 a.m. to 4:00 p.m. Participants should plan to bring a sack lunch and meet at 9:00 a.m. at the U.S. Forest Service Supervisor's Office, 401 Fairgrounds Road, Rolla. Those attending from south of Rolla may meet the Rolla group at 10:00 a.m. at the junction of Highways 63 and 32-Licking, MO. (Tarry Inn Parking lot). For more information call 341-3517 or 417-469-3978.

**Wanted: White, Heterosexual males for a sociology survey on sexual attitudes.** Survey will be distributed on Monday and Tuesday, March 18th & 19th at the library for 11:00 a.m. to 1:00 p.m. and on Wednesday and Thursday, March 20 & 21, at the Hockey Puck from 11:00 a.m. to 1:00 p.m.

**For sale:** Golf Clubs \$100 Lady Mac Gregor's 1-3-5 Iron woods, 1-10 Irons. Putter and bag call 341-3971 or Mary at UCE-Cafeteria.

**Thinking of taking some time off from school?** We need MOTHER'S HELPERS/NANNIES. We have pre-screened families to suit you. Live in exciting New York City suburbs. We are established since 1984 and have a strong support network. Call 1-800-222-XTRA.

## Personals

**Suze,**  
Love lasts forever. I think we can make it work.  
Dave B.

**Bush,**  
You sure were looking good at Sig Nu the other night.  
D.

**Bushey,**  
I really do care for you.  
Love,  
Suxe

**Karen,**  
Congratulations on being Sigma Pi's Sweet-heart this past weekend! A special BIG congratulations on your engagement! I wish you and Keven a world of happiness. Wow! What a weekend!  
Lico,  
YBS, Suz  
P.S. Maybe someday it will run in the family ha ha.

**Hey Karen,**  
Is that rock weighing you hand down? Finding it hard to write? Don't worry, I'll be happy to wear it for a while. Ha ha ha!  
Lico,  
YBS

**Dia,**  
The countdown until "Dia & Suzanne's Torque Session" continues. Almost here.... Are you psyched? We're going to have a blast!  
Your "almost equally but not quite stressed roomie"  
Suz

**Paper, Scissors, Rock????** Anytime, anyhow, anywhere.

**To Lady Miner Fans,**  
The Lady Miners thank you for attending our games and supporting us throughout the season.  
Lady Miners

**Kellie C.**  
Thanks for all the hard work and time you put into Chippendales. It was great!  
Love in KD,  
Beth

**April,**  
You are an awesome lil' sis!  
Lico,  
Kristi

**Tricia,**  
If Daytona is like Padre was last year, we won't need rooms.

**Gooo Goo,**  
Good luck on your design project! We're going to miss you next fall.  
Love in AOT,  
Your KD Sisters

**Giggles,**  
What's your favorite color?  
Love in KD,  
Guess who

**Andy,**  
You're a great person to party with! Get psyched, spring break is only 3 weeks!  
Love in KD,  
Beth

**Mary Helen,**  
Where have you been? You are the best big sis!  
Love in KD,  
YLS

**Jill,**  
Congratulations on Tau Beta Pi and on becoming Kappa Delta's Greek Week queen candidate. Is there anything you can't do.  
LIAOT,  
WWG

**This is obviously KD week. Zetas and Chi-O's where are you?**

**Lambda Chi Alpha,**  
Thanks for the great TGIF Barbecue. We had a blast!  
From the ladies of Kappa Delta Sorority

**Gazelle, Fag, Fag, and Fag,**  
We haven't seen the Fag with the curling iron microphone lately. (She must be too busy getting 100% on her EE tests), or VPPE Fag doing exercises on one leg, or gazelle with doggie, or Shelly-fag keep peace. Give us more or will take doggie to the curb!  
LIAOT,  
WWG

**Professor Paula Lutz,**  
Thanks for always being there when we need you. You are such a great advisor.  
LIAOT,  
Your Kappa Delta Sisters

**Hey Presidents of St. Pat's Board,**  
Congratulations on being elected the New GLSA president.  
The Beast Room

**Fan in the Football Field stands,**  
Need I say more?!!  
GWB, GWB, G

**Eddie G.**  
Taco Tico. What are we having for lunch next Wednesday?  
Skip, A Mexican connoisseur

**Becky W, KD president,**  
You are doing such a great job. you are so Awesome! Thanks for everything you do.  
LIAOT,  
Your KD sisters

See Classifieds, page 20

**The Beast Room** by Jones and Griff

I DON'T KNOW WHY WE KEEP DOING THIS,  
IT'S JUST GOING TO BE HEADS AGAIN.

**Janet,**  
We need to party together more often! Don't get so stressed!  
Love in KD,  
Beth

**Tricia & Heather,**  
Congratulations on being Theta Tau Bunnies. You two are awesome.  
LIAOT,  
WWG

## Sunday Night Special

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**\$2.99**

Every Sunday from  
5:00 p.m. to close.  
Includes FREE dessert.

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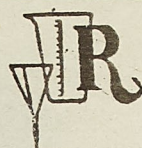
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**ST.PAT'S 91**

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# Classifieds

from page 19

**Stud Muffin,**  
I am amazed at how fast you learn! I've turned  
you into a hickey making machine.  
Your markedup,  
Baby Doll

**Tobis,**  
Happy Belated Birthday! You're doing a  
great job for Jim. Have a Best Ever St. Pat's.  
Love,  
YLS

**Hey Freshmen!**  
Kill the St. Pat's Board Rep! Break his nose,  
rip out his tongue, bash his head in!  
Sick and tired.

**Ken M.**  
Find the hidden playboys and you will receive  
a prize  
The John

**Saunders,**  
How's late night with Lisa.  
Hank

**Freshman Pitches,**  
Thank you for your support.  
Room II

**Weepie,**  
How's the diet?  
Fellow Slim-fast Buddy Jones  
P.S. Only plus 20 lb. this week?  
P.S.S. Good Job

**K.O.**  
Once she gets the ring, She'll be too heavy to  
carry over the threshold.  
The Bachelors  
P.S. She'll carry you!

**Kong,**  
You are, the greatest. I love you.

**Tom,**  
Happy studying over St. Pat's! All of us at  
Triangle will party for you, old-timer!  
Your pledges at Triangle

**JJK,**  
Kegs are people too.  
The Brain

**MJC, III**  
Have you made 50% of your 90% layup  
lately?  
Your fan club

**Lambda Sigma Pi,**  
Great Job on all your community work. Good  
luck during rush!  
UMR Students

**Bind,**  
You did a great job for St. Pat's!  
Love in KD,  
Beth

**Beast Room,**  
Get a new integral!  
P.S. I can't solve that one.  
Michael Julian

**Mary H2 & Lachelle,**  
I don't think your room will pass even the  
psuedo HM's standards. Get it together girl!  
LIAOT,  
Woodwing girl

**Bubba,**  
I love you!  
Bubbette

**Stud Muffin,**  
Monday was our second one! Let's go for a  
record!  
Forever yours,  
Baby Doll

**Stacy D. (ZTA),**  
Happy 21st Birthday!  
Sue (KD)

**Hey Skoal Queen,**  
How about a late night drink?  
The Skoal Man.

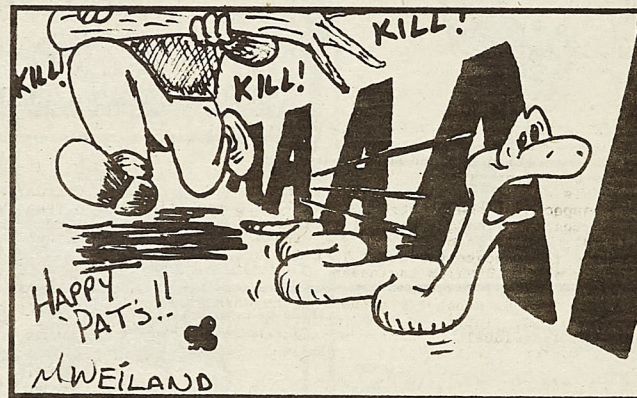
Get psyched for **ORANGE CRUSH** on March 22  
at the Armory!  
UMR Panhellenic

**Lady Miners,**  
Your tough and impressive play made the trip  
to warrensburg more than worthwhile. Thanks for  
a great season.  
The obnoxious Yellow-shirted Magnificent  
Seven

**MLH,**  
Sure would like to get to know a certain Psych  
better.  
Enquiring Mind  
P.S. The purple outfit for Chippendales looks  
great!

**Deanna,**  
Happy Birthday! Just think this is your last  
birthday in Rolla. And you've had enough of them.  
Try not to get too faced. I'll be partying  
with you over St. Pat's.  
YLB #1

**Bubba,**  
Just writing this to see if you see it. You  
always read the personals. Why?

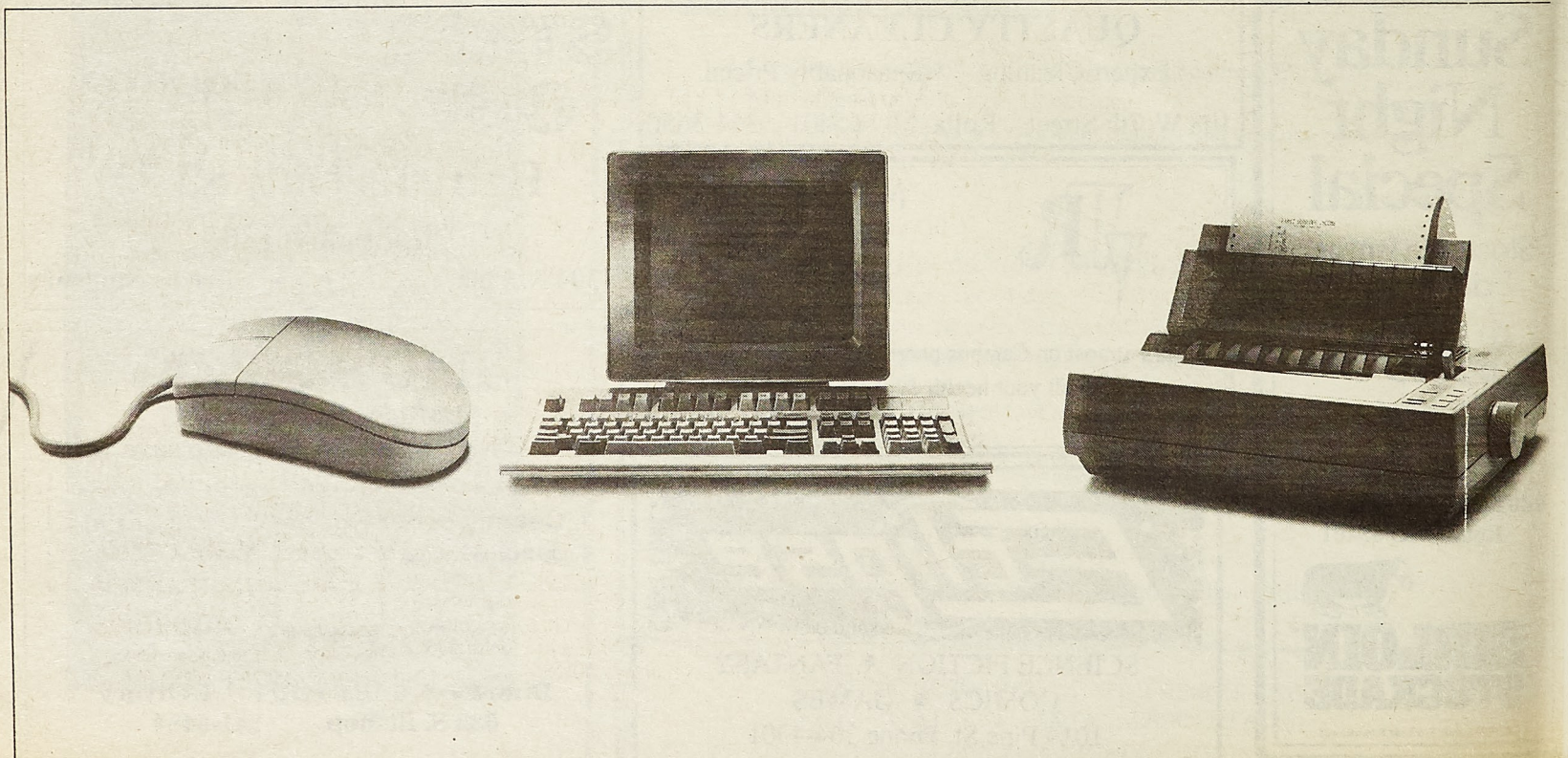


## collegiate camouflage

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

ACTIVISM	CUBISM	PRISM	SOLECISM
ATHEISM	DARWINISM	PURISM	TAOISM
BUDDHISM	DEISM	RACISM	TRUISM
CANNIBALISM	EGOISM	REALISM	WITTICISM
CAPITALISM	EUPHUISM	SADISM	
CHAUVINISM	MYSTICISM	SCHISM	
COMMUNISM	PLAGIARISM	SEXISM	

Solutions on Page 8





# Placement

UNIVERSITY OF MISSOURI-ROLLA  
Placement Office  
Buehler Building, 9th & Rolla St.  
Rolla, MO 65401

## PERMANENT EMPLOYMENT

### WEEKLY DETAIL LIST #9

Additions -- weeks of March 18 & March 25, 1991

The following companies are scheduled to interview during the weeks of March 18 & March 25:

**MARCH 18**  
State Farm Insurance  
Grain Processing

**MARCH 19**  
Halliburton Logging Services  
AFB Industries  
Clark Oil

**MARCH 20**  
Union Pacific Technologies  
Spartan Aluminum Products

**MARCH 21**  
Brown & Root  
Midwest Research Institute  
REACT

**MARCH 22**  
Liberty Mutual Insurance

**MARCH 25**  
Houston Light & Power  
Crawford, Murphy & Tilly  
J.S. Smith

**MARCH 26**  
Kansas City Power & Light  
General Mills - KC  
Department of Natural Resources  
Parker Hannifin

**MARCH 28**  
ABB Combustion Engineering  
A.B. Chance

**TEXAS INSTRUMENTS (MATERIALS & CONTROL GROUP)**  
Control Products Division  
7839 Churchill Way  
Dallas, TX 75265  
attn: Ms. Donna Kuchinski

Texas Instruments Controls Products Group has indicated the following position is available; however, a recruiter will not be available to come to UMR at this time.

Please submit your resume to:  
Jane, G-3 Buehler Building, prior to March 15. Resumes will be mailed to Texas Instruments for further consideration.

Following is a list of companies who have recently scheduled interviews at UMR. (Information has not been on a previous detail list.) Interview signup dates will be extended until the schedules fill.

**CLARK OIL**  
8182 Maryland Avenue  
St. Louis, MO 63105  
attn: Mr. John Kitson

**NUMBER OF SCHEDULES:** 1  
**MAJORS:** BS/Computer Science  
**POSITION:** Computer Programmer (COBOL, IBM Mainframe, CICS, DB2, Anderson CASE Tools)  
**LOCATION:** St. Louis, MO (Clayton)  
**INTERVIEWING:** May 1991 grads  
**MINIMUM G.P.A.:** 3.0  
**CITIZENSHIP:** U.S. Citizenship required

**INTERVIEW DATE:** March 19, 1991  
**NOTE:** Resumes of Computer Science majors registered with the Placement Office were mailed to Clark Oil. Please check with the Placement Office to see if you have been selected for an interview. (Lists will be posted on the Placement Office bulletin board.)

**PARKER HANNIFIN**  
P.O. Box 626  
Kennett, MO 63857  
attn: Ms. Terry Todd

**NUMBER OF SCHEDULES:** 1  
**MAJORS:** BS/ME  
**POSITION:** Mechanical Engineer to work on automation & learn all aspects of mfg. process for A/C systems for over the road vehicles.  
**LOCATION:** Batesville or Booneville, Miss  
**INTERVIEWING:** December 1990 or May, July 1991 grads  
**MINIMUM G.P.A.:** 2.5  
**CITIZENSHIP:** U.S. Citizenship required

**DEADLINE FOR TURNING IN RESUMES:** Wednesday, March 13  
**INTERVIEW DATE:** March 26, 1991

**TECHNICAL SALES & MARKETING ADVANCEMENT PROGRAM:**  
engineering graduates to enter a flexible 12-18-month sales and marketing advancement program with the Control Products Division. Through rotational assignments, individuals will be trained in the technical and market related aspects of the electronic and electro-mechanical controls business headquartered in Attleboro, MA. After successful completion of the program, individuals must be willing to relocate to one of TI's field offices for assignment as Field Sales Engineers.  
3.0/4.0 Min. G.P.A. required  
Applicants must be presently authorized to work full-time in the U.S. Interview appointments will not be granted to individuals presently possessing or who are eligible for practical training authorization only.

**BS/MS EE, ME, ENG. MGT., AE, OR PHYSICS**  
**DEADLINE FOR TURNING IN RESUMES:** Friday, March 15, 1991

**DEPARTMENT OF NATURAL RESOURCES**  
P.O. Box 176  
Jefferson City, MO 65102  
attn: Mr. Warner Sherman

**NUMBER OF SCHEDULES:** 1  
**MAJORS:** BS/MS ChE, CE, Geological Eng.  
**POSITION:** Environmental Engineer I/II  
The interview does not necessarily constitute that a position is available, however, candidates will have the opportunity to discuss application procedures to attain status on the Merit System register.  
**BRING COMPLETED APPLICATION TO THE INTERVIEW.**

**LOCATION:** Jefferson City  
**INTERVIEWING:** May, July 1991 grads

**INTERVIEW SIGNUP DATE:** Tuesday, March 12, 1991  
**INTERVIEW DATE:** March 26, 1991

**REACT**  
22208 Welsch Industrial Court  
St. Louis, MO 63146  
attn: Ms. Cindi Houser

**NUMBER OF SCHEDULES:** 1  
**MAJORS:** BS/CE, ChE, Geological Eng.  
**POSITION:** Environmental Engineering  
**LOCATION:** St. Louis  
**INTERVIEWING:** May, July 1991 grads

**INTERVIEW SIGNUP DATE:** Tuesday, March 12, 1991  
**INTERVIEW DATE:** March 21, 1991

**A.B. CHANCE**  
210 North Allen  
Centralia, MO 65240  
attn: Mr. Bob Irish

**NUMBER OF SCHEDULES:** 1  
**MAJORS:** BS/EE  
**POSITION:** Technical Sales  
**LOCATION:** Centralia, with relocation to U.S.  
**INTERVIEWING:** May 1991 grads

**INTERVIEW SIGNUP DATE:** Tuesday, March 12, 1991  
**INTERVIEW DATE:** March 28, 1991

## PLEASE NOTE:

**GRADUATING SENIORS ARE REQUESTED TO TURN IN ALL JOB OFFERS AND ACCEPTANCES TO THE PLACEMENT OFFICE** (second floor, Buehler Building). Forms are available on the second floor.

ALL INFORMATION IS KEPT CONFIDENTIAL.  
All information is vital to our statistics.

IT'S NOT TOO LATE TO REGISTER FOR SUMMER EMPLOYMENT. Listings of companies having summer opportunities are available in Room 201, Buehler Building. Registration for and information regarding summer employment are available. Check with the Receptionist on the 2nd floor, Buehler Building.

## We're looking for seniors who like working with all kinds of hardware.

Careers in data processing, accounting, actuarial, and auditing at State Farm.

At State Farm, we understand the concept of "work." Believe it or not, we also understand the concept of "play."

That's because we don't think you can be really outstanding at the first without having an appreciation for the second. Which is exactly why a career at State Farm in Bloomington could be the ideal place for you.

You'll work for one of the country's most respected companies on the most advanced computer equipment in the industry. You'll be challenged and stimulated. You'll be rewarded with excellent pay and benefits. You'll make your classmates *very* envious.

What's more, you'll also have time to appreciate the finer things in life. That's because Bloomington isn't just a great place to start a career, it's a great place to live, to enjoy, to start a family (if, indeed, you're ready to start thinking about that). In addition to the community's pleasant neighborhoods, inviting parks, and other recreational facilities, you'll find two universities that offer a host of cultural and social activities to take advantage of.

If you're a senior with a math, accounting, data processing, or computer science background, come talk to us at your college placement office. We're looking for people who are motivated and outgoing. People who enjoy challenges on the job — and away from it. After all, you're not just looking for a great job. You're looking for a great way of life.



**State Farm  
Insurance  
Companies**

Home Offices: Bloomington, Illinois.  
An equal opportunity employer.



# Co-op Employment

GM DELCO ELECTRONICS  
Kokomo, Indiana

Interviewing: E.E., M.E., Ch.E., Mgmt., C.Sc., Math

Requirements: 3.0 GPA or above.

Turn in resumes: Friday, March 1, 1991

start work summer or fall 91

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

\*\*\*\*\*

PROGRAMMING MANAGEMENT AND SYSTEMS INC.  
St. Louis, Missouri

Interviewing: A.E., C.Sc., E.E.

Requirements: 2.0 GPA or above

Turn in resumes: Tuesday, March 5, 1991

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

\*\*\*\*\*

NAVAL WEAPONS SUPPORT CENTER  
Crane, Indiana

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

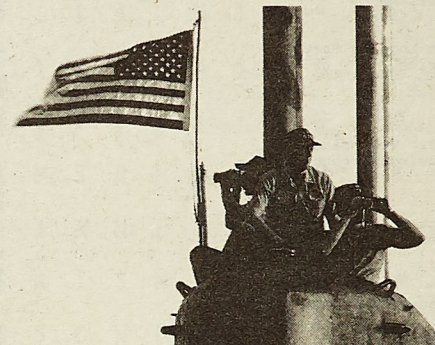
Requirements: 2.0 GPA or above. Must be US Citizen.

Turn in resumes: Tues., March 5, 1991

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

\*\*\*\*\*

## THE NAVY NUCLEAR TEAM



Get your start in nuclear power where nuclear power got started. In the U.S. Navy. The Navy operates more than half of all the nuclear reactors in the United States. Being on the Navy Nuclear Team puts you in an elite group. If you qualify, you can start in the Navy Nuclear Propulsion Officer Candidate Program and earn up to \$35,000 before you graduate. The Navy will pay you as much as \$1,200 a month plus bonuses, and you'll never have to attend a drill or even put a uniform on until after graduation.

To qualify you must meet these requirements:

- Have completed sophomore year, majoring in engineering, chemistry, science or math.
- Have a minimum 3.3 GPA. (Seniors 3.0)
- Have completed a mathematics sequence through integral calculus.
- Have completed one year of calculus-based physics.
- Meet the Navy's physical standards.
- Be no more than 26 1/2 years old at the time of commissioning.
- Be a United States citizen.

For More Information Call:

LT. Greg Voss at 1-800-446-6289 in Missouri

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816 Pine

offer Expires 3/31/91





E-SYSTEMS INC.  
Greenville, Texas

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

Requirements: 2.5 GPA or above. Academic level of applicants: at least 45 hours completed at the end of the present semester.

start work summer or fall 91

Turn in resumes: Wed., March 6, 1991

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

\*\*\*\*\*

SUNRISE/IAD  
Kansas City, Missouri

Interviewing: E.E., Mgmt., M.E.

Requirements: 3.1 GPA or above. USA Citizenship. Academic level of applicants: at least 50 credit hours completed at the end of the present semester.

Turn in resumes: Wed., March 6, 1991

start work summer or fall 91

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

\*\*\*\*\*

MARTIN MARIETTA ENERGY SYSTEMS  
Oak Ridge, TN

Interviewing: Ch.E., M.E., Mgmt., E.E., C.Sc.

Requirements: prefer 3.0 GPA but will consider outstanding students with a minimum overall 2.5 gpa with extraordinary abilities and experience. US Citizenship. Willingness to work in Oak Ridge, Tennessee.

Turn in resumes: Thurs., March 7, 1991

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

\*\*\*\*\*

SOUTHWESTERN BELL  
Work locations: Missouri and Texas

Interviewing: C.Sc.

Requirements: 2.0 GPA or above. Academic level of applicants: at least 59 credit hours completed at the end of the present semester. Must be legally authorized to work in US.

Turn in resumes: Thurs., March 7, 1991

start work summer 91

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

\*\*\*\*\*

WRIGHT PATTERSON AFB  
AFB, Ohio

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

Requirements: 2.5 GPA or above. Academic level of applicants: at least 30 credit hours completed at the end of the present semester. American Citizenship required.

start work summer or fall 91

Turn in resumes: Thurs., March 7, 1991

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

\*\*\*\*\*

TENNESSEE VALLEY AUTHORITY  
Work locations: Tennessee, Alabama and Kentucky

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

Requirements: 2.0 GPA or above. Must be US Citizen.

start work summer or fall 91

Turn in resumes: Friday, March 8, 1991

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

\*\*\*\*\*

IOWA DEPT. OF TRANSPORTATION  
Ames, Iowa

Interviewing: C.E.

Requirements: 2.0 GPA or above. American Citizenship required.

Turn in resumes: Mon., March 11, 1991

start work summer 91

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

\*\*\*\*\*

Interview date: Monday, March 25, 1991

CP CLARE CORPORATION  
St. Louis, Missouri

Interviewing: E.E.

Requirements: 3.0 GPA or above. Academic level of applicants: at least 75 credit hours completed at the end of the present semester.

Sign-up date: Monday, March 11, 1991

start work summer or fall 91

1/2 schedule - 8 interview openings

\*\*\*\*\*

IBM CORPORATION  
Manassas, VA

Interviewing: E.E., C.Sc., Mgmt., M.E., Ch.E.

Requirements: 2.0 GPA or above

Turn in resumes: Monday, March 11, 1991

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.

\*\*\*\*\*

UNION CARBIDE CHEMICALS AND PLASTICS  
Texas City, Texas

Interviewing: Ch.E., M.E.

Requirements: 3.0 GPA or above. US Citizen/Permanent Resident

start work fall 91

Turn in resumes: Tuesday, March 12, 1991

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.

\*\*\*\*\*

NOTE: The ones that indicate RESUME 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 schedules interviews. These will be posted in the Co-op Office.

Interview date: Tues., March 26, 1991

GREAT LAKES CARBON CORP.  
Ozark, Arkansas

Interviewing: Cer., Ch.E., C.E., E.E., M.E., Met.E., Pet.E.

Requirements: 2.0 GPA or above. Academic level of applicants: at least 60 credit hours completed at the end of the present semester. US Citizenship.

start work summer 91

Sign-up date: Tuesday, March 12, 1991

1 schedule - 12 interview openings

\*\*\*\*\*

ADDITION TO MARCH CO-OP LIST

Interview date: Tues., March 26, 1991

GENERAL ELECTRIC AIRCRAFT  
Cincinnati, Ohio

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

Requirements: 3.0 gpa or above. US citizenship or permanent resident visa.

Sign-up date: Tues., March 12, 1991

1 schedule - 12 interview openings

\*\*\*\*\*

ADDITION TO MARCH CO-OP LIST

Interview date: Tuesday, March 19, 1991

LEVER BROTHERS  
St. Louis, Missouri

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

Requirements: 2.8 GPA or above, Sophomores or above.

Sign-up date: Tues., March 5, 1991

1 schedule - 13 interview openings

start work fall 91

\*\*\*\*\*



**Wednesday**

## ST. PAT ARRIVES

Noon

Eighth Street Railroad Tracks

12:30 pm

## CASINO NIGHT

7pm

Armory

sponsored by Theta Tau Omega

**Thursday**

## GONZO

Lions Club Park

*Catch a bus!*

**Friday**

## GAMES

Lions Club Park

*Catch a bus!*

## CORONATION CEREMONIES

9pm

Multipurpose Building

**Saturday**

## PAINTING OF STREET

7:30 am

Pine Street

10 am

Pine Street

## ST. PAT'S PARADE

11am

Pine Street

## KNIGHTING CEREMONY

2:30pm

Jackling Field

## REO SPEEDWAGON CONCERT

7 pm

Multipurpose Building

J.G. JONES  
03-12