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The Missouri Miner, January 18, 1995

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Opinions
page 3

Features
page 7

Sports
page 9

Employment
pages 11-13

Comics
p 8



Missouri Miner



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

January 18, 1995

Volume 84, Number 16

Sixteen pages

UM Board of Curators to vote on tuition increase



Gayatri Bhatt
Staff Writer

The University of Missouri Board of Curators will vote on tuition increases at their next meeting, which will be held Jan. 26-27 at the University of Missouri-St. Louis. It is has been tentatively proposed by UM System President George A. Russell to increase fees from \$101 to \$111 per credit hour for the 1995-1996 academic year. Russell stresses that this is in accordance with the goals out-

lined in the University's five-year plan.

The five-year plan calls for tuition to increase at the rate of inflation plus \$200 per academic year. The Board of Curators reaffirmed this plan at their December meeting. Currently, the University is in the fourth year of the five-year plan. The plan focuses on the reallocation of \$127 million for the improvement of the physical plant, libraries, financial aid, equipment, increases in faculty salaries and specific campus priorities. If, in fact, increases in fees actually go towards increases in faculty salaries, there will not be campus-wide increases. "I don't see any indication of x percent of tuition money going to increases in salaries," said Dr. Walter Johnson, Chair-

man of the Economics Department.

System-wide, \$99 million in improvements have been funded from three sources. The largest source has been internal reallocations—\$53.6 million, or 53 percent of the total. The second source of money for improvements has been from student fees, which generated \$27 million, or 27.2 percent, of the total. Finally, increases in state appropriations have contributed \$19.5 million, or 19.7 percent, of the total.

At the December Board meeting, Curator Mary Gillespie of St. Louis, pointed out that the University had generated more internal reallocations than projected in the original plans. "If we continue to generate internal funding, do

we really need a tuition increase?" asked Gillespie. "It seems to me we ought to take another look at the planned increase in student fees."

Many students also feel the increase is not needed. Andrew Sears, a senior in electrical engineering and Student Council President, expressed, "If Hancock II had passed and tuition increases were inevitable that would be one thing, but President Russell has shown that tuition increases aren't really necessary. To go ahead with the increase at this point would be crazy!"

Dr. Walter Gajda, Vice-Chancellor of Academic Affairs argues "Even at next year's fee schedule, I consider UMR a significant bargain in higher

education. If we are to maintain, and increase, educational quality, fees need to be increased and that was the consensus of the Board of Curators a few years ago. At the time they endorsed a multi-year plan to increase fees, they also made a commitment to increase the amount of student financial aid. This campus has kept that commitment and will, I am confident, continue to keep it in the future."

The Finance Committee of the UM Board of Curators will meet Friday at the University of Missouri-Columbia to review the projected proposals for fee increases and make final recommendations to the full Board next week in St. Louis.

Ogrofsky placed in charge of athletics



News Services
SOURCE

The athletics programs at the University of Missouri-Rolla will be under the direction of Dr. Wendell R. Ogrosky, vice chancellor for Student Affairs at UMR, beginning Jan. 1. "This change is consistent with our campus mission and our philosophy that the athletics program

at UMR is to serve and to benefit the students," Chancellor Park said. "Athletics is indeed a student service, and I'm pleased to have Wendell leading the program as we move to provide even more athletic and recreational services to our students." Athletics previously had been under the direction of Neil K. Smith, the former vice chancellor for Administrative Services, who recently became UMR's vice chancellor for University Advancement.

"I'm very pleased to have the opportunity to work with the athletics depart-

ment," Ogrosky said. "It's an integral part of the institution and is a department that stresses excellence in all its endeavors. I also applaud the excellent work Neil Smith has done with the program over the past few years."

Ogrofsky has been vice chancellor for Student Affairs at UMR since August 1987. He has 25 years of experience in college and university administration, including positions at Transylvania University in Lexington, Ky., the University of Arizona in Tucson and Eastern Kentucky University in Richmond, Ky.

Rolla researchers find new use for rice



News Services
SOURCE

Rice, a key ingredient in the beer-making business, also creates a big waste problem: rice hulls. Now, researchers at the University of Missouri-Rolla are trying to turn those hulls into filters for the beer-makers. Most breweries use activated carbon derived from charred coconut shells to filter impurities from beer, says Dr. Virgil J. Flanigan, a professor of mechanical engineering at UMR and a researcher in UMR's Center for Environmental Science and Technology (CEST). But recent UMR laboratory tests of charred rice hulls find they filter impurities from beer as well as the activated carbon, Flanigan says. And because rice hulls are a byproduct of the brewing process, they are readily available to breweries, Flanigan adds. Through a \$50,000 grant from PCC Group of Los Angeles, Flanigan and his colleagues in CEST are expanding their studies of rice hull-based filters. "The fixed carbon of rice hulls is very porous and perfect

for filtering out organic impurities," says Flanigan. "And since they're already stockpiled, it's a very affordable alternative to the coconut shells." Flanigan and his colleagues discovered this use for rice hulls after they were asked by CEST's corporate sponsors to find a way to get rid of tons of stockpiled rice hulls. The researchers first tried to use the hulls as filters to treat wastewater, says Dr. William J. James, professor emeritus of chemistry and director of CEST. But that didn't work, so they decided to heat the hulls without oxygen — a process called charring — and thus convert the hulls into carbon. They then tested the product as a filter for beer. Lab tests show the rice hull product could also be used as a filter to treat the water supply used in brewing, James says. Working with Flanigan and James on the research are Dr. Dan Armstrong, Curators' Professor of chemistry, and Dr. Jui Lung Li, a research assistant professor at UMR's Graduate Center for Materials Research. CEST, the sponsor of the rice hulls research, was created in April 1992 through a \$1 million gift from Monsanto Co. and the Monsanto Fund. Since then, other corporations seeking solutions to environmental problems have contributed to the center.

The Missouri Miner is looking for ad reps and staff writers for all departments. Any students interested in these paid positions should stop by 103A Norwood Hall this Thursday at 5:00 or call 341-4235.

What's Up at UMR

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

Financial Aid

THE AIR FORCE IS STILL HIRING and has 2 and 3 year scholarships available through the Air Force Reserve Officer Training Corps (AFROTC) for qualified college students in selected engineering, science, and nontechnical majors. Scholarships cover most tuition and laboratory, textbook, and incidental fees plus a \$100 monthly allowance. If you are a freshman, sophomore, or junior and are interested in scholarship opportunities, please contact AFROTC in Harris Hall, room 206 or call 341-6541

Meramec Area Legal Aid Corporation (Legal Aid) will begin serving clients in a new area of the law. Legal Aid will provide an attorney free of charge to eligible clients for simple estate planning. Clients can now receive help with planning for the future.

Services to be provided include simple wills, powers of attorney, beneficiary deeds and documents known as "Living Wills". Legal Aid serves clients in a 12-county area of South Central Missouri. Persons who are requesting legal assistance in the area of simple estate planning or other areas may call 341-3655 or 1-800-999-0249 to apply for free legal services.

Students considering the continuation of their educational careers should look to the U.S. Department of Energy (DOE) for a helpful hand. Tens of thousands of dollars are available for students interested in pursuing master's or doctoral degrees in such areas as nuclear engineering fusion energy, applied health physics, radioactive waste management, and industrial hygiene.

Graduate fellowship programs sponsored by DOE and administered by the Oak Ridge Institute for Science and Education provide full payment of tuition and fees, monthly stipends, and the opportunity to gain practical experience at DOE laboratory. Awards vary depending on the specific program and the degree being pursued.

All programs require the submission of a fellowship application and completion of the Graduate Record Examination (GRE). Students must have received their undergraduate degrees in a science or engineering discipline by August 1995.

Selection is based on academic performance, recommendations, and a statement of career goals by the applicant.

Fellowship applications are being taken through Jan. 31, 1995, and awards will be announced in April 1995. For applications or additional information, contact Sandra Johnson or Marcia DeMarcus, ORISE Fellowship Programs, Oak Ridge Institute for Science and Education, Science/Engineering Education Division, P.O. Box 117, Oak Ridge, Tenn., 37831-0117, or call 1-800-569-7749. FAX-on-demand can be utilized by simply dialing (615) 483-7652 from any touch-tone phone. A recording will guide you through the call and will ask you to input your fax number. A copy of the specific program description/application form or program flier you requested will automatically be faxed to you.

The Oak Ridge Institute for Science and Education (ORISE) was established by the U.S. Department of Energy to undertake national and international programs in science and engineering education, training and management systems, energy and environment

systems, and medical sciences. ORISE and its programs are operated by Oak Ridge Associated Universities (ORAU) through a management and operating contract with the U.S. Department of Energy. Established in 1946, ORAU is a consortium of 82 colleges and universities.

ANNUAL COMPETITION FOR FULLBRIGHT GRANTS OPENS

The United States Information Agency (USIA), the J. William Fulbright Foreign Scholarship Board (BFS) and the Institute of International Education (IIE) announce the May 1, 1994 official opening of the 1995-96 competition for Fulbright Grants for graduate study or research abroad in academic fields and for professional training in the creative and performing arts.

The purpose of these grants is to increase mutual understanding between the people of the United States and other countries. They are funded under the Mutual Educational and Cultural Exchange Act of 1961 through an annual appropriation made by Congress to USIA. Participating governments and host institutions in many countries also contribute. The BFS, composed of 12 educational and public leaders appointed by the President of the United States, establishes criteria for the selection of candidates and has the final authority for the awarding of grants.

For all grants, applicants must be U.S. citizens and hold a bachelor's degree or its equivalent by the beginning date of the grant. Creative and performing artists are not required to have a bachelor's degree, but they must have four years of relevant training or study. Candidates in medicine must have an M.D. or equivalent at the time of application.

All applicants are required to have sufficient proficiency in the language of the host country to carry out their proposed study or research.

Fullbright Full grants provide round trip international travel, maintenance for the tenure of the grant, a research allowance, and tuition waivers if applicable. Fullbright Travel Grants provide round trip travel to the country where the student will pursue study or research and are intended to supplement maintenance awards from other sources that do not provide funds for travel. All grants include basic health and accident insurance.

Complete program and application information is contained in the brochure, "Fullbright and other grants" for graduate study or research abroad, 1995-96." Students currently enrolled in a college or university should contact their on-campus Fullbright Program Advisor for brochures, application forms, and further information.

RURAL MISSOURI, INC.

If you have been employed as a farm worker in the past two years, you may be eligible to receive free tuition assistance for your education.

If you have worked as a farm, orchard, greenhouse or poultry/egg production employee, you may qualify.

To obtain details and the field representative closest to you call 1-800-234-4972.

The University of Missouri-Rolla chapter of Phi Kappa Phi National Honor Society invites outstanding UMR seniors to apply for fellowships worth up to \$7000 for first year graduate or professional study.

Phi Kappa Phi will award 50 fellowships nationwide and 30 additional honorable mention awards of \$1000. The awards will be based on scholastic achievement, standardized test scores, honors and enrichment programs, campus and community leadership activities, study and career goals, and faculty evaluations.

Graduating UMR seniors with superior academic and leadership records should contact Phi Kappa Phi

representative Jerry Bayless at Room 101 Engineering Research Laboratory, 341-4151, for additional information and for application forms. The deadline to submit applications is Feb. 1.

Phi Kappa Phi, founded in 1897, has more than 250 chapters at universities and colleges throughout the nation. It is the only major national scholastic honor society that recognizes academic excellence in all disciplines.

ATTENTION DECEMBER GRADUATES. Commencement announcements are now available in the Registrar's Office for all graduating students. These announcements are provided by the University at no cost to students who will be graduating on December 17, 1994.

ON CAMPUS INTERVIEW EVALUATION READY!

If you have had at least three on-campus interviews this fall, be sure to check at the Career Opportunities Center to pick up your interview evaluations.

This new service for students was started in order to provide feedback from recruiters regarding your performance during the interview. These evaluations point out strengths and weaknesses any may result in improved interview techniques.

Students are evaluated on five levels from "outstanding" to "not acceptable" in seven key areas:

Interviewing skills
direction
knowledge of company
academic qualifications
appearance
experience
personal qualifications

Recruiters take into account impressions that come across during the interview such as presentation of ideas, sincerity, confidence, decisiveness, vocabulary, body language, eye contact, preparation.

Jamie Archer, director of the COC, says the new service has been successful this semester with some valuable feedback for students. "This is an optional program for recruiters. So far, we are very pleased with the number of recruiters who are taking the extra time to fill these out and leave them with us.

"Overall, UMR students are ranking above average or better. For those indicating a weak area, a COC staff member will review the evaluation with them and will suggest interview technique improvements."

In addition, students may now also evaluate recruiters. Evaluations of recruiters that are to be filled out by students are available in the COC. Recruiters appreciate feedback too, so students are encouraged to complete the brief form immediately after their interview at the COC. All evaluation sources are anonymous and evaluations of recruiters will not be mailed to them until the end of the semester.

Four scholarships will be awarded: on graduate level scholarship - \$600; one undergraduate level scholarship - \$500; two for elementary, high school or youth group project - \$250 each.

The graduate applicant must be enrolled in a field of study related to natural science and earth resources in an accredited college or university. Undergraduate applicants must be 60 credit hours or more and should be enrolled in areas related to the field of conservation. Preferences in all cases will be given to applicants enrolled in Missouri schools. For application forms write: Charles P. Bell Scholarship, Conservation Federation of Missouri, 728 W. Main, Jefferson City, MO 65101 or call 314-634-2322 or 1-800-575-2322. All applications are due by February 1, 1995.

The NAWIC Founder's Scholarships are offered to men and women who are pursuing degrees in fields related to the construction industry. Applicants must be enrolled full-time in a course of study leading to a degree/certification in a construction-

oriented field. Applicant will be considered on the basis of interest in construction, grades, extra-curricular activities, employment experience, advisor's evaluation and financial need. Applications are available in the Student Financial Aid Office, G-1 Parker Hall. Application deadline is: postmarked by February 1, 1995.

The St. Louis NAWICS scholarship is offered to men and women who are pursuing degrees in fields related to the construction industry. Applications available in the Student Financial Aid Office, G-1 Parker Hall. Application deadline is April 1, 1995.

Who can apply Full time undergraduate students enrolled in a degree program at an accredited 2- or 4-year college or university who are majoring in accounting with at least a "B" or better grade point average.

Applicants and more information on scholarships is available in the student financial aid office, G-1 Parker Hall. Application deadline is March 10, 1995.

Applications for the C.J. Grimm Scholarship are now available to engineering students. To be eligible students must be in the upper one fourth of their class and be juniors or seniors who are progressing satisfactorily toward a baccalaureate degree in engineering. Financial need is not to be considered. Applications available in the Student Financial Aid Office, G-1 Parker Hall. Application Deadline is February 1, 1995.

This competition recognizes exceptional achievements, as well as the vision, determination and academic excellence of female college juniors from across the country. Eligibility: Any woman who is a full-time junior (third year of undergraduate study) at an accredited college or university for the 1994-95 academic year is eligible to enter. Application deadline is January 31, 1995.

Requirements must be a high school graduate of Rolla, St. James, Newburg. Grade Point Average 3.0 or better. Applications available in the Student Financial Aid Office, G-1 Parker Hall. Application deadline is no later than April 1, 1995.

Applicants must be full-time students who have

completed 30 credit hours and be enrolled in manufacturing engineering, or manufacturing engineering technology program. A minimum overall grade point average of 3.50 on a 4.0 scale is required. Supports five scholarships of \$750 each for 1995 students. Information available in the Student Financial Aid Office, G-1 Parker Hall. Deadline for submission is March 1, 1995. The Caterpillar Scholars Award Fund, sponsored by Caterpillar, Inc. will support scholarships awarded to worthy full-time students enrolled in degree programs in manufacturing engineering technology. Must have completed a minimum of 30 college credit hours. A minimum of 3.50 on a 4.00 scale is required. Information available in the Student Financial Aid Office, G-1 Parker Hall. Deadline for submission is March 1, 1995.

The Wayne Kay Scholarship Fund, through the SME Education Foundation, will support scholarships awarded annually to worthy full-time students enrolled in a degree program in manufacturing engineering or manufacturing engineering technology. Must have a minimum of 30 college credit hours. Scholarship applicants must possess an overall minimum grade point average of 3.5 on a 4.0 scale. Information available in the Student Financial Aid Office, G-1 Parker Hall. Deadline for submission: March 1, 1995.

The Myrtle and Earl Walker Scholarship Fund, through the SME Education Foundation, will support scholarships awarded annually to worthy full-time students enrolled at institutions, including accredited trade schools, offering degree programs in manufacturing engineering or manufacturing engineering technology. Must have completed a minimum of 30 college credit hours. Students must possess an overall minimum grade point average of 3.5 on a 4.0 scale. Information available in the Student Financial Aid Office, G-1 Parker Hall. Deadline for submission: March 1, 1995.

The William E. Weisel Fund, through the SME Education Foundation, will support one scholarship awarded annually to a worthy full-time student seeking a career in robotics/automated systems. Appli-

see Aid p. 10

Missouri Miner

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

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

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

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

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

Opinions

Carver - he wrote the book on self reliance

By John Silveira

What were you listening to when I got to your house? Sounded nice. I don't think I've ever heard it before."

O.E. MacDougal looked at me from across the table. He's the poker playing friend of Dave Duffy, the fellow who publishes this magazine. It wouldn't be much of a reach to say that he's helped me write an article or two in the past.

He got a distant look in his eyes. The waitress came over with the coffee pot and looked at me. I nodded and she refilled my cup.

She turned to Mac. "More coffee, Hon?"

"Please."

She put her hand on his shoulder as she poured until his cup was refilled. Then she left.

"Raff," he said. "What do you mean, raff?"

"Joseph Raff."

"Who's that?"

"The composer you were asking about. I had his fifth symphony on. It's called the *Lenore Symphony*."

"I've never heard of him."

"I'm not surprised. But he was quite the composer in his day. Mendelssohn and Liszt thought a lot of him and many in his time thought he was the greatest symphonist of the late 19th century."

"What happened to him?"

He shrugged. "He fell into obscurity. I'm not sure why. It happens. Today you can't even find his name in the indices of books about classical music."

He pushed a little piece of chicken around his plate. "Other than the *Grove Dictionary*, I can think of only one that even mentions him—Michael Walsh in *'Who's Afraid of Classical Music'*—and he only mentions him in one paragraph."

He speared the piece of chicken but held it on his fork. "He'll have his day again, though. Other composers have fallen into disfavor only to be rediscovered, later. Bach, Dvorak, Berlioz, even Beethoven. Sometimes, it takes a generation or two."

"But you're not going to wait." "Life's too short not to listen to good music. Of course, not everybody has the same taste in music I've got."

He laughed. "By the way, what are you writing about this issue?"

"I'm going to try to explain the national debt."

"Oh." He ate the chicken.

"How it came about, what it means to us, how it's going to affect our future..." My voice trailed off.

"What do you know about it?" "Nothing, yet. I'm reading up on it."

He pushed another piece of chicken around on his plate.

"There's not much to write about, otherwise. It's the January/February issue. Kind of a slow time of the year."

"Depends on what you're interested in. February is Black History Month."

"I don't imagine much of our readership is black. Besides, what would there be to write about? I usually do something historical and try to tie it in with the readership."

"That's why I said Black History Month. You should write something about George Washington Carver."

He put his fork down and took a drink of coffee.

The waitress came back. "Everything okay?"

"It's wonderful, Betty."

She smiled at him and left again. A baby in a booster chair two tables away kept grinning at him. Mac couldn't help but smile back.

We ate in silence for a few minutes. I don't always like silence. "George Washington Carver? Wasn't he the peanut guy?"

"Yeah, he said, the peanut guy."

"Why would my readers be interested in him?"

"There was a time when he was one of the most famous men in America. Besides that, if your readers knew much about him, they'd identify with him—white readers, black readers, brown, yellow, red...do we have any other colors?"

"Why?"

"Carver believed in something your readers seem to have in great abundance but which is otherwise sadly lacking in most of this country today."

"Peanuts?"

He looked up at me. "No, self reliance. Those little words that appear on the cover of your magazine issue after issue. Carver stressed self reliance."

"Oh." I thought a minute. "I don't think there's really any kind of a story there, but tell me a little about him anyway."

Born a slave

He brought his fork to his mouth and held it poised for a moment, then put it down. "Let's start from the begin-

ning. He was born in Newton County, Missouri. No one knows just when he may have been born as early as 1860, but most historians think he was born in 1864, the next to last year of the Civil War—or, if you're from the South, the War Between the States.

He was owned by Moses and Susan Carver of Marion Township, which is near Diamond, Missouri."

"Owned?"

"He was a slave. The guy who owned him, Moses Carver, was pretty interesting himself. He was an eccentric intellectual living out there in what would today pass as the backwoods of Missouri. When his brother and sister-in-law died, some time in

well and in 1859 she gave birth to a boy named Jim. Jim was most certainly part white but history no longer remembers who his father was. He grew into a large powerful young man and provided a great deal of labor for the Carvers. But, in 1883, he died of smallpox. He was 24.

"Sometime around 1864, Mary had another baby, George. Unlike Jim, he was sickly and frail, right from birth."

"Was part white, too?"

He shook his head again and took a sip of his coffee. "It's almost certain he wasn't. His extraordinary dark coloring and other features he had led most who met him—both blacks and whites—to believe he didn't have any white blood in him at all. Later in life, it would cause him problems with other blacks."

"Why would it be a problem with blacks?"

"We'll get to that."

"Okay. But how come he was so sickly?"

"I don't know but historical evidence supports the theory that he was tubercular and suffered chronic bouts of pneumonia."

"Kidnapped"

"Did Moses Carver feel like he got a bad deal with Mary because she had a sickly son?"

"Not at all. Mary and her sons were more than just slaves to the Carvers. The Carvers went out of their way to treat them like family. In fact, some time near the end of the war, Mary and George—who was still a baby—were carried off by bushwackers from Arkansas..."

"Bushwackers?"

"Yes. Missouri was one of the slave states that stayed in the Union. Northern sympathizers were constantly terrorizing anyone with Southern leanings and the Southerners returned the favor. The raiders supporting the South called themselves bushwhackers. The ones supporting the North were called jayhawkers. On this particular night, bushwackers carried off Mary and George."

"They didn't kidnap Jim, too?"

"He was hiding with Moses."

"So, what happened to George?"

"Carver wanted them both back. He had a neighbor, a man named John Bentley, who served the Union Army as a scout. He asked Bentley to go into Arkansas and find them. He did, but all he came back with was George. He never found Mary and nobody knows



George Washington Carver

what happened to her. But, as a reward, Moses gave him a prized race horse for returning George.

"After the war, of course, slavery was outlawed but the Carvers raised the two boys and Moses and Susan were the only parents George ever remembered."

"So, George never really knew his mother?"

"No, and the only mementos he had of her were a spinning wheel she had used when Moses owned her and the bill of sale that was his record of her purchase."

"Kind of hard to imagine living like that."

"It is. But the Carvers were very good to them. George was so frail and sickly that they excused him from the farm chores. Instead, he took the place of Mary and helped Susan in the house. And, when he was done with his chores, he was allowed to go out on his own to play and indulge himself in the hobbies he was acquiring. The Carvers knew he was special. I don't know if anyone recognized him as a genius yet, but he was certainly different from the other kids—both black and white. He learned quicker and learned more. He showed a fascination with collecting things: snakes, frogs, plants, rocks, almost anything and he had an insatiable curiosity about the world around him. One of his childhood projects was to plant a garden in the woods; he went there everyday and experimented with things so he could see how they grew. He learned so much, adults started coming around to ask his advice on how to treat their own plants."

"Everyone liked him, blacks and whites alike, but it was whites he spent most of his time with. The white children he grew up with became some of the best friends he ever had and he corresponded with many of them until he died. Perhaps it was because the Carvers raised him, but throughout his life, though he always felt a kinship with blacks, he was more comfortable when he was around whites. I think a lot of black activists today resent him because he was like that."

"Search for an education"

"But nothing lasts forever and he finally ran into discrimination. He and his brother were admitted to public school. They weren't there long before they were thrown out because of their race. This in spite of the fact that the new Missouri state constitu-

he had to conduct his research on a shoestring budget.

"Also, his position was director of the agricultural department and Carver, for all his genius, had no talent for either organization or administration. This shortcoming would plague him for most of his life.

"I'll tell you right now, if you want to hear about Carver's shortcomings, I can tell you about them. He wasn't a good administrator and he didn't deal with bullies very well. But I'm not going to spend a whole lot of time on his faults. It's enough to say that he soon found himself in a bitter rivalry with one of the other faculty members. This was a man named George R. Bridgeforth. It was a rivalry even Booker T. Washington could never resolve and it hounded Carver until after Washington's death when Bridgeforth left the Institute."

"What do you think is the most important thing Carver did?" He thought a moment. "He did two important things to my way of thinking. First, he stressed the concept of self reliance to the poor. That contribution has been largely forgotten so let's say it's a lesson for us to relearn today."

"What else?"

Help for the poor

"What else?" he said to himself and looked up at the ceiling for a moment.

"Carver genuinely wanted to raise the standard of living of the poor—and blacks were the poorest of the poor. But he knew that before they could become educated, before they could go out and get an education, before they could be free, they had to be able to feed themselves.

"But you've got to understand Southern agriculture as it existed in his time to know what he was up against. There were many small farmers but not many small farms. Most of the land was in the hands of large landowners who leased it out. The people who farmed were mainly sharecroppers. But their farming techniques were backward. They didn't even use farming methods that were modern by the standards of their day.

"And there was the problem of cotton. King Cotton, they called it. If you had a farm, it's likely that that's what you grew. But, with so many cotton producers, the market price of cotton stagnated while the cost to produce it kept going up. To compound the problem, cotton depletes the soil, and as soils became depleted, less cotton could be produced on any given parcel of land. So farmers got less for their efforts. But if a farmer went to the bank for a loan to buy seed, tools, fertilizer, or even more land, the creditors insisted that cotton be grown because that was the crop they felt safe with."

"The old vicious circle," I said. He nodded. "This dependency on a single crop and the depletion of the soil were the problems Carver set out to solve. And though he was eventual-

ly lauded by the agricultural business—particularly the peanut growers—it was the man at the bottom he most wanted to help.

"There was no single great discovery or invention he found. One of his first experiments, though it doesn't sound like much, was to try supplementing hog feed with acorns. I think everyone thought he was crazy for attempting it but after he published his results, he immediately won recognition from experimental stations at white colleges for both his presentation and his practical approach. There were large areas with oaks where the acorns were left for the squirrels or to rot on the ground. He invented a strategy for using them to help farmers."

"You're right, it doesn't sound like much."

Recognition comes

"No, it doesn't. There's a myth today that Carver somehow single-handedly saved Southern agriculture, but it's not true. The real contributions he made were all kinds of little discoveries, here and there, by which he hoped poor farmers could lift themselves, through self reliance. The little discoveries are overlooked, for the sake of the greater myth, and I think that does Carver a disservice.

"So, tell me what some of these discoveries were?"

"Chief among them were experiments he conducted with crops besides cotton. He was looking for something that could be grown and sold by Southern farmers that would replace, or at least supplement, cotton. He experimented with sugar beets and rice and many other plants. But the plants that showed the greatest promise were cowpeas, sweet potatoes, and the plant that would make him famous—the peanut.

"Among the advantages these three plants had was that they helped rebuild the soil. Cotton depletes the soil because it uses up the nitrogen compounds there and every living thing needs nitrogen. That's why when farmers planted cotton year after year they got smaller harvests with each successive planting until it was no longer profitable to plant on that patch of land. So they'd have to move on to a new tract."

"And those three plants help rebuild the soil?"

"Yes."

"How?"

"Plants, like all living things, need nitrogen to build proteins, and though the air around us is 78 percent nitrogen, they can't just take it from the air. So they get it from compounds in the soil. Believe it or not, lightning produces some of these compounds and the rain washes them into the soil. But that's not enough. More importantly, plants like legumes—and peanuts are in the legume family—are in a symbiotic relationship with bacteria that convert nitrogen into usable

compounds. These bacteria live on the roots of these plants, produce nitrogen compounds that dissolve into the soil, and the plants use the nitrogen compounds.

"Even plants like clover or alfalfa do this—and he experimented with those, too."

"Don't chemical fertilizers replace the nitrogen?"

"Poor farmers couldn't afford chemical fertilizers."

"I take it Carver had a thing against cotton."

"Oh, no. He knew it was still the mainstay of southern agriculture and he conducted some very promising experiments with it, even developing his own hybrids. Scientists from Europe began soliciting his opinions and recommendations and sent seeds from Europe, Africa, and Asia to him to test at his experiment station."

"Really, they knew who he was in Europe?"

"Yes, his name was spreading. In 1910, an English nobleman, named Sir Henry Johnston, toured the United States and spent quite a bit of time at Tuskegee. He wrote a book called, *The Negro in the New World*. In it he talked about Carver who, though gaining recognition among his peers, was still largely unknown outside of the South. But Johnston considered Carver as good or better than any European botanist.



Carver around 1897

"In 1916, many Americans were surprised to learn that Carver, a man born a slave, had received an invitation to become a member of the Royal Society for the Arts and Sciences in Great Britain. Newspapers began to take a closer look at him

"But these were the professional people. Among Southern farmers there was still a great deal of resistance to the new ideas. He had to sell them on the advantages of the new crops. Farmers, by their very nature, tend to be conservative. Farming's a gamble, but it's not like a poker game where you can throw in your hand if you don't like it and wait for another. With farming, you've got to play out every season and every crop no matter how bad it's going. So you do as little

as you can to put yourself at risk—and trying something new is always a risk."

Carver talks to the world

"So, how did he reach the farmers with his discoveries? I mean, it wasn't like he could go on the *Tonight Show* or something like that."

"He produced a bulletin which appeared irregularly for several years. All the colleges with experiment stations produced bulletins, but at other colleges, the scientists wrote for each other in technical language the layman had difficulty understanding. Carver introduced the concept of a bulletin that could be understood by anyone who could read. And rather than bulletins filled with theory and technical terms, he filled his with practical advice in plain direct language.

"But when farmers tried the new crops, the complaint he most often heard was that once they were harvested, no one knew what to do with them. So he incorporated into his bulletins ways to store them, cook them, convert them to household goods—such as paints or fibers for rugs, and how to use them for stock feeds."

"Make paints and stuff?"

"Yes. From peanuts alone he made milk and cheeses, flour, dyes, oils, candy, mock oysters, and even instant coffee.

"A lot of his fame rests on his search for commercial uses for various products. And he came up with quite a few.

"Another of Carver's beliefs that he expressed in his bulletins was that nature did not create waste. Waste was a human concept. He believed everything could be used whether it was leftover plant fibers, which he showed could be used to make rugs, to the stalks left after a harvest, which could be plowed under to create a natural fertilizer, something called green manuring.

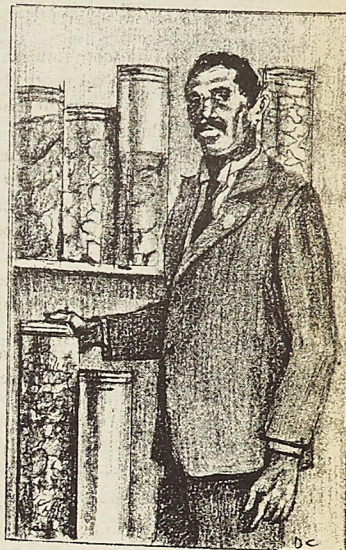
"At state fairs, he exhibited paints he had created, foods stuffs made from local weeds, and he once had an exhibit of the uses of feathers. He thought the feathers exhibit was important because it demonstrated over 50 uses for them. Then and today people thought this was ridiculous. No feather industry sprung up around his discoveries. But the point they missed was that he was showing there was no waste. For the farmer who had to be self reliant and stretch every resource and make every penny stretch, this concept was crucial. *BHM* is a magazine of self reliance. If your readers appreciate nothing else about the man, this one thing has got to ring a bell with them.

"How did the other scientists feel about his bulletins?"

"Scientists generally look down on other scientists who take a layman's approach to explain their findings. But in this case, they commended him for what he was doing. They knew it was

their job to help the farmers but it was like whistling into the wind. No matter what they discovered, the news wasn't getting to the man who needed it most. And they didn't know how to do it. Suddenly, here was this guy reaching them with real information.

"The material in the bulletins wasn't always original. Carver didn't waste



Carver in 1916

time duplicating other people's results. Often he copied things like recipes from Department of Agriculture bulletins—but he always cited the sources when he did—and he was unique in his ability to present other people's information so it could be understood. In fact, as the years went by, politicians, educators, and even other scientists often came to Carver to have the works of some scientists explained to them."

The gifted speaker

"There's something you should know about Carver: it's that he was an incredibly gifted speaker and perhaps more than anything, this is what laid the groundwork for his eventual fame. He spoke knowledgeably and used humor and understatement to beguile his listeners.

"At first he was asked to speak at other black colleges. As the years went by, the crowds coming to hear him speak included more and more white faces and more professional people. Later, he was in demand at white colleges."

"Wasn't that unusual, a black speaking at a white college in those times?"

"You bet. Sometimes, student groups stated their objections to being 'lectured to by a nigger' and made public their intentions of walking out as soon as he got up to speak."

"What did he do when they did?"

"They never did. When Carver spoke, he talked about nature, farming, science, creation...." He gestured with his hands. "Everything.

"On one occasion, two student groups made plans to walk out on him. But when he started speaking,

they listened, and he went on for quite some time and when he concluded, they were surprised to realize he was a man as good, and perhaps better, than themselves."

"Did he ever find out they had intended to walk out?"

"Sure. When he finished, the audience gave him a standing ovation but when they sat down, one boy remained standing and explained to Carver his intention to lead his delegation out of the hall. Then he publicly apologized.

"Eventually, many white southern college students came to champion Carver and many made journeys to Tuskegee after meeting him. Some did so in spite of pressures and threats from their friends and family and at least one boy was disowned by his father after going to see Carver.

"Many of the young whites he befriended later spoke and wrote for racial justice. It's hard to imagine that that would have occurred to many of them had they never met Carver.

"His reputation grew until by World War I, the USDA turned to him for advice on ways to deal with the food shortage the war had brought on.

"After Washington's death in 1915, administration of the school fell to Robert Russa Moton.

"By then, a Democrat, Woodrow Wilson, was President. Under Republican administrations, Tuskegee's influence in Washington, D.C., had grown and prospered. But under the Democrats, Tuskegee fell out of favor and both Washington and his successor, Moton, realized Carver's importance in maintaining Tuskegee's image and influence.

"Moton relieved Carver of all teaching duties, except for the sessions when he taught advanced students, so he could engage in public speaking. Even then, though, students continued to seek his advice, help, and encouragement in both personal and academic matters, and he used his now considerable influence to help graduates find jobs.

"Peanut growers asked him to speak before Congress in 1921. They wanted him to present an argument in support of an import tariff on peanuts. What the Congress didn't expect was that he was an incredibly gifted speaker. He was given only a few minutes in

which he was to provide the argument but he beguiled the Congressman who listened, and when he ran over his allotted time they kept extending it. He was such an engaging speaker, they found themselves extending it again and again.

"Because of shortages during World War I, Carver was consulted for advice to help end them. Among his proposals were the production of a flour substitute made from sweet potatoes to help ease the wheat shortage. He even proposed making rubber out of sweet potatoes."

"Really?"
"Yes. But the war ended before production could be realized and the plans were shelved until the next great rubber shortage came along with the next big war.

"Carver in the meantime had become one of the great contributors to the study of fungi that affect plants, even though he had no training in the field nor did he have the modern equipment his contemporaries had. He properly identified fungi that caused diseases in many plants—making the proper identification even when others at other colleges and experiment sta-

tions, and even at the USDA, had failed to. And as far as we can tell, he was wrong only once. Quite a record for an amateur. He was respected around the world for the work in that field.

"By the end of his life, he had many good, loyal friends. Among them were both blacks and whites, men and women, rednecks and black militants, sharecroppers and men in positions of influence and power including Vice President Wallace and automobile maker Henry Ford, and he corresponded with F.D.R. and Gandhi."

"After inventor Thomas Edison died, Henry Ford said Carver had taken the place of Edison as civilization's greatest inventive genius."

"Did Edison know who Carver was?"

"He sure did. There are stories that Edison offered Carver over \$100,000 a year to come and work for him at his laboratories in New Jersey but Carver wouldn't leave Tuskegee. That was an incredible sum of money in those days. The average man might only make two or three thousand dollars a year then."

Betty came back to the table. "Mac you haven't eaten hardly a thing." She shot me a critical stare.

"Don't blame him," he said. "You just talk too much," she said and tapped his shoulder.

He paid the bill and left a tip, thanked him and we walked out onto the street.

"It's funny," I said. "You hardly hear of Carver anymore. But I suppose someday his name will become household word again. Him and that guy... ahh... ahh..."

I scratched my head as we crossed the street.

"Raff," he said.

"Yeah, him and that guy, Raff." Δ

The direction in which education starts a man will determine his future life.

—Plato (428-348 B.C.)



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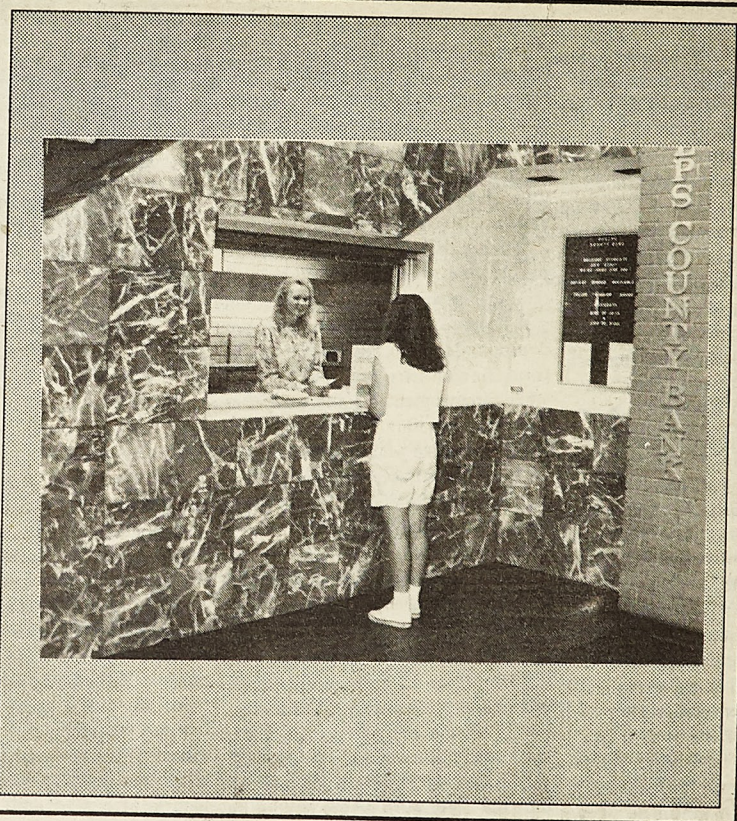
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Features

The Life and Times... Here We Go Again

Greetings yet again, one and all, and welcome back to yet another fulfilled, action-packed, caffeine-induced semester here at Missouri's good ol' Technological University. (I can just feel the joy and goodwill in your hearts brought about by leaving your landlord-less homes where someone might actually cook for you, something other than Chef Boyardee for dinner, and you could catch up on all that lost sleep that someone stole from your tired little eyes after kidnapping and holding the Sandman for ransom sometime at the end of last November. Yes, it's good to be back.) And, by the way, for any of you out there --and I know for a fact that there are a few-- who feel like you never quite finished Fall of '94 before Winter, '95, leaped out of the shadowy abyss from whence it came and into the front pocket of your bookbag (yes, that's why it feels like you're carrying a medium-sized Sumo wrestler around with you), well, folks, you certainly are not alone. I mean, after being here at UMR and breathing in whatever it is in the air that makes us like we are for an extended period of time--defined in this case as any more

than three weeks-- I realize that a person could begin to feel just a wee bit on the burnt-out side, but, frankly Scarlett, some of us are to the point of considering signing up to be the main ingredient for the S'more of the Month club: over-toasted on the outside and complete, babbling mush in the middle.

(Ya' wanna know something really scary after reading that first, rather depressing paragraph there? Last semester, I was actually accused of being too cheery. Wonders never cease.)

But enough of that gloom and doom for one issue. How were your holidays? Was Santa good to you? I think the jolly old elf must've gotten the e-mail message I sent him with my list on it, 'cause he did pretty dang good. (Oh, and just for your information, Santa must think I'm a little, um, diverse also, because my gifts included stuff ranging from a very nice business-type outfit to a set of Technic Lego's, the kind where you can build bulldozers and practice gear combinations for your machine design class. If the Lego people only knew.) Of course, since the last time I saw y'all, I also had a birthday sneak up on me, but I won't

hold it against you (too much) for not sending me a card or at least a cupcake. I'm sure you were just doing it for my own good, right? And just so you can't accuse me of neglecting you, my faithful and very much appreciated readers, let me wish you a Happy Non-birthday Day (wasn't that in Alice in Wonderland?), and if today does happen to be the anniversary of your coming onto this oh-too-swell planet, well, as far as I can see, the world can always use more Capricorns, my fellow Capricorn!!

Anyway, there you have it. Now I'd like to send out an appeal: if you've got any idea, or topic, or even a new 12-letter word you've just learned and like it so much you want to see an entire article devoted to it, please send 'em my way. I'm gettin' desperate here, folks, and I don't want my seemingly incurable writer's block to stand in the way of your ultimate happiness in this universe. I much appreciate the help. Now, be good, do your homework in crayon, and I hope your checkbooks are recovering nicely from the recent book-buying expedition.

****Laurie Wilman****

St. Pat's Is Here!

1995 is finally here, and that means the '95 St. Pat's Celebration is right around the corner. This of course means that there is not much time left to get your organizations ready to participate in the festivities. Your organization should make sure to select a student knight as well as a St. Pat's queen candidate as soon as possible. By now you should also be preparing to put all of your ideas together and begin constructing your float for the St. Pat's Parade. If you have any questions regarding your float, call Matt Grundy at 368-5323.

It is also the time of year when we begin accepting new members to the

St. Pat's Committee. If your organization wishes to be represented, then you need to select your candidates at your next meeting. The first meeting with our new members will be on January 26. If you have any questions regarding membership, please contact Josh Buedel at 364-8968.

On a side note, if you have been waiting to buy your green until the holidays were over and St. Pat's was a little closer, then now is the time to get your sweatshirts from us at the puck. We also have our '95 St. Pat's baseball hats on sale at the puck for just \$13. So get psyched because the Best Ever is only 53 DAZE away.

****Ryan Fisher****

MSM Spelunkers Meeting



MSM Spelunkers
SOURCE

The MSM Spelunkers will be having their new members meeting of the winter semester on January 25, at 6:00 p.m. in room 204 McNutt. Anyone

interested in learning more about caving, rappelling, cave biology, or other associated hobbies should drop by and see what we're all about. There will be FREE refreshments and a movie will be shown. The club meets every Wednesday of the semester at 6:00 in 204 McNutt, so if you can't make the new members meeting, feel free to stop by anytime. For more information, call 364-0253.

Arts and Entertainment

22nd Annual "American Music Awards" To Air



The Shetrin Co.
SOURCE

The 22nd annual "AMERICAN MUSIC AWARDS" special will be telecast "live" on the ABC Television Network from the Shrine Auditorium in Los Angeles, California, on Monday January 30, 8-11 PM, Eastern & Pacific time (7-10 PM, Central). The TV special is a presentation of Dick Clark Productions, Inc., with Clark serving as Executive Producer.

Hosting the telecast will be Tom Jones, Lorrie Morgan and Queen Latifah.

Nominations for the "AMERICAN MUSIC AWARDS" are in seven categories. In the Pop/Rock, Country and Soul/Rhythm & Blues categories, awards will be presented for Favorite Male and Female artist, Favorite Band, Duo or Group, Favorite Album and Single, and Favorite New Artist. In the Rap/Hip Hop, Heavy Metal/Hard Rock, Adult Contemporary and

Alternative Music categories, awards will be presented for Favorite Artist. In all, 22 awards will be presented.

In addition, a special "Award of Merit" will be presented to Prince for his "outstanding contributions to the musical entertainment of the American public." Previous recipients of this award have been Bing Crosby, Berry Gordy, Irving Berlin, Johnny Cash, Ella Fitzgerald, Perry Como, Benny Goodman, Chuck Berry, Stevie Wonder, Kenny Rogers, Michael Jackson, Loretta Lynn, Paul McCartney, Elvis Presley, The Beach Boys, Willie Nelson, Neil Diamond, Merle Haggard, James Brown, rock promoter Bill Graham and Whitney Houston.

Also to be presented on the special is the "International Artist Award," which will go to Led Zeppelin. The award recognizes those artists whose popularity and impact cross national boundaries and is only given when there is a deserving recipient of outstanding stature and accomplishments. The only previous recipients of this award have been Michael Jackson and Rod Stewart.

The special will also salute the

10th anniversary of the recording of "We Are The World." Some of those who participated will be in attendance and will help present a host of memories and film clips reviewing that historic night and the far-reaching impact it had.

Winners of the American Music Awards are selected by the public. A national sampling of approximately 20,000, taking into account geographic location, age, sex and ethnic origin, have been sent ballots by the National Family Opinion, Inc. firm under the supervision of Broadcast Research and Consulting, Inc. Names of the nominees on the ballot were compiled from data supplied by the music industry trade publication, Radio & Records, and the Soundscan Inc., management information system. Results of the voting are kept secret until envelopes are opened during the presentation ceremonies.

Among the performers scheduled to appear on the special are Black Men United, Boyz II Men, Celine Dion, Madonna & Babyface, Tim McGraw, Jimmy Page & Robert Plant and The Artist Formerly Known As Prince.

Videos to be Released...

In Late February:

Time Cop
Deconstructing Sarah
TekWar

In Mid-March:

River Wild
A Dangerous Woman

In the Name of the Father
Reality Bites
The Getaway (rated and unrated versions)

All Quiet on the Western Front
The Bingo Long Traveling All-Stars and Motor Kings

Cross My Heart
The Front Page
Going Berserk

****MCA Universal Home Video - Source****

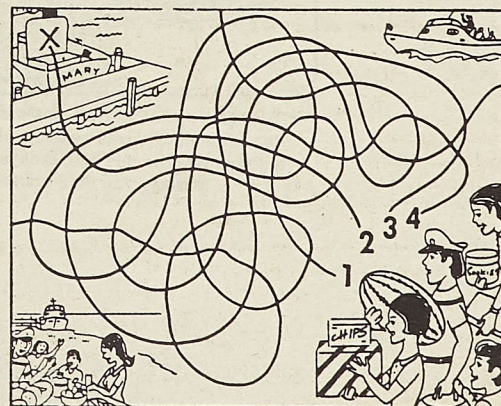
!!!Calling All Writers!!!

The FEATURES section is in pursuit of a reasonably responsible, outgoing person to help with the new ARTS and ENTERTAINMENT page of the paper. Your duty would be to find out what's going on around campus and the town itself so the rest of us poor souls might have something to distract us from our books for awhile. We are looking for things like movies, plays, bands, parties, comedians, etc., etc. This could be put together as simply a compiled list including dates, times, and admission fees, or, for the more adventurous, as an article with a brief description of the upcoming events. Either way, this is a paying position.

Also, we are always in search of ANYONE who has a little time on their hands and a lot of imagination. Writers of informal essays (like Dave Barry or Bill McClellan), short stories, and the like are always welcome, greatly appreciated, and paid.

SO JOIN NOW!!! If you are interested in either of the above positions, please come to the next Miner meeting (don't be bashful) at 5:00 p.m., Thursday, in room 103A Norwood Hall (across from Residential Life), or contact Laurie at 364-3574 or, by email, wilman@umr.

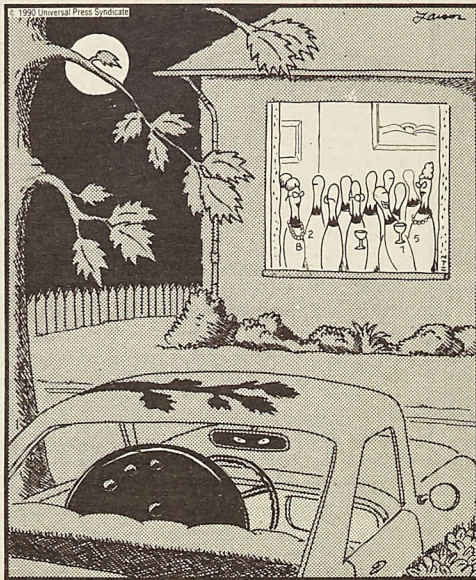
...Kids Stuff...



LAUNCH PAD! All aboard the launch, and we'll sail away to lunch. See if you can find the one path to dockside.

THE FAR SIDE

By GARY LARSON



The party-goers were enjoying themselves immensely — unaware that, across the street in the shadows, a killer waited.

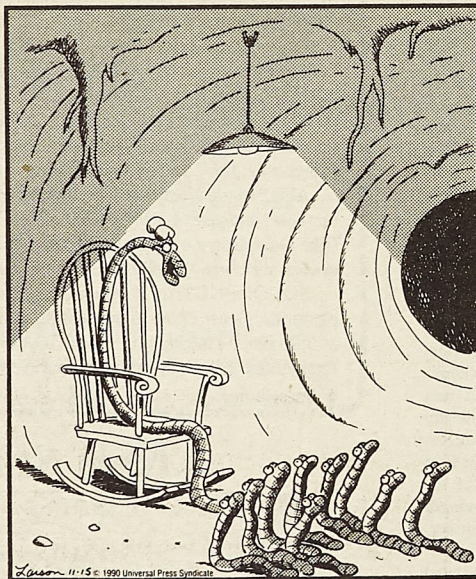
THE FAR SIDE

By GARY LARSON



THE FAR SIDE

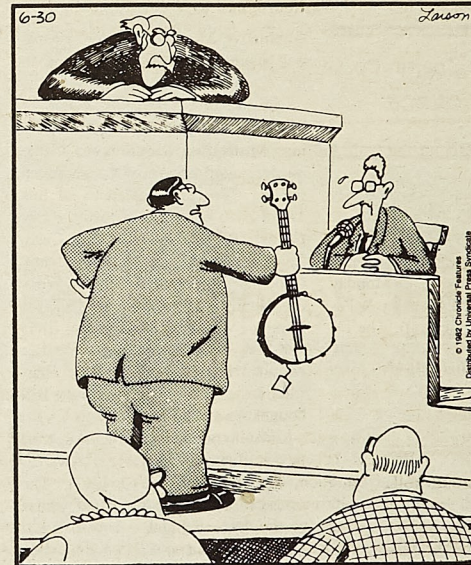
By GARY LARSON



"That story again? ... Well, one stormy night, when the whole family was asleep, your grandfather quietly rose from his bed, took an ax, and made aaaaaa you little grandkids."

THE FAR SIDE

By GARY LARSON



"So! You admit that this is, indeed, your banjo the police found at the scene ... but you expect this jury to believe you were never in the kitchen with Dinah?"

Wednesday

Men's E

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Sports

Men's B-Ball Falters Without Support



UMR Basketball
News Source

During the 1993-94 season, the University of Missouri-Rolla men's basketball team failed to win a Mid-America Intercollegiate Athletics Association game away from home. The Miners would like to start changing that situation this week as they play a pair of MIAA contests on the road.

UMR, 9-3 overall and 1-1 in the MIAA, looks to end a string of road losses in conference play at eight. UMR will try to stop that with games Wednesday at Washburn University and Saturday at the University of Missouri-St. Louis.

The Miners have been successful at ending such streaks this year, which included halting an MIAA losing streak at eight Saturday with a home victory over Northwest Missouri State. Now, UMR head coach Dale Martin hopes the Miners can keep up the effort as they head on the road for the first time in league play.

"We are going to have to have continued good play from our front line and get better play from the guards," Martin said. "I thought we played a solid 33 minutes against the nation's fourth-ranked team and then we rebounded in a must-win game against Northwest. The players really responded well on Saturday."

UMR picked up the win thanks in large part to another solid performance by Jamie Brueggeman (Centralia, Ill.). After posting 21 points, 18 rebounds

and five blocked shots in an 88-77 loss to fourth-ranked Missouri Western last Wednesday, Brueggeman came back with a 22-point, eight rebound effort against Northwest in the 76-69 win.

Brueggeman scored 13 of his 22 points in the second half and is second on the team in scoring with an average of 15.7 points per game. He also leads the team in rebounding with 11.9 per game and in blocked shots with 37. His next block will give him 100 for his career.

"Jamie has given our team some real consistent play over the last five games," Martin said. "He is making us a better team and is also proving that he is one of the best centers in the conference. Rod Jackson (Little Rock, Ark.) gave us a boost off the bench Saturday and we received quality minutes from George Lee (St. Louis, Mo./Ritenour) and Ryan Wade (St. Louis, Mo./DeSmet).

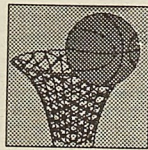
Tim Holloway (St. Louis, Mo./McCluer) continues to lead UMR in scoring with an average of 18.8 points per game.

Washburn will enter the contest with records of 7-4 overall and 1-1 in the MIAA after routing UM-St. Louis 106-78 on Saturday. The Ichabods' leading scorer, Tony Arrington, was held to 14 points on four-of-11 shooting from the field, but Washburn had six players in double figures in the win. Arrington is scoring 21.3 points a game in a reserve role while Jemi Johnson is averaging 17.5 points a game.

"Washburn has two very fine guards and two good forwards in

see Basketball, page 10

Basketball Writer Needed :



The Missouri Miner Sports Department is in search of a writer for the remainder of the 1995 Basketball season. The staff writing position would entail a general knowledge of the game, and being somewhat of a Miner Basketball fanatic. Holding a staff writer position is the first step to launch a Missouri Miner Editor position. If you feel that being payed to watch and write about basketball would be enjoyable, please feel free to contact Brian Fortelka at the Miner on Monday or Thursday afternoons or at home anytime.

Brian M. Fortelka
Sports Editor
Missouri Miner
103A Norwood Hall
Rolla, MO 65401
Miner Phone # 341-4235
Home Phone # 364-3723



Intramural Update

by: Jason Carter

Welcome back! I hope everyone had a great holiday vacation. Basketball will start this week, so make sure you have a schedule. There were rule changes voted on and approved at the last Intramural Manager's meeting, so make sure that you know what they are. They will be published in next week's Miner. Rob still needs some basketball officials, so if you have any desire to be a referee and make a little cash call the Intramural office at 341-1060. Welcome to all new Intramural Managers. Get out and practice, so you can get your basketball season off to a good start!

UMR Gridiron All-Americans



UMR Football
News Source

Sept. 19 after his performance in a win over Washburn University.

On Saturday, January 7th, Wallock participated in the Snow Bowl, as Division II All-Star game that took place in the Fargodome in Fargo N.D.

Nix also gained third-team All-America honors at defensive back after leading the MIAA in interceptions in 1994 with eight, including a streak of eight consecutive games with a pass interception which is believed to be an NCAA Division II record (the 1994 NCAA record book has no such listing for Division II). Nix, who also led UMR in interceptions in 1993, was fourth on the team in tackles with 70 this past season.

The senior from Palmyra, Mo., was named honorable mention All-America by *Football Gazette* and C.M. Frank, and to the all-region second team by the Division II sports information directors. Nix was also named to the All-MIAA second team for his efforts last season.

Wallock and Nix were among seven MIAA players named to this All-America team. Conference champion Pittsburg State had four players named, while Northeast Missouri State had the other player. North Alabama, the Division II national champion, led all schools with six selections while runner-up Texas A&M-Kingsville had five. A total of 47 schools were represented on the 1994 Division II All-America team.

In recent weeks, Wallock was named second-team All-America by *Football Gazette*, honorable mention All-America by C.M. Frank, first team all-region by the Division II sports information directors and to the Mid-America Intercollegiate Athletics Association all-conference team for the third consecutive season. He was also selected this season as the MIAA's "Defensive Player of the Week," on

Miner Basketball at the Gale Bullman Multipurpose Building

Wednesday, Jan. 18th vs. Pittsburg State

Saturday, Jan. 21st vs. Southwest Baptist

Women tip-off @ 5:45 pm followed by the Men @ 7:45 pm

Lady Miner Hoopsters Burn Up Nets



Lady Miner Basketball
News Source

The University of Missouri-Rolla women's basketball team bounced back from a disappointing performance against nationally-ranked Missouri Western and overcame a slow start against Northwest Missouri State to beat the Bearcats Saturday, and now looks to take that momentum on its first road trip of the MIAA season this week.

The Lady Miners, 7-5 overall and 1-1 in the MIAA, open the week in Topeka, Kan., where they will take on Washburn University Wednesday evening. UMR will then head to St. Louis on Saturday to face the University of Missouri-St. Louis.

"We've been in a real tough part of our schedule and it has taken a toll on our team," said head coach Linda Rob-

erts. "Now that we are into the conference schedule, hopefully we can settle into a routine.

"I thought we played well enough against Missouri Western, but we didn't play with enough intensity and emotion," Roberts added. "We played with more against Northwest -- especially on the defensive end -- and it showed in the final outcome. If we are going to do anything in this conference, we had to win that game Saturday because we could not start 0-2 at home."

UMR's leading scorer, freshman guard Becky Reichard (Newburg, Mo.), may have determined the fortunes of the Lady Miners in the past five games. Since the team returned from the Christmas break, Reichard has scored in double figures twice, including a 29-point showing in Saturday's 83-65 win over Northwest, and UMR won both games. When she scored fewer than 10, the Lady Miners lost.

"She really came back for us Saturday," Roberts said. "After that poor shooting performance against Western, she came back and showed a lot of poise against Northwest."

Reichard is one of three UMR players averaging in double figures with a mark of 17.2 points per game. Also in double figures are forward Katherine Kersten (Malta Bend, Mo.) at 13.5 points per game and guard Christie Williams (Stoutland, Mo.) at 11.1 a contest. Kersten had a streak of three straight games with double figure totals in points and rebounds snapped on Saturday when she scored only five, but Kersten still pulled down 14 rebounds in the win.

Washburn, 9-2 on the year, comes into Wednesday's game with a 2-0 mark in the MIAA and winners of six of its last seven games. The Lady Blues are paced by All-America forward Shelley Foster, who is scoring 19.8

see Lady Miners page 10

The Missouri Miner

...is searching for staff writers for the winter semester of 1995. The Missouri Miner is a great way to stay informed on the news of Rolla. The student run newspaper is a great way to refine writing skills. The Miner will hold weekly meetings on Wednesday of every week at 5:00pm in room 103A of Norwood Hall. Be there if interested or call 341-4235 for more information.

Aid

cants must have completed a minimum of 30 college credit hours. Must also possess an overall minimum grade point average of 3.5 on a 4.0 scale. Information available in the Student Financial Aid Office, G-1 Parker Hall. Deadline for submission: March 1, 1995.

The Wayne Kay Scholarship Fund, through the SME Education Foundation, will support fellowships awarded annually to worthy full-time students enrolled in a graduate program for manufacturing engineering or manufacturing engineering technology.

Fellowships awards are made only to those students who have proven scholastic ability, exemplary character and leadership capability and who have demonstrated their potential for future leadership in the profession. Graduate fellowship applicants must possess an overall min. grade point average of 3.5 on a 4.0 scale. Information available in the Student Financial Aid Office, G-1 Parker Hall. Deadline for submission: March 1, 1995.

Proceeds from the TWA Scholarship Funds will be distributed to two law students (\$3,000 each) selected by the law schools and to four additional students (\$6,000 each) selected by a University-wide selection committee. Law students may also apply for a scholarship through the University-wide competition.

Eligibility: Students must be residents of the state of Missouri as defined by the rules of the Board of Curators (see attached Factual Criteria Sheet). Graduate and undergraduate applicants must be currently enrolled or accepted for admissions to an academic program at the University of Missouri in environmental engineering or environmental science. Graduate students are eligible at any level; undergraduate students must have completed 60 hours of college course work, not necessarily at the University of Missouri. Law students who intend to pursue a career in the area of natural resources or environmental law are eligible. Prior TWA Scholarship graduate students enrolled in newspaper journalism courses at Missouri four-year college and universities to apply for \$2,000 scholarships.

Requirements:
Missouri resident
Demonstrated Interest in Community Journalism

Have Journalistic Potential
Application available in the Student Financial Aid Office, G-1 Parker Hall. Application deadline is March 1, 1995.

Academy scholarships are awarded on the basis of merit to students with excellent academic records combined with a demonstrated interest in, and potential for, a career in the nuclear power industry. will be evaluated on the basis of grade point average, GRE scores (where available), research, and other

relevant experience. Applications available in the Student Financial Aid Office. Deadline forward to office of the Vice President for Academic Affairs, 518 Clark Hall, University of Missouri-Columbia. Application deadline is March 15, 1995.

The Hispanic Scholarship Fund was established in 1995 to invest in the young Hispanic people of the Greater Kansas City Area by providing grants to both entering and continuing college students. The primary focus is to assist those Hispanics living in the area with the largest concentration of Hispanic residents, generally said to be the Argentine and Armourdale Communities in Kansas and the Westside neighborhood in Missouri.

A. The applicant must exhibit proven academic merit (as reflected in GPA and answer to essay question); financial need (as exhibited by family's gross income, size of family, and other financial need), and community involvement (as reflected in the application).

B. The applicant is a permanent resident of the Greater Kansas City Metropolitan Area and is a United States citizen or lawful United States Resident.

C. The applicant has been accepted or is enrolled in a fully accredited college or university and is working toward an associate, bachelor, or graduate degree. (Applicants attending vocational or trade schools are not eligible).

D. The applicant must be enrolled as a full-time student (minimum of 12 credit hours).

E. Applicants must be Hispanic. The objective of this program is to provide financial assistance to Hispanic Americans.

Applications available in the Student Financial Aid Office, G-1 Parker Hall. Application deadline: March 3, 1995.

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

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

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

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

Financial need is not a factor. Application available in the Student Financial Aid Office, G-1 Parker Hall. Deadline requested documents must be postmarked by April 15, 1995.

To be considered for a National Academy for

cont. from p. 2

Nuclear Training scholarship, students must meet the following requirements:

be a U. S. citizen or U. S. national.
be considering a career in the nuclear power industry

be enrolled at an accredited U. S. college/ university in an approved curriculum related to a career in the nuclear power industry, such as: nuclear engineering, chemical engineering, mechanical engineering, electrical engineering, (nuclear or power option), power generation health, physics.

be free of post-college obligations (e.g., ROTC or NUPOC)

have a minimum GPA of 3.0 (on a scale of 1.0 to 4.0) as of January 1, 1995.

must have remaining at least one but no more than three academic years of study (for cooperative education students, no more than six in-school semester or nine quarters)

Applications and more information is available in the Student Financial Aid Office. Deadline is postmarked no later than February 1, 1995.

All students who applied for federal assistance (ie: Pell Grant, Stafford Loan (subsidized and unsubsidized), Work study, etc.) for the 94/95 academic year by completing a "Free Application for Federal Student Aid (FAFSA) will be sent very soon a 95/96 Renewal FAFSA to complete. Students are encouraged to complete the renewal FAFSA after January 1, 1995 but by March 1, 1995, to apply for federal financial assistance for the 95/96 academic year.

Two \$500 scholarships will be awarded for essays discussing a current business logistics topic. An additional \$250 will be given if one submission is considered to be of exceptional quality.

All full-time or part-time Missouri or Illinois college students, with a business emphasis, are eligible.

Essays and applications must be received by January 30, 1995.

Applications of the Roy N. McBride Student Loan/Scholarship is now available. The fund will provide more than 50 awards at \$2000 each. Each award is to consist of 50% scholarship and 50% loan. Qualifications are that recipients shall be juniors or seniors who are progressing satisfactorily toward a baccalaureate degree in engineering and shall be person of good character, high integrity, and common sense, and have a good sense of applied engineering. Must have a cumulative GPA of 3.00. Recipients must have financial need. Students who receive this award for the 94/95 academic year will need to reapply to be considered for a 1995-96 award. Applications available in the Student Financial Aid Office, G-1 Parker Hall. Application deadline is February 1, 1995.



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Discounts	Suite #2	by appt.

Lady Miners from page 9

points per game and had 33 points in a win over Central Missouri State last week. Foster had 16 points to go with Sharon Pozin's 23 and Stacy Neal's 17 in Saturday's 75-61 win over UM-St. Louis.

"Washburn is a tough, physical team that has an outstanding player in Foster," Roberts said. "It will be a challenge for our younger players to see how they will play a tough team after a long road trip."

Missouri-St. Louis has lost its last four games after a 5-2 start and dropped both of its MIAA games on the road last week. The Riverwomen, led by center Angie Stubblefield's 19.5 points per game, play Tuesday at Southwest Baptist before returning home to face the Lady Miners. UM-St. Louis set MIAA records for three-pointers made and attempted last season and is out in front in the MIAA again this year with 8.4 made per out-

Basketball from page

Johnson and Arrington," Martin said. "It will be tough for us to go in there and get a win, but we have done it before and see no reason why we can't put ourselves in a position to do so again."

Missouri-St. Louis opened league play with an 88-76 win at Emporia State before the loss at Washburn, an takes a 7-5 record (1-1 in the MIAA) into a Tuesday night game at Southwest Baptist. Forward Eric Lytle, who joined the Rivermen at the semester break, leads UM-St. Louis in scoring with an average of 16.3 points per game.

Co-op Employment

SPRING 1995 CO-OP INTERVIEW SCHEDULES
 SCHEDULE ADDITIONS POSTED ON UMRINFO AND GOPHER

Company: Advanced Circuitry Div-Litton Sys.
 Date of Interview: 03/08
 Majors: MECH CHE

Method: Open

Minimum GPA: 2.450 Must be Sophomore Junior standing.
 Remarks: 2/21/95 SIGNUP RELEASED. DEADLINE TUESDAY, FEB. 28, 1995
 WORK LOCATION: SPRINGFIELD, MO
 START 1ST CO-OP WORK SESSION FALL 1995

Company: Ethyl Corporation
 Date of Interview: 02/13
 Majors: CHE

Method: PRS-Open

Minimum GPA: 3.450 Must be Sophomore standing.
 Remarks: 1/23/95 SIGNUP RELEASED. DEADLINE MONDAY, JANUARY 30, 1995
 WORK LOCATION: SAUGET, ILLINOIS
 START 1ST CO-OP WORK SESSION FALL95 OR SPRING 96

Company: Amsted Industries
 Date of Interview: 02/08
 Majors: MECH MET
 US/Perm

Method: PRS-Open

Minimum GPA: 2.950 Must be Freshman Sophomore standing.
 Remarks: 1/18/95 SIGNUP RELEASED - DEADLINE WED., JANUARY 25, 1995
 Work location: Nationwide
 START 1ST CO-OP WORK SESSION SUMMER 95
 *MUST BE PROFESSIONALLY DRESSED
 *PLEASE BE ON TIME

Company: First Brands Corporation
 Date of Interview: 02/09
 Majors: INFORMATION UNAVAILABLE AT THIS TIME

Method:

Minimum GPA: Must be standing.
 Remarks: 1/20/95 sign-up released. Deadline Thurs., Jan 26, 1995 8:00a
 Work Location: Rogers, Arkansas

Company: Baxter Healthcare
 Date of Interview: 03/02
 Majors: CHE ELEC EMAN MECH

Method: PRS-Open

Minimum GPA: 2.950 Must be Sophomore Junior standing.
 Remarks: 2/9/95 SIGNUP RELEASED. DEADLINE THURS., FEB. 16, 1995
 Work Location. Mountain Home, Arkansas
 START 1ST CO-OP WORK SESSION SUMMER 95, FALL95

Company: GE Appliances
 Date of Interview: 02/10
 Majors: ELEC MECH

Method: PRS-Open

Minimum GPA: 3.200 Must be Sophomore Senior Junior standing.
 Remarks: 1/20/95 SIGNUP RELEASED. DEADLINE 1/27/95
 WORK LOCATION: LOUISVILLE, KENTUCKY
 START 1ST CO-OP WORK SESSION SUMMER 95, FALL95, OR SPRING 1996

Company: Cargill
 Date of Interview: 02/23
 Majors: CHE MECH

Method: PRS-Open

Minimum GPA: 2.650 Must be Sophomore Senior Junior standing.
 Remarks: 2/2/95 SIGNUP RELEASED. DEADLINE THURS., FEB 9, 1995
 WORK LOCATION: SIGNEY, OHIO
 START 1ST CO-OP WORK SESSION SUMMER 1995

Company: General Motors
 Date of Interview: 02/08
 Majors: CHE ELEC EMAN MECH
 US/Perm

Method: PRS-Open

Minimum GPA: 2.950 Must be Sophomore Junior standing.
 Remarks: 1/18/95 SIGN-UP RELEASED. DEADLINE WED., JANUARY 25, 1995
 WORK LOCATION: WENTZVILLE, MISSOURI (ST. LOUIS AREA)
 START 1ST CO-OP WORK SESSION SUMMER 95

Company: Edward D. Jones & Co.
 Date of Interview: 02/24
 Majors: CMPS MGMTS

Method: PRS-Open

Minimum GPA: 2.000 Must be standing.
 Remarks: 2/3/95 sign-ups released. Deadline 2/10/95 8:00am
 Work Location: St. Louis, Missouri

Company: Harcros Pigments
 Date of Interview: 03/08
 Majors: CHE MECH

Method: PRS-Open

Minimum GPA: 2.950 Must be Sophomore Senior Junior standing.
 Remarks: 2/15/95 sign-up released. Deadline 2/22/95 8:00am
 Work Location: e. St. Louis, Illinois
 start 1st co-op work session fall 1995

Company: Harmon Electronics Method: PRS-Open
 Date of Interview: 03/06
 Majors: ELEC
 Minimum GPA: 2.950 Must be Sophomore Junior standing.
 Remarks: 2/13/95 sign-ups released. - Deadline Feb. 20, 1995 8:00am
 Work location Grain Valley, MO (KC metro area)
 start 1st co-op work session summer 95 and/or fall1995

Company: Monsanto Company Method: PRS-Open
 Date of Interview: 02/28
 Majors: CMPS MGTS
 Minimum GPA: 2.950 Must be Junior Grad Stu. Senior standing.
 Remarks: 2/7/95 sign-up released. Deadline 2/14/95 8:00am
 Work Location: St. Louis, Mo., Chicago, IL, New Orleans, La.
 Muscatine, Iowa 1st co-op work session summer 1995
 ALL INTERESTED STUDENTS ARE INVITED TO ATTEND INFORMATION MEETING,
 FEBRUARY 27, 1995 6:00PM, UCE 214 MARK TWAIN ROOM.
 1 hour interviews, pick up Monsanto application on day of sign-ups

Company: Hunter Engineering Company Method: PRS-Open
 Date of Interview: 03/03
 Majors: ELEC MECH CMPS
 Minimum GPA: 2.950 Must be Junior Senior standing.
 Remarks: 2/10/95 SIGNUP RELEASED. DEADLINE FRIDAY, FEB. 17, 1995
 Work Location: St. Louis, Missouri
 START 1ST CO-OP WORK SESSION FALL 1995

Company: Moog Automotive Method: Open
 Date of Interview: 02/17
 Majors: MET
 US/Perm
 Minimum GPA: 2.000 Must be Sophomore Senior Junior standing.
 Remarks: 2/3/95 sign-up released. Deadline 2/10/95 8:00am
 Work Location: St. Louis, MO
 start 1st co-op work session fall 1995, will also be interviewing for
 a spring 1996 opening, but greatest need now will be for fall95 start

Company: Hussmann Corporation Method: Open
 Date of Interview: 03/02
 Majors: MECH
 Minimum GPA: 2.450 Must be Sophomore Senior Junior standing.
 Remarks: 2/16/95 SIGNUP RELEASED. DEADLINE THURS., FEB. 23, 1995
 Work Location: BRIDGETON, MO (ST. LOUIS AREA)
 START 1ST CO-OP WORK SESSION FALL 1995

Company: Savage Zinc Method: PRS-Open
 Date of Interview: 02/20
 Majors: MET MIN GEOL
 Minimum GPA: 2.790 Must be Sophomore Junior standing.
 Remarks: 1/30/95 sign-up released. Deadline 2/6/95 8:00am
 Work Locations: Gordonsville, Tennessee, Thom Hill, TN; Jefferson
 City, TN.
 start 1st co-op work session summer95 and/or fall95

Company: Jefferson Smurfit Method: PRS-Open
 Date of Interview: 02/17
 Majors: ELEC
 Minimum GPA: 2.550 Must be Sophomore Junior standing.
 Remarks: 1/27/95 sign-up released. Deadline Fri., Feb. 3 8:00am
 Work Location: Alton, Illinois
 start 1st co-op work session summer 1995

Company: Union Electric Method: Open
 Date of Interview:
 Majors: ELEC MECH CIVL CMPS EMAN
 Minimum GPA: 2.450 Must be Junior Grad Stu. Senior standing.
 Remarks: 2/1/95, Wed., posted for sign-ups Deadline 2/8/95 8:00am
 Work Location: St. Louis, MO and mid-Missouri
 (MUST HAVE COMPLETED 1ST SEMESTER OF JUNIOR
 LEVEL COURSES IN YOUR CURRICULUM)
 STUDENTS INTERVIEWING WITH UNION ELECTRIC MUST BRING AN OFFICIAL
 TRANSCRIPT TO THEIR INTERVIEW - PER REQUEST FROM UNION ELECTRIC

Company: McDonnell Douglas Method: PRS-Open
 Date of Interview:
 Majors: AERO ELEC MECH CMPS EMAN
 US/Perm
 Minimum GPA: 2.990 Must be Sophomore Junior standing.
 Remarks: 3/6/95 sign-up released. Deadline March 13, 1995 8:00am
 Work Location: St. Louis, Missouri
 MUST WORK AT LEAST 3 WORK SESSIONS WITH MCDONNELL DOUGLAS.
 MCDONNELL NOT SCHEDULED TO INTERVIEW ON-CAMPUS AT THIS TIME. COMPANY
 WILL CONTACT STUDENTS DIRECTLY IF INTERESTED.

Company: Von Weise Gear Company Method: PRS-Open
 Date of Interview: 02/10
 Majors: MECH
 Minimum GPA: 2.000 Must be Sophomore Junior standing.
 Remarks: 1/20/95 SIGN-UP RELEASED. DEADLINE FRIDAY, JANUARY 27, 1995
 WORK LOCATION: ST. CLAIR, MISSOURI
 START 1ST CO-OP WORK SESSION SUMMER 1995

ANHEUSER BUSCH HAS SCHEDULED FOR FEBRUARY 23, 1995. INFORMATION UNAVAILABLE AT THIS TIME.

Summer Employment

SUMMER INTERVIEW INFORMATION FOR THE WEEK OF FEBRUARY 6-10

FORD MOTOR CO
 20,000 Rotunda, Bldg #3, Room 1007
 Dearborn, MI 48124
 Mr. Don Reese
 Method: PRS-Open
 Date of Interview: 02/09
 Majors: MECH ELEC EMAN
 Minimum GPA: 2.950
 Must be at least Sophomore standing.
 Position Available: Intern - Product Development
 Position Location: S.E. Michigan
 Deadline for submitting resume: January 25 - 3:00 p.m.

MID CON
 21864 120th Street
 Columbus Junction, IA 52738
 Mr. Ray Miller
 Method: PRS-Open
 Date of Interview: 2/09
 Majors:
 Minimum GPA:
 Must be at least standing. DETAILS NOT AVAILABLE

FORD MOTOR CO
 Dropy #3, EEE Bldg, Room C-064
 Dearborn, MI 48121-2053
 Ms. Carolyn Mitchell, Powertrain Operations
 Method: PRS-Open
 Date of Interview: 02/09
 Majors: MECH ELEC
 Minimum GPA: 2.950
 Must be at least Sophomore standing.
 Position Available: Intern - Engine Operations & Powertrain Engr
 Position Location: S.E. Michigan
 Deadline for submitting resume: January 25 - 3:00 p.m.

Full-Time Employment

FULL TIME EMPLOYMENT SCHEDULE INFORMATION FOR THE WEEK OF FEBRUARY 6-10

AMSTED INDUSTRIES
 205 North Michigan Ave
 Chicago, IL 60601-5914
 Attn: Ms. Lynn Pistello, Personnel Clerk
 Degree Level: B Minimum GPA: 2.450
 Method: PRS-Open
 Interview Date: 02/09
 Majors: MECH MET
 Grad Dates: 0595 0795
 Citizenship: US/Perm
 Position Available:
 Position Location: Nationwide
 Deadline for submitting resume: January 26

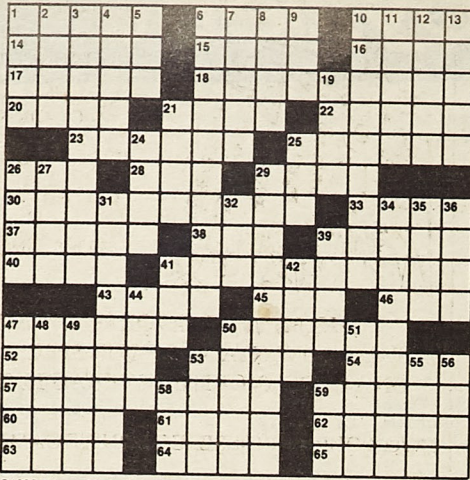
SANTA FE RAILWAY
 920 S. E. Quincy
 Topeka, KS 66612
 Attn: Mr. Larry Wright, Manager Human Resources
 Degree Level: B M Minimum GPA: 2.950
 Method: PRS-Open
 Interview Date: 02/09
 Majors: MECH
 Grad Dates: 1294 0595 0795
 Citizenship:
 Position Available: Management Trainee
 Position Location: Topeka, KS, Kansas City, KS & Barstow, CA
 Deadline for submitting resume: January 26

CHANUTE MANUFACTURING
 1700 S. Washington
 Chanute, KS 66720
 Attn: Mr. Mike McGuire, General Manager
 Degree Level: Minimum GPA:
 Method:
 Interview Date:
 Majors:
 Grad Dates: 00 00
 Citizenship:
 DETAILS NOT AVAILABLE AT THIS TIME

TEXAS INSTRUMENTS
 P.O. Box 655303, MS 8337
 DIVISION 03 COST CENTER 813
 Dallas, TX 75265
 Attn: Ms. Jodae Anderson
 Degree Level: B M Minimum GPA: 2.950
 Method: PRS-Open
 Interview Date: 02/08, 02/09
 Majors: ELEC CMPS
 Grad Dates: 0595 0795
 Citizenship: US/Perm
 SEMI-CONDUCTOR SALES GROUP
 Position Available: Semiconductor Technical Sales Representative
 Position Location: 12-18 month training in Dallas/Houston, Midland
 with relocation to a TI sales office in a major city
 Deadline for submitting resume: January 26

THE Daily Crossword by Hank Harrington

- ACROSS**
 1 Rounded
 6 War club
 10 Artistic movement
 14 An Astaire
 15 Holy picture
 16 Enthusiasm
 17 Alliance acronym
 18 Tall and sturdy
 20 — blue
 21 After bob or dog
 22 Mountain crest
 23 Felt one's way
 25 First game
 26 Fruit drink
 28 Farrow
 29 Desert garments
 30 Uninvolved parties
 33 Stimulus
 37 Step in
 38 Adherent: suff.
 39 French —
 40 Link items
 41 Immunity agents
 43 Secret society
 45 Oakland's state: abbr.
 46 Cole
 47 Make a disavowal
 50 Alpine house
 52 Crockett's last stand
 53 Puddle
 54 Wretched
 57 Bookstore item
 59 Respected hombre
 60 Take — the chin
 61 Lily plant
 62 Inert gas
 63 Headway



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- 64 Certain votes
 65 Ancient Greek porticoes
- DOWN**
 1 "The — Hurrah"
 2 European river
 3 Foreign Legion movie
 4 Change
 5 Vintage auto

- 6 Deceptive
 7 Behaved
 8 Electric wire
 9 Sp. queen
 10 Sad
 11 Unfamiliar
 12 Alighieri the poet
 13 Provoke
 19 Parent
 21 Whirl
 24 Sharif

- 25 Out-of-date: abbr.
 26 Aid
 27 Unit of force
 29 Vegetables
 31 Will
 32 Time zone letters
 34 Gallery offerings
 35 Eye layer
 36 Musical symbol
 39 Relax
 41 Insect
 42 Semitic deity

- 44 — about
 47 Fast
 48 Gladden
 49 Fowl fare
 50 Beverage
 51 — now and then
 53 Ashen
 55 Boodle
 56 Sea eagles
 58 Inlet
 59 Instrument, for short

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\$ \$ \$

Need to make some spending cash but don't want to fry burgers? Like working with people? The Missouri Miner is looking for Advertising Representatives for the Winter '95 semester. Interested persons must be motivated and dedicated. Payment is by commission, so there is no limit to how much you can earn! There are also many other editor positions that you must have been on the Miner Staff at least two semesters to qualify for. This is a great place to start. Plus it looks a lot better on your resume than shelf stocker/janitor! If this sounds like the job for you call Josh Buedel at 341-4235.

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 364-4301

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Position Openings

The Associated Students of the University of Missouri-Rolla will be accepting applications for the following positions:

Communications Director: Approximately 10 hours per week; duties include carrying out public relations programs and creating bi-weekly newsletters for students and faculty (PageMaker experience helpful).

Board Member: An undergraduate position elected by Student Council to serve on the ASUM board as a Rolla representative. Please stop by the STUCO office or the ASUM office for information before the next STUCO meeting. A representative will be elected January 24.

For more information, please stop by the ASUM office at 212 University Center West or call 341-4970. Deadline for Communications Director application is January 27.



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Don't miss the first ever Super Bowl Party at the Grotto!

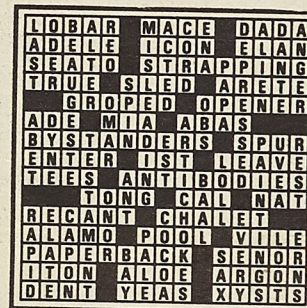
12th & PINE 364-3311

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For details, visit Room 301, Harris Hall or call 341-4744

Career Opportunities Center ORIENTATION MEETINGS

A student, not registered with the COC last fall, can purchase an application disc to participate in on-campus interviews and resume referrals this semester by attending an orientation meeting.

CO-OP
Wednesday, January 18 - 6 pm
UCE, Centennial Hall

FULL-TIME, SUMMER & CO-OP
Tuesday, January 24 - 6 pm
UCE, Centennial Hall

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HOW TO KEEP PEOPLE'S HANDS OFF YOUR MONEY.

- 🔒 Carry only enough cash to last the day.**
Anyone who tries to borrow your last five spot isn't a friend, anyway.
- 🔒 Label your spare-change jar "beetle farm."**
Then, put your beetle farm in a jar labeled "spare change."
- 🔒 Mark up every space on checks.**
Don't leave room for someone to fill in their name and extra zeros.
- 🔒 Keep your wallet in your front pocket.**
It discourages pickpockets. So does wearing really tight pants.
- 🔒 Put your picture on your credit card.**
A Citibank Photocard is tough for anyone else to use, unless they look just like you.

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