



03 May 1984

The Missouri Miner, May 03, 1984

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MISSOURI MINER

For the students of UMR

Volume 72, Number 28

Thursday, May 3, 1984

Sixteen Pages

Job offers for UMR grads up 200%

Source: OPI

Rolla, Mo. —The number of job offers to May engineering graduates of the University of Missouri-Rolla is running more than 200 percent above last year, according to Charles R. Remington, UMR director of career development.

"The number of recruiters coming on campus also has increased significantly," he added. "Among these are some large companies, such as Ford Motor Co. and Caterpillar Tractor Co."

He said that recruiters are

continuing to interview prospective employees later in the year than usual, and that there is greater competition for graduates as the year progresses. "Ordinarily, recruiting for spring graduates has been pretty well completed by this time of year," he explained.

"This year, just since January, we have had an increase of more than 50 percent in the number of companies scheduling interviews, and we are still getting calls from companies that want to hire engineers, this includes co-op jobs for undergraduate students as

well as full-time positions for our graduates."

Remington believes that this increase in the number of jobs available is an indication of the apparent national upswing in the economy.

"The trend at UMR, where more than 80 percent of the graduates are in engineering, is about the same as that reported by the College Placement Council nationally. As usual, UMR engineering graduates are somewhat above the national averages, both in the number of job offers and in salaries," he said.

"The biggest demand is for electrical engineers, with computer scientists a close second," Remington said. "However, there is a growth in demand for graduates in most engineering fields. Beginning salaries have remained stable at a relatively high level, with some fields showing a slight increase over last year."

"There are increased opportunities for graduates of all of the four largest fields of engineering—civil, chemical, electrical, and mechanical," he said. "There is always a certain level of need for these

engineers, although there may be year-to-year differences. Right now, increased defense spending is creating a large demand for mechanical, electrical, and chemical engineers in defense-oriented industries, and this is expected to continue."

He added, "Also, we are seeing new jobs for civil engineers because of the major highway and bridge repair projects funded by the gasoline sales tax and in new construction. There are continuing opportunities in environmental and other government

tal positions, as well."

Remington said that, overall, engineering is the number one profession as far as job opportunities and salaries, even though it is affected by economic conditions just as are other professions.

"Last year," he said, "the College Placement Council reported that engineering accounted for 44 percent of all job offers made to graduates, and was far ahead of any other single field. At the same time, as usual, engineering held the top spot in starting salaries."

880 degrees to be awarded at UMR's 111th commencement

UMR's 111th annual commencement to be May 13

Source: OPI

Rolla, Mo. —The University of Missouri-Rolla will award about 880 degrees at its

Marvin E. "Bob" Nevins Jr., consultant to the General Casting Corp., Waukesha, Wis., will deliver the commencement address.

In the event of inclement weather, commencement will be held at the same time in the Gale Bullman Multi-Purpose Building. The location of commencement will be announced on local radio stations by noon on May 13.

If the weather is nice and commencement exercises are held outdoors, guests of graduates will need no tickets to

graduate may have up to four tickets for guests.

Tickets are free and may be obtained (with UMR I.D.) at the UMR Bookstore during regular Bookstore hours from April 30 through noon May 12. They will also be available Sunday morning, May 13, at the Multi-Purpose Building.

Reception for graduates set for just before ceremonies

Source: OPI

Rolla, Mo. —A reception honoring University of Missouri-Rolla students receiving degrees at the 111th annual commencement, their parents, and friends will be held from 10:30 to 11:30 a.m. Sunday, May 13, in Centennial Hall and the Miner Lounge, both in the University Center-East.

Review begins for administrative programs

Source: OPI

Rolla, Mo. —The review process has begun for UMR administrative programs and service and support activities. Individual offices and units are responsible for providing material for the review to the Office of the Vice Chancellor for Academic Affairs by May 31.

Files on non-academic programs and activities have been established in the office of John Vaughn, UMR director of resource management and administrative planning. These files, as well as those established for the review of academic programs and activities, are open to everyone.

According to Dr. John Park, UMR vice chancellor for academic affairs, offices and units are expected to supply the bulk of required documentation on their activities and programs.

"Information from external sources such as business and industry, from independent and public higher education and professional consultants, and from students, faculty, and staff, as well as additional unsolicited information, also will be included," he said.

"This material will be reviewed by the Program Review Sub-committee of UMR's Long Range Planning Liaison Committee and then placed in the proper file."

Park added that materials submitted should address the criteria for determining administrative program priorities that were developed by the UM Board of Curators

Long Range Planning Steering Committee.

"The same general criteria (quality of program, contribution to campus and University missions, need for the program, and financial considerations) that are being used in the review of academic programs and activities also will be applied to the review of non-academic areas," Park said.

He added, "The questions that the individual offices and units will pose in conducting their self-study have been tailored to address administrative concerns."

"The steering committee requires that these criteria be the basis for the eventual assigning of priorities to programs and activities. Priority categories from one to ten will indicate a recommendation for the enhancement, maintenance, reduction, or elimination of programs and activities," he added.

The Board of Curators has requested that the program review process be completed by the four UM campuses and the central administration by

Oct. 15.

Program review files are available 8 a.m.-noon and 1-4:30 p.m. weekdays in 212 Parker Hall. Persons wishing to reserve a specific time with the files should contact Joan Potter, 212 Parker Hall, phone 341-4122.

Review Committee to represent faculty during review process

Source: OPI

Rolla, Mo. —Dr. H.P. Leighly, professor of metallurgical engineering at the University of Missouri-Rolla, has been elected chairman of the Ad Hoc Program Review Committee of the UMR Academic Council.

According to Dr. Carol Ann Smith, Academic Council chair, the purpose of the committee is to become actively involved in the program and activity review now

see

Review Process page 13

Students attend leadership workshop

Source: OPI

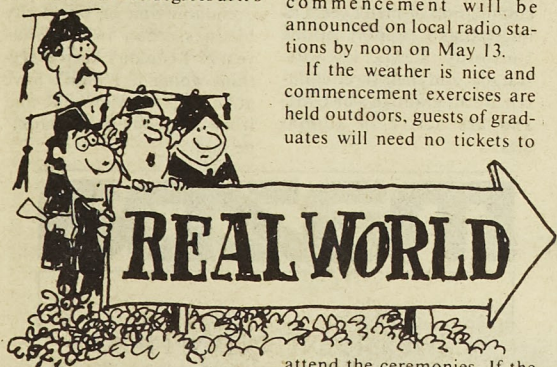
Rolla, Mo. —Nineteen minority student leaders from the University of Missouri-Rolla took part in a recent Minority Student Leadership Workshop in Springfield.

The workshop was financed and conducted by Procter &

Gamble and coordinated by the UM-Rolla Minority Engineering Program.

Fourteen of the participants were representatives of minority student organizations. Five at-large participants also were selected.

This is the second year the workshop has been held.



111th annual commencement to be held at 2 p.m. Sunday, May 13, at UMR's stadium.

TJ residents compete in 1st annual Roommate Game

by Kevin Thornsberry

On Wednesday, April 25, the residents of Thomas Jefferson Hall participated in the first annual Roommate Game. The contest was done in a game show format.

The object of the game was to demonstrate your knowledge of your roommate. Questions tested contestants' familiarity with one another.

Robyn Weber, the organizer of the event, explained how the contestants were chosen for the final elimina-

tion. The contest began with each floor holding a game of its own. The floor presidents were responsible for administering questions which they had received from Weber.

The winners of these preliminary games then competed in semi-finals against the others in their building. One semi-final was held for the North Tower, and one was held for the South Tower. Fourteen teams competed in these semi-finals. From the contest two teams were

chosen from each tower to compete in the finals.

The teams were, Robb Woodruff and Steve Jarvis representing ninth floor south, Randy Skaggs and Rainer Mueller representing fifth floor north, Lynn Wegener and Karie Andersen representing third floor south, and Steve Ehrett and Jon Blunt representing sixth floor south.

The winners of the \$100 prize were Lynn Wegener and Karie Andersen.

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 Calendar of Events section of the paper.

No articles submitted will be printed unless written in complete sentences with proper grammar. No schedules or flyers will be rewritten and published by the staff for Calendar of Events.

If you want something published in more than one issue, please submit it just prior to each issue (and before the Sunday deadline).

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

Chi Alpha Christian Fellowship

We, the members of Chi Alpha Christian Fellowship, invite you to join us in a time of worship of our Lord Jesus Christ and a time of fellowship with some of His believers here on campus. We would like to introduce you to our wonderful Saviour. We meet every Thursday evening at 7 p.m. in the Ozark Room, Univ. Center-West (upstairs). We look forward to seeing you there.

M-Club

M-Club will have an important meeting Thursday, May 3 at 7 p.m. in CE 114. Election of officers.

MSM Rock Climbing Club

The last meeting of the MSM Rock Climbing Club will be held on Thursday, May 3 at 6:30 p.m. in 305 Norwood Hall. Plans will be discussed for summer climbing trips. Members with Club property are asked to return it at this meeting, please.

UMR Film Series

7:30 p.m., Miles Aud., Mech. Engr. Bldg. Season ticket or \$2.50 at the door.

In Appreciation of the Olsons

Reception and dinner honoring UM President and Mrs. James C. Olson. Reception, 6:30 p.m.; Dinner, 7:15 p.m., Centennial Hall, Univ. Center-East.

UM Board of Curators Meeting

Thursday and Friday (May 3, 4). Board of Curators meet on campus.

SATURDAY

Wargamers Association of Rolla

The Wargamers Association of Rolla will hold an open gaming session Saturday, May 5 in the Mark Twain Room of the Univ. Center-East, 9 a.m.-5 p.m. Take time out from studying to vent your frustrations against an unwary opponent! Everyone with an interest in historical and role playing games is invited to attend.

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.

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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

MONDAY

Auditions for Cedar Street Center Summer Theatre "84"

6 p.m., Cedar Street Center. Selections are "Some Enchanted Evening" and "Luv." To audition, prepare a song from a musical and provide your own accompanist.

SUNDAY May 13

111th Annual Commencement

2 p.m., football stadium. In case of inclement weather it will move to Bullman Multi-Purpose Bldg. Speaker will be Marvin E. "Bob" Nevins, consultant to General Casting Corp. and founder and former president, chairman, and chief executive officer of Wisconsin Centrifugal Foundry Inc., Waukesha, Wis.

NODAY

Employee Parking Permits

Parking permit applications for full-time employees have been distributed for the '84-85 school year. If you have not received your application by this time, please contact the University Police to obtain the proper forms. Call 341-4308. The permit application deadline is June 1, 1984.

Ozark historical drama begins 25th season

"The Shepherd of the Hills" historical outdoor drama near Branson, Mo., began its 25th consecutive season Saturday, April 28. Performances continue at 8:30 p.m. with pre-show entertainment starting at 7:30 p.m.

Director Keith Thurman has assembled a cast and staff of more than 100 Ozark residents, with many of the major roles filled by actors who have acted in "The Shepherd of the Hills" for several years.

Lloyd Durre (the Shepherd), Bud Jackson (Doc Coughlin), and Gil Elmore (Jim Lane) all have more than 20 years in these roles. Many

other performers have been active in the production for over ten years.

Thurman also announced some scene changes for this season. "We are constantly working to make the drama more enjoyable for our audiences," said Thurman. "We want the story to be understandable to all members of our audiences, even if they are not familiar with the 'Shepherd of the Hills' legend."

"The Shepherd of the Hills" drama is based on Harold Bell Wright's turn-of-the-century novel bearing the same title. In his novel, Mr. Wright told the true-to-life story of the pioneers of this rugged hill country; and although the story is considered as historical fiction, it records the most important historical events in this part of the Ozarks.

Funeral services set for Bouchaert

Source: OPI

Rolla, Mo. — Funeral services for Mark George Bouchaert will be held at 9:30 a.m. Monday, April 30, at the Kutis Funeral Home, 11051 Gravois, St. Louis.


A mass will be held at 10 a.m. that day at St. Catherine's Laboure, 9800 Sappington Rd., St. Louis.

Mark was killed last Thursday night (April 26) in a car accident on Highway E.

He was a graduating senior in mechanical engineering and was in the Kappa Sigma fraternity.



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Curators President is involved in his job

Source: OPI

Rolla, Mo. — David W. Lewis, president of the University of Missouri-Rolla Board of Curators, believes in really being involved in any job he undertakes.

He is chairman of the United Missouri Bank of St. Joseph with a busy schedule of professional and civic activities, and he applies that same commitment to being a curator.

"In getting involved, you need to really participate in what is going on. For a curator, that means getting acquainted with all of the campuses and being concerned with each of them. We curators really do ourselves a favor when we get out to different campuses," he explained.

In following his own advice, Lewis finds that he has spent far more than the two days per month nominally required for board activities.

"There are such things as budget hearings, commencement, and special events at each of the four campuses—such as UMR's St. Pat's celebration—things that make up part of the pleasure of being a curator," he said.

For Lewis, serving on the UM Board of Curators is the culmination of many years of interest and support of the University. Lewis, his wife, Natalie, and their three children are all graduates of UMC and are active in alumni affairs.

He has served in a number of leadership capacities with a variety of organizations such as the St. Joseph Chamber of Commerce, the Francis Street United Methodist Church, the Boy Scouts of America, the Missouri Bankers Association, the Masonic Lodge, and 15 years as treasurer of the St. Joseph Board of Education.

His experience in finance has no doubt helped in understanding and dealing with the University's budget problems during his past few years.

"Concerning the financial difficulties of the University, I feel that the bottom line is that Missouri in terms of appropriation and tuition and fee revenue per student ranks 50th out of 51, and only one state, the state of Washington, has a worse record than Missouri," he said. "The University has operated on the same appropriation dollars for the past four years."

"We must continue to spread the word that money spent on education is returned to the state by an educated citizenry in many ways—taxes, attracting industry, generating jobs, and in bringing other educated people to the state."

This is Lewis' sixth and final year on his appointment as a curator, and as president of the board he is spending even more time on University business than in previous years. "I couldn't keep everything going if I didn't have good help from my wife and from key people at the bank," he said.

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IEEE honors faculty, students

Award certificates presented

Source: OPI

Rolla, Mo. —Three University of Missouri-Rolla students and four UMR faculty members have been awarded certificates by the Institute of Electrical and Electronics Engineers in recognition of outstanding services "rendered in furthering the objectives of IEEE."

The certificates were awarded at the annual banquet of the UMR student chapter of IEEE, which was held recently at the Lions Den in Rolla.

UMR students honored by IEEE were: Mark Clauss, senior in electrical engineering; Therese McLaughlin,

senior in EE; and Mike Baldwin, junior in EE.

Certificates were for the following faculty: the late L.H. Lovett, UMR professor emeritus of electrical engineering; C.J. Grimm, UMR professor emeritus of EE; Gabriel G. Skitek, UMR professor emeritus of EE; and Dr. Frank J. Kern, UMR professor of EE.

"These professors all served as the faculty adviser to the UMR student chapter of IEEE," said Dr. S. Vittal Rao, UMR associate professor of electrical engineering and currently faculty adviser to the UMR student chapter of IEEE. "Their record of service to UMR students and the UMR student chapter of IEEE is distinguished and dates back to the chapter's establishment at UMR in 1925."

Professor Nau to receive IEEE award of honor

Source: OPI

Rolla, Mo. —Robert H. Nau, professor emeritus of electrical engineering at the University of Missouri-Rolla, will be presented with the Institute of Electrical and Electronics Engineers (IEEE) Award of Honor at the IEEE St. Louis Section banquet May 4, Engineers' Club, St. Louis.

Nau will be honored for "outstanding engineering achievement in power transmission, and electric circuit breaker development, for inventions of circuit protective apparatus, and for his published university textbooks and contributions to

student welfare and guidance."

Nau, who received his emeritus title Sept. 1, 1983, joined the UMR faculty in 1957. He had previously worked for Westinghouse Electric Co. (where he developed circuit breakers and received five patents on that equipment) and for Allis-Chalmers. He also had taught at the University of Santa Clara, Ohio Northern University, and the University of Illinois.

During his 26-year career at UMR, he has written five textbooks and numerous technical papers and has served as an undergraduate student adviser and chairman of the scholarship committee for the electrical engineering department, adviser to the UMR Radio Club, and adviser and coach of the UMR Trap and Skeet Club. Even after retirement, he continues to teach one class in electrical engineering.

In 1982 the St. Louis Section of IEEE presented him with the IEEE Education Award for "contributions to engineering by developing engineers with foundations in electric circuits, and in recognition of leadership and devotion to the students."

SPE students win 1st place in paper contest

Source: OPI

Rolla, Mo. —Two University of Missouri-Rolla students in the Society of Petroleum Engineers have won first place awards in the Rocky Mountain Regional student paper contest of the society.

Steve Homoky, a senior in petroleum engineering from St. Charles, received a cash award and plaque for his paper, "Selection of an Optimum Approximation for Gas Deviation Factors."

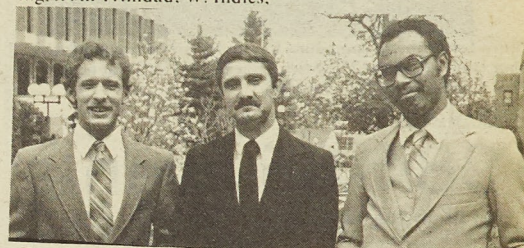
Jeffrey Joseph, a graduate student working on a Ph.D. degree in petroleum engineering, from Trinidad, W. Indies,

received a cash award and plaque for his paper, "Numerical Experimentation with Sand Face Flow Rate Data."

Dr. Leonard F. Koederitz, UMR professor of petroleum engineering, supervised research on both papers.

According to Koederitz, the papers were judged on merit and research. A number of universities offering petroleum engineering took part in the contest which was held at the Montana College of Mineral Sciences and Technology.

The contest was sponsored by the Society of Petroleum Engineers.



Two University of Mo.-Rolla students in the Society of Petroleum Engineers have won first place awards in the Rocky Mountain Regional student paper contest. They are (left) Steve Homoky, a senior in petroleum engineering from St. Charles, and (right) Jeffrey Joseph, a graduate student working on the Ph.D. in petroleum engineering from Arouca, Trinidad, West Indies. Each student won cash awards and plaques. With them is Dr. Leonard F. Koederitz, UMR professor of petroleum engineering. Dr. Koederitz supervised research on both papers.

Finley Fellowship established

Source: OPI

Rolla, Mo. —The department of electrical engineering at the University of Missouri-Rolla has received a gift from alumnus Fred W. Finley to establish the Fred W. Finley Fellowship in Communications.

The endowed fellowship will support a UMR electrical engineering student pursuing a master's or doctoral degree with emphasis in communication theory and application. Dr. J. Derald Morgan, Emerson Electric Professor and chairman, electrical engineering department, said that the first recipient may be chosen next fall for a partial fellowship.

Finley, senior partner and chief administrative officer, Finley Engineering, Lamar, received a B.S. degree in electrical engineering at UMR in 1941 and the professional degree of electrical engineering in 1975. He has received

the UMR Alumni Achievement Award and is a charter member and has been an officer of the UMR-Rolla Academy of Electrical Engineering, a departmental advisory group of alumni and other electrical engineers who have made outstanding contributions to their profession. He has been president of the UMR-Rolla Order of the Golden Shillelagh, major gifts club, and is a member of the UMR Chancellor's Development Council.

Finley is a member of the Missouri and National Societies of Professional Engineers,

the Institute of Electrical and Electronics Engineers, and the Association of Communication Engineers. He has been active in community affairs, and is a recipient of the Governor's Community Betterment Leadership Award.

Morgan said, "Fred Finley is one of UMR-Rolla's most distinguished alumni and has long been one of the most loyal and generous supporters of this institution and its electrical engineering program. This endowed fellowship perpetuates that interest and support."

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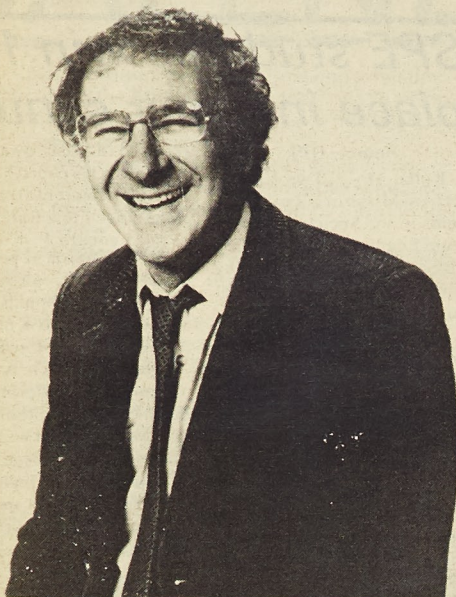
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Steve Landesberg, comedian, known for his character Sgt. Arthur Dietrich on the TV series "Barney Miller" will appear at 8:00 in Centennial Hall tonight.

SUB plans 1984-85 events

By Sandy Nugent

Tonight brings this year's Student Union Board to a close with Steve Landesberg in the Multi-Purpose Building at 8:00 p.m. Admission is free.

Although this year is over, plans for next year have long been under way. SUB's 1984-85 officers are Mark Stuntzner, President; Dan Naunheim, Vice President; and John Schlitt, Secretary. The new directors are Mike McEnery, Concerts; Sandy Nugent, Fine Arts; Ross Warner, Indoor Recreation; Kent Erickson, Outdoor Recreation; Neil Schmitz, Social; Lisa Hill, Special Events; and Dan Morris, Publicity.

SUB plans to start off the 1984-85 school year with a

SUBstantial weekend. All night movies, outdoor run through campus, comedian Tim Setimmi, who by the way was voted campus entertainer of the year on a national level, a Jazz group on the hockey puck--these are just a few events planned. All week long the campus showcase will be in motion with booths from every campus organization supplying information about their groups.

Later on in the semester be prepared for a circus. Yes folks, the Student Union Board will be sponsoring the Chinese Circus. We guarantee a good time will be had by all. Everyone on SUB is psyched!

SUB is students programming for students. Have a great summer, and we will see next fall!

Tickets still available

Dinner with the Olsons

ROLLA, Mo. --Tickets are still available for the University of Missouri-Rolla's "In Appreciation of the Olsons," a reception and dinner Thursday, May 3, honoring University of Missouri President and Mrs. James C. Olson.

Olson will retire as president July 1.

The reception will begin at 6:30 p.m. Dinner will be at

7:15 p.m. in Centennial Hall, University Center-East.

The deadline for ticket sales is 4:30 p.m. Monday, April 30. The cost is \$10, dinner: \$5 or more contribution for a gift for the Olsons. For tickets or additional information, contact Kathy Laue, University Center receptionist, University Center-West, telephone 341-4399.

Groundwaves

The Final Chapter

No doubt the more attentive reader is thinking to himself/herself/itself at this very moment: "Where the hell was Groundwaves last week, D.L.?" In the tradition of such great presidents as George Washington and Richard Nixon, I too cannot tell a lie; I slept through my deadline. Sorry...

Geez, the KMNR Road Show was busy last weekend: a truly phenomenal afternoon at the Greek Games, plus a couple of wild nights at the Ritz with Rocky Horror; this little DJ is pooped!! Thanks loads to Jim Lutton, Ken Ludwig, Chief Wrench Eric Hoehn, and all the folks who helped to make both events such awesome successes. The last big Road Show event of

the year will be tomorrow out at Lions Club Park, where GDI will be sponsoring an end-of-semester "One-to-One" party.

Just so you poor summer scholars will have something to do on those long, hot summer weekends, KMNR is expanding our Weekend Late Movie series into the summer! Up and coming June 15 and 16, John Cleese and company in "Monty Python And The Holy Grail". Our July feature is pending upon how well the June movie does...

You've heard the rumors, and by now it should be a fully functioning fact: the KMNR Concert Line with all the latest concert information plus up-to-the-minute info on KMNR programming and events. We wanted a really

good number, but UTS couldn't come up with anything better than 364-6161. Scrawl it down and punch it in when the need to know hits you. (The KMNR Concert Line is sponsored by End Of The Rainbow, Thanks guys!)

Starting this summer, 89.7 will undergo a few changes in the management structure. Our new Executive Board for the 1984-85 academic year includes:

- *Marshall "Mushy" Rice--Station Manager.
- *Rich "Dick" Arkenberg--Program Director
- *Ron "Scoop" Gramann--New Director
- *Eric "Scotty" Hoehn--Chief Engineer
- *George "Bucks" Miller--Business Manager
- *Steve "Petey" Peterson -- Personnel

Director
*D.L. "Pervert" Bogart--Promotions Director

Thanks and farewell to departing officers John Schultz, Ann Carter, and Ken "Ludes" Ludwig (stepping down but not out). We'll sorta miss you guys.

Looks like this is the last time we'll get together for a while, so I guess a simple good-bye will have to do. If you're leaving UMR for good and forever: GOOD LUCK! (I hope you keep your first job longer than I did.) If you're one of the poor misfortunates who'll be back in the Fall: tune us in first thing when you get back into town. I think you'll like what we have for you. Adieu.

D.L.

Vocalists needed

ROLLA, Mo. --Vocalists and musicians from the University of Missouri-Rolla student body and the Rolla area community will have an opportunity to participate in the performance of the complete "Messiah" by G. F. Handel during the 1984-85 academic year.

The University Choir and Orchestra will present the Christmas portions of the classic "Messiah" during UMR's fall semester and the Easter portions during the spring semester.

For further information, contact Joel Kramme, associate professor of music, who will direct both choir and orchestra, at G-8 Harris Hall, UMR, Rolla, Mo. 65401 (phone: 314-341-4185), or pre-register for Music 40 (Choir) or Music 32 (Orchestra).

ROLLA, Mo. --Auditions for the Cedar Street Center Summer Theatre "84" at the University of Missouri-Rolla will be held at 6 p.m. Monday, May 7, at the Cedar Street Center, Seventh and Cedar streets.

The selections for this year are "Some Enchanted Evening," a series of musical numbers by Rodgers and Hammerstein, and "Luv," a light comedy by Murray Schisgal.

Persons planning to audition must prepare a song from a musical and are asked to provide their own accompanist. However, an accompanist will be provided for those without one.

There are eight paid cast positions, three women and two men in "Some Enchanted Evening," and two men and

one woman in "Luv." Persons are paid \$25 a performance, and there will be six performances of each play.

TUTORING

ALPHA CHI SIGMA

Freshman and Analytical Chemistry
7:00-9:00 PM Tuesday and Thursday
Room 126 Chemistry Building

CHI EPSILON

Statics, Dynamics and Mech. of Materials
Tuesday and Thursday 7 - 8:30 PM
Room 119 Civil Engineering Bldg.

ETA KAPPA NU

EE Help Sessions, Room 105 EE Bldg.
Mondays 7-9:00 PM

KAPPA MU EPSILON

Trig, Algebra and Calculus
Monday and Thursday 6:30-8:00 PM
Room 202 Math-Comp Sci Building

MINORITY AND Women Engr.

Physics, Math, EE, ChE, EM
Chemistry, English and Computer Sci
A complete schedule of times and dates is available in Room 204-Rolla Building

SOCIETY OF PHYSICS STUDENTS

Physics 21-25 and 107
7-9:00 PM each Tuesday
Room 130 Physics Building

ATTENTION FOREIGN STUDENTS

Free information seminar on how to become a **PERMANENT RESIDENT** by Mr. Khuong Vu

M.A. International Law, Immigration Consultant,
Director International Office-St. Louis University
WHEN: SATURDAY, MAY 5 2-4 PM
WHERE: MANOR INN

Call and make your reservations early for Graduation May 13
Dead Week Specials A Shot and a Beer
at Chum's Restaurant and the "OFFICE" Lounge

Johnson retires after 40 years of teaching

Source: OPI

Rolla, Mo. —Dr. Charles A. Johnson, professor emeritus of mathematics at the University of Missouri-Rolla, is winding down a teaching career of more than 40 years which spanned the range from junior high through high school and college undergraduate and graduate levels.

Johnson became a professor emeritus in the fall of 1982 but has returned to campus to teach courses in mathematics when there is a need. This year, he is filling in for other members of the faculty who have to be away from class. He also continues to work with students on Ministry of Higher Educa-

tion projects through the Wesley Foundation. Recently he spent a Saturday in Springfield helping the students on a repair project at the historical old Pitts Chapel United Methodist Church.

A native of the Chicago, Ill., area, Johnson holds a B.S. degree from DeKalb State Teachers College (now Northern Illinois University); an M.S. degree from Northwestern University in Evanston, Ill.; and a Ph.D. from the University of Kansas in Lawrence. "All three of my degrees are in the 'teaching' of mathematics," Johnson pointed out.

The first three years of his career were spent teaching at the junior high level in Illinois public schools. He then taught for another three

years in the Illinois high school he had attended.

During World War II, Johnson served as a radar officer for the U.S. Navy and became a member of the faculty at UM-Rolla in 1946.

Johnson speaks with pride of the mathematics program at UMR. "From the time I first came here the UMR program has appealed to me because of the heavy emphasis this campus places on applied mathematics," he said. "The students are encouraged to direct their efforts toward using mathematics to solve real problems, not just in mathematics but in any number of interdisciplinary fields.

"I have enjoyed my years of teaching at UMR," he continued, "and I like to

think I have held high standards. I'm proud of the way the students here perform."

Johnson has been active in campus activities outside the classroom. He has served as an adviser to the Independents, the India Association, the International Student Association and the International House.

In addition to serving as an adviser to students, he was a member of the UMR Academic Council for many years and has been involved in such council issues as the policies and procedures revisions in the faculty handbook and retirement income investment policies.

Johnson has not limited his academic activities to mathematics. He became interested in physics and

took 24 hours of graduate physics courses here during the 1950s. He has also spent several summers working in industry and research facilities. He has held positions with Convair in Fort Worth; ARO in Tullahoma, Tenn.; Motorola in Chicago; and the Argonne National Laboratory in Chicago. He won a National Science Foundation Fellowship to work with computers at UCLA in 1959.

Johnson's outside interests include classical music. "My wife, Peg, is the musician," he explained, "but I listen

creatively." He is also a founder and an active member of the Audubon Society of Rolla and cultivates a Christmas tree farm near Rolla. He is an active member of the local Optimist Club—he is a past president—and he produces some of the Christmas trees which the club sells annually as a money raising project.

The Johnsons enjoy the outdoors and traveling. They like to spend some time each year at such places as the Lake of the Woods in Minnesota and Canada.

Summer CAD/CAM course

Source: OPI

Rolla, Mo. —The University of Missouri-Rolla will offer a course in "Computer Aided Drafting/Design and Manufacturing" June 12-14 on campus.

The course has been designed to provide participants with an opportunity to learn some of the latest techniques in computer-aided drafting, design and manufacturing.

The format of the course is lecture-laboratory, and participants will be able to gain a realistic perspective on the advantages of computerized techniques through hands-on experience with UM-Rolla's

computer graphics system.

The computer terminal will be used exclusively to develop drawings of mechanical parts and structures and for the development of the cutter line program to machine the parts. Participants will learn to produce drawing made up of points, lines, arcs, circles, and other geometric figures.

Participants will draw an initial plan view on the terminal screen, and the computer will manage this input, integrate the data, and provide new graphical outputs. All subsequent changes in the design are made directly on the computer screen.

The course will be of benefit to draftsmen and designers, foremen, machinists, and oth-

ers who are involved in product development and productivity improvement. No prior computer experience is necessary but participants should be able to read and understand engineering drawings.

Instructors for the course will be: Lyman L. Francis, UMR professor of engineering graphics; George Swannutt, UMR associate professor of engineering graphics; and Wells N. Leitner, UMR associate professor of engineering graphics.

Fee for the course is \$495 and includes instruction and course materials, computer time and lunch each day. Lodging and other meals are

not included.

Registration is limited to 32 participants and applications will be accepted in the order received. Pre-program materials will be mailed to all participants upon receipt of their registration so that they may familiarize themselves with course content.

For technical information contact Francis, 201 Mining Building, UM-Rolla, Rolla, Mo. 65401, phone 314-341-4606. To register contact Walter Ries, director, Engineering Continuing Education, 111 Engineering Research Laboratory, UM-Rolla, Rolla, phone 314-4132.

The course is a UMR Engineering Continuing Education activity.

Music courses offered

Source: OPI

Rolla, Mo. —The University of Missouri-Rolla will offer three music courses during the summer for instrumentalists and singers.

The University Orchestra (Music 40) will rehearse 7:30-9:15 p.m. every Thursday, and the University Choir (Music 40) will rehearse 7-8:30 p.m. every Tuesday and Thursday in room 101 of the Old Cafeteria. The first rehearsal for both groups will take place on Thursday, May 31.

Those two groups will perform a concert at 2 p.m. Sunday, July 8, at the Rolla Presbyterian Church. Among the numbers to be performed is the F.J. Haydn Oboe Concerto in C, featuring Bob Speer, Episcopalian chaplain at Fort Leonard Wood.

The University Band (Music 30) course is for those instrumentalists who wish to participate in the summer band program. Interested persons

should contact Dr. David Oakley, UMR professor of Music, G-3 Humanities-Social Sciences Bldg., phone 341-4185.

Those interested in either the orchestra or the choir should contact Joel Kramme, UMR assistant professor of music, G-8 Harris Hall, phone

341-4109.

One credit hour is optional for taking any of the courses, and townspeople are invited to participate.

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St. Louis, MO 63110

Admissions Office: (314) 644-9127

For a campus course schedule containing courses, descriptions, dates and times, as well as fee information and registration form, please write or telephone the campus of your choice.

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- The **Miner** will not print the combination of first and last names.
- The **Miner** will print phone numbers only in business-related ads.

The **Missouri Miner** reserves the right to edit or refuse publication of any classifieds that the staff find offensive or libelous.

Classifieds should be submitted (placed in the **Miner** box, first floor of the Rolla Bldg) by 4:30 p.m. the Friday before the issue in which it is to appear.

FOR SALE

FOR SALE: 1979 Kawasaki KZ-750, 40 mpg, good condition, new mufflers, chain and sprockets. Die-Hard battery, nylon cover included, must sell! Call 341-2821.

FOR SALE: 1.5 cubic feet Sanyo refrigerator, swivel chair, 20-inch fan and wooden bookcase (3 shelves). All in excellent condition and all for \$120. Call Reno at 364-9780 and ask for Room #9. Buy now and save!!!

FOR SALE: HP 41-C with Quad memory module, \$150. Also, extended functions module, \$50. Call 364-9932 ask for Dave, Room 210.

FOR SALE: 3-channel 4-control 300 watt color organ. Includes: control box with direct hook-up to stereo, three light boxes with multi-colored bulbs, and all the wiring needed. \$50. FIRM. Contact Cary at 364-9946 in Rm. 541.

FOR SALE: Left hander's softball glove, never been used. Originally \$30, will sell for \$20. For more info, contact Whimpy at 341-2671.

FOR RENT

STUDENT ROOMS FOR RENT: Summer, in private home. Close to campus, all utilities included; has color T.V., phone, refrigerator. Also has a 8 X 10 study room plus we clean your room once a week. Large bath and shower, 100 month, no smoking. Phone 364-3883.

FOR RENT (SUMMER ONLY): Nice two bedroom apartment one block from campus. Partially furnished, basic cable, water included in rent. \$80 per person per month. Call 364-8398.

PARTY LINE

Has "Dead Week" about finished you off!! Feel like your GPA is dropping as fast as your bank balance at tuition time? Well, forget about school for a while and come on out to Lions Club Park on Friday, May 4th for GDI's Second Annual "One-To-One" Party from 1 p.m. until 1 a.m. Plenty of refreshments will be on hand along with games and 12 hours of non-stop Rock and Roll from the KMNR Road Show.

So, come on out and finish the semester off in style with GDI and KMNR.

The Ladies of Alpha Kappa Alpha Sorority Inc., Xi Delta Chapter, present a Neophyte Celebration. The party will begin at 8 p.m., May 4, in Centennial Hall. Everyone is welcome, so come out and celebrate!

WANTED

WANTED: Good, used base kitchen cabinets. Also metal wardrobe closet. Call after 5 p.m. 299-4788.

WANTED NEXT FALL: Bowlers!!! The UMR Bowling Club will be recruiting members and wants all those interested to be sure and watch for a notice in the **Miner** next fall announcing the first meeting of the '84-'85 season. Scholarships will be given to the top two incoming male and female bowlers.

Christopher Jewelers
Diamonds and Watches
903 Pine Rolla, MO 364-2264

Roommates wanted

WANTED: A female roommate for Fall 1984 semester. We have a spacious, three bedroom house five blocks from campus. Rent is \$67/month plus 1/3 utilities. If interested, call Nancy or Lisa at 364-1402.

Help! Roommate needed for either Fall or Summer semesters. Rent \$87/month plus 1/2 utilities. 105 W. 5th Street. Call 364-9711. Ask for Karen, Room 309.

ROOMMATES WANTED: For summer only. \$75/month plus utilities. House is nicely furnished, microwave, washer, and cable. Call 364-6585.

PERSON WANTED: Share 2 bedroom apartment (own room). \$125/month plus 1/2 utilities (fall and spring). Summer sublease available. Call Matt G. at 364-9895 (ask for Room 562).

Roommate needed for summer and/or fall semesters to share 2 bedroom apartment with central air, carpeting, and a sundeck. Forum area. Call 364-0419. Ask for Lindle.

Female roommate(s) needed for summer. Furnished, air-conditioned apartment two blocks from campus. Call Susanne at 364-0255.

WANTED: Male roommate(s) for fall semester to share a two bedroom apartment. The apartment is two blocks from campus. Call Kevin at 364-0569.

Female roommates needed to share large five-bedroom house for the summer. Air conditioned, walking distance to campus. Rent is \$90/month plus utilities. For more information call 364-1843 or 364-0026, or stop by 810 Bray Avenue.

Help wanted

Social Change Jobs

Professional positions with Public Interest Groups (PIRGs) available nationwide. Work on environmental/social justice/arms control issues. Send resume to: Janet Domenitz/PIRGs/ 37 Temple Place/Boston, MA 02111. (617)423-1796. Summer jobs also.

MISC.

Blackhole University of Missouri - Rolla The Motion Picture (BUMR The Movie - an Art 85 Project) is now here. A 25 minute video cassette will hopefully be on reserve at the library (the big building that looks like a heat sink at the end of campus). If it is not, or you have questions about it, call Greg at 364-0230.

KA will be collecting throughout the Rolla area on May 5. Proceeds will go to MDA.

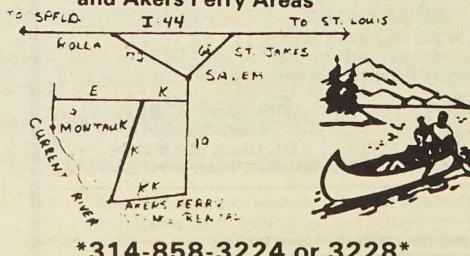
RIDE WANTED: I need a ride to Lawrence, Kansas (or thereabouts). My last final is Friday of Finals Week. I will help with gas and/or driving. Please call 364-9945. Rm. 109 if you are going that way. Thank you.

P.S. Hi, Leisha

Lisa F.

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Tired of dorm-food poisoning? Try Campus Club. We're more than just good food. We offer an opportunity to participate in Campus organizations, our own governing body, as well as champion intramural teams. Campus Club feels we are the best organization for the independent student, so stop by and check us out!

ASEM Meeting, 6:30, May 3, 1984 in Physics 104. Guest speaker: Mike Wilson, Regional Officer of I.I.E.

LOST: Set of keys Wednesday at 8 p.m. at University Center. Please turn in to UMR Police or call Tom at 364-7176.

PERSONALS

Dearest Pumpkin,

Thank you for the wonderful year in my life. You have been so very sweet. I'll never forget all the love and patience you've shown me. I sure gonna miss you. Your Sweetie

JRCY (Pain Lover).

Thank you for being my friend and also for listening and sharing. Thanks for being so 'cool' about everything. It's comforting to know that there are people in the world like you.

Your friendship really has meant alot to me. I really hope we can stay in touch over the summer.

You've made me laugh and be happy.

Thanks Kid,
Troubled Breather

Dear Bob,

You've been one heck of a roommate! We've grown close in those three years since we pledged. Keep Jimbo in shape and don't let him paint over our names!!! Your friendship will always be with me wherever I go. Keep the studies up and I know it'll all pay off in the end. Don't let anybody fool you, you've got a lot going for you so keep your heart in the right place.

In Phi Phi Kappa Alpha,
SRW

Dear Brothers,

Thanks for your support during this year and this particular time in my life. It's with some regrets that I will leave the house that I've known as "home" during the past three years. But we all will reach that particular time in our lives. It will come before you know it! Each one of you in your own special way has helped me learn and grow in my collegiate life. I will never forget and will always be thankful for the old Garnet and Gold.

In Phi Phi Kappa Alpha
SRW

To the person who returned my wallet.

Turning in my lost wallet to the TKE House was a credit to the fine character you must possess. Thank you.

Continued next page

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To The Graffiti Writers,

You should be commended for your actions. You brought a bright and educational experience to this otherwise dismal place. What the heck kind of name is Paladin anyway?

ZL (TJ)

Hey "Bright Eyes",

Thanks! You've turned me around with your smile. Curing my broken heart all the while.

But you kept me safe from your charm. Warning me when I got too warm.

I wish you joy in all you do. It's easy to smile thanks to you. I feel fine, so free without the pain. Nothing gets me down, not even rain.

A Friend Aways

Some quotes and thoughts for today:

During Finals Week: "There's always next semester!"

After Finals Week: "I'd rather have a bottle in front of me than a frontal lobotomy!"

At Your New Job: "I feel happy...I'm having a lot of fun. But I'd be enjoying myself no matter what I was doing, because I'd only be doing what I was enjoying."

When you're starting up your own company, remember The Great Italian, Christopher Columbus, The World's First Wheeler-Dealer.

He didn't know where he was going. When he got there he didn't know where he was. When he got back he didn't know where he had been. And he did it all on borrowed money.

Congratulations to the UMR ASCE Cement Canoe Committee on your recent 3rd place at K.S.U. Quite the improvement over last year!

P.S. Maybe next time, Gene!

A Fan

To the Men of Delta Sigma Phi and The Daughters of the Nile:

Thank you for all your friendship, kindness, and support. I'll miss you all. Best of luck to each of you.

Karla

Dear Jill,

An entire year has flown by and I really don't know where it went to. Thanks for putting up with someone who can be as off-the-wall as I am. I wish you the best of luck at IBM. (Remember poor me when the bucks start to roll in.) I'll be back here trying to figure out if it is vinegar or cider that you put in burned pots. I want you to know that your one of the best friends that I've had and I'll always be grateful that I've known you.

With all my heart, Karen

To the people that helped me make it until graduation:

--To K.R.A., You've touched my life and I am the better for it. I'll always remember you.

A Typical Italian

--To K.M.P., "Same time next year."

--To S.A.N., It's been a pleasure meeting you!

T&T Forever

--To Ru C., EE may be tough, but it's rewarding! I know you'll make it. (ompa, lompa...)

--To M.C.H., You made Alex's the place to be.

The Big Tipper

--To C.R.D., You're already gone, but I still love you.

Garlic Breath

And finally, to the other good people, Thanks!

Photon Scarpedo

To Paul, Ken, and Don,

What a semester! Paul, good luck at Johnie's and say "Howdy!" to the Cowboys (the cheerleaders, too, if you must). Ken, don't be a stranger next semester. Don, good luck at Penn and remember 1979 was not a good year for the Germans. All of you have a great summer. It will never be the same around here without you.

Teri

Warning Seekers of Knowledge:

One must choose their castle wisely, for one knows not what lurks behind the walls. I bid you heed my warning and see through the craft of the Lord of lands with the serpent's tongue. The Lord is short and fat but stings like a thousand vipers. The Lord's den is across the trail from the castle of feast, knowledge, and recreation. Beware the color white, it's not as innocent as it seems.

A Wise One Who Learned the Hard Way,

Bill

To The Fine Folks at 89.7 FM:

Many times I was down and wouldn't have gotten back up if it wasn't for the commercial-free alternative. Your music has cheered me up when no one else could, your parties cleared calculus out of my head before I was permanently brain damaged, and your humor made me laugh when I should have cried. I will be graduating in less than two weeks, but my tuner will remain tuned in memory of a fine group of people. Stay on the air, and keep Rolla habitable.

Brothers,

We're going to need to work very hard this summer if we want to keep Sigma Pi on top. Get psyched and Rush Hard!!

Fraternally,
Your Rush Chairman

Cindi,

I've missed you these past couple of weeks. I'm glad Grandma is better! Hope things keep going well for you, i.e. Paul. You're special.

Love Always,
Leisha

WANTED: To the person who took my Micronta Digital Alarm Watch Pen off of the 3278 keyboard on the morning of Monday the 23rd in the Comp-Sci terminal room. I WANT MY PEN BACK. Besides being a nice pen, I need it during the next two weeks while my watch is being repaired, and it has a lot of sentimental value to me - not you.

If you wish to remain anonymous, just leave it in Box 1170, T.J. Or if you wish to reveal your identity, leave your name and address with the pen and I will mail you a reward. Either way, no questions will be asked. I just want my pen back.

Congratulations to the Women's RHA Track Team on their first place finish at last week's meet. You girls ended the year on a great note; stay in shape over the summer and treat us to a repeat performance next year. Good luck and have fun.

An Athletic Supporter

P.W.W. says, "A true independent doesn't need an organization (i.e. GDI)!"

To those in South Farrar,

Much to your delight, we're sure, tonight will be our last performance.

The Not Ready For Prime Time Window Singers

Here's to the times we've had and the times we're gonna have. Here's to next Nov. and to sometime in Feb. Here's to those interesting drives in the car. Here's to conferences and meetings. Here's to trainrides. Here's to running and to newspapers. Here's to Chevrolet and a date in May. All remember the past, all hail the future.

From the one who belongs to no one else

To third place:

In my opinion you're first. Keep it up.

Casey W. Wiest

To the Women,

You made our semester. We wish we'd met you sooner and hope to see you later.

J.R.B. and Pet

Dear China Girl,

I'm still waiting, baby.

M2RH ^

To anyone who has ever done me a favor, said something nice, or gone out of their way to say hello or anything else: Thanks and God Bless You.

E.W. Scites

Margo,

We've come a long way since Spring Break, and I've enjoyed every minute of it. Looking forward to the trip "homes." Your Carolinas' Beach Bum

Congratulations to our new Little Sigmas: Lori, Sandy, Jill, Kathy, Diane, and Carolynne. Welcome into EX!

Love,

Little Sigmas

Dear K.P.,

Congratulations, the senior year is over. Was it what you expected? Your accomplishments were great this year and you should be proud (I am!). We're going to have to work hard now. I think it's worth the effort, how about you? One more thing. Keep a smile always on your face and enjoy your life right now! No one else will so you'd better!

Someone Loves You,

"P slash W"

Dear Miss Scott City,

Thanks for stopping by Saturday night. I'm glad I finally got to speak what was on my mind. I wish things could have worked out differently, but I'm not too bummed out as it is. I'll see ya sometime this summer.

Love,

Your "Sub-Ordinate"

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Comments

MISSOURI MINER

Thursday, May 3, 1984

Page 8

Students and teachers, both to blame

After eleven consecutive years here at UMR I am finally leaving Rolla this May. At first I hated this small-town life, but I learned to make the most of the situation and had no problems finding friends and things to keep me busy and happy. But as a student and an instructor who is genuinely concerned about education, I haven't been satisfied with UMR and I'd like to open some eyes—and mouths. The quality of education has surely declined during the past decade. I'm sure it begins well before the college level, but that's no reason to lower the standards here. I continue to hear that UMR graduates are losing their reputation, so here is what I have observed.

Most instructors are hired for their research ability and not for their teaching ability. Maybe UMR believes anyone with a Ph.D. can teach undergraduate courses, but I think there are 6000 students who can argue with that. It's not that good teachers aren't available, it's just that the big incoming bucks to the university are due to good research projects. Graduate students seem very valuable for their research assistance, and since they need financial support to continue their education, the department throws a book at them and points them toward a classroom. If he is scared or conscientious he can seek help from the department—and he will get it. Otherwise, he and his class will float through and at the end of the semester neither his performance nor the performance of the class will be commented upon. Oh, you'll get to grade him and he'll get to grade you, but he'll be back the next semester to continue his research project. And this is not unique to graduate students. A sad fact is that the fine professors know the barrel is full of bad apples, and they will admit it in the privacy of their office, but never in front of another faculty member. So it's just unfortunate that so few come to UMR because they want to teach. Industry and big bucks have stolen some fine instructors over the years, usually to be replaced by Wong Chong Dong fresh off the banana boat. Foreign instructors are not easily accepted here, but a good instructor will be recognized no matter what the odds.

Many instructors just aren't concerned with your well-being. Nowadays everyone seems to have some private practice on the side, so when the instructor is gone for an

entire week or when your homework isn't graded and returned before test time, he has an excuse—he's too busy outside of class. I never got away with that excuse as a student. When I taught I made sure that my 90 exams were returned by the next class period, so why couldn't my instructors get 20 tests back within two weeks? Office hours are dwindling toward non-existence, perhaps because students are ignorant enough not to use the few that exist. I just heard of a case where the students' grades will be lowered if they come in for help!

The grading system is lousy and inconsistent. I've yet to figure out how some instructors get away with the policies they set forth. One major problem is that your grade is highly dependent on the instructor you unluckily draw at registration. There really should be some consistency for courses with more than one section, especially if they are going to frown upon section-changing. A concerned instructor should never deny anyone a seat in his classroom, although 48 students in one section and six in another still doesn't seem to catch the eyes of administrators that something is wrong. I was particularly proud of the Engineering Mechanics department for at least trying to regulate the grades of different

sections. If the common finals would be properly graded, final grades would be as fair as I'd expect to see from this institution.

Then there are instructors who try to beat the file system. First, it's never going to be done and second, students learn as much from taking an exam as they do from studying for one. So let them keep it! I was always furious when I wasn't allowed to keep my exam, so I just copied it longhand while the instructor explained the answers. So for those instructors not enterprising enough to assemble an original exam, don't think that the files aren't out there on you, too. Testing and grading is half the pleasure of teaching and they can influence the study habits of the students, so don't be lazy about it.

Enough about instructors. Students are equally to blame. They never complain to the right people! While I was teaching, everyone would come to me and get things off their chests. I'm sure they felt better, but what could I do? If all complaints went to the department heads, I'm sure the recurring problems would be investigated. The people that could do something about unfair practices aren't being notified. I've been a rebel. I've changed some things, and I've gotten in trouble for speaking my mind.

But I had to try to make things better.

Students also are to be blamed for always trying to take the easy way out. An instructor that freely gives A's is not necessarily doing you any good. You may regret that free ride in a follow-up course. The days are gone when every graduate is assured of several job offers, so you've got to make something of yourself. Get exposed to as much as possible. And there's nothing wrong with using files if you use them properly and learn from them. It also shouldn't

be necessary to use files, but unfortunately that's not the way it has been.

In conclusion, I really am not an ingrate. I've met some very fine people here at UMR—just not as many as I expected. And I would never doubt the intelligence of any one of my instructors, but many of them just couldn't or wouldn't teach. And although I've been handed some raw

deals, I've had some fantastic opportunities. I've always tried to be a fine student and an even better instructor, and if the university and student

population didn't appreciate that then I'm sorry. I was much more demanding than most and I've had my name obscenely written on walls for one thing or another. But no one can take from me the friends I've made and the thanks I've received for being concerned. So I'll go off to some community college where I'll be allowed to devote all my energy toward teaching and love every minute of it, no matter what the salary.

And I still won't do blackboards.

Thank you,
Randy Forchee
35582

Soviets move on

As many of us approach graduation and the many opportunities provided by our engineering degrees, we can be thankful that our generation has been able to pursue careers and other personal interests without interruption—unlike those a generation or two before us who were called by our country to stop the Soviet-sponsored invasion of South Vietnam.

Now that they have completely subjugated the Vietnamese through intimidation, torture and murder of the opposition, the Soviets have predictably moved on to other parts of the globe to force their totalitarian style of communism on other vul-

nerable developing countries. Most alarming are the recent developments in Latin America where, as you read this, Soviet tanks, guns and ammunition are arriving by the shipload on the shores of Cuba and Nicaragua to be used against anyone opposed to these Soviet proxies. Although the Democratic presidential

candidates are demanding that we "sell out" to the Russians in Central America,

See
Soviets
on pg. 9

Comments

We welcome comments and letters to the editor from our readers. The *Miner* staff does, however, reserve the right to edit letters for tastefulness, obscenity or libel. Letters may also be edited for space limitations.

All letters must be signed. Anonymous letters will not be printed. Address, telephone number, social security number and/or student number should be included, but will not be printed.

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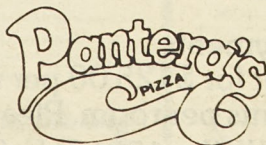
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Manufacturing program offers experience

Rolla, Mo. —By orienting its approach to flexible manufacturing toward hands-on experience, the University of Missouri-Rolla has created a program that is "unique in the number of students served and the range of experience available," according to Dr. O.R. Plummer, director of computing and information systems at UMR.

This hands-on-oriented approach has in turn created new and specialized needs for the campus, he added.

"Because our intention is to extend the influence of this technology throughout the range of our engineering curricula, we have had to provide appropriate facilities and course work as our students have progressed from freshmen to upper-classmen," Plummer said.

In 1979 and 1980, UMR laid the cornerstone for its flexible manufacturing program with the purchase of \$1.5 million worth of computer graphics equipment, including a host computer for graphics and 24 graphics terminals. This equipment, together with a special classroom that was outfitted for the system, enabled UMR to begin offering instruction in computer-aided design and analysis techniques in the summer of 1981.

Most engineering students at UMR receive their initial exposure to computer-aided design in their freshman engineering graphics class ("Engineering Drawing and Descriptive Geometry"). In that course, they learn how to produce sophisticated engineering drawings and perform

engineering analysis on a computer terminal instead of at a drafting table.

"Our CAD system is programmed to provide students with numerous drafting and geometric capabilities," said Wells N. Leitner, professor-in-charge of engineering graphics at UMR. "It also allows drawings to be produced in a much shorter time than those done by hand, and it enables

students to analyze their designs at every stage of development."

A sophomore-level course in "Graphical Design" which introduces students to mechanisms is also offered.

"This course used the CAD system to study such things as gear tooth geometries and mesh, cam profiles and cam-actuated mechanisms, linkage displacement analysis and two- and three-dimensional

vector plots," said George Swancutt, UMR associate professor of engineering graphics and course instructor. "Using locally written programs, students can also study selected plane mechanisms in animated motion."

The next component in UMR's flexible manufacturing system came with the purchase of the PUMA (Programmable Universal Machine for Assembly) 600 industrial

robot in July 1981. The robot can be used to simulate numerous industrial operations and has become an integral part of several research projects and a valuable teaching tool, serving courses in mechanical engineering and computer science.

See
Manufacturing
page 12

Soviets

from page 8

President Reagan has maintained a clear perspective of Soviet objectives in the region and will be rewarded with four more years of the presidency by a public which is equally aware of the threat posed by Russian domination of Central America.

Unfortunately, not even the reelection of President Reagan is sufficient to permanently remove the Russian threat, although it is certainly a necessary step in the right direction. Modern technology possesses the greatest hope for such a solution and we, as members of the scientific community, must commit ourselves and our talents to this end. Some people argue that too many resources have already been wasted in this dangerous game of strategic one-upmanship; however, we have long passed the point of deciding whether or not to play. The question now is: How soon can we win? The sooner we develop sufficient technology to render the Soviets powerless, the sooner

we can permanently stop the cancer of communism/totalitarianism from further contaminating the free world (or what's left of it by then). After approximately 35 years of Cold War we now realize that satisfactory results can only come when we are in a position to demand—rather than beg for—and end to the senseless arms race.

Therefore, as we further our careers in science and technology we should always be looking for defense applications. Only through such a temporary mobilization of the scientific community will we eventually be able to devote our resources elsewhere without risk. Fifteen years ago thousands of young men like us had been called to make the ultimate sacrifice for their country and the free world. Can we not at least devote our knowledge and talents to the same noble cause?

David W. Brandt
72541

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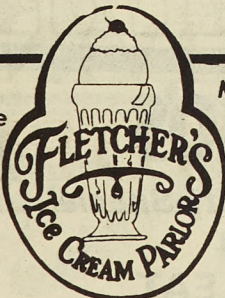
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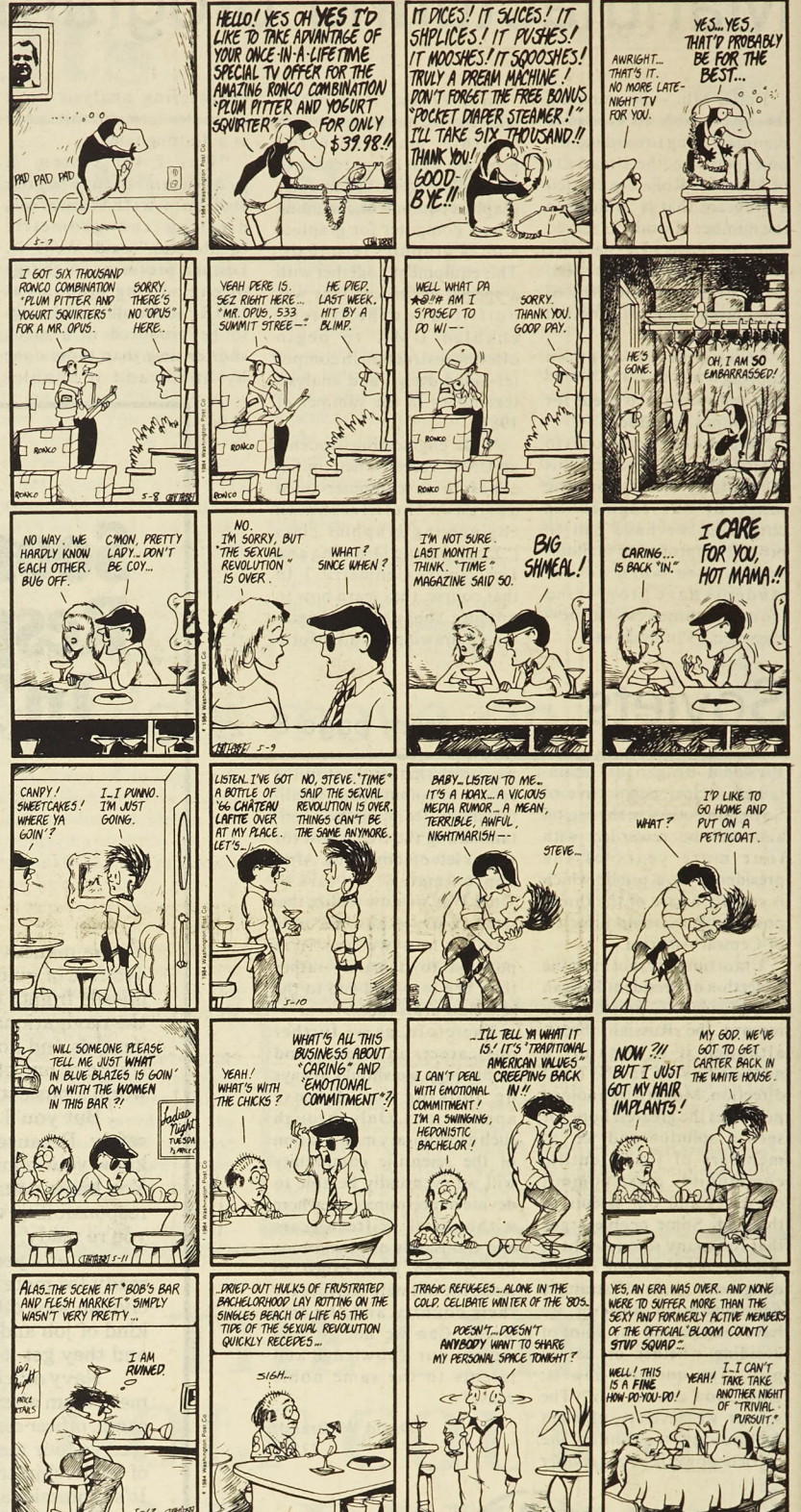
by Berke Breathed



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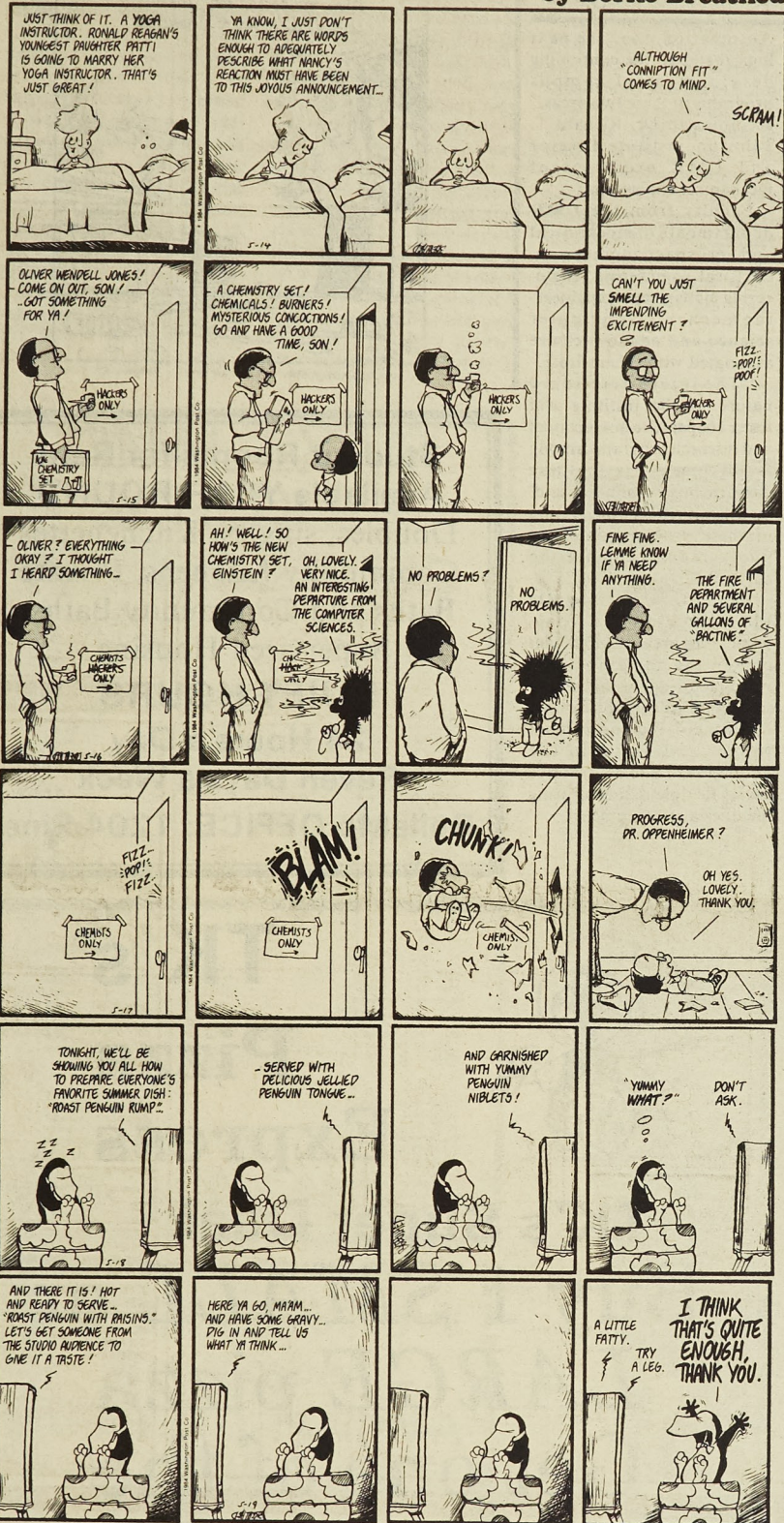
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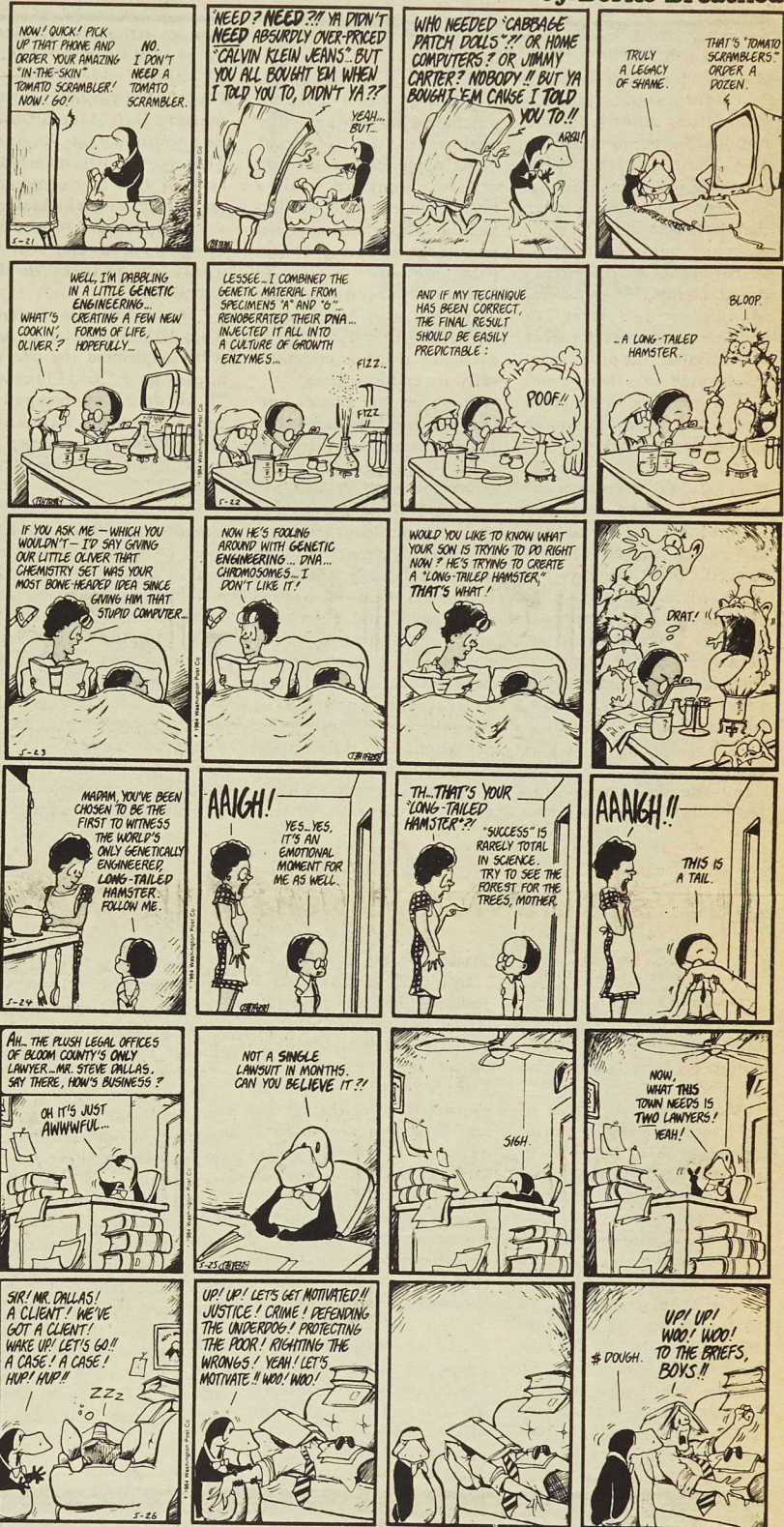
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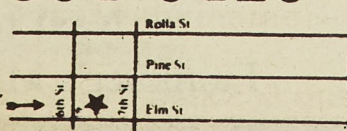
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Manufacturing

from page 9

That summer UMR also received a \$250,000 CAUSE (Comprehensive Assistance to Undergraduate Science Education) grant from the National Science Foundation. The grant, together with matching institutional funds, has been used for a project that deals with the "Development and Implementation of an Integrated Computer-Aided Design, Analysis and Manufacturing System." In addition to the development of that system, the project also investigated ways that it could best be integrated into UMR's mechanical and aerospace engineering curriculum.

"The CAUSE grant has been extremely helpful in our efforts to make this new technology a part of our curriculum," said Dr. Thomas Faucett, UMR professor of mechanical and aerospace engineering and project director. "The project has been a multidisciplinary effort with faculty members from several departments contributing."

"It's really brought the campus together," he added, "and the use of this new technology really has grown

in our courses and laboratories because of it."

With the CAUSE grant, UMR has been able to purchase additional computer equipment, a state-of-the-art direct numerically controlled milling machine tool, a flexible numerically controlled lathe and turning center and two large-screen graphics video projectors for use in lectures. In addition, the grant has provided support for the development of extensive relevant computer software and interfaces.

Other flexible manufacturing-related facilities that UMR has developed include CAD/CAM, robotics and computer data acquisition and control laboratories in the mechanical and aerospace engineering department; an image processing laboratory in the electrical engineering department; and a business graphics laboratory in the engineering management department. In addition, a digital signal processing laboratory is currently under development in the electrical engineering department.

In the summer of 1983, UMR was one of 20 uni-

versities nationwide selected by the IBM Corp. to receive a \$2 million state-of-the-art CAD/CAM system as part of the company's Manufacturing Engineering Grant Program. That system, which includes an IBM 4341 host computer, graphics terminals and several software packages, is currently being installed and will be operational later in the semester.

"The system that we received from IBM is similar to and will complement the one we already have," said Plummer. "It will double our computing capabilities in this area as well as doubling the number of work stations available to our students."

This system also will support a significant management component in addition to providing numerous engineering applications and capabilities. "This management component represents the new dimension that this system opens up for us," said Dr. Raymond Kluczny, UMR associate professor of engineering management.

The establishment of the Institute for Flexible Manufacturing and Industrial

Automation was "the next logical step in the continuing development of campus programs in these two areas," according to Dr. Richard T. Johnson, institute director and UMR professor of mechanical engineering.

Faculty from the UMR departments of mechanical and aerospace engineering, electrical engineering, engineering management, engineering mechanics, computer science and economics are associated with the institute.

"The interdisciplinary nature of the institute will foster cooperative instructional and research programs among faculty members in these departments," Johnson said. "It will facilitate the integration of these programs into our undergraduate engineering curricula."

In addition, the institute will support faculty development in the areas of intelligent computing and automated manufacturing, establish an information center on flexible manufacturing and related topics and assist in the development and cooperative use of flexible manufacturing facilities and equipment.

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Success advice for UMR graduates

by Jan Dawdy

Graduation time is upon us, and, appropriately, God has a little advice to the graduating seniors for future success and happiness:

Meditate on the Book of the Law day and night, and do according to all that is in it, for then you will make your way prosperous and then you will have good success (Josh. 1:8-9) (and you thought all you needed was a degree from UMR!).

When God gave this advice to Joshua, the Book of the Law was five books. We now have the Bible, containing 66 books, but the advice still stands. These books show over and over again, for our sakes, the validity of this

advice.

One such success story is Joseph's. He was sold into slavery by his jealous brothers, and served Potiphar, an officer of the Pharaoh. The Lord was with Joseph; he prospered in all that he did and was soon promoted to overseer of all Potiphar's property. Falsely accused by his master's wife, however, Joseph found himself in jail, but even there he prospered and the jailkeeper gave him charge of all the prisoners. Wisdom later brought him his freedom and further success, and he became second in all of Egypt only to Pharaoh. Even having been sold into slavery was a blessing in disguise, for his presence in Egypt was necessary to save his family from famine (Gen. 39-48).

There are a host of other such successes—Gideon, who with only 300 men defeated 135,000 Midianites (Judges 7:8), Esther, David, Abraham, and Peter, who won 3,000 souls to Christ in one day (Acts 2:41). Where defeat did exist, it was because of some faithlessness or foolishness, as in Samson's revealing his source of strength to Delilah.

So, graduates, UMR can't give a money-back guarantee for success, but God's guarantee is unconditional: "Those that seek the Lord shall not lack any good thing. (Ps. 34:10)."

Blessed is the UMR graduate whose delight is in the law of the Lord: Whatever you do shall prosper! (Ps. 1)



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Editors last note

by Karen Penney

This is the last issue of the 1983-84 Missouri Miner. The external appearance of the Miner may not have changed drastically but the internal structure has. This past year, as we at the Miner have harped on but been very proud of, we installed our own typesetting machine. In short and sweet terms we are now our own publishers. Nobody else order our supplies, makes our ads, corrects our mistakes or types our copy. we get all the blame as well as the glory.

It has been rough sometimes. A few issues have appeared on Fri. instead of Thurs. It is discouraging when the editors

are ready to layout the section but the typesetter decided to print all o's instead of the normal 26 letter alphabet the night before and therefore nothing is typed...but little o's.

All in all, I feel as Editor-in-Chief, that this fall semester was the testing ground, and we passed the test. Everybody dug in their heels and put in more time and effort to meet our deadlines and produce a workable schedule for incorporating the typesetting machine. This past semester all the editors tried to expand a little. More coverage of where our student fees are going, the national scene of football and baseball, a new look for the classifieds, the addition of a

nationally syndicated cartoon, and more ads for a larger paper.

I am grateful to the entire Miner staff for the effort put forth in making this year work. Next year plans to be bigger and better. I enjoyed the opportunity to work as Editor-in-Chief and meet more of the students, faculty and administrators of this campus. I am one of those graduating seniors and though I'll see this campus again next year, I wish the best of luck to all graduates. UMR is a good school with many different paths open to everyone, and I am glad I chose UMR.

Review process

from page 1

under way on campus in order to provide faculty representation and a faculty voice in decisions.

The committee is charged with responding to any proposals or recommendations concerning program and activity review, with reviewing material submitted for review, and with recommending a categorization for the programs.

The committee is composed of faculty representatives to the Exigency Committee. Members of the committee are Drs. Lawrence Christensen, Arlan DeKock, and

Glen Haddock, College of Engineering; David Barr, Arts and Sciences; David H.P. Leighly, and Nicholas Oglesby, Harry J. Sauer Jr., Tsoulfanidis, School of Mines and Paul Stigall, School of Metallurgy.

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The courses not covered in Sections I, II, III are to be arranged by the instructor in cooperation with the students in that course.

I. Evening Course Finals are scheduled for the evening session during final week.

II. Common Finals include all sections.

CE 102	Wednesday, 7:30-9:30
CE 261, 265	Friday, 7:30-9:30
CSci 73, 83	Tuesday, 3:30-5:30
CSci 163	Friday, 7:30-9:30
EE 61, 63	Wednesday, 7:30-9:30
EE 281	Monday, 7:30-9:30
EngMgt 208	Monday, 1:00-3:00
EngMgt 256	Monday, 7:30-9:30
EN 50, 150	Tuesday, 7:30-9:30
EN 110	Monday, 1:00-3:00
Hist 112, 175, 176	Monday, 1:00-3:00
Math 2, 4, 8	Monday, 10:00-12:00
Math 6	Tuesday, 7:30-9:30
Math 21, 22	Monday, 7:30-9:30
Math 204	Tuesday, 3:30-5:30
Math 215	Wednesday, 7:30-9:30
Math 229	Friday, 7:30-9:30
ME 204	Tuesday, 7:30-9:30
ME 225	Friday, 7:30-9:30
ME 229	Wednesday, 7:30-9:30
Physics 23, 24, 25	Wednesday, 1:00-3:00
Physics 107	Monday, 10:00-12:00
PolSci 90	Monday, 1:00-3:00

III. Regular Finals

First Weekly Class Meeting Time

Monday, 7:30
Monday, 8:05 or 8:30
Monday, 9:30
Monday, 10:30
Monday, 11:30
Monday, 12:30
Monday, 1:30
Monday, 2:30

Final Exam Time

Monday, 3:30-5:30
Tuesday, 1:00-3:00
Thursday, 7:30-9:30
Wednesday, 3:30-5:30
Thursday, 3:30-5:30
Saturday, 7:30-9:30
Friday, 10:00-12:00
Saturday, 10:00-12:00

Tuesday, 8:05 or 8:30
Tuesday, 9:30
Tuesday, 10:30
Tuesday, 11:05 or 11:30
Tuesday, 12:30
Tuesday, 1:30 or 2:05

Tuesday, 10:00-12:00
Thursday, 1:00-3:00
Friday, 3:30-5:30
Wednesday, 10:00-12:00
Thursday, 10:00-12:00
Friday, 1:00-3:00

According to the Manual of Information, (p. 62), all requests to change the final schedule because of conflicts or having three or more examinations scheduled on one day "are to be made in the Registrar's Office at least one week before the beginning of the final examination week" (Friday, April 27).

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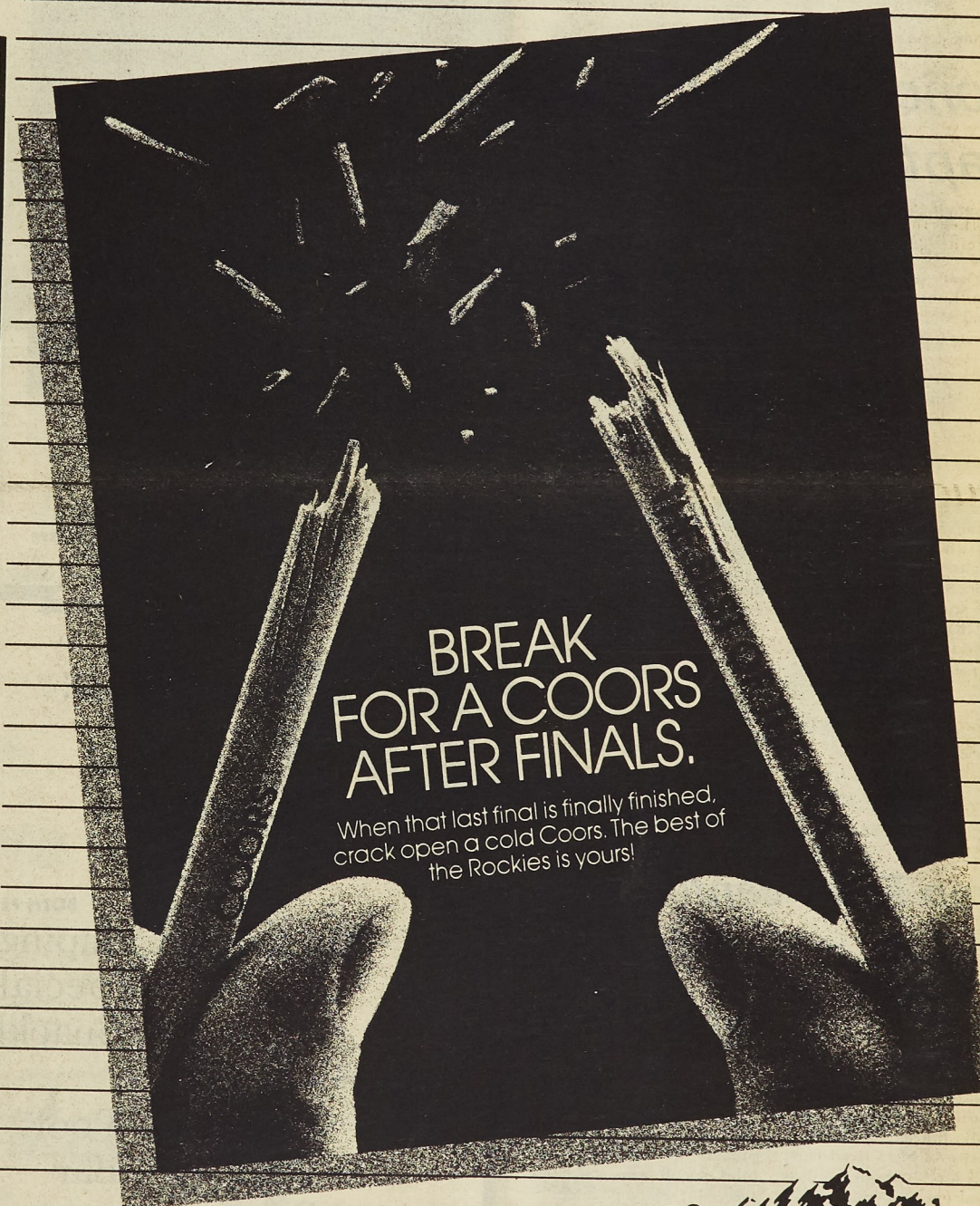
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Track Team tunes up

by Dan Lichtenwalner

Last Wednesday, the UMR track team travelled to CMSU for a track meet against Lincoln, NWMSU, Park College, and CMSU. This was the last meet before the conference meet to be held at NWMSU this weekend.

Luckily, this was the first meet in which the sun was shining. It was actually even hot, some good performances

by the Miners are listed.

In the 110 M high hurdles, Scott Finke placed third in 15.57. Allen Randall was third in the 100 meter dash with an 11.33. Jim Bullard (10:01) and Joe Henze (10:18) were second and third in the 3000 meter steeplechase. UMR's 400 m relay team of Finke, McElroy, Schoenecker, and Illoputaife won in a new school record of 42.33 seconds.

In the 400 meter, Bob Jack-

son placed second for UMR. Bob Gorhan placed third in the javelin with a toss of 170'-9". In the 5 km run, Keith Smith was second with a time of 15:37.6. The mile relay team of Millman, McElroy, Illoputaife, and Schoenecker

placed third running their fastest time of the year: 3:20.2.

The team is doing fairly well, although injuries have hurt them. The top 1500 and 800 meter runner, John Borthwick, who was second in the conference last year, hurt

his foot and is out for the season. Pole vaulter and hurdler Scott Finke is hurting also, and it is still questionable as to whether or not he will be able to vault this weekend. Tim Schoenecker, the team's top quarter miler, has a slight pull

and hasn't been able to run the open quarter recently.

The team can only wait and see what will happen at the conference meet; possibilities are there, but only if everyone really goes out and performs to their capabilities.

Concrete Canoers Capture third

submitted by ASCE

This past Saturday, April 28, the UMR-ASCE concrete canoe team ventured to Manhattan, Kansas for the Tenth Annual Midwest Invitational Concrete Canoe Regatta.

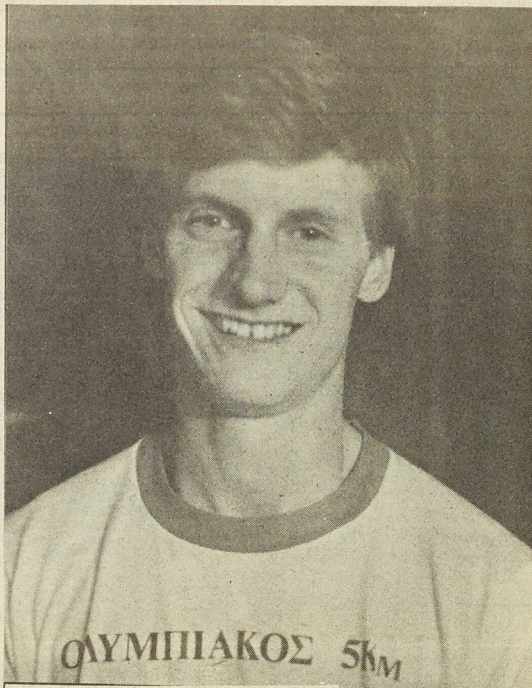
The Miners finished third place in the overall competition out of a field of 13 schools from the midwestern area.

The University of Kansas won the race and design competition for the second straight year, while South Dakota State University captured second. It should be noted that each of these teams entered two canoes while the Miners fought it out with one craft.

The team was led by the team of Tony Birchler and Tony Anders who captured

fifth place out of a field of 50. Also the team of Sheri Riggs and Laurie Davis placed fifth in the women's race. In the coed competition, Maury Reed and Becky Glauz also finished fifth. The Miners number-three men's team of Lindle Wilnow and Don Davis made the semi-finals. Gene Eagle, team captain, also competed in several races but did not place.

Missouri bragging rights were also established when the Miners beat out both the University of Missouri-Columbia and UM-Kansas City with their 17-foot, 320-pound craft. The canoe was constructed by members of ASCE this past year and was appropriately named the Behemoth due to its intimidating stature.



Gale Bulman Award winner Tim Schoenecker received his award at the UMR All-Sports banquet Monday, April 30.

photo by Karen Olsen



"Coach of the Year", Joe Keeton and wrestling MVP Chris Colona at the All-Sports banquet.

photo by Karen Olsen

Trap Team captures second a Nationals

From April 26 through 29, the UMR Trap and Skeet Team travelled to Atlanta, Georgia to participate in the 1984 National Trap and Skeet Championships. The team, consisting of Alan Corzine, Randy Brazier, Don Price, Dan Groves, Mark Henderson, and Chris Johnson finished second out of a twenty-team

field consisting of such prestigious teams as the Air Force Academy, Trinity, Texas A & M, Ohio State and Yale.

The UMR Trap and Skeet Club wishes to express its sincere appreciation to the Student Council and many other people who made this successful season possible.

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Season cut short for Miners

by Brett Giddens

Due to monsoon-like Missouri weather this spring, the Miner baseball team had its season cut short last week, after the completion of twenty games. Conference officials cancelled all remaining contests, including those to be made up, and expanded the post-season tournament field to six teams. UMR was invited but, regrettably, could

not go because of scheduling conflicts and final exams.

The Miners ended the year at 3-6 in MIAA play and 5-15 overall, finishing in third place in the Southern Division. Graduation will claim six Miner players this year. They are Mike Stone, Chris Nisbet, Tom Murphy, Gene Meyer, Mike Schafer, and Keith Lechnir. They will return, however, their four top hitters, freshmen Vernon

Huggans (.419) and Mike Steagall (.378), and juniors Mike O'Dell (.381) and Brad Lee (.377), along with two starting pitchers, juniors Dave Kuethe and Bill Foege.

Individual statistical leaders

for the Miners offensively were Brad Lee in hits (23), doubles (7), home runs (3) and RBI's (29), Mike O'Dell in runs scored (17) and walks (21), Vernon Huggans in triples (3), and Tom Murphy

in stolen bases with four thefts. UMR hit .274 as a team with nine homeruns and 94 runs scored. The Miner pitching staff was dominated by Dave Kuethe with four complete games, 29 strike-

outs, and a 3.85 earned-run average to go along with his 2-3 record. Mike Stone had a 2-4 won-loss mark and whiffed 28 opposing hitters. Th-th-th-that's all for Miner baseball!

Jr. Olympics held

by Dan Lichtenwalner

This past Sunday, the M-Club service organization held its 14th annual Jr. Olympic track meet for area boys

and girls who were 14 years of age and under.

Despite some early rain, the turnout was still quite good; over 200 contestants participated. Various events, including 60 yard dashes, 100 yard dashes, long jump, and shot put, among others, were held.

What makes this meet special is that participation is free. The children can run any event available to them, and the top six placers in each event received awards (medal for first and ribbons to the next five finishers).

Thanks to hard work by

over 30 M-Club members, the meet went off smoothly.

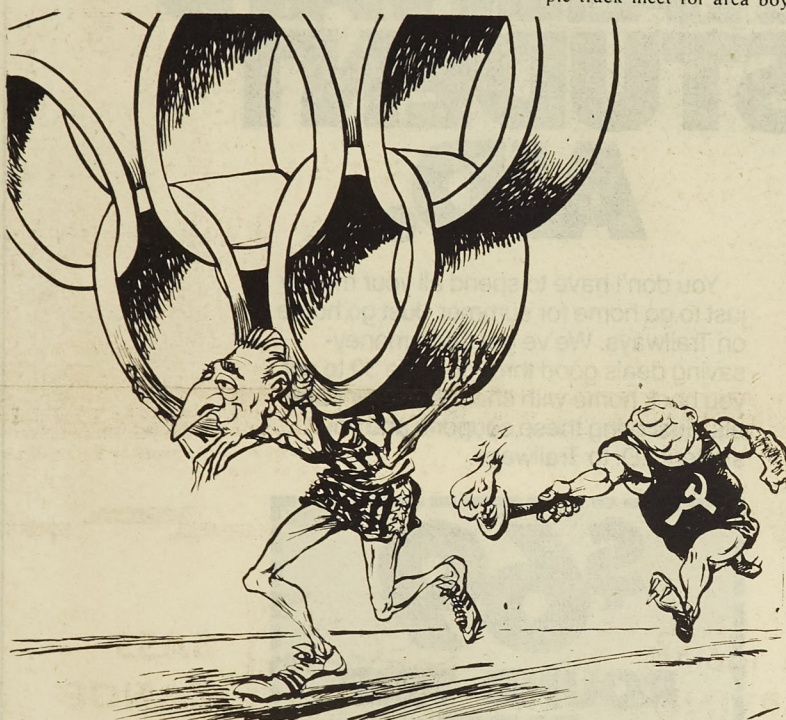
It was hard work for everyone, but sending the kids home happy is what it is all about. Judging by all the yelling and screaming going on, it was definitely a fun day for almost everyone.

DAYTON JOURNAL
TIMOTHY
College Press Service

M-Club Athlete of the Week

M-Club is proud to present this week's Athlete of the Week award to the 400-meter relay team of the varsity track team. The team, consisting of

Alan Randall, Brian McElroy, Tim Schoenecker and Ike Hlopataife set a new metric school record of :42.01 Wednesday at CMSU. Congratulations to all four!



Intramural update

by Bob Lynch

Softball is finally coming to an end. Division II softball was decided last Thursday, April 26. Sigma Chi took the crown. Division I championship was held Tuesday, May 1.

Sigma Nu ran away with the track and field title, held at the Rolla Municipal track. Horseshoes is still currently playing and should be finished by the end of the week.

Mark Howard of Sigma Phi Epsilon was named

Intramural Athlete of the year by the intramural managers. He will be honored at the Varsity Sports Banquet.

This is my last article and I would like to thank all my readers for their support throughout the semester.

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Padres, Dodgers lead NL West

by Bob Gaynor

So far, we've looked at three of four major league divisions. Today, the National League West is analyzed.

San Diego Padres: Why is this team so much better than last year's .500 team? Two reasons: Their injuries can't be as numerous as last year's; and The Goose.

Steve Garvey (.284, 14 HR) played in only 100 games and is back at first base. Tony Gwynn (.309) is in right field after seeing no action until mid-June. Besides Garvey, ex-Yankee Craig Nettles (.266, 20 HR), former outfielder Alan Wiggins (.276, 66 SB), and Gary Templeton (.263 in injury-filled year) fill the infield. Luis Salazar (14 HR, 24 SB) spell Nettles at third when the old boy needs some rest. Rookie all-around hitter Kevin McReynold is in center and ex-Cup Carmello Martinez plays left. Ex-Cardinal Terry Kennedy (.284, 17 HR) had a great year behind the plate.

Gossage (13-5, 2.27, 22 saves) alone could add 10-15 wins to this team. A healthy year for Tim Lollar (16 wins in '82, 7 in '83) and Ed Whitson (5-7) will help greatly in the Padre pennant drive. Eric Shaw (15-12) and Mark Thurmond (7-3, 2.65) fill out the starters while Luis De Leon (2.68, 13 saves) and Sid Monge (11-3, 7 saves) join Gossage in relief.

With experience joining San Diego via trades and the free-agent market, this team has the talent and knowledge to overtake the Dodgers.

Los Angeles Dodgers: It's tough to put these guys anywhere but at the top, but things can't always be great in L.A.

The Dodger infield can hit, but they sure can't field. Pedro Guerrero (.298, 32 HR) starred at the plate but booted 31 balls at third, so he's getting a try-out at first. Greg Brock (20 HR) starts out at first also. Dave Anderson (.165 rookie year in '83) takes over for Bill Russell at shortstop.

The best pitching staff in

baseball (3.10 ERA) returns, but without the 18 saves of Steve Howe, who was suspended for the season. Alejandro Pena (12-9, 2.75), Bob Welch (2.65), and Fernando (need I say the last name?) are joined by the AL's ERA winner, Rick Honeycutt (13-9, 2.42). The bullpen must now rely on Carlos Diaz (2.05 with the Mets) and Tom Niedenfuer (8-3, 11 saves, 1.90) to get the job done.

This is still an excellent team, but they may have trouble keeping up with the youngsters to the south.

Houston Astros: Some young stars have put in their years and are now ready to give Houston a pennant challenger. Their 85 wins last year put them in third, a position they should match this year.

Manager Bob Lillis goes nuts with the platooning. So far, Kevin Bass (OF, .236 in 88 games), Jose Cruz (LF, .318, 14 HR, 30 SB) and Ray Knight (3B, .304, 90 RBI's) are regulars. Major contributions are expected from second-year man Bill Doran (2B, .271), Dickie Thon (SS, .286, 20 HR, 34 SB) and Jerry Mumphrey (OF, .336).

On the mound, no-hit artist Nolan Ryan (14-9, 2.98) and knuckleballer Joe Niekro (15-14, 3.48) lead the staff. Bob Knepper (6-13, 3.19) is, surprisingly, back as an Astro starter. The bullpen led the NL in saves, thanks to Bill Dawley (14 saves, 2.82) and Frank DiPino (20 saves, 2.65). Joe Sambito's return from his third elbow operation could make a tough staff nearly impossible to score on after the sixth inning.

This team is better than last year's, so third place ought to be a breeze. But L.A. and S.D. are in no trouble.

Atlanta Braves: Injuries killed their 6-game lead over the Dodgers last August. Their near collapse the year before makes these guys the "Boys of Summer," but they never see fall.

The line-up is set, barring injuries. The infield is Chris Chambliss (.280, 20 HR, 3-week injury). Glenn Hubbard

(.263, 12 HR), Raphael Ramirez (.297, 16 SB), and Big Bob Horner (.303, 20 HR), whose injury last year spelled doom for the Braves. Terry Harper (.264) and Claudell Washington (.278, 31 SB) have regular action in the outfield.

Ex-Indian Len Barker (9-16 total) has plenty expected from his arm this year. Rick Camp (3.79) and Craig McMurtry (15-9, 3.08) also start, as does rookie Ken Dayley. Gene Garber (9

saves), Terry Forster (13 saves) and rookie Jeff Dedmon are in the best (tied with Houston with 48 saves) bullpen in the league.

The talent is there, but the mental attitude has taken a possibly fatal beating these past two years.

San Francisco Giants: Gone are Darrell Evans' 30 homers. Signed after his trade is Al Oiver (.300, 84 RBI's). But they're still mediocre.

Manny Trillo came from Montreal to cure the worst

infield, in baseball with his glove at second base. Johnny LeMaster (SS, 39 SB) and Joel Youngblood (3B, .292, 17 HR) can do other stuff, but need some glove helper. The unhappy Jack Clark (.268, 20 HR) and Chili Davis (.233) need to bounce back from a lousy year. Jeff Leonard (.279, 21 HR) has speed in the outfield to join Clark and Davis. Dusty Baker (.260, 15 HR) is also available.

Atlee Hammaker (2.25) stars on the mound. 23-year

old Mark Davis (3.49) also starts, while Randy Lerch (3.38) and Gary Lavell (20 saves, 2.59) help out Greg Minton (22 saves) in the bullpen.

Off years at the plate killed them last year. This year, don't count out a rerun of 1983.

Cincinnati Reds: All I can say is, Dave Parker, Dave Concepcion, Gary Redus (maybe) and Mario Soto. These guys stink, stunk and will stink for years to come.

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