



13 Oct 1983

The Missouri Miner, October 13, 1983

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MISSOURY MINER

For the students of UMR

Volume 72, Number 7

Thursday, October 13, 1983

Twenty Pages

Mineral Building dedicated

by Kola Agagu

The dedication ceremony for the Mineral Engineering building (Vachel H. McNutt Hall) was held on Tuesday, October 4, 1983. The faculty, staff and students of UMR School of Mines and Metallurgy and invited guests gathered at the northwest corner of the campus which will be the future location of the Mineral Engineering building. The McNutt Hall will be a four-story structure with earth berming on its south, west and east sides.

On the stage were: Amy Shelton McNutt, after whose late husband the building is named; Joseph M. Marchello, UMR Chancellor; Don L. Warner, Dean of the School of Mines and Metallurgy. Also present on the stage were: Ray E. Morgan, professor emeritus of Geology and Geophysics

and Dr. Stewart Johnson, who accompanied Mrs. McNutt from San Antonio, Texas.

Chancellor Marchello gave the opening speech after welcoming everyone to the dedication of the Vachel H. McNutt Hall. "This is a very special day for UMR," said Marchello. He also expressed appreciation for the long standing devotion of Mrs. McNutt to UMR. Marchello then proceeded to introduce the dignitaries seated on the stage. Frank Mackaman, director of UMR Alumni Association was also introduced. Mackaman was instrumental in arranging the dedication ceremony.

Marchello then spoke highly of Vachel H. McNutt, a Missouri School of Mines graduate whose discovery of oil, gas and potash greatly shaped U.S. national economy. Chancellor Marchello also spoke of

the important role played by Mrs. McNutt during and after her husband's death. "She accompanied Vachel to the field and helped with the maps," said Marchello. Mrs. McNutt, said Marchello, ran the family ranch after her husband's death in 1936.

Chancellor Marchello next presented Amy Shelton McNutt who then gave a short speech. "It's a pleasure to be here despite the trouble with my hat," joked Mrs. McNutt. She wished us more years of happiness and education at UMR. Mrs. McNutt then went on to talk about her late husband. "He found potash while others were busy looking for sand and oil," she remarked.

Marchello then called on Don L. Warner, Dean of School of Mines and Metal-



Amy Shelton McNutt speaks at the Vachel H. McNutt Hall dedication ceremony on October 4. Seated, left to right, are: Ray E. Morgan, Professor emeritus of Geology and Geophysics; Dr. Stewart Johnson, who accompanied Mrs. McNutt from San Antonio, Texas; Amy Shelton McNutt, after whose husband the building is named; Don L. Warner, Dean of School of Mines and Metallurgy; and Joseph M. Marchello, Chancellor of U.M.R.

Kola Agagu

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Long Range Planners schedule meetings

BY JANE SHEPUTIS

The UMR liaison Long-Range Planning Committee held their first meeting in a scheduled series last Tuesday, Oct. 3.

The Board of Curators appointed UM system's Long-Range Planning and Steering Committee last spring to propose long-term designs for the future of the University of Missouri. This Steering Committee will use liaison committees from each campus—UMC, UMSL, UMKC, and UMR—to contribute ideas and information on critical issues and to provide a framework for

use in strategic planning.

The Steering Committee is using a time table developed by a hired consultant, Dr. Robert Shirley, as a tool to assimilate some plans and ideas for the University of Missouri. Critical issues to consider were suggested by Steering Committee members and the liaison committees, these issues were divided into seven categories. These categories will form the themes of the following scheduled Steering Committee meetings:

"Missions" on Oct. 12-13
"Clientele" and "Goals and Objectives" on Nov. 10-12
"Programs and Services" and

"Comparative Advantage" on Dec. 7

"Organizational Structure and Governance Mechanisms" and "Principles of Financial Planning" on Jan. 15-17. Liaison committees are required to send their input in approximately a week before each respective meeting.

According to the UM system-wide newsletter *Spectrum*, "The Steering Committee plans to develop a draft report at its February 8 and 9 meeting." This draft, like the results of other Steering Committee meetings, will be shared with each liaison committee.

A final report ready for

submission to the Board of Curators is expected by March 22. However, neither Chancellor Marchello nor local committee member Rex Williams forsee the final copy ready until late 1984 or early 1985. This report's consideration of the University's organization and financial planning should be an important issue in the search for a new university president.

The UMR Long-range Planning Committee meeting on Oct. 3 critiqued the general university mission statement that was made in the system-wide meeting in Columbia on Sept. 13-14. The first critical

category, "Missions," was discussed, ideas and suggestions were mailed to Columbia by Oct. 6 for the system-wide meeting on Oct. 12-13. Who should be considered the University's clients and how important are the traditional roles of instruction, research, extension, and service were some of the ideas discussed.

According to local committee member, Professor Harry Weart, the local committee "first gathered information and clarified some reports to send to the Steering Committee; they decide what to do."

On Oct. 26, the local committee will meet again to dis-

cuss the second and third critical issue categories, Clientele and the goals and objectives of the University, reports made by the Oct. 13-14 system-wide meeting and by other campuses will be evaluated also. Some concerns scheduled to be discussed are acceptance restrictions, the future population of the university, ways to regulate it and what goals the university should establish for itself to accomplish on behalf of its students, its faculty and society.

see Long Range
page 2

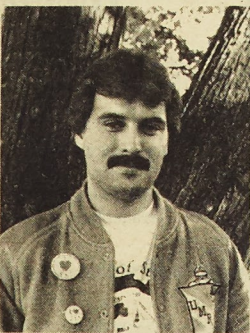
Miner of the Month

Submitted by
Kathy Von Rump

Andy Cox of Sigma Pi has been chosen as the Blue Key Miner of the Month for April, 1983.

Andy has been very active as a member of the Interfraternity Council for which he has served as Publicity Chairman and Secretary. Many may remember him as Hades at the 1983 Greek Week Festivities. He is also a member of Blue Key and Pi Tau Sigma. He has served as secretary and

president at Sigma Pi.



Nancy Winkler

Along with all of these activities, Andy, as Sigma Pi's Special Projects chairman, organized the LOVE (Local Organization for Various Emergencies) radio auction. He and his committee were able to raise over \$10,000 of merchandise for use in the auction. The auction ran very smoothly and raised approximately \$3,900 for LOVE.

For these accomplishments, Andy's name will join others on a plaque in the Student Union. Congratulations, Andy!

Fall financial aid disbursed; some problems found

BY KOLA AGAGU

"Financial aid for the fall semester 1983 has been disbursed," says Bob Whites, director of Student Financial Aid. There were, however, some unusual circumstances beyond the control of the Financial Aid Office resulting in non-payment. Such situations include: a) forms not being sent to students by the processing center; also, b) forms could have been sent to

the wrong person or the wrong address. Thus, apart from the unusual circumstances mentioned above, funds should have been received by all students on financial aid.

All financial aid funds for the spring semester will be available to the students on the first day of spring classes. Funds can be picked up in the Cashier's Office.

Forms for financial aid for the 84/85 school year should be available around the 1st of December. In spite of this, the

first section of the form cannot be completed before the first day of January 1984. This is because the Family Financial Statement (ACT form) will not be available for enclosure before January 1.

"The form is basically the same as the one used last year," noted Bob Whites. Students should remember to

see Financial Aid
page 13

CALENDAR OF EVENTS

Editor's Note: If your organization is having a meeting, turn in details to the MINER office in the Rolla Building before Sunday at 8 p.m., and we will list it in the Activities Section of the paper. No articles submitted will be printed unless written in complete sentences with proper grammar. No schedule or flyers will be rewritten and published by the staff for the Activities Section.

If your organization is sponsoring a campus-wide event for the benefit of charity, get us details before Sunday at 8 p.m. We will advertise the event free of charge in this space.

The MINER reserves the right to edit any notices or ads for this page before publication.

THURSDAY

UMR FILM SERIES

UMR Film Series presents, 'The Point,' narrated by Dustin Hoffman, 7:30 p.m., Miles Auditorium, Mechanical Engineering Building. Season ticket or \$2.50 at the door.

COUNCIL OF GRADUATE STUDENTS

The October meeting of CGS will be held on Thursday, October 13, at 4 p.m. in M-CS 209. All graduate students are welcome to attend.

CHI ALPHA CHRISTIAN FELLOWSHIP

Chi Alpha invites you to join us for a time of fellowship and worship. Our meetings are held every Thursday night at 7:00 p.m. in the Ozark Room located upstairs in the University Center-West. Everyone is welcome.

MUSLIM STUDENTS

Muslim Students Association represents a talk on 'Jesus in Islam' by Mr. Steve Johnson (an American Muslim), 7:30 p.m. Thursday, October 13, 1983 at G-5 H-SS. All are welcome.

Muslim Students Association also provides Islamic Courses on different subjects once every two weeks. The third talk will be on the Holy Qur'an at ME 105 at 5:00 p.m. Wednesday, October 19. All are welcome.

TUESDAY

SAE

The Society of Automotive Engineers will hold its monthly general membership meeting on Tuesday, October 18 at 7:00 p.m. in the ME Auditorium (ME 104). The speaker will be Jim Callison of the Fuels Division of Product Research for the Amoco Oil Company. The topic of discussion will be 'Future Fuels For Future Automobiles'. Refreshments will be served afterwards. Memberships will be taken. Everyone is welcome.

WOMEN-AT-WORK

'What is Sexual Harrassment?', presented by Dorothy Sikyta, University of Missouri-Columbia, will be held at 12:00 p.m. in the Missouri Room, University Center-East October 18. There will be a fee of \$3.00 for the series.

Missouri Miner

The Missouri Miner is the official publication of the students of the University of Missouri at Rolla. It is published weekly at Rolla, Missouri. The Missouri Miner features activities of the students and faculty of UMR.

Editor-In-Chief	Karen Penney	364-3561
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	Sheila Courtway, Heidi Fluegel	
Managing Editor	Laura Pagano	364-3019
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	Eric Gieseke, Rick Bennett,	
	Dave Stanfield, Nancy Winkler	
Distribution	John Macke	364-9783

Subscriptions are available to the general readership at a rate of \$7.00 per semester. Articles and photos for publication in the Miner must be in by 8 p.m. on the Sunday before distribution on Thursday.

THE MISSOURI MINER

303 Rolla Building
University of Missouri-Rolla
Rolla, MO 65401
(314) 341-4312

FINANCIAL AID INFORMATION

If you wish to be considered for additional loan funds for the 1983/84 academic year, please stop by the Student Financial Aid Office by October 14th, 1983 to notify us.

In order to be considered for these additional funds, you must have a remaining need as determined by the Family Financial Statement when you applied for other financial aid earlier in the year by filling out the ACT form.

IMPORTANT TO GSL APPLICANTS!

Guaranteed Student Loans: For financial aid purposes 12 hours enrollment is considered full-time for under-graduate students.

The total time to complete the processing cycle for GSL applications averages at 6-8 weeks.

Generally eligible students may receive up to the maximum amount of \$2,500.00 per grade level.

0 - 29	FRESHMEN
30 - 59	SOPHOMORE
60 - 89	JUNIOR
90 - ABOVE	SENIOR

Different rules apply to students who changed schools or curriculum.

It cannot be emphasized enough to have the student's section and accompanying documents filled out COMPLETELY in order to avoid unnecessary delays.

PREREGISTRATION DETAILS

Preregistration for the Winter 1984 semester is open to currently enrolled students and former students who have been accepted for readmission to the University. Students should obtain their preregistration materials from the Registrar's Office beginning October 20. Registration material is to be returned to the Registrar's Office October 24 through October 28. Students should contact their department prior to October 24 for advising appointments. Some departments will not schedule appointments the entire week. See your department for details.

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

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

Theta Tau: 'Get Down at the Hoedown'

Submitted by JIM BERNDT

Theta Tau Omega will hold its annual Homecoming Hoedown next Thursday, Oct. 20 from 7 till midnight. Games such as the Mikcan Toss, horseshoes and others will add to the excitement of it all as we jam to the tunes of EXPLOIT. Fabulous prizes will be given away to the winners of the

games. Run, skip or jump to your nearest Theta Tau member and get your cup for only \$5. They'll be \$3.50 at the door if they're not sold out! Mark your calendar and join the rest of campus at Lions Club Park next Thursday. Of course, there will be unlimited refreshments. So get set to "Get Down at the Hoedown."

Local art to be exhibited

Source: OPI

Rolla, Mo.--About 50 pieces of artwork by local artists will be on display from 7 a.m. to 11 p.m., Oct. 9 through Nov. 15 in the Miner Lounge, University Center-East, at the University of Missouri-Rolla.

The art exhibit is sponsored by the Mid-Missouri Art Guild and the University Center of UMR, and will feature paintings by Jess Lee, Rosalie Bolon, Patty Rycyk and Sara Whitehead, as well as other area artists.

An open house will be held

on the first day of the exhibit, from 2-5 p.m. Sunday, Oct. 9, in the Miner Lounge. The public is invited to come and meet the artists, view their work and enjoy light refreshments.

Nancy Christy, president of the Mid-Missouri Art Guild, said that there will be an interesting assortment of artwork displayed. "There will be watercolor and acrylics as well as oil paintings," she said. "Our members do a variety of still life, landscapes and most of us have tried portraits."

WEDNESDAY

CO-OP

The UMR Cooperative Education Association will hold its third meeting on Wednesday, October 19 at 7:00 p.m. in Room CE117. The guest speaker will be Pat Eagen from McDonnell Douglas discussing the company's co-op program. All are invited.

NEXT WEEK

AACE

The second meeting of AACE (American Association of Cost Engineers) will meet Thursday, October 20 in the Mark Twain Room. Speaker will be from Kansa Power and Gas. Subject is Cost Analysis of Nuclear Power Plant Construction and Operation. All engineering majors are invited to attend. Memberships will be accepted.

See Calendar page 4

Long Range from page 7

People who have comments or questions about any aspect of the issues being considered are encouraged to contact and submit information to committee members.

The names of the local committee members are: Professor Harry Sauer, Jr., Glen Haddock, Harry Weart, J. Kent Roberts, Robert Moore, Vice-Chancellor John Park, assistant director of Physical Facilities Hugh Jesse, Dean Adrian Daane, Richard Allen, Bert Tsutakawa, Scott van Horn, Matteo Coco, Bob Bay, Nancy Munshah, Rishard Cavender, Rex Williams, director of Admissions Planning John Vaughn, and Chairman and Chancellor Joseph Marchello.

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On Sundays we celebrate the good old days. Coffee Iced Tea only 5c. Free refills!!

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I. NEVER SAY NEVER AGAIN

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Matinees Sat. & Sun. 2 p.m.

II. GETTING IT ON

Rated R

Evenings 7 & 9 p.m.

Matinees Sat. & Sun. 2 p.m.

UPTOWN

Starting Fri. TENDER MERCIES

Rated P.G.

Evenings 7 & 9 p.m.

Matinees Sat. & Sun. 2 p.m.

RTZ

Starting Fri. EVIL DEAD

Rated R

Evenings 7 & 9 p.m.

Matinees Sat. & Sun. 2 p.m.

Fri. & Sat. Adult Owl Show

11:15 p.m.

ALL-AMERICAN GIRLS

TUTORING

ALPHA CHI SIGMA

Freshman and Analytical Chemistry
7:00 - 9:00 p.m. Tuesday and Thursday
Room 126 Chemistry Building

Society of Physics

Physics 21-25 & 107
7:30 - 9:00 p.m. each Tuesday
Room 130 Physics Building

KAPPA MU EPSILON

Trig, Algebra and Calculus
Monday and Thursday 6:30 - 8:00
Room 209 Math-Computer Science Building

Minority & Women Eng. Program

Areas covered: Physics, Math, EE, ChE, E.M., Chemistry, English and Computer Science
A complete schedule of times and dates is available in Room 302 Rolla Building.

StuCo holds Open Forum

Students and organizations discuss activity fees

BY KOLA AGAGU

The stage was set for the open forum at 7 p.m. on Tuesday, Oct. 4, 1983 in room G-3, Chemical Engineering building. It must be pointed out that student turn-out was low (70-top). Those who came did so because they were genuinely concerned about the proposed increase in activity fees.

Kevin Renfro, Student Council president, opened the forum by presenting the representatives of the organizations present. The representatives would describe their organizations and explain the uses of their budget. In those cases where proposed increases or over-inflationary increases were being sought, justification was expected.

The following is a breakdown of the organizations represented at the forum, their representatives, their current per-semester (or per year) fee per student and proposed increases. The table was visibly displayed on the black board

in front of the auditorium for quick reference.

KMNR: The first speaker was Marshal Rice of KMNR who explained their budget. "One half of our budget goes toward salary for the 45 employees (all students). The other half goes toward business expenses," said Rice. "New equipment costs money. So does remodelling the station."

He also pointed out that the budget ensures their "no-commercial, no-underwriting" position. New Road-Show equipment for the proposed program modification will make music available to parties.

Rice, in response to a question, set the average student worker's wage at \$3.45 per hour.

Rollamo: Dr. Lance Williams, the yearbook faculty advisor, presented the Rollamo budget. The present cost per student for the yearbook is \$8.50 per year. The bill for the 1983 volume is \$33,950, \$1,000

of which went toward communication.

There are six section editors with an editor-in-chief and four to five assistant editors.

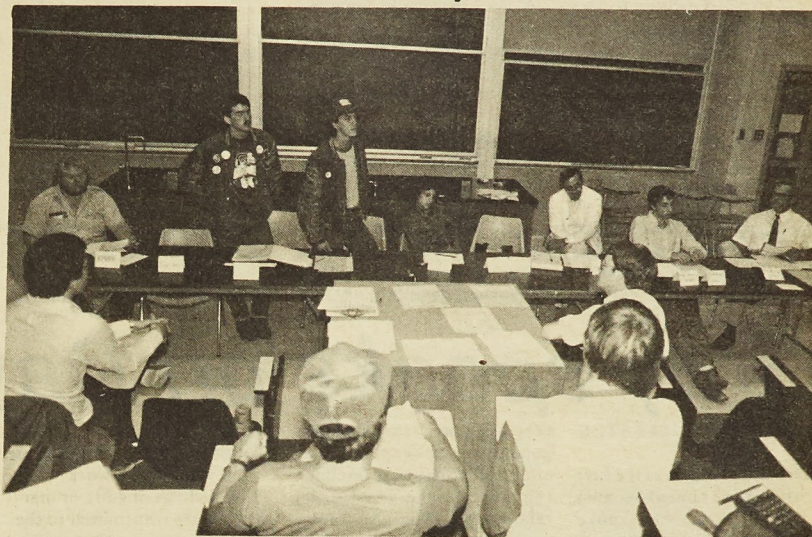
Students expressed bitter sentiments on the quality of the yearbook. One student suggested that only those who want the yearbook should pay.

In response to questions about last pick-up of the Rollamo, Dr. Williams suggested that the yearbook is still available for pick-up either through him or the editors.

St. Pat's Board: John Voss explained right away that none of the students working for the St. Pat's board is on salary. No budget increase is sought per student. Increase in budgetary demand is offset by a corresponding increase in the number of students attending UMR.

Several students expressed concern over the damage that occurs during St. Pat's week. Most disturbing to some of the students was the realization that all UMR students pay for damage done by a handful of their fellows.

Missouri Miner: Karen Penney presented the budget of the Missouri Miner. She requested an 8 percent inflationary increase. The proposed budget is \$50,000. Weekly advertising makes up the difference (approximately \$1,000-1,200 per issue).



Organization representatives present and defend their budgets at the Student Council open forum held Tuesday, October 4.

Kola Agagu

Penney insisted that because of the increased work load a salary increase for the editors is being sought and also an increase in compensation for the staff.

A new type-setting machine has been purchased to free the Miner from relying on Rolla Daily News for typesetting services.

Penney said that the increase in fees will mostly go toward paying for the typesetter. \$10,000 must still be paid on the loan for the purchase.

A question was asked on the deadline for submitting articles. This is Friday, but Penney suggested that articles would still be accepted up till Sunday night at 8 p.m. during Miner meetings.

StuCo: Student Council budget was presented by Steve Keuss. He explained that the StuCo serves as information supplier to the student body, appropriates funds and organizes blood drives, among other things.

He noted that the open

forum under way was mostly to serve as warm-up for an upcoming referendum designed to pick up students' opinions on the fee increase. After the results of the referendum are in, the Student Council will vote on this issue.

As a final step in decision making, Chancellor Marchello will, based on the results pres-

see Student Council page 5

Proposed Student Fee increases:

Organization	Representative	Present Semester Fee	Proposed Increase
1) KMNR	Marshal Price	\$4.85	none
2) Rollamo	Dr. Lance Williams	\$8.50/yr.	none
3) St. Pat's Act.s	John Voss & Mike Simmons	\$0.55	none
4) Stu. Soc. Rec. & Gen'l Lect.	John Gerling	\$4.55	none
		\$3.25	none
Inflationary Increase:			
1) Missouri Miner	Karen Penney	\$2.25	\$0.18 or 8%
2) Stu. Council	Steve Keuss	\$1.50	\$0.12 or 8%
3) I-M Activities	Billy Key	\$1.20	\$0.10 or 8%
Over-Inflationary Increase			
1) Athletics	Billy Key	\$37.40	\$3.74 or 10%
2) NonVars Sports	Steve Keuss	\$0.55	\$0.45 or 82%
3) Univ. Center & Golf Center	Mr. Jess Zink	\$23.75	\$2.40 or 10.1%
		\$2.00	\$0.20 or 10%
Total:		\$90.35/sem.	\$7.19/sem.

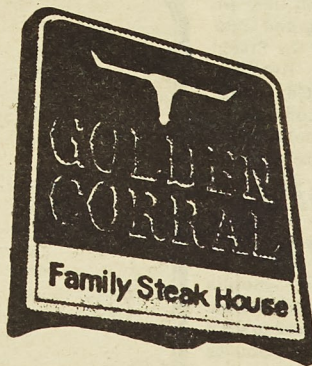
CHUM'S

"The Office" Lounge

- *Happy Hour Daily 4-6:30 p.m.
- *Tuesdays -- Miner Night (not Minor)
Half Price for Students with UMR I.D.'s
- *Wednesdays -- Men's Night
We Love Men! Come see us for half price cocktails
- *Thursdays -- Ladies Night
Come On Ladies! Bring your man & drink for half price!
Free appetizers!
- *Saturdays -- "Greek Happy Hour" 4-6:30 p.m.
Students, wear your greek t-shirts and drink for half price!
- *We also have special dinners for your parents on "Parents Day"

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and still have fun!!!

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(next to Uptown Theatre)



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- *Large Flb. Hamburger, Fries plus drink.

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Quality Makes!!!

1049 Kingshighway

Rolla, MO

\$500,000 granted to Pyromet Ctr.

Source: OPI

Rolla, Mo. —A two-year, \$550,000 enhancement grant from the U.S. Bureau of Mines will enable the Generic Mineral Technology Center for Pyrometallurgy at the University of Missouri-Rolla to "expand the scope of its research and operate at a higher level of activity," according to Dr. Arthur Morris, center director and UMR professor of metallurgical engineering.

"There is a critical need in industry for long-term pyrometallurgy research on chemistries and approaches that differ substantially from those of conventional extraction processes," Morris said. "The additional support provided by this grant will permit us to broaden some of our existing

projects and develop several new ones."

The center, which conducts research on the improvement of high-temperature processes used in obtaining and purifying metals, was established at UMR-Rolla in 1982 with funding from a three-year, \$1,003,000 grant from the Bureau of Mines. It is part of UMR's Missouri Mining and Mineral Resources Research Institute and is assisted by Purdue University, which will share in the enhancement grant.

"It was a tribute to the stature of our metallurgical engineering department that UMR was selected last year as the site for one of the nation's four Generic Mineral Technology Centers," said Dr. Don L. Warner, dean of the UMR

School of Mines and Metallurgy.

"This supplemental grant is further recognition of those individuals who worked so hard to implement the original grant and establish the center at UMR," he added. "We are grateful to the Bureau of Mines for its continued support of our efforts in this area."

The research performed at the center is basic in nature but also has practical orientation and is geared toward finding solutions to "real" problems. "It is the Bureau of Mines' intention that the work done at the center be useful," said Dr. Peter Crimes, UMR research professor of metallurgical engineering. "Consequently, our bias is decidedly toward the practical and our research projects emphasize

industrial applications."

An off-campus advisory committee, which is made up of some of the top industrial researchers in the field, assists the center's staff. "The committee's help is invaluable," Crimes said. "Because of the members' closeness to some of these problems, they can readily advise us as to the validity and need for our work. This is extremely useful in planning and developing new projects."

The progress that the center has made in its initial year has been significant. "The center has progressed well during its first year, and the program has a strong base because of the comprehensive proposal that led to its establishment," said Dan Paulson, research director at the Bureau of Mines' Rolla Research Center.

"The enhanced funding, commitment of the center's staff and advisory committee and continued close cooperation between UMR and the Bureau of Mines promises high returns for the future," he added.

Those "returns" on the center's research projects would benefit industry and, in turn, the state and the nation. "To help regain its competitive edge in the world market, American industry needs the type of new processes and techniques that we will be developing at the center," Morris said.

These projects would aid in America's industrial recovery by providing processes that would be more efficient and economical and which would yield useful new compounds. "For example," Crimes said,

"industry uses a significant fraction of the total amount of energy consumed in this country. If we are successful in developing more energy-efficient metal extraction and refining processes, industry would be able to lower its operating costs and ultimately pass that savings on to the consumer."

The work done at the center will directly benefit Missouri as well. "Rolla is near the largest lead-smelting region in the world," Morris explained, "and industry in the St. Louis area includes iron and steel making and zinc roasting. The work we are doing at the cen-

see Pyrometallurgy page 5

Gray speaks on Day Care

BY PHYLLIS J. HARSTER

Dr. Mary Gray was the first speaker in the annual Women at Work series. She spoke Tuesday on "Serendipity or Rationality: Decisions on Day Care." Dr. Gray is an assistant professor of child and family development at U-M-Columbia.

Dr. Gray cited research done across the nation to explain why she feels a good day-care

center can be just as good as a good home. She explained the effects of the day-care on children and on the child-parent relationship. She also spoke on what to look for in a good day-care center.

Dr. Gray said that there is no documentation that there are detrimental effects to children in day-care centers. What is important, though, is the parents' attitude about their own employment. If the

mother feels guilty about working, or if she stays at home while wanting to work, then those feelings of guilt or martyrdom are transmitted to the children, thus creating a poor atmosphere for growth.

There are seven lectures being given this semester. Sessions will be held on Tuesdays through Nov. 15, from noon to 1 p.m. in the Missouri Room, University Center-East.

To register, contact Arts and Sciences, G-7 H-SS, or phone 341-4201.

There is a \$3 charge for the series.

Future topics include:
Oct. 18: Sexual Harassment
Oct. 25: Women and Education
Nov. 1: Jobs without Offices
Nov. 8: The Image of Women in Science Fiction
Nov. 15: Women's Issues in the Churches

Division of Drug and Crime Control

The Missouri State Highway Patrol's Division of Drug and Crime Control is now in operation, according to Colonel Howard Hoffman, Highway Patrol Superintendent. The new division was created by legislation passed by the 82nd General Assembly and signed into law by Governor Christopher S. Bond.

Colonel Hoffman states that the division will be commanded by Captain M. E. Duckworth. Thirty-five offi-

cers presently working in the Patrol's Investigation Section, Auto Theft and Information, Narcotics, and Intelligence sections will be to the new division.

"The top priorities of the new division at this time are the complex drug and auto theft problems in the State," Hoffman stated. "However, we will not be limited to those areas. We will continue to assist the various police agencies throughout the State in

other types of investigation. Limited manpower and budget restraints will require us to use discretion in requests for assistance at the present time.

"The creation of this Drug and Crime Control Division

see MOHiPs page 10

Kate Hayles speaks to Women's Council

BY PHYLLIS J. HARSTER

Women's Council held their first meeting Monday, Oct. 3, at 4:30 p.m. in Library 202. Possible trips to Columbia to visit their Women's Center and view their program offerings were discussed. The speaker was Kate Hayles who spoke on the topic of Women's Studies at UMR.

Next fall, Kate Hayles and Linda Hughes will be teaching the first Women's Studies Program ever offered at UMR. It will be under Special Topics in English and be called an Introduction to Women's Literature.

Hayles discussed in depth the nature of women's studies in different departments and

at other universities—most of which offer many such courses. A petition was passed to see if a similar course might be offered in the philosophy department in the future.

Women's Council's next meetings will be Monday, Oct. 10, presented by Coach Maulin on Physical Fitness and Monday, Oct. 24, on Women and Health. Both meetings will be at 4:30 in Library 202. All students, faculty and staff are urged to attend. Dues are not required for attendance, and membership dues are scaled.

Anyone wishing further information may call Linda Hughes at 341-4627 or Kate Hayles at 341-2979.

Calendar from page 4

VETERAN'S CLUB

The UMR Veteran's Club will hold a meeting on Thursday, October 20 in the ROTC Building. All veteran's are invited to attend.

UMR TRAP AND SKEET CLUB

The annual UMR Trap and Skeet Tournament will be held Saturday, October 29. All members and participants should be practicing regularly every Saturday morning. Any other interested persons are always welcome to shoot with us, experienced or not. Spectators are always appreciated. For more information or directions to the range, call Chris Johnson at 364-4134. We can find transportation for you and we have shotguns and ammunition for anyone to use.

The Beat

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No phone deficiency found

BY PAUL MCLAUGHLIN

There has been talk that several departments are losing their phones. This is not entirely true, as it turns out. It is true, says Dr. Wayne Cogell, Chairman of the Philosophy Department, that Philosophy is giving up some phones. However, according to JoAnn Light, supervisor of Telephone Services, "as of now, that is the only department that has

requested [a decrease.]"

Dr. Cogell says that his department has reduced their number of phones from seven to two. With seven phones, the department's yearly cost was about \$1,717—this is out of an equipment and expense (E & E) budget of \$2,300. "There was no way we could keep the phones," he says.

Dr. Cogell says that the choice was easy "if it's a choice

between having people go off and give professional papers or having phones."

The annual cost for two phones is expected to be \$350. Dr. Cogell says this service will still allow the faculty to communicate effectively.

Dr. James Wise, Chairman of the English Department, says that his section is considering reducing its service. The phone bills in English are run-

ning about 35 percent of the E & E budget, he states.

Dr. Wise is, however, doubtful that any phones will be taken out. "We have 18 faculty, and we couldn't possibly have a single secretary handling phone calls for 18 people. . . . We're not going to make any major changes because everyone wants his phone."

He does add that most of English's WATS lines are being

removed. Their number will be cut back to "at least one or two."

Dr. Ralph Alexander, Chairman of Physics, says that his department is not planning to reduce their phone service at all. He says, "We're heavily using all the lines we have now."

According to Dr. Alexander, many lines are used as data lines for computers in Phys-

ics. Rather than cut back on phones, two new computer only lines have been drawn to free up phone lines for people.

Dr. Alexander says that Physics' phone bills are running "a little more than 15 percent of the E & E budget."

see Phones
page 10

Pyrometallurgy

from page 4

ter definitely is relevant for Missouri."

In conducting its research, the center's primary emphasis areas have been, and will continue to be, smelting, refining, roasting, oxidation, innovative approaches such as plasma processing, combined physical and computer modeling and information exchange.

"Much of the work being done at the center is highly innovative," Morris said, "and it stresses long-range studies of pyrometallurgical phenomena, instead of seeking solutions to short-range problems."

In the area of roasting, the center's emphasis is on the formation of new compounds. "We're primarily interested in

whether solid compounds can be made to dissolve each other into solution," Morris said.

"This is a very important area and one in which there is still a lot of ground to be covered."

The center's pyrophoricity research program also is geared toward industrial applications. "Metal powders have a great many uses in industry," Morris explained. "It's not uncommon, however, for these compounds to oxidize during handling and storage and for spontaneous combustion to occur. If this happens, hazardous situations can arise."

"If we can learn to predict when oxidation will occur," he continued, "then we can develop a means to prevent it

from happening. After this has been accomplished, more extensive and safer use of metal powders will be possible."

The work that the center is doing in "bubble wall" processes also will have "a wide application," according to Morris. "This is one of the most important developments in modern smelting and refining processes, and it will allow us to accomplish in fact what we know in theory we can do."

Essentially, the process involves the use of walls of bubbles to separate pools of molten metal. "Mixing is rapid within each cell or pool," Morris said, "but movement from cell to cell is very slow. This process has great industrial potential

because it permits a great deal of control over mixing and also may help to reduce contamination."

In studying the effect of gas injection on molten metal, the UMR researchers initially will substitute water for metal. "We will use the data from this low-temperature study to develop a mathematical model," Morris said. "We will then apply it to predicting the behavior in liquid metal systems."

Plasma processing, Morris said, will allow industry "to accomplish things that are difficult or impossible by other means."

"Certain types of reactions take place only at very high

temperatures," he added, "and plasma processing will allow us to provide this kind of heat and treat some materials that are not presently treatable."

Plasma is a gas that has been heated in excess of 10,000 degrees Celsius. At that temperature, the gas becomes a conductor of electricity. "The gas is used as the heating element in the furnace and the heat is applied electrically," Morris said. "Conventional heating elements would burn out at temperatures this high."

This type of processing would provide a tremendous energy savings. "You can direct the heat exactly where you want it," Morris said. "As a result, you get a tremendous intensity in a small area and use a small furnace to get a large output."

According to Morris, a great deal of work has been done in Europe on plasma processing, but much of it is proprietary and hence unavailable. "Our primary interest in this area is to publish the findings of our research so that the use of plasma processing can become more widespread in this country," Morris said.

Plans also call for UMR's Generic Mineral Technology Center for Pyrometallurgy to become a center of information on the subject. "We want the rest of the nation and the world to look to us as the primary source of information on pyrometallurgy," Morris said. "In addition to developing a library of reference material, we will conduct literature searches, publish the results of our research and that of oth-

ers, organize conferences and symposiums and bring visiting scholars to campus for lectures and consultation."

In addition to these projects, the center will perform research work in process mineralogy and computer modeling. "Process mineralogy is a valuable diagnostic tool for studying what goes on in a metallurgical furnace," Morris said, "and we hope through our efforts in computer modeling to identify areas for potential study."

The center also is a valuable educational resource for UMR as well as a research facility. "I am particularly pleased with the high degree of student participation in the center's activities," Paulson said.

"This student participation is important because it will provide American industry with the expertise it needs in this area," Crimes said. "The students will be the ones responsible for implementing these new techniques in industry and for conducting further research into these matters."

Because of the pressing need for pyrometallurgical research, it is expected that the center will continue to widen the scope of its activities in the future. "We are hopeful that Congress will continue to support these programs and that the center ultimately will include industrially sponsored projects as well," Warner said. "If this does occur, it will further enhance UMR's position as a national and international leader in pyrometallurgical research."

Student Council

from page 4

ented to him, give the final ruling on the fee increase. Keuss noted that the fee increase is being sought because student numbers are going down.

Intramural Activities: Mr. Billy Key explained that their budget goes toward tennis courts, lights for intramural fields, etc.

The question was asked as to why the intramural field grass was left untended. Key apologized on behalf of the keeper for such negligence. Some students wanted to know why the varsity field was not open for intramural games while their field was being repaired. Key said he was not aware that the varsity field was not being used.

Athletics: Mr. Billy Key represented the athletics department. Activity participation includes MIAA and NCAA.

An increase of 10 percent is being sought in operating budget.

Key proposes that the number of students on athletics scholarship be raised from 67 to 70. Ninety-nine is allowed under the NCAA rule. Key added that there are presently two schools below the 99 limit—UMR and Lincoln University.

Non-Varsity Sports: Steve Keuss represented non-varsity sports. The proposed increase will be applied toward insurance for game participants, a new regulation by UMR. Ninety percent of the fee increase will go toward this insurance.

University Center: Mr. Jess Zink, director of Auxiliary Services, represented the University Center. He pointed out that the University Center is a

business and under an obligation to make money to subsidize UMR budget.

A student wanted to know if the non-students using the Student Center pay for the use. Zink responded in the affirmative. He also added that attempts are constantly being made to keep student interest as the number one priority.

Golf Course: The golf budget was presented by Jess Zink who made it clear that the Golf Center exists under a break-even type of operation. There is minimum staff use of the Golf Course. Green maintenance costs \$3,500 and the chemicals cost money, too.

A student suggested that instead of increasing general fees, the user's fee per green should be increased since not all students use the Golf Course. Zink said the green

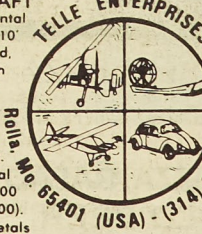
fee might be increased, but general fees will have to be increased also.

Referring to the first table, the present 1983-84 student activity fee is \$90.35 per semester. If the organizations' proposed increases were to go into effect, the 1984-85 fee would be increased by \$7.19 per semester to \$97.54 per semester.

The Student Council will be distributing a referendum dealing with Student Activity Fees and their proposed increases. Student opinion is vital to the success of this referendum. The results will weigh heavily in the administrative discussion dealing with fee increases. Students are urged to express their viewpoint on the StuCo referendum which will be distributed later this month.

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m= Features

MISSOURI MINER

Thursday, October 13, 1983

Page 6

Students...

Work hard for their money

by Charlie Cole

For many students the end of the last lab of the day is a time to wind down and relax—a time to eat a meal or sit down and rest—a Miller time, if you will. But not if you check tickets at Rayl like Terry Ney.

"I work in the evenings. I usually have to get out of the 4:30 labs early so I can eat before going to work. Or sometimes I'll just skip supper," Terry says.

On the other hand, Pat Kelly, a graduate teaching assistant for Physics 24 labs, has to get up early to go to work.

"I usually don't like having to get there early for 7:30 a.m. labs. But then again, I have class at 8:30, so it might not make much difference."

Most working students will agree that the best part of their job is the money. Matt Garbacz, a student who is also a waiter at Italo's Ristorante, particularly likes his pay arrangement.

"I get paid by the hour, but I also get tips, so I don't have to wait for paychecks. It's like getting four paychecks a week," Matt says.

But the paycheck isn't always the only thing that working students like about their jobs.

"It looks good on your resume," says Pat Kelly. "It shows employers that you know something, supposedly."

"I think it's nice talking to people," says Terry Ney.

"I like the great view we've

got at the restaurant," Matt Garbacz says. "At sunset, you can see all the way to Fort Wood. We've got quite a few good-looking waitresses, too."

But working isn't always a bed of roses.

Matt Garbacz says, "Most people don't realize how much work being a waiter is, especially when you've got four tables to wait on, and they all want something at once. I hate it when you work your butt off for customers, and they don't leave you a tip."

"I hate grading labs," says Pat Kelly, "especially if the students don't do well of there's a large range of grades. I start wondering if that's a reflection on my capabilities or just that they didn't use a file."

I usually grade on the weekends, unless there's a test coming up. If, for instance, you have a girlfriend at home, you can't take off during the weekends and see her."

Chris Barnekow, a student who doubles as a chef for Tim's Pizza has a rather unique problem occasionally.

"I hate it when I have to clean up after the frat guys who can't hold their liquor," he says. "It usually takes me until two in the morning to get the job done, and then I have to get up for my seven-thirty class. I've had to drop EE281 three times because of that, and I'm thinking about dropping it a fourth time."

Sometimes the workers aren't the only ones with problems.



Nancy Winkler

Deborah Burris, Coordinator for Workstudy, says, "We've got 460 workstudy students this year, which is 160 more than we usually have this time of year. We've got to process five forms for each person before we can get paychecks out, so we've got more than 2,000 forms running through our office right now. We probably won't be able to get paychecks out until October because of this."

But most people will agree that the arrangement is satisfactory. Says Deborah Burris,

"I've never had any complaints and as a matter of fact, I've received a few telephone calls telling me that the students are working out fine. We've had a few dropouts, but that was due to the workload of the particular students, not because they couldn't get along."

The supervisors are getting good workers, and the students are getting good training and work experience. It looks good on their resumes as well. All in all, I'd say it's mutually beneficial."

Nerds change image

by Mike Stroder

There have been many reports on how the American education system as a whole is getting soft and other countries are passing us technologically. (I say as a whole because some here may have a tough time believing the educational system is soft.) How do we reverse this trend?

Engineering and the sciences simply need some public relations work to attract more and better students and professors. Therefore, I've brought in one of Madison Avenue's finest, Mr. B.S. Bilgewater, from the respected firm of Bilgewater, Balderdash, and Tripe. Welcome, Mr. Bilgewater.

B.S.—Thanks Mike, and please call me B.S. I'm glad to be here at your lovely university.

See Image page 12

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INVESTIGATIVE REPORTERS WANTED: The MINER needs three more writers to cover events, past and coming, both on campus and in the community. Apply at 8 p.m. at 303 Rolla Bldg. or call Pat Van Ryckeghem at 364-0018.

We, the Little Sisters of AEPi, challenge ALL our big brothers to an exciting game of flag football, our version, of course. Dare you accept the challenge?

Being in a challenging mood, the Little Sisters of AEPi would also like to challenge the ENTIRE house of AEPi to see who can have a bigger percentage of turnout for the IFC fall cleanup. The brothers or sisters with fewer people (percentage-wise) will furnish the others with a keg of their favorite beverage. Are we on?

Congratulations on becoming Little Sisters to AEPi, the best Fraternity on campus! We're glad to have you—Diane, Julie, Maureen, Julie, Annette, Cheryl, Mary Beth and Stephanie!

Dearest Administration,

Interviewing for jobs is very hectic this semester when considering the limited number of prospects, but the heckling from the interviewers just has to go. After standing out in the cold all night waiting for a chance at an interview, one of the interviewers came by and was laughing at the fact that so many people waited so long. I see no humor in trying to get a job, but if you do, please let us students know what's so funny so that we can laugh too.

Another thing, I tried to cancel an interview recently and was unable to do so because I was past the 24 hr. deadline. Come on, boys and girls, there was still 23½ hrs. left until the interview plus I didn't fulfill the job requirements in the first place. So someone lost a chance at a job right there.

How 'bout that job market, folks.

T. Parlor

JOB OPENING

The Department of Auxiliary Services needs a Computer Science student to assist in development of in-house systems primarily relating to budgets, inventory, and other accounting functions, using PL/I. Prefer someone who will be available during the summer also. Approximately 10-15 hrs. per week. Apply at Director's Office, Room 114, University Center West.

Death Row prisoner, caucasian male, age 37, desires correspondence with either male or female college students. Wants to form some kind of friendly type relationship and more or less just exchange past experiences and ideas. Write: Jim Jeffers, Box B-38604, Florence, Arizona 85232.

PUBLIC ANNOUNCEMENT: Do you have any jobs that need to be done, but have no time? Are you a procrastinator or just plain lazy? Well, the Associate Class of Lambda Chi Alpha Fraternity is offering labor for hire. We can tackle almost any job and we're affordable. We're motivated and ready to work. Just call 364-9901 or 364-9984, ask for Steve Tullock or David Randolph and we'll see if we can help you.

Curt,

Are you a fish—as in cold—or as in an easy catch?

Kathy

Jimbo, Chunks, Shmuck, Bubs, and Ken,

Congrats on being initiated into the bonds. It's great to be able to call you brothers now!

Phi Phi K A,
The Annexites

Is Islam Just Mohammadism? Who really was Mohammad (pbuh)? Why do muslims pray five times daily and fast a whole month?

If you have questions like these or if you are just interested in matters of religion and faith, then attend the series of talks on "Fundamental Teachings of Islam," being organized by the Muslim Students Association of UMR. Each 30 minute talk will be followed by a question and answer period.

Our aim is to explain the basic tenets of Islam and remove common misconceptions and misunderstandings.

The schedule for the lectures is below: The quran, Oct. 19.; worship in Islam, Nov. 2; Zakat (Islamic Alms-Fee), Nov. 16; Fasting, Nov. 30. All lectures are on Wednesdays, at 5 p.m. in ME 105.

A LITTLE HUMOR

A Nigerian student, just fresh from home, was standing in a check-out line at Famous-Barr Store in downtown St. Louis. A mean-looking man approached him, flashed his I.D., and demanded, "Sir, do you have a visa? I am from the Immigration Office."

The Nigerian student looked frustrated. He fumbled through his pockets and bag and finally gave up. He turned to the officer and said, "No, but I do have an American Express."

By Kola Agaku

Anyone interested in forming a Timex/Sinclair users' group please contact Rick Chadwell at 364-1750 after 5 p.m.

For sale: Sakurai classical guitar with hardshell case. Excellent tone. \$400. 364-7042.

The men of Kappa Alpha are proud to introduce our new Daughters of Lee: Christiane, Cheryl, Gayle, Anita, Sue, Debbie, Lisa, and Dawn.

We're proud to have you as our sisters!

P.P.,

Which one will it be: The Beatles or the Stones?

D.H.

Apt for rent: Spring semester '84. \$150.00/month and utilities. Close to campus. Call Jeff, 364-3636.

Are the girls on the UMR campus really getting better looking or:

- a) They are wearing more clothes.
- b) You haven't been home in a month.
- c) Your roommate is even starting to look good.

They're not getting, they always were the best!

LOST: Men's silver Pulsar quartz watch with black face. If found please call 364-0617.

Bubs,

Hope you had fun on initiation night. Maybe next time we can afford a white one.

P.B.'s

Dear Lecia,

You had better watch out for the fish in the Sea, you never know when a Barracuda will come up for a bite.

Signed,

I was there

p.s. Oh slap me, slap me

Happy birthday, Ti! May all your wishes come true!

To the Brothers and Associates of Lambda Chi Alpha,

Thanks a million for all your help with Little Sister Rush! We couldn't have done it without you guys.

The Crescents

REWARD: Male Sheltie puppy (miniature collie) lost in vicinity of Old Hwy. 63. He is a very timid but friendly puppy. He has a skin disease around the mouth. Sometimes answers to Archimedes. 364-1249

Hey Pal—Where have you been all semester? (Or are you still here?) If you are, let's see some more hints!

Kath

Kath,

Did you have a nice summer? Sorry it took me so long to write. Figure me out yet? Believe me, you know me. See ya around, happy wondering!?

Love,

A Pal

WANTED: One brunette with a squinty-eyed smile, nice personality, and fits the description of Snow White, for a date in the near future. Your choice of in Rolla or St. Louis or both.

Reply! In person or by phone to a clean-shaven man, with an off-beat sense of humor, on TJ's 4th floor north.

P.S. You've got my room and telephone number.

I need a tennis partner of modest skill, male or female. Leave a message at 341-3495 for A.J.

Dear Britton,

Happy 21st! I love you this much...well, I guess I'll just have to show you!

SLN

To My Pal,

Where are you this semester? I haven't seen any little messages yet. My Thursdays just aren't the same!

Kath

Dear Jeff F.,

I hope that the Girl with the Curl is not another Angie B. There are better picks here, like me.

An admirer

Druids of Rolla,

I loathe and despise thee, and all ye stand for!! I abhor thy acts of desecration of the innocent, and these acts deserve only the severest of recompense. The deployment of this vengeance is my quest, and this...your first and final warning. Reconcile, or thy blood shall spill in the name of all that is good and true!!! Thou art truly the vermin of our world!!

The Lord Paladin, Stroeker

To the residents of TJ:

Due to the impending secession of the South Tower from TJHA, the Third Floor, North Tower is assuming absolute and total control of both towers.

Effective immediately, martial law will be imposed upon the entire complex, until all hostilities cease.

The Imperial Dorm Troopers

p.s. Jefferson Davis is now a political prisoner and is being held in G-9.

Tarzan,

When was the last time the "auto mechanic" gave you a tune-up?

"The men who can't swim"

Invitation to

View the stars

by Charlie Cole

Each Friday evening, the Astronomy Club opens the UMR Observatory for public viewing sessions. The Observatory, which is located one block west of the Computer Science Building, houses the University's sixteen-inch Cassegrain reflector telescope.

"We also have a ten-inch telescope, an eight-inch telescope, a four-inch telescope, and assortment of small telescopes," said Robert Cheeny, president of the Astronomy Club. "Several of our members own telescopes as well."

The viewing sessions start at dusk and last as long as people stay.

"We'll look at the Moon, planets (in case people are wondering, Jupiter is that bright thing in the Southwest), globular clusters, galactic clusters, galaxies, nebulae, planetary nebulae, binary systems, double binary systems, and supernovas," Robert Cheeny said.

But the viewing sessions aren't the Astronomy Club's only activity.

Said Robert Cheeny, "The viewing sessions are the main reason we exist, but we also take photographs using the telescope, hold club viewing sessions, and give demonstra-

tions for the public, at the elementary school for instance. Also, we invite guest astronomers to talk at our meetings."

The Astronomy Club is also looking for new members.

"We're starting up after two years of slack time, and we're trying to get as many members

as possible. This year is sort of an introductory year for the club," said Robert Cheeny.

One satisfied member recommended, "If you can, join; and if you can't, at least try to make it out to one of the viewing sessions."



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Get in on 'Fantastic Football!'

Major League players can be on your team!

New gadget does it all

BY DARREN HAVES

Once again, REMCO Electronics has made a major breakthrough in electronic technology. This breakthrough has enabled them to design and produce the most advanced calculator of our time. This calculator is so advanced that it replaces all conventional programmable and non-programmable calculators, plus all of these items: a watch, a stop watch, an AM-FM stereo cassette recorder, a pipe organ, a food processor, the Encyclopedia Britannica, and 80-piece orchestra, a small nuclear warhead, 3 French hens, two turtle doves, and a partridge in a pear tree.

Yes, I'm talking about that amazing new instrument, the REMCO 69LX8675-309! This little gadget does it all. It dices, it slices, it makes julienne fries (whatever the heck those are). It's compact, it's sleek, and, best of all, it's cheap.

I was fortunate enough to be given one of these babies by REMCO Electronics so that I might write a review of its amazing capabilities for you students out there in Numberland. I must say, I was very

impressed by the 69LX's performance. It has 20 different features, plus a special 21st feature that will astound you (but I'm saving that one for last).

It contains a watch that tells you the time, date, day, and the exact year with up to a hundredth of a second accuracy. It even has a monthly alarm, if you want it.

The AM-FM stereo cassette recorder, I found, was of the highest quality. The fidelity

was amazingly good considering the speakers are only half-inch in diameter, and this little jam box cranks out 50 watts per channel. The cassette recorder contains all the usual garbage, plus a function that locks on and automatically records any juicy gossip being carried on within a 50-foot radius.

Of all the fantastic features this little wonder machine possesses, the mini-bar, complete with pickled eggs, was

the most useful, in my opinion. The bar contains 6 liquors of your choice, a blender, an ice machine, twizzle sticks, and 3 collapsible shot glasses. A cocktail waitress is optional. No more will you go into a test feeling empty-handed.

And, finally, that amazing feature 21: the power source. The 69 LX uses no batteries, no electricity. It gets its power from 2 rats on a treadmill. Yes, that's right. REMCO Electronics, using all the latest

developments in miniaturizing technology, has completely eliminated the use of electricity or other messy power sources. The microchip-size rat-on-a-treadmill is a mechanical energy source. The only recharging the 69LX needs is taken care of by placing a small piece of cheese in the appropriate compartment in the back of the calculator every 6 months.

So there you have it, the 69LX8675-309. This calculator

is a must for anyone serious about mathematics and other fields dealing in recreational electronics. This miracle device isn't available in stores yet. To order one, send a check or money order for \$9.95 to: 69LX8675-309, 881 East West Street, Fairbanks, Alaska 99701. Or speed up your order by calling our toll-free number, 1-800-441-MATH. They accept Mastercard and Visa. Please allow 4-6 weeks for delivery.

Vacation give-away

Each year, college students take part in an annual spring-time ritual when they migrate, en masse, to the sunny beaches of Daytona Beach, Florida.

This year, 10 lucky students will be spending one full week in Daytona Beach, free of charge, all expenses paid; compliments of United States Tobacco Company, manufacturer of Copenhagen, Skoal, and Skoal Bandits.

In an effort to bolster the awareness of its newest product, Skoal Bandits, U. S. Tobacco has put together the 'Skoal Bandits Spring Fling in Daytona Beach Sweepstakes'. Anyone 18 years or older can enter this sweepstakes by

filling out an entry blank (no purchase necessary).

U. S. Tobacco has long been involved with college related activities such as skiing, the N.I.R.A. rodeo, and intramural athletics. In addition U. S. T. has participated in countless grass roots activities on college campuses all across the country. Celebrities such as Walt Garrison, Shep Messing, Joe Klecko, and Lawrence Taylor make several appearances on college campuses each year, as spokesmen for U. S. Tobacco. A sweepstakes of this magnitude, though, geared directly to college students is a definite first for U. S. T.

Other prizes offered, in addition to the 10 free trips to Daytona Beach, are: Two Skoal Bandit windsurfers, two home computer systems, 100 Skoal Bandit racing jackets, and 1,000 Skoal Bandit t-shirts

RIDE THE RED.

KILLIAN'S RED

©1983 Adolph Coors Company, Golden Colorado 80401 • A Brewer of Fine Quality Beers Since 1873.

★ ★ Classifieds ★ ★ Classifieds ★ ★

Notice Gents:

In spite of all you have heard, we, the lady miners, have noticed that chivalry, and, yes, respect, are not dead at UMR. Keep opening those doors, men. We love it!

C.W. and L.G.

Hey beautiful blonde PRINCESS in 263 TJ, don't change a bit!!! (Just be a little more aware of who walks by you.)

Signed,
Z

Dear Ramblin' Hamblen,

How is it that you got your job teaching CSc 218 when you haven't taught it for 25 years? Why is it that our first assignment consisted of writing 7 programs while we (the students) had no idea which one(s) would be collected? Why is it that you once assigned 2 homework problems and one bonus (Ha!) problem, which, by the way, for now seems to count as a homework problem? Why do your lectures always come word for word (with a few word changes to avoid violating copywrite laws) straight out of the text? Could it be that even you don't understand the text and therefore teach it the only way possible for you? Did you know that "teacher grading" is going on now? Hamblen, you've got to be joking!

We've Got Your Number

P.S. Don't change now. We love it!

Dear Jeff F.,

I hope that the Girl with the Curl is not another Angie B. There are better picks here, like me.

An admirer

To My Pal,

Where are you this semester? I haven't seen any little messages yet. My Thursdays just aren't the same!

Kath

Kath,

Sorry it's taken me so long to write. How's your semester so far? Doesn't sound too bad. Hope to see ya around this weekend; if not, have a great one!

Love,
A Pal

For sale: Firestone SS Radial 235-60-15R. Almost Brand new! 90%-plus tread. \$80 or best offer. 364-8825, ask for Jeff.

Ride wanted to Columbia on Thursday Oct. 13 or Friday Oct. 14. Will split gas, amount negotiable. Call 364-7607 and ask for Brad.

The **NEW STUDENT RECORD** (freshman record) will be distributed again next Tuesday, Oct. 18, from 12:30 to 3:15 by the Hockey Puck. Check with your parents to see if they ordered one for you.

Dear Double Trouble,

I am glad that it is just Double Trouble. I was worried that it might be triple trouble, but I can handle two. The question is, can you handle me?

LITTLE SIS muffet and LITTLE RED riding HAIR, you had better watch out, or I'll huff and puff and blow your balloon up!!!!

MTH of House 5

Dear Druids,

We wish you the best of luck in locating a virgin in Rolla. Even the sheep are afraid. I've been looking for 4½ years.

Dear UMR Druids,

As you know, there is an increasing shortage of virgins and we would like to protect the precious few that remain. Therefore, we restate our ultimatum of last year at this time: Any virgin sacrifices will be repaid tenfold in Druidic blood. You have been warned!

The Knights of the Realm

p.s. on Witch's Eve, we will be watching!

Dear Mom,

I waited for you at the HP every day at 9:30 so we could go SOBO but you never came. Try again sometime.

NPNT

Your Loving Son,

Mike

Kath,

Sorry it's taken me so long to write. How's your semester so far? Doesn't sound too bad. Hope to see ya around this weekend; if not, have a great one!

Love,

A Pal

Real women love dormies as much as they do Greeks.

John Vahlkamp--you're a marked man.

The Rolla Women

Dear Druids,

We noted the announcement of your base holiday and feel it only fair to warn you that your lives will be the only ones sacrificed if you harm one Rolla virgin. They are much too rare to lose any.

The Forum Knights

Reservations open for trip

ROLLA, MO. Reservations are being taken for the University of Missouri - Rolla Auxiliary Services fourth annual ski trip March 31-April 8, 1984, at Copper Mountain, Colorado.

According to John Watson, Administrative Associate I with UMR Auxiliary Services, anyone may participate and the price of the trip is \$360 (\$330 for those persons who have their own equipment). Special lesson plans also are available for non-skiers and those who want to improve their skills. Copper Mountain offers 800 acres of skiing with facilities for person of all skill levels as well as a master-planned ski village, he said.

In addition to six days of lodging at the Timber Creek Condominiums, the trip package includes six days of lift tickets (three days at Copper Mountain and one day each at Vail, Breckenridge and Keystone), round-trip bus transportation, six days of equipment rental and a reception on Monday evening.

To reserve a spot on the trip, a non-refundable deposit of \$100 must be submitted to: UMR Ski Trip, Accounting Office, University Center-West, UMR, by Oct. 21.

For more information on the trip contact Watson, Cedar Street Center, phone 364-8066.

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Take a break from your daily studies and bowl your tensions away

Mon. thru Fri.
9:30am to 5:00pm

Bowl every other game
FREE with this ad.
Expires Oct. 31, 1983

Join Us For
Rock N' Roll Bowl
Sat. Oct. 22, 1983

10:30pm to 1:30am
Room for 1 to 6 people per lane
Cost per lane for the 3
hours is \$12.00.

Bowl all or part of the three
hours

Pro-rated to a sliding scale.
Bowl to your favorite music.

Qualify Special
for prizes beer prices

Colonial Lanes, Inc.
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call and reserve your lane now

HARRIS is holding an OPEN HOUSE

For exceptional graduates with bachelor's or advanced degrees in
Electrical Engineering, Technical Sales and
Computer Science

Thursday, October 20th, 7:00 p.m. — 9:00 p.m.
At the University Center East, Centennial West Room

Harris is a producer of advanced communication and information processing, equipment and components for the information technology market. We invite you to meet some of our key management people. They look forward to an informal evening of informative interchange that's particularly meaningful to you. They'll zero in on the direction Harris Corporation is taking today and the avenues of opportunity and growth that direction is offering this year's graduates in our Fortune 200 company.

Plan to join representatives from Harris divisions for enlightening conversation and refreshments.

CAMPUS INTERVIEWS

Friday, October 21st

Make arrangements now at the Placement Office

If you are unable to meet with us, send your resume to Harris Corporation, College Relations, 1025 W. NASA Blvd., Melbourne, FL 32901. An Equal Opportunity Employer M/F/H/V.



HARRIS

Fletcher co-chairs noise commission

BY PHYLLIS J. HARSTER

Dr. John Fletcher, of the UMR psychology department, recently served as co-chairman of the International Commission of Biological Effects of Noise. The meeting was held in Turin, Italy. His co-chair-

man was from France and was a co-worker with Jacques Costeau.

Dr. Fletcher says that every five years the Commission meets in a different host country. The host country pays the way and expenses of all the

experts invited to attend the Commission.

The Planning Commission nominates invitees by virtue of their being international authorities on some aspect of noise. They also try to find new and upcoming people in

research. There are authorities invited from West and East Germany, Yugoslavia, Sweden, Holland, Poland, Brussels, Denmark, and Italy, just to name a few.

They come from such diverse organizations as the World Health Organization, Environmental Research Progress—the European Committee, the International Committee on

Acoustics, and the Italian Ministry of Health. There are experts in the fields of Noise and the Community Reaction, Industrial Hearing, Sonic Booms, and Dr. Fletcher's own field of expertise, the effects of noise on wildlife.

Dr. Fletcher is presently working on a proposal on the effects of noise on hearing and how to predict the affects for the National Institute of Occu-

pational Safety and Health (NIOSH). He is also on the UM Safety Committee studying "Noise as a Safety Hazard." He is cooperating with the military at Fort Leonard Wood on a project dealing with trying to predict and prevent hearing loss among people on active duty. He is a member of the National Research Committee on hearing and Bio-acoustics.

MOHiPs

from page 4

within our agency has been long in coming," Hoffman continued. "I feel it is a step forward for criminal justice in this State and one which will provide our citizens more effective service and protection through the better

coordinated and cooperative efforts of the various law en-

forcement agencies throughout Missouri."



This year for the first time the Parents of the Year awards were presented. James L. and Joan G. Smith received the Parents of the Year award during the half-time of the Miner football game. Mr. and Mrs. Smith were chosen by a five-member committee out of many nominations.

Phones

from page 5

JoAnn Light, of Telephone Services, says that right now "we're at capacity." There are 898 lines available, and all are being called for.

In fact, she says that there are "maybe 25 departments waiting for a number." No one, however, is without a phone that requests one. Some use extensions.

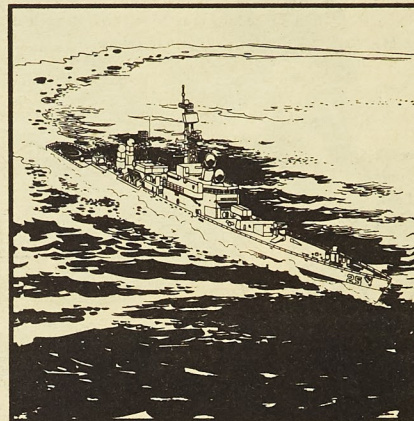
The decision on who gets phones and who does not is not made by Telephone Services, states Light. "We leave it up to the departments."

One thing Light adds is that University of Missouri is coming up to the end of a five-year contract with the United Telephone Company—there is about a year left. With the changes in ITT this means that UMR's phone system may be changing soon.

"Previously," Light says, "we have had to lease." Now the option is open to buy a phone system. A telecommunications consultant has been hired to investigate the possibilities open to the University.

Light says that UMR's monthly phone bill is averaging \$28,000.

The Most Sophisticated Training Ground For Nuclear Engineering Isn't On The Ground.



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Then, as a nuclear-trained officer, you supervise highly trained personnel in the operation of the most advanced nuclear propulsion plants ever developed. You get a level of technical and management experience unequalled anywhere else.

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get them fast. Because in the Navy, as your knowledge grows, so do your responsibilities.

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while you're still in school. Qualified juniors and seniors earn approximately \$1,000 per month while they finish school.

As a nuclear-trained officer, after 4 years with regular promotions and pay increases, you can be earning as much as \$40,500. That's on top of a full benefits package that includes medical and dental care, and 30 days' vacation earned each year.

As a nuclear-trained officer, you also earn a place among this nation's most qualified and respected professionals. So,

if you're majoring in math, engineering or the physical sciences, send in the coupon. Find out more about the most sophisticated training ground for nuclear engineering. Today's Nuclear Navy.

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☐ Please send me more information about becoming an officer in the Nuclear Navy. (ON)

Name _____ First _____ (Please Print) Last _____
Address _____ Apt. # _____
City _____ State _____ Zip _____
Age _____ College/University _____
Year in College _____ GPA _____
Major/Minor _____

Phone _____ (Area Code) _____ Best Time to Call _____

This is for general recruitment information. You do not have to furnish any of the information requested. Of course, the more we know, the more we can help to determine the kinds of Navy positions for which you qualify.

Navy Officers Get Responsibility Fast.

Placement Office

Permanent

Campus interviewing - week of October 31-November 4, 1983

AMOCO OIL COMPANY (Standard Oil of Indiana), Naperville, IL
Will interview DECEMBER 1983 GRADS with BS/MS/PhD in Mechanical Engineering for Product Engineering. Should have IC engine background; added interest in instrumentation or petroleum chemistry helpful. Needed as project engineer to conduct variety of studies in R&D to develop new and improve existing Amoco Oil products. Emphasis in an automotive fuels (gasoline/diesel), but includes also non-automotive applications. Major activities will be posted with signups. COMPANY WILL COLLECT RESUMES ONLY FROM GRADS PREVIOUS TO DECEMBER 1983. PERMANENT VISA REQUIRED.
Location: Naperville, IL
Interviewer: D.S. Gray
Interview date: November 1, 1983
Number of schedules: 1
Priority signup: October 17, 1983
Regular signup: October 18, 1983

CULT INDUSTRIES, New York, NY
Will interview DECEMBER 1983, MAY, JULY 1984 GRADS with BS/MS/Engineering Management, Mechanical Engineering for Management Career System. Entry level management development program consisting of three job assignments spanning a three yr. period. More details will be posted with signups. U.S. CITIZENSHIP OR PERMANENT VISA REQUIRED BY COMPANY.
Location: throughout U.S.
Interviewer: unknown
Interview date: November 1, 1983
Number of schedules: 1
Priority signup: October 17, 1983
Regular signup: October 18, 1983

FISHER CONTROLS INTERNATIONAL, INC., Marshalltown, IA
Will interview DECEMBER 1983, MAY, JULY 1984 GRADS with BS/MS/Electrical Engineering, Computer Science for Design Eng. (Austin, TX; Marshalltown, IA); BS/MS/Electrical, Chemical Engineering, Computer Science for Applications Engineer (Austin, TX); BS/MS/Electrical Engineering, Computer Science for Systems Engineer (Austin, TX); BS/MS/Electrical Engineering, Computer Science for Sales Engineer (Marshalltown, IA); BS/Computer Science for Systems Analyst/Programmer (Marshalltown, IA). PERMANENT RESIDENT VISA REQUIRED.
Location: see above
Interviewer: unknown
Interview date: November 1, 1983
Number of schedules: 2
Priority signup: October 17, 1983
Regular signup: October 18, 1983

MONSANTO COMPANY, St. Louis, MO
Will interview DECEMBER 1983, MAY, JULY 1984 GRADS with BS/MS/Computer Science for System Programmer, System Analyst (Corporate-wide). U.S. CITIZENSHIP OR PERMANENT VISA REQUIRED BY COMPANY.
Location: St. Louis, primarily; but several locations in U.S. as well
Interviewer: unknown
Interview dates: November 1, 2, 1983
Number of schedules: 1 each day
Priority signup: October 17, 1983
Regular signup: October 18, 1983

OKLAHOMA CITY AIR LOGISTICS CENTER, Tinker Air Force Base, OK
Will interview DECEMBER 1983 GRADS ONLY with BS/MS/PhD in Electrical, Mechanical, Metallurgical Engineering with an interest in computer architecture, advanced software techniques, mathematical theory, numerical analysis and digital processing. U.S. CITIZENSHIP REQUIRED.
Location: Tinker AFB, OK
Interviewers: unknown
Interview date: November 1, 1983
Number of schedules: 2
Priority signup: October 17, 1983
Regular signup: October 18, 1983

SUNSTRAND CORPORATION, Rockford, IL
Will interview DECEMBER 1983, MAY 1984 GRADS with BS/MS in Electrical Engineering for Electrical Systems Group: systems and components for aerospace applications, such as electrical power generating and distribution equipment, avionics systems, microprocessor based control and feedback systems for mechanical products; BS/MS Mechanical Engineering for Mechanical Systems Group: products include actuations systems, fuel pumps, turbo-power systems, and constant speed drives. More details will be posted with signups. U.S. CITIZENSHIP OR PERMANENT VISA REQUIRED BY COMPANY.
Location: Rockford, IL
Interviewer: Gene Roy
Interview date: November 1, 1983
Number of schedules: 1
Priority signup: October 17, 1983
Regular signup: October 18, 1983

TEKACO, INC., Houston, TX
Will interview DECEMBER 1983, MAY 1984 GRADS with BS/MS/PhD in Petroleum Engineering for exploration, producing, refining engineering; BS/MS/PhD Geology, BS/MS/Geol. Geoph. Option; BS/MS/PhD Geophysics for exploration, producing, research. NOTE: BS/GEOLGY SIGNUPS WILL BE LIMITED TO ONLY 3 FOR MORNING INTERVIEWS; 3 FOR AFTERNOON INTERVIEWS. U.S. CITIZENSHIP OR PERMANENT VISA REQUIRED BY COMPANY.
Location: nationwide
Interviewers: Robert Williams (Geology schedule) and another
Interview date: November 2, 1983 (November 1 date cancelled)
Number of schedules: 2 (1-PE) Priority signup: October 18, 1983
(1-GEOLGY) Regular signup: October 19, 1983

PETRO-LEWIS CORP., Denver, CO
HAS CANCELLED THEIR INTERVIEW DATES OF October 31-November 1, 3, 4, 1983.

MARATHON OIL COMPANY, Findlay, OH
Will interview DECEMBER 1983, MAY, JULY 1984 GRADS with BS/MS/Petroleum Engineering for drilling, production and reservoir engineering positions. U.S. CITIZENSHIP OR PERMANENT VISA REQUIRED BY COMPANY.
Location: Texas, Louisiana, Illinois, New Mexico & Wyoming
Interviewer: unknown
Interview date: November 1, 1983 (October 31 & November 3 dates - cancelled)
Number of schedules: 1
Priority signup: October 17, 1983
Regular signup: October 18, 1983

MORSE INDUSTRIAL CORP., SUBSIDIARY OF EMERSON ELECTRIC, Maryland Heights, MO
Will interview MAY 1984 GRADS ONLY with BS/Mechanical Engineering, Economics for Sales Engineer.
Location: continental U.S. (flexible)
Interviewers: Bill Stewart, Mike Hunt
Interview date: November 1, 1983
Number of schedules: 1
Priority signup: October 17, 1983
Regular signup: October 18, 1983

BUREAU OF RECLAMATION, Denver, CO
Will interview DECEMBER 1983 grads in Electrical Engineering for design, power & electronics. More information will be available at a later date.
Location: Denver, CO
Interviewer: unknown
Interview dates: October 31, November 1, 1983
Number of schedules: 1 ea day
Priority signup: October 17, 1983
Regular signup: October 18, 1983

BELL HELICOPTER TEXTRON, Fort Worth, TX
Will interview DECEMBER 1983 GRADS ONLY with BS/MS/Mechanical, Aerospace Engineering for design or technology; BS/MS/Electrical Engineering for design or technology positions. U.S. CITIZENSHIP OR PERMANENT VISA REQUIRED BY COMPANY.
Location: Dallas/Ft. Worth, TX
Interviewer: unknown
Interview date: November 1, 1983
Number of schedules: 1-4E, ME
1-EE ONLY
Priority signup: October 17, 1983
Regular signup: October 18, 1983

OWENS CORNING FIBERGLAS CORPORATION, Kansas City, KS
INTERVIEW DATES OF November 2, 3, 1983 HAVE BEEN CANCELLED.

ANHEUSER-BUSCH, INC., St. Louis, MO
Will interview MAY 1984 GRADS ONLY with BS/Mechanical, Electrical Engineering for entry level engineers in Corporate Engineering Dept. Details will be posted with signups. (Management Training schedule for November 2, 1983, has been cancelled). U.S. CITIZENSHIP REQUIRED BY COMPANY.
Location: St. Louis
Interviewers: unknown
Interview date: November 2, 1983
Number of schedules: 2
Priority signup: October 18, 1983
Regular signup: October 19, 1983

ESL, A Subsidiary of TRW, Sunnyvale, CA
Will interview DECEMBER 1983 GRADS ONLY with BS/MS/Computer Science; BS/MS/PhD Electrical Engineering; BS/MS/Aerospace Engineering for signal analysis of aerospace vehicles for assessment of design and performance of vehicles subsystems such as guidance and control, propulsion, payload sensors/seekers. Information concerning Computer Science and Electrical Engineering majors will be posted with signups. U.S. CITIZENSHIP REQUIRED. NATIONAL SECURITY REQUIREMENTS.
Location: Sunnyvale, CA; Murray, UT; Hanover, MD
Interviewers: unknown
Interview date: November 2, 1983
Number of schedules: 2
Priority signup: October 18, 1983
Regular signup: October 19, 1983

KIEWIT WESTERN COMPANY OMAHA DISTRICT, Omaha, NE
Will interview DECEMBER 1983 GRADS with BS/Civil Engineering for construction work (other than buildings) with opportunity for advancement into management and supervisory positions - Omaha Heavy Div. U.S. CITIZENSHIP OR PERMANENT VISA REQUIRED BY COMPANY.
Location: Omaha, NE; Kansas City
Interviewer: unknown
Interview date: November 2, 1983
Number of schedules: 1
Priority signup: October 18, 1983
Regular signup: October 19, 1983

MARTIN MARIETTA CORPORATION, Bethesda, MD
Will interview DECEMBER 1983 GRADS with BS/MS/Aerospace, Mechanical, Electrical Engineering, Computer Science (scientific applications ONLY) for Associate Engineer-in-design & development of sophisticated missile and space systems in Denver Aerospace Division. U.S. CITIZENSHIP REQUIRED AS MARTIN MARIETTA IS A GOVERNMENT CONTRACTOR. NOTE: AEROSPACE ENGINEERS WILL BE LIMITED TO ONLY 1 INTERVIEW IN THE MORNING; 1 INTERVIEW IN THE AFTERNOON; MECHANICAL ENGINEERS WILL BE LIMITED TO 1 INTERVIEW IN THE MORNING; 1 INTERVIEW IN THE AFTERNOON. COMPUTER SCIENCE MAJORS WILL BE LIMITED TO 5 openings in the MORNING; 3 openings in the AFTERNOON. SCHEDULES WILL BE MARKED ACCORDINGLY.
Location: Denver, CO
Interviewer: Bob Gamill
Interview date: November 2, 1983
Number of schedules: 1
Priority signup: October 18, 1983
Regular signup: October 19, 1983

MONSANTO AGRICULTURAL RESEARCH, St. Louis, MO
Will interview DECEMBER 1983 GRADS with BS/Computer Science for basic computer science positions in Agricultural Research - interfacing with researchers. Scientific or research background would be very helpful. U.S. CITIZENSHIP OR PERMANENT VISA REQUIRED BY COMPANY.
Location: St. Louis, MO
Interviewer: Marda Kornhaber
Interview date: November 2, 1983
Number of schedules: 1
Priority signup: October 18, 1983
Regular signup: October 19, 1983

SVERDRUP TECHNOLOGIES, INC., Tullahoma, TN
Will interview DECEMBER 1983, MAY, JULY 1983 GRADS with BS/MS/Aerospace, Electrical, Mechanical Engineering for entry level position for professional engineering work. U.S. CITIZENSHIP REQUIRED BY COMPANY.
Location: Middle TN or Cleveland, OH
Interviewer: unknown
Interview date: November 2, 1983
Number of schedules: 1
Priority signup: October 18, 1983
Regular signup: October 19, 1983

U.S. NAVY RECRUITING STATION, St. Louis, MO
Will interview all grads - all levels (MUST HAVE 3.0 GPA) for all U.S. Navy Officer Programs, including Aviation, Surface Warfare, Nuclear Power, Engineering Duty Officer. U.S. CITIZENSHIP REQUIRED. INTERVIEWS WILL BE 45 MINUTES IN LENGTH.
Location: worldwide
Interviewer: unknown
Interview dates: November 2, 3, 4, 1983
Number of schedules: 3 ea day
Priority signup: October 18, 1983
Regular signup: October 19, 1983

MICRO DESIGNS, INC., Springfield, MO
Will interview DECEMBER 1983, MAY, JULY 1984 GRADS with BS/Electrical Engineering for hardware/software product development. Additional details will be posted with signups.
Location: Springfield, MO
Interviewer: Rene Pingnot
Interview date: November 3, 1983
Number of schedules: 1
Priority signup: October 19, 1983
Regular signup: October 20, 1983

CECO CORPORATION, Oak Brook, IL
Will interview DECEMBER 1983 GRADS ONLY with BS/Civil Engineering for training program leading to sales engineering, formwork engineering, and field engineering, (Concrete Forming Division). U.S. CITIZENSHIP OR PERMANENT VISA REQUIRED BY COMPANY.
Location: principal cities nationwide
Interviewer: unknown
Interview date: November 3, 1983
Number of schedules: 1
Priority signup: October 19, 1983
Regular signup: October 20, 1983

OKLAHOMA DEPT. OF TRANSPORTATION, Oklahoma City, OK
Will interview DECEMBER 1983 GRADS ONLY (WILL INTERVIEW RECENT GRADS IF THEY HAVEN'T HAD PREVIOUS INTERVIEW) with BS/MS/Civil Engineering for Transportation Engineer. One year familiarization program to prepare the individual to accept permanent assignment as a Transportation Engineer. PERMANENT VISA REQUIRED.
Location: Statewide; Interviewer: unknown
Interview date: November 3, 1983
Number of schedules: 1
Priority signup: October 19, 1983
Regular signup: October 20, 1983

U.S. AIR FORCE, Bolla, MO
Will interview DECEMBER 1983, MAY 1984 GRADS with BS/Aerospace Engineering, Electrical Engineering for engineers; BS/MS/PhD any major for pilot navigator ONLY. U.S. CITIZENSHIP REQUIRED.
Location: nationwide
Interviewer: unknown
Interview date: November 3, 1983
Number of schedules: 1
Priority signup: October 19, 1983
Regular signup: October 20, 1983

INTEL, Chandler, AZ
Will interview on November 3, 1983. Details are not available at this time.
Priority signup: October 19, 1983
Regular signup: October 20, 1983

MISSOURI PUBLIC SERVICE COMPANY, Kansas City, MO
Will interview DECEMBER 1983 grads with BS/Electrical Engineering for distribution planning functions. U.S. CITIZENSHIP REQUIRED.
Location: Kansas City, MO (Metro)
Interviewer: Mike Johnson
Interview date: October 25, 1983
Number of schedules: 1 (45 MIN. INTERVIEWS)
Priority signup: October 10, 1983
Regular signup: October 11, 1983

JOHNSON CONTROLS, SYSTEMS & SERVICES, Dallas, TX
Will interview on October 28, 1983.
(date previously set: October 27)
Priority signup: October 13, 1983
Regular signup: October 17, 1983

TELETYPE MEC, Palo Alto, CA
Will interview DECEMBER 1983 GRADS ONLY with BS/Electrical Engineering, Physics, Mechanical Engineering (2-46 openings only: 1-afternoon, 1-morning). Materials Science majors are requested to sign on back-up list. Job involves developing, designing and manufacturing military electronic countermeasure (ECM) equipment. U.S. CITIZENSHIP REQUIRED BY COMPANY.
Location: Palo Alto, CA
Interviewer: Martin Lindemann
Interview date: October 27, 1983
Number of schedules: 1
Priority signup: October 12, 1983
Regular signup: October 13, 1983
TELETYPE MEC WILL HOLD AN INFORMATION MEETING ON WEDNESDAY, OCTOBER 26, 1983, IN THE MARK TWAIN ROOM, 7:30-8:30 P.M.

Permanent

FOLLOWING IS AN UPDATED LIST OF COMPANIES RECRUITING DURING THE WEEK OF NOVEMBER 7-11, 1983. (List subject to change)

- November 7
N. Industries-Houston
Square D
- November 8
U.S. Patent & Trademark Office
Marathon Oil-Findlay, OH
N. Industries-Houston
- November 9
Madine Manufacturing Co.
Iowa Electric Light & Power
A.B. Chance
U.S. Army.
- November 10
American Electric Power
Standard Oil of Indiana (AMOCO - RTP)
A.B. Chance
Dowell
Vought Corp.
Pacific Missile Test Center
- November 11
Standard Oil of Indiana (AMOCO - RTP)
Dowell

NOTE: OCTOBER 14, 1983, IS STUDENT COUNCIL FREE DAY - NO SIGNUPS!
PREVIOUS GRADS (DECEMBER 1982, MAY, JULY 1983) MAY SIGN ONLY ON THOSE SCHEDULES REQUESTING THEM.

Summer

The following company will be interviewing on November 2, 1983. SIGNUPS WILL BE HELD ON THURSDAY, OCTOBER 18, 1983, UNIVERSITY CENTER WEST. MORNING SIGNUPS: 8:30-11:00; AFTERNOON SIGNUPS: 1:00-3:30 ONLY.

MARATHON OIL COMPANY, Findlay, OH
WILL INTERVIEW PETROLEUM ENGINEERS who have completed 60-90 hours for Office Intern & Roustabout assignments. MUST BE U.S. CITIZEN OR HAVE A PERMANENT VISA.
Location: primarily in Texas, Louisiana, Illinois, New Mexico and Wyoming
Interviewer: James Runy
Interview date: November 2
Number of schedules: 1

DUNGEONS & DRAGONS®

Gaming Session & Workshop
Saturday, October 29
11 a.m. to 7 p.m.

We are pleased to announce that members of the UMR Dungeons & Dragons Club will be on hand for an all day gaming session - plus a workshop right in our bookstore. Don't miss the opportunity to see in action the nations most creative fantasy game played by our experts. UMR Dungeon Masters will be available all day to give instruction and answer questions for new and prospective players.



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Terry's Hair Shop in back

Research program offers opportunity

The National Research Council announces the 1984 Postdoctoral, Resident, and Cooperative Research Associateship Programs for research in the sciences and engineering to be conducted in behalf of 19 federal agencies or research institutions, whose laboratories are located throughout the United States. The programs provide Ph. D. scientists and engineers of unusual promise and ability with opportunities to perform research on problems largely of their own choosing yet com-

patible with the research interests of the supporting laboratory. Initiated in 1954, the Associateship Programs have contributed to the career development of over 3800 scientists ranging from recent Ph. D. recipients to distinguished senior scientists.

Approximately 250 new full-time associateships will be awarded on a competitive basis in 1984 for research in chemistry, engineering, and mathematics, and in the earth environmental, physical, space, and

life sciences. Most of the programs are open to both U.S. and non-U.S. nationals, and to both recent Ph. D. degree holders and senior investigators.

Awards are made for one or two years; senior applicants who have held the doctorate at least five years may request shorter tenures. Stipends for the 1984 program year will range from \$24,500 a year for recent Ph. D. s up to approximately \$50,000 a year for senior associates. A stipend

supplement up to \$5,000 may be available to regular (not senior) awardees holding recognized doctoral degrees in those disciplines wherein the number of degrees conferred by U.S. graduate schools is significantly below the current demand. In the 1983 program year these areas have been engineering, computer science, space-related biomedical science, and petroleum-related earth sciences.

Reimbursement is provided for allowable relocation costs and for limited professional

travel during tenure. The host laboratory provides the associate with programmatic assistance including facilities, support services, necessary equipment, and travel necessary for the conduct of the approved research program.

Applications to the National Research Council must be postmarked no later than January 15, 1984. Initial awards will be announced in March and April

followed by awards to alternates later.

Information on specific research opportunities and federal laboratories, as well as application materials, may be obtained from Associateship Programs, Office of Scientific and Engineering Personnel, JH 608-D1, National Research Council, 2101 Constitution Avenue, N.W., Washington, D.C., (202) 334-2760.

Scholarships to be awarded

Department chairmen and their faculties are currently looking for candidates for possible UMR nominations to the 1983-84 Truman Scholarship Foundation awards. This scholarship program, established by Congress as the official federal memorial to honor the 33rd President of the United States, is a permanent educational scholarship program designed to provide outstanding students to prepare for careers in public service.

This year 105 scholarships will be awarded, one to an

individual in each state plus many scholarships-at-large.

The scholarship is a substantial one. It provides a maximum of \$5,000 per year in eligible expenses for up to four years, covering the last two years of undergraduate study and the first two years of graduate study. The conditions of eligibility are:

1. A nominee must be a matriculated student pursuing a degree during the 1983-84 academic year.
2. A nominee must plan to be a full-time junior-level student pursuing a bachelor's

degree during 1984-85. A junior-level student is defined as one who by Sept. 1, 1984, will have earned no less than $\frac{1}{3}$ nor more than $\frac{2}{3}$ of the total number of credits required for graduation.

3. A nominee must have a cumulative grade point average of at least "B" and be in the upper fourth of his or her class.
4. A nominee must be a United States citizen or a United States national.
5. A nominee must be enrolled

in an undergraduate field of study that will permit admission to a graduate program "leading to a career in government."

After contacting one's department to check eligibility, approved candidates should contact the UMR Truman Scholarship representative, Donald B. Oster, Associate Professor of History, Department of History and Political Science (H-SS 124, ext. 4817) for further instructions. The names of eligible candidates have to be submitted to Oster before Nov. 1.

Image change

from page 6

M.S.-Well, I see why they call you B.S. Tell me, how do you plan to raise engineering in the eyes of the public?

B.S.-As you know, Mike, the public has an erroneous, or at least usually erroneous, stereotypes of an engineering student. One is that of the pathetic nerd who lives for complex equations and knows social life only by definition. The other is the extremely intelligent and ambitious sort who gets through college with 4.0's and who would gleefully strangle their grandmother for a step up the corporate ladder. The first step is to erase these negative images

and make engineering appear "cool", "groovy", "radical", or whatever the kids say these days.

M.S.-You're proposing we make it the "in" thing?

B.S.-Exactly. For example, picture the following. The next Spielberg blockbuster-E.X. dx - the story of an alien mathematician who comes to Earth, befriends a small boy, and teaches him integral calculus. Music- Brian Setzer of the Stray Cats, on his new M-TV clip, pokes his head out of a row of English majors, pulls out his HP-41C, and sings "Hey man! I don't wanna conjugate no more!"

Or maybe...yes! Live from Atlantic City! It's the Miss Ph.D. competition! The only contest in America to combine a bathing suit competition and doctoral dissertations...

M.S.-Excuse me B.S. ... B.S.-We could get Carl Sagan to host...

M.S.-B.S., Get ahold of yourself!

B.S.-Oh yes. Er...sorry! M.S.-B.S., I see how this will increase the number of students, but how will it increase the quality?

B.S.-It doesn't. It just allows

colleges to be more selective. However, to insure a future generation of intelligent candidates, we must indoctrinate little children as well.

M.S.-I think we've heard enough, B.S.

B.S.-Don't you want to hear about "The land that Algebra Forgot"?

M.S.-No thanks. This is Mike Stroder signing off and reminding you - if you think you've got it bad now, wait until you see what your kids will put up with!

Predict the future

Submitted by HONEYWELL

You, young men and women, will be the ones to shape our future—and Honeywell wants to know what you feel that future will be like.

On Oct. 3, Honeywell launched its second annual Futurist Awards Competition, an essay contest that asks college students to predict technology achievements that will be reached 25 years from now. Ten convincing visionaries will each win \$2,000 and a chance at a paid summer job.

Women and men who want to compete must send away for a special blue book by Dec. 1. Essays must be written on two technologies: energy,

computers, marine systems, aerospace, biomedicine or electronic communications. A third essay must address the social impact of the technological advancements.

Complete entries must be postmarked by midnight, Dec. 31, 1983. Winners will be announced Feb. 1, 1984 and will be honored at an awards ceremony in Minneapolis.

For a Honeywell Futurist Awards Competition Blue Book call toll free,

1-800-222-IDEA, or write Honeywell Futurist Awards Competition, P.O. Box 2008, 600 South County Rd. 18, Minneapolis, Minn. 55426.

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Department of H-SS split

Y PHYLLIS HARSTER

What was once the Department of Humanities and Social Sciences has been divided into any individual departments. The main reason for this development is to improve UMR's profile as a university and not just as a technical school.

Dr. Wise, Chairman of the English Department, explains that there exist no full-fledged universities that do not have a department of philosophy, with "philosophy" in the title. This is also the case with regard to English and the other areas of the humanities. There is, of course, a department of philo-

sophy at each of the other UM campuses. Hence, while the "Department of Humanities" may have been adequate for the sort of institution UMR once was, it represents an idea today whose "time has gone." For example, we have separate departments for physics and chemistry—not just a "De-

partment of Sciences."

So, with the rapid growth of the role of the humanities at UMR, it became important to recognize each department as a specific department. In the last year alone, the number of majors offered in the various Humanities and Social Sciences departments has in-

creased from 17 to 28. And many people are acquiring minors in these areas—especially in the writing and communications skills. In the working world of today, it is no longer enough to just have the technical knowledge, you have to be able to communi-

cate your ideas, too.

So, in keeping with Chancellor Marcello's commitment to strengthen the overall quality of this institution, it was decided to give each department the credit due to it individually.

Financial Aid

from page 1

complete the section containing the Affidavit of Selective Service Registration Compliance except for those who meet the other conditions. The

Whites, is that it makes accounting and paperwork difficult since the SFA office has to keep track of the hours worked by such students. It is

to (and will) go through are concerned. Adds Whites, "Additional resources are being developed and surveyed to offer students more financial aid for the next academic year,

and for upcoming years."

Feel free to contact the SFA office if you are in need of further assistance concerning financial aid.

AFFIDAVIT OF SELECTIVE SERVICE REGISTRATION COMPLIANCE

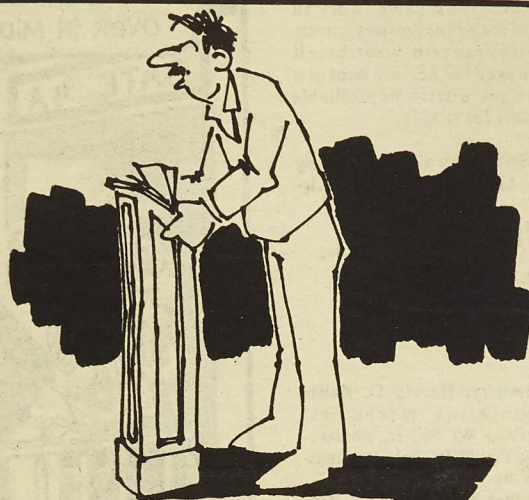
Affidavit of selective service registration compliance is required for financial aid consideration for 1983-84.

I, _____, certify that I am not required to be registered with Selective Service, because—(check one reason below)

- ☐ I am a female.
- ☐ I am in the armed services on active duty (note: Members of the Reserves and National Guard are not considered on active duty).
- ☐ I have not reached my 18th birthday.
- ☐ I was born before 1960.
- ☐ I am a permanent resident of the Trust Territory of the Pacific Islands or the Northern Mariana Islands.
- ☐ I certify that I am registered with Selective Service.

NOTE: You will not receive Title IV financial aid unless you complete this statement.

SIGNATURE OF APPLICANT _____ DATE _____



"OF COURSE I'M MAKING SENSE, THIS CLASS IS INTRODUCTORY LOGIC."

tion of UMR Financial Statement of Educational Expense form that pertains to compliance and exemption is shown below:

estimated that between 390 and 400 students are currently on the work-study program. These students are on assignment in various sections of the campus, e.g., Registrar's Office, library, etc.

The SFA office, through Bob Whites, would like to thank the students for their understanding as far as the various procedures they've had

The Student Financial Aid Office (SFA) wants to inform students on work-study that against regulations to work more than one location at a time on the UMR campus. One of the reasons, says

Dedication

from page 1

gy. He emphasized that the Mineral Engineering building had not have received a more fitting name than Vachel H. McNutt Hall. Warner added that while we are present to dedicate the building to V. H. McNutt, the contribution of Mrs. McNutt must not go unmentioned. According to Dean Warner, 'Mama Mac' will be recognized in an appropriate way in the Commons area of the Mineral Engineering building. 'This facility will be a

landmark in mineral engineering for the next century,' said Warner. The Dean concluded by relating the importance of the new facility to that of fuel and non-fuel economy of the U. S. and the world.

Finally, Chancellor Marchello introduced Guthrie Skaggs—the first UMR student to benefit from the Vachel H. McNutt Memorial Foundation for which Mrs. McNutt named the geology department

of UMR as the beneficiary, in memory of her husband. Skaggs presented Mrs. McNutt with a bouquet of flowers.

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MASS SCHEDULE

10:00 a.m. Parish Hall 5:15 p.m. Parish Church

WEDNESDAY

7:30 Newman Center

Monday Tuesday Thursday Friday

12:30 p.m. Center - as scheduled in bulletin

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Airlines feel the pinch

BY LARRY BECK

Think back to the early and mid-1970's. Can you remember hearing about any airline, major ones like Braniff or Continental, going belly-up? Neither can I. Even after the first big oil price rise in 1973, when jet fuel prices shot up, the airlines did okay. They may have lost money during recessions, but they were profitable most of the time.

What happened? I can explain it in one word: deregulation. In 1978, the Carter Administration decided to "get off the backs" of the airlines.

Prior to 1978, the Civil Aeronautics Board (CAB) had exercised quite a bit of control over the airlines. The CAB set ticket prices. It approved new routes. It controlled the number of airlines flying nationally. In short, the CAB took much of the competition out of the commercial aviation industry.

Some people thought that this wasn't such a good situation. They claimed that the lack of competition kept ticket prices too high, that it enabled the airlines to operate inefficiently. These people pointed out that the smaller, more competitive regional airlines had much lower costs and, as a result, much lower ticket prices on comparable routes. They said that these unregulated airlines did better for themselves and that they were better for consumers.

The critics of the CAB eventually prevailed. Beginning in 1978, the regulated airlines became progressively more free to set their own ticket prices and to choose their own routes.

As predicted, ticket prices came down. In fact, they came way down. Airline customers did finitely gained from deregulation.

But the airlines, for the most part, did not. Some wanted to expand the number of routes they flew, so all had to expand to keep their shares of the market. Low introductory prices on routes, set by new entrants, forced all concerned to keep their ticket prices down. This wasn't so much of a problem for the rapidly expanding regionals. They grew by buying cheaper, used airliners. Their employees were

non-union, so they worked for lower wages. For the larger airlines, though, the fares were suicidally low.

As early as 1980, some of the large airlines were losing money month after month. More lost money throughout 1981. They virtually all had losses last year. I'm talking about billions of dollars. Here it is, nine months away from the low point of the long recession, and most airlines are still running up bills faster than they are selling tickets.

A little over a year ago, Braniff couldn't take it anymore. They abruptly stopped flying and went into bankruptcy reorganization. Braniff still isn't flying.

Now Continental has filed for bankruptcy. The airline shut down for a day, reduced the number of routes it flew, chopped its employees' salaries

in half, and cut their one way fares on all routes to \$49.

Continental is probably doomed. Passengers don't trust the airline anymore because it didn't fly at all that one day and it still flies fewer routes than before it filed for bankruptcy. Continental's employees' unions have gone out on strike since the airline has voided its labor contracts. Although many employees are ignoring their unions' strike calls, I don't imagine that they're finding it all that easy to keep smiling on half of their old wages.

In addition, Continental's creditors are liable to try to shut the airline down as quickly as they can rather than have it fall even further into debt as it charges utterly unprofitable prices for tickets.

So another airline is leaving us. Last week, Eastern Air-

lines said that it may file for bankruptcy unless it can get its employees to take wage cuts (on top of previous wage cuts). Also last week, the company that owns TWA said that it wants to sell that airline. These are just the airlines whose stories have made the papers. There are probably several others whose boardrooms feature bankruptcy or divestiture debates.

And it's not just the airlines. Remember the air traffic controllers' strike two years ago?

That strike was spawned by the uncompensated rise in tension felt on the job as the deregulated airlines began new routes, filling the skies everywhere.

All of this is not meant to cause you to think that deregulation is necessarily bad for the economy. What it is meant to do is to cause you to pause before you join those who automatically argue that deregulation is good for it. Maybe deregulation is good, but this isn't evident from seeing what

has happened to the airline industry.

What we need is hard data so we can make an informed decision. Did the consumers gain more than the airlines' employees, and all who depend on them lost?

The thing that really worries me is that the government has now gone from the airlines (and the trucking industry) to the world's largest corporation, AT&T, and it seems to have not even asked this question.

Eighteen faculty named outstanding teachers

Source: OPI

Rolla, Mo. —Eighteen faculty members at the University of Missouri-Rolla have been designated as outstanding teachers for 1982-83.

Outstanding teachers were identified by the UMR Committee of Effective Teaching and Faculty Awards on the basis of student evaluations of the teaching faculty. Those selected will receive plaques commemorating the honor at the next General Faculty Meeting, Nov. 29.

The group includes six professors, seven associate professors, one assistant professor, one lecturer and three graduate teaching assistants.

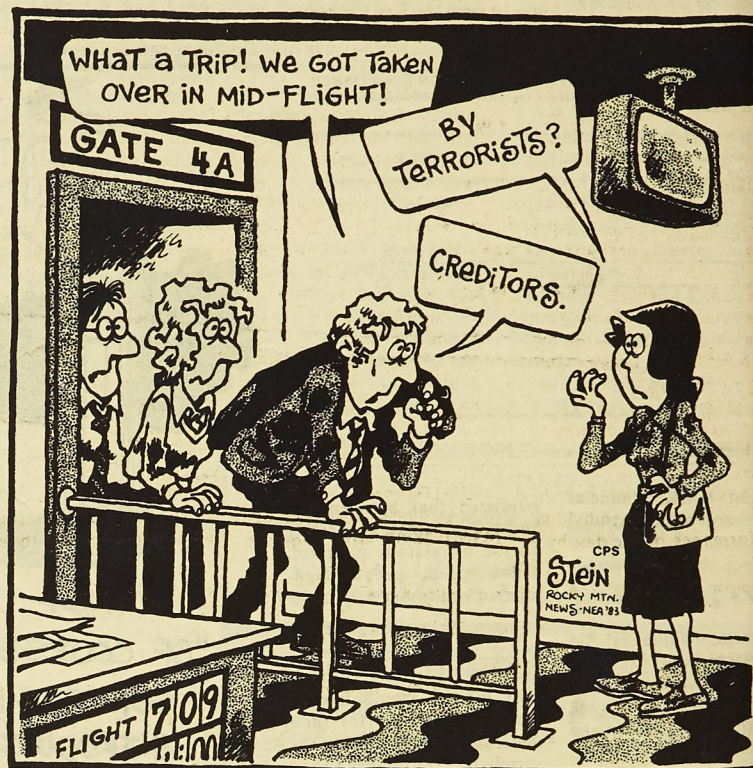
Those honored are: Professors William A. Andrews, civil engineering; Donald R. Aske-land, metallurgical engineering; Thomas J. Dolan, nuclear engineering; Ronald D. Fan-nin, electrical engineering; Nord L. Gale, life sciences; Leonard F. Koederitz, petroleum engineering.

Associate professors Robert S. Barefield, engineering management; Louis Biolsi Jr.,

chemistry; Harold D. Keith, engineering mechanics; Richard W. Miller, philosophy; David B. Oglesby, engineering mechanics; Jerry L. Peacher, physics; Jack B. Ridley, history.

Assistant professor Frances M. Haemmerlie, psychology; Lecturer John Kincaid, civil engineering.

Graduate teaching assistants Bobby Gene Olsen, Linda Penas and Patricia Witkoski, mathematics.



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Men's Cross Country

Harriers Capture Second

by Dan Lichtenwalner

Saturday, the men's cross country team hosted teams in their annual Miner Invitational. The Miners had their sights set on a victory, but CMSU stole the show, winning the meet with 23 points.

The Miners did put out a good effort, and finished second with 43 points. Other team places were: NEMSU, 3rd; Maryville, 4th; UMR (B), 5th; Mo. Baptist, 6th; Washington U., 7th; CMSU (B), 8th; Westminster, 9th; S. of O., 10th; Lincoln, 11th; Central Methodist, 12th.

Rick Schmidt from CMSU was the overall winner in 25:19. Jackets were awarded to the top finisher from each team, and UMR's jacket went to Jim Bullard, who finished 4th with a time of 25:41. Jim has been the team's backbone all season, leading the Miner attack. He has made an incredible comeback from missing all of last season with knee injuries.

The team also voted on the most outstanding individual performance of the day by a

Miner (besides Jim). This went to Pete Lichtenwalner, who finished 6th overall in 25:55. This was his personal best time by 30 seconds, and over a minute faster than his best time last year. He was also awarded a jacket for his effort.

The next Miner finisher was Dan Marley, finishing 8th in 26:07. Dan also had an excellent race, running his fastest time by 18 seconds. Next for the Miners were Keith Smith, 12th, 26:21; and Bob Sauer, 13th, in 26:24. Both Keith and Bob also ran their fastest times for five miles. The Miner's 6th and 7th finishers were Bruce Berwick (23rd) in 26:49; and Dan Lichtenwalner (24th) in 26:55. Bruce and Dan are coming back into the thick of things, and should be steadily improving during the next four weeks.

The rest of the Miner finishes were as follows: Mark Stump (25th) 27:05; Curt Elmore (26th) 27:07; Scott Giltner (38th) 27:34; Joe Henze (40th) 27:41; John Borthwick (42nd) 27:59; Craig Scott (43rd) 28:02; Jim Clossick

(46th) 28:33; Curt Macke (29:58); Scott White (30:10); and Stan Novak (32:20).

The Miners were well supported by parents and fans, and the team members thank all those who showed up and cheered. A special thanks also to the timers and organizers, who definitely had as much work to do as the runners. (They had to know who the runners were.)

These next two weeks the Miners are spending preparing for the conference meet. It will be held on Oct. 21, 10:30 a.m. at the UMR golf course. On Oct. 15 most of the runners will be running at Wash. U., with the exception of a few of the top runners. This will help to determine who will make up the team running at the conference meet. It will also be one last chance to see how the Miners stand up against the area runners. If you're in St. Louis next weekend, feel free to stop by Forest Park to watch the Miners run, both the men's and women's teams; starting at 11:00 a.m. for the women and 11:30 for the men.



Dan Lichtenwalner and Mark Stump have their sights set on winning.

Men's Soccer

Split decision

by Chris Colona

Last week the men's soccer team took their show on the road, where they met mixed success. Playing at McKeudree College, the Miners ran off to a 4-0 win. Coming back two days later in Evansville versus Indiana State, the game was almost exactly the opposite as UMR fell 3-0.

In the first game, the Miners dominated as Jeff Smith, Scott Jaskowiak, Keith Vandersteen and Bryan Dickerson scored goals that were unanswered by McKendree. "It was fun" described sophomore Andy Carpenter as Rolla scored its most decisive win of the year. Freshman Mike Lane, who didn't score, but hit the crossbar, played a key role in the offense from the striker position. The defense was its usual stingy self as it helped goalie

Ben Birch record his second shutout.

Dropping their record to 7-4, the Evansville game was one the team would preferably like to forget. About all the senior captain Matt Budd would say in describing the loss was "We played pretty lousy. Everyone was trying but they killed us." If you had to look for an optimistic note in the game, UMR got some inspired play from its bench. Carpenter said, "The starters, we couldn't do a thing, but some people who normally don't play went in and did really good and really hustled."

This weekend Rolla travels to Wheaton, Illinois, for the Wheaton Tournament. In what is the last roadtrip of the season for the team, unless they qualify for nationals, Rolla must face two clubs

with good records, Seattle Pacific and Wheaton College. Having played seven of its last eight games away, the schedule finishes off with UMR playing their last six games here.

Among these six games, three are conference games which will decide the MIAA championship. In a tight race that UMR has yet to get into, Northeast, Southeast, and UMSL are all even at 1-1. The only conference games each school has left is versus UMR so the Miners have a chance to decide their own fate. "It'll be interesting to see how everything turns out," conveyed Budd. "We're just going to have to suck it up and play good." The team opens the homestand on Homecoming Day, Oct. 22, versus UMSL at 7:30 p.m.

Miner's Road Show

Too Generous

Rolla, Mo.—Turnovers make football teams do strange things, according to University of Missouri-Rolla head coach Charley Finley.

"It is the single-most important statistic relating to the final score," Finley said, "and we have been the victim of too many turnovers in 1983."

Finley's comments followed UMR's 21-17 loss at Lincoln University which dropped the Miners to 3-2 overall and 0-1 in the MIAA.

The Miners turned the ball over five times, with two of those miscues leading directly to Lincoln touchdowns.

UMR jumped on top early, as James Hoy scored on a four-yard run in the first quarter and quarterback Chris Nisbet found tight end Scott Stephens for an eight-yard touchdown strike in the second quarter.

After that, the problems started.

"You have to bury a team when you have them down 14-0 in the first half," Finley said. "We didn't, and they capitalized on our mistakes."

The Blue Tigers fell on a

Nisbet fumble at the UMR 26-yard line late in the second quarter, and five plays later scored on a one-yard run by quarterback Lamont Baker.

UMR took a 17-7 lead in the third quarter on a 26-yard field goal by George Stock, but Lincoln surged back when Baker found Wes Wood open in the end zone for a 42-yard pass. Baker and Wood then combined on a two-point conversion pass to cut the lead to 17-15.

The score remained unchanged until late in the fourth quarter, with the Miners running out the clock. With the ball on the Miners' 36-yard-line, Nisbet fired a 10-yard pass to

Keenan Curry, who bobbled the ball at the 45-yard-line.

Cornerback Tim Gray, coming in to make the tackle, scooped the ball up in mid-air and galloped all the way to the Miner five-yard line to set up the game winner. Four plays later, Durrel Taylor powered over on a fourth-and-one to give Lincoln an upset victory.

It marked Lincoln's first MIAA football win since 1979.

"No one feels worse about losing this game than we do," said Finley of the UMR team. "But it is now our job to pick ourselves up and overcome it. We cannot afford another conference defeat if we are to remain in the title chase."

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Women's Soccer Sixth in Region

BY TRACY BOLAND

Regular readers of the MINER will remember my prediction last issue that the Lady Miners would probably win against SIU-Edwardsville on Tuesday evening. Well, I was wrong. SIU came back from a 1-1 tie in the second half to score another goal on a penalty shot and win 2-1.

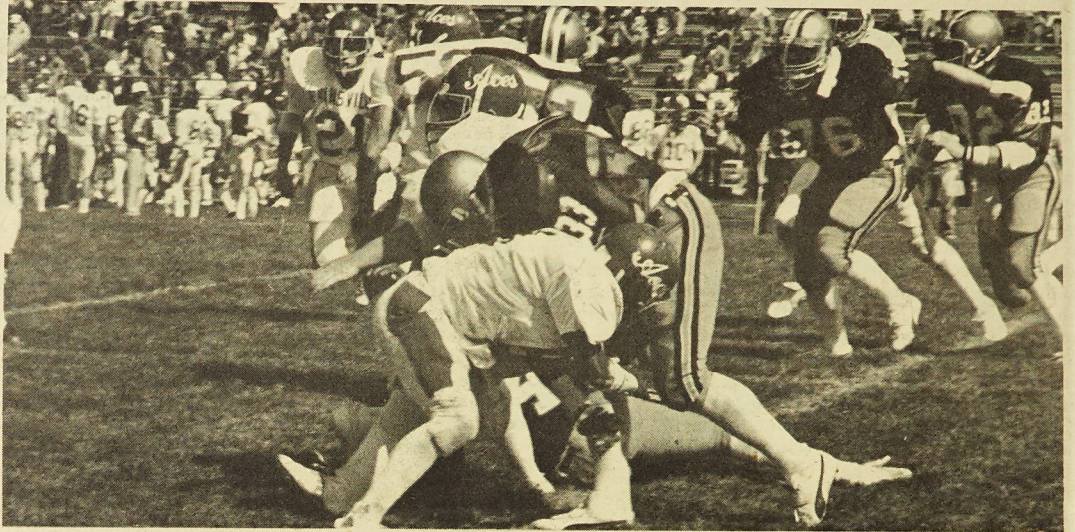
Turnout for the match was poor, due to a threatening rainstorm that made playing conditions very unfavorable, and pretty darn cold, too. However, those fans that did sit out the entire game saw the women make a valiant comeback attempt in the final 15 minutes. UMR's only goal

came about 15 minutes into the second half, when Jan Wilkerson swept a pass from Kris Brillhart past the Cougar's goalie into the net. This goal put the game at 1 all, until about ten minutes later, when a Cougar player was fouled in the area. This led to a penalty kick on goalie Lisa Frumhoff, who was unable to make one of her usual saves.

The women take a break from playing games for about a week and then they host Principia College on October 18. The Lady Miners will be looking to increase their record to 6-3, and perhaps move up a notch or two in the Western Region rankings, where they are currently number six.



Women's soccer preparing for SIU-Edwardsville.



The Miners took a 35-21 decision over the Bearcats.

MIAA

Player of the week

Source: MIAA OPI. Glenn Wilhelm, University of Missouri of Rolla, linebacker from Cape Girardeau Central High School is the MIAA Defensive Player of the Week.

The 6'2", 230 lb. sophomore, playing only three quarters in the Miner's 37-6

win over the University of Indiana-Evansville, helped hold the Evansville rushing attack to a minus 42 yards with 14 tackles and 1 QB sack as Coach Charley Finley's MO-Rolla squad brought their season non-league record to 3-1.

M-Club

M-CLUB

ATHLETE OF THE WEEK

The M-Club is proud to present this award to both Matt Budd and Lisa Frumhoff of the men's and women's soccer teams.

Matt Budd, showing some of his outstanding defensive

Waterpolo gains

Wet victory

by Anne Werner

The UMR Waterpolo team traveled to Little Rock, Arkansas this past weekend (October 7-8) for the Arkansas Invitational Waterpolo Tournament. The Miners captured first place in the tournament by swamping Arkansas University, 17-10, in the final game Saturday night.

Four teams competed in the tournament; Southern Illinois University at Carbondale, Arkansas Waterpolo Club, Henderson State College, and UMR. Only twelve players from UMR went to the tournament, but the Miners still came out on top.

"We played good enough," commented teammate Paul

talent, led the Miners in the 4-0 shutout of McKendree. Two days later, Matt again played a great defense even though the tough Indiana State University at Evansville won the game.

The women's soccer team has been having a very strong season, due to teamwork and

exceptional goal-tending. In their best games against Southern Illinois University at Edwardsville and nationally ranked University of Missouri at St. Louis, Lisa Frumhoff has proven her worth with some excellent goal-tending. Congratulations, Matt and Lisa!

This tournament should provide the Miners with plenty of competition. Iowa State, Northwestern University, Loyola and Indiana University will challenge the skills of UMR's waterpolo team.

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IM Swimming

Two new marks set

BY BOB GAYNER

The Intramural Swimming Finals held one week ago (Oct. 6), had some fast and wet action for those watching and participating. Two IM records were set that evening as ZTA and Sigma Chi took top honors.

For the men, Doug Imrie of Sigma Pi broke the best 200 freestyle mark by 7/100 of a second. Doug's time of 1:56.51

left the rest of the field over a second behind.

By the way, Doug broke his own record from last year while swimming for MHA-East.

On the women's side, Kappa Delta's 100 Medley Relay team destroyed the previous record by nearly four seconds as they ran away (figuratively speaking, of course!) with the blue ribbon in the first event of the night.

The top five teams in each division were:

Women	Men
1) ZTA	Sigma Chi
2) KD	TJHA-N
3) AWS	Sig Ep
4) CHI O	Sig Pi
5) RHA	Pi KA

IM Raquetteball

Men's Doubles

TJ-South beat Kappa Sigma to win

Men's Singles

Henry beat Raymer in the first game. Final was Tuesday

Women's

See last week's paper.

Tennis

Men's Doubles

TKE beat Delta Sig to win it all. Kappa Sig 3rd.

Men's Singles

TKE vs. Sig Nu. Winner plays Sig Chi for right to play ABS in finals.

Woman's Doubles

ChiO beat ChiO to win it all.

Women's Singles

ChiO beat AWS in finals.



Scott White tries to improve the Miners position.



Jill Cameron and Gail Halsey help the Lady Miners capture seventh.



Our Editor!!!

ENGINEERS

November 1

SUNDSTRAND ON CAMPUS

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IM Football Winding Down

BY BOB GAYNOR

Your harried IM football writer just got off of the phone after calling around the world (Rolla, anyway) to get the latest IM scores. Unfortunately, they're old by the time the paper comes out, but they're

better than nothing. I have ten minutes to get to Centralized Printing, located in what looks like the bunk house in which Gomer Pyle swept his way in to our front lobes. So, here's the scores. Don't blink or you'll miss them

IM Football Results

Sept. 29	Phi Kap	14	Sig Pi	7
	Sig Ep	38	Kap Sig	17
	Beta Sig	35	Delta Sig	0
	BSU	20	Vets	19
	AEPI	24	ACACIA	7

TJ beat Theta Xi, also!

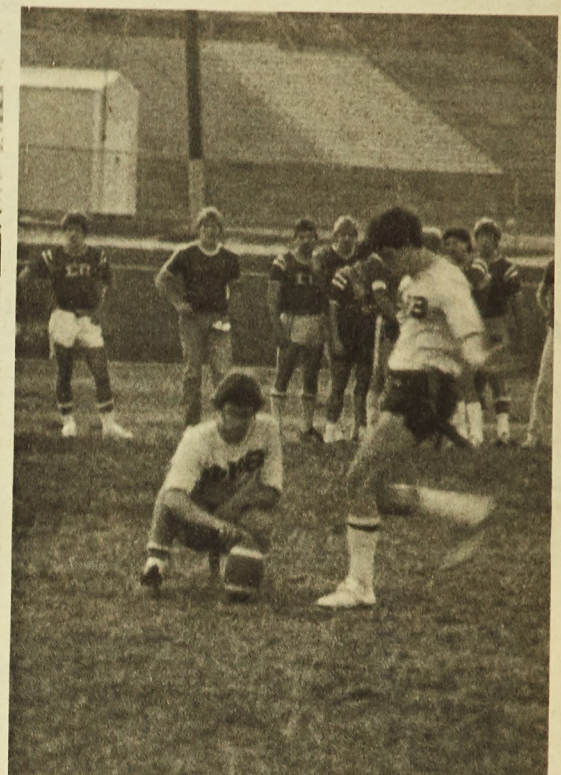
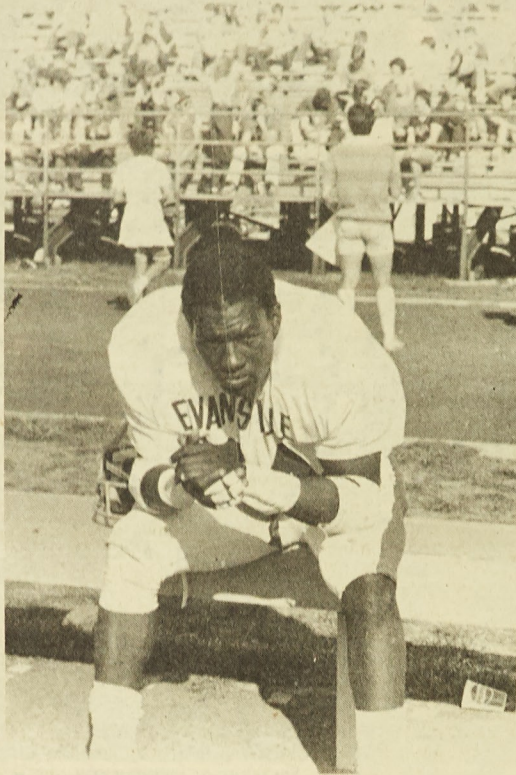
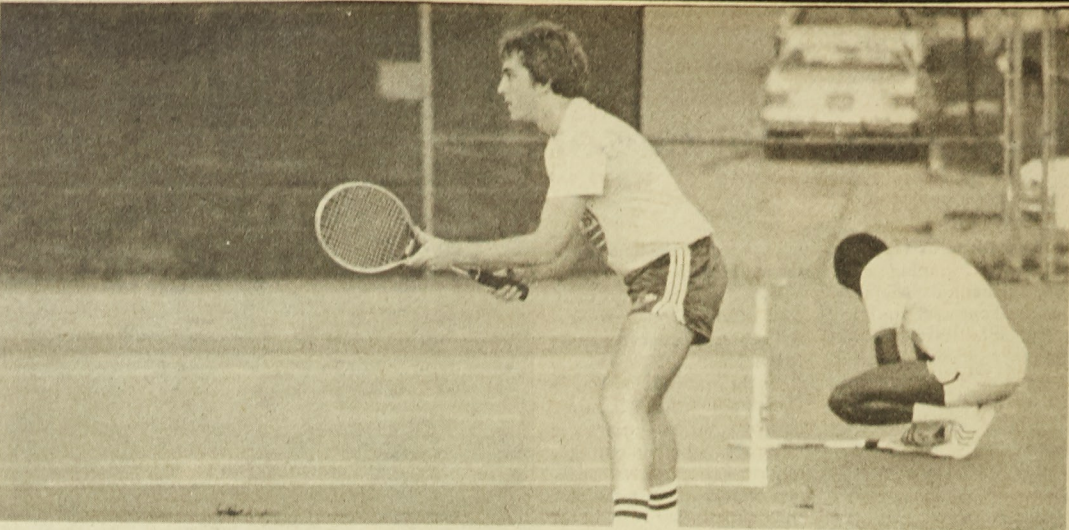
Oct. 3	Tech	20	Kap Sig	17
	Campus	19	KA	16
	Lam Chi	37	Delta Tau	0
	KAPsi	17	Sig Chi	8
	RHA	1	KD	0

GDI beat AF, too!

Oct. 5	Beta Sig	19	TKE	6
	PiKA	21	Triangle	0
	AEPI	14	ABS	0
	CCH	7	KAPsi	6
	GDI	21	Theta Xi	0

Next week, the schedule is as follows:

Oct. 13	Tech/Lam Chi	Phi Kap/Delta Sig
Oct. 17	E	W
6:30	TJ/Sig Tau	Vets/Sig Chi
7:45	TKE/Sig Pi	ABS/Theta Xi
9:00	PiKA/Sig EP	CCH/BSU
Oct. 18		
6:30	Sig Pi/KA	BSU/APhiA
7:45	Sig Ep/Lam Chi	ACACIA/AF
9:00	Delta Sig/Campus	



Playoffs begin Oct. 19

if it's a dry week.

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Women 5-2

Rolla, Mo.--The University of Missouri-Rolla women's soccer team upped its record to 5-2 last week, winning two of three matches.

The Lady Miners whipped Maryville College 5-0 and Lindenwood 3-0 but fell to national power University of Missouri-St. Louis 3-1 in overtime.

'They are really showing me something,' McNally said. 'UMSL is one of the top teams in any division in the United States and we have them a real battle.'

In the UMSL game, goalie Lisa Frumhoff had 29 saves. Offensively, Janet Stones continued her fine play and paces the Miners with seven goals in seven games.

After hosting Southern Illinois University-Edwardsville Oct. 4, the Miners break until and Oct. 12 home match against Missouri Baptist College.

Men Ranked First

Rolla, MO.--The script is set for the University of Missouri-Rolla men's soccer team.

Currently 6-3 overall and ranked first in the ISAA (Intercollege Soccer Coaches Association of America) Midwest Region Soccer Poll, the Miners know what lies ahead.

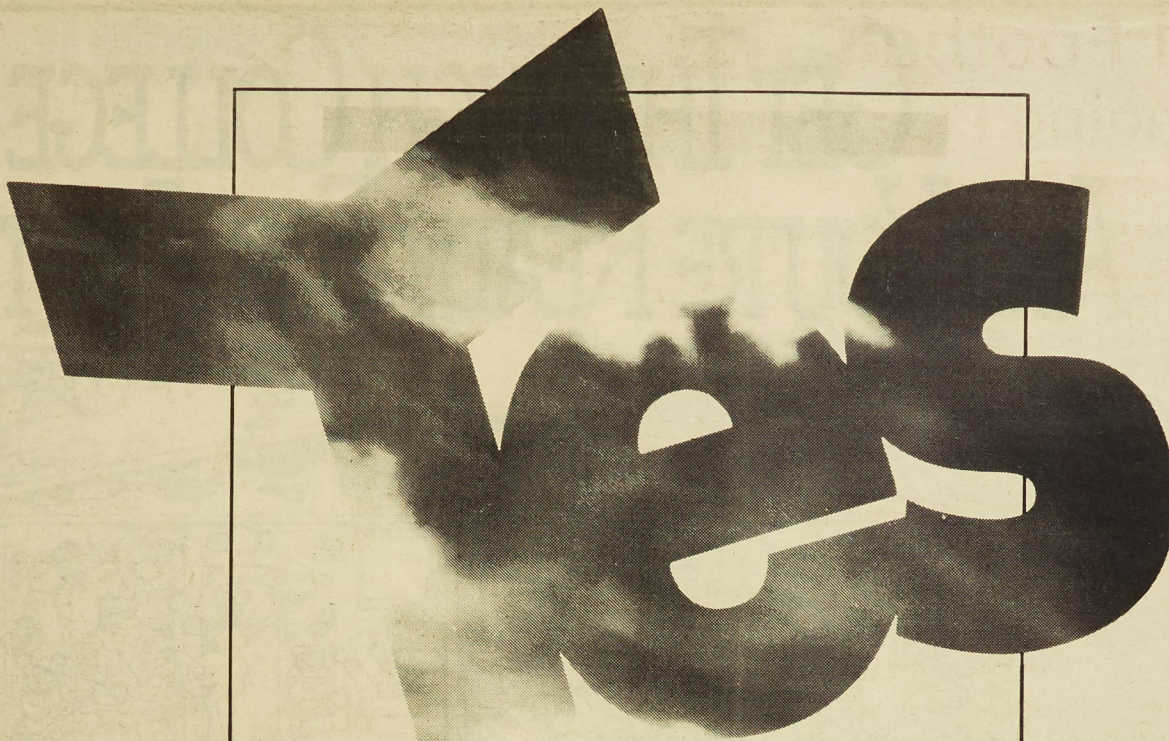
'We have to continue to be tough, as all our conference games are coming up, and front-running University of Missouri-St. Louis already has a defeat in league action,' said Coach Paul McNally, 'we control our own fate at this point.'

The Miners battle McKendree College and Indiana State-Evansville on the road as an MIAA tune-up. UMR faces McKendree in a match Oct. 6, with Indiana State-Evansville set for Oct. 8.

The Miners currently are paced by Keith Bandersteen's five goals and one assist, while goalie Ben Birch has lowered his goals-against average to 1.44.

'We are about where I figured we would be at this point,' McNally said. 'Hopefully, we can do well the rest of the way.'

The miners open conference play Oct. 22, hosting defending champion UMSL in a 7:30 p.m. match.



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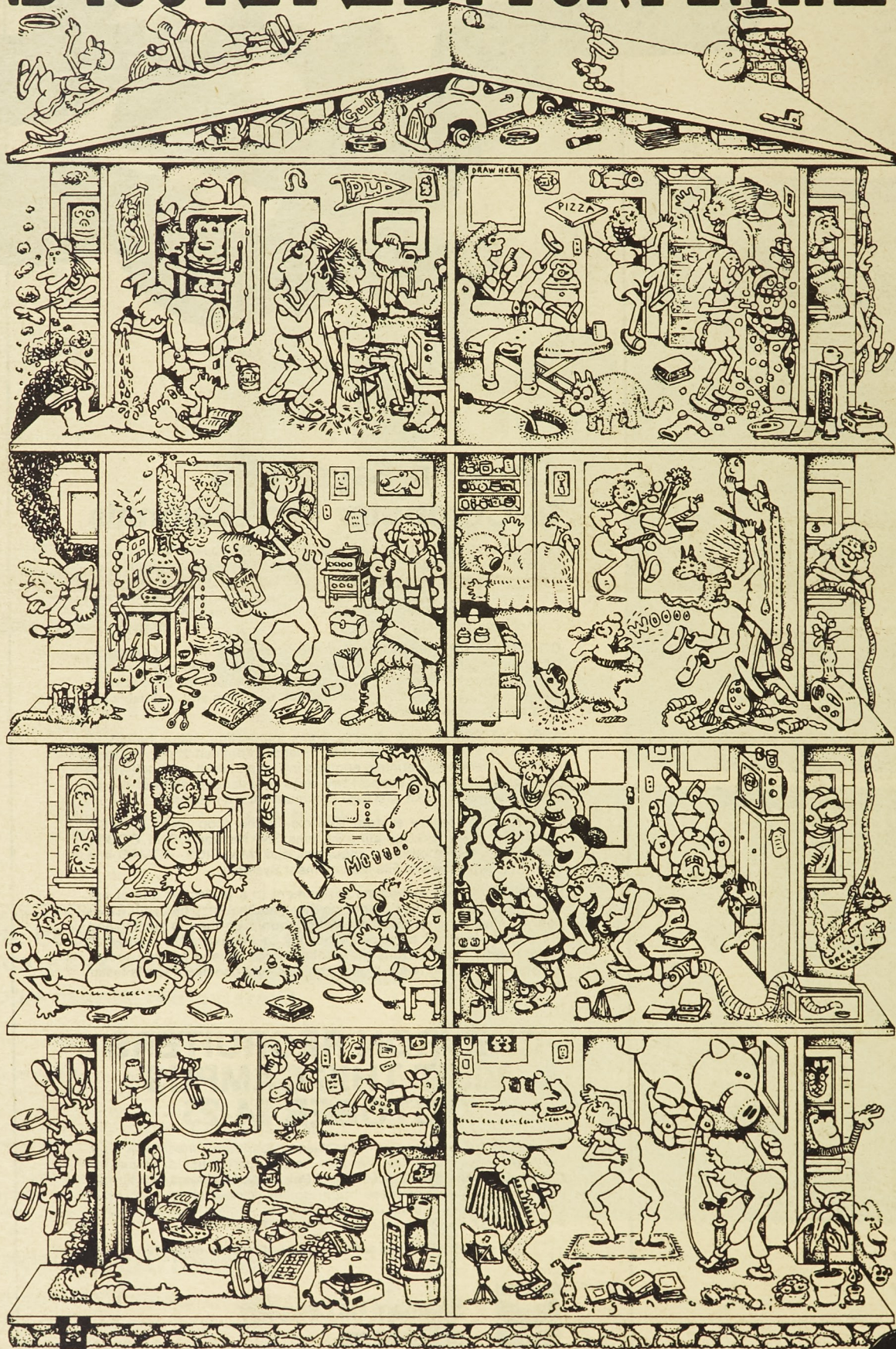
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