



17 Sep 1981

The Missouri Miner, September 17, 1981

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UMR graduate dies in skydiving accident

By KEVIN FARRELL

On Monday, Sept. 7, Don Ragsdale was killed in a skydiving accident in Cuba, Mo. Many of the students and faculty may know Don because he graduated from UMR last May.

Jim Morris, president of the UMR Sport Parachute Club (UMRSPC) and a

friend of Ragsdale's explained what happened. "Ragsdale lost what we call altitude awareness." He added, "Altitude awareness in a ten second delay jump is maintained by counting to ten then opening the chute."

According to Morris and other authorities, Ragsdale's chute did not open until he was about fifty feet above the ground. Mor-

ris said, "There is no way the chute could function properly that close to the ground."

Although Don Ragsdale was not a member of the UMRSPC and never had been, he was an experienced skydiver. Ragsdale had completed five static line jumps and five ten second delay free fall jumps. Ragsdale's equipment

operated properly but he didn't activate it in time.

The UMRSPC and the sport of skydiving in general have taken a lot of bad publicity since Ragsdale's accident. Jim Morris points out that in the past there was never an injury more serious than a broken ankle in the club. He added that minor injuries are reduced due to new equipment used by the

club. A new type of canopy is used which sets people down more softly than before. Since the club started using this new style canopy not one person has sustained any injuries from skydiving.

According to Morris, the UMRSPC is more active this year than it ever has been. There are eight experienced jumpers and there have been fifty first-time jumpers.

Morris added that most people who try their first jump come back again.

This year, for the first time ever, the UMRSPC will field a skydiving team in collegiate competition on Sept. 26-27. Morris said that if their performance is good enough on the collegiate level the team may go to national competition.

Visiting professor holds seminar

SOURCE: OPI

Dr. Desmond F. Moore of University College Dublin will be a visiting professor of mechanical engineering at the University of Missouri-Rolla during the 1981 fall semester.

He will present a seminar on "Tribology and Energy Savings" at 3:30 p.m. Wednesday, Sept. 9, in Room 210 of the Mechanical Engineering Building. It is free and open to the public.

In addition to presenting a series of seminars during his stay on campus, Moore is teaching two mechanical engineering classes (thermodynamics and advanced thermodynamics) and will participate in departmental research projects.

Moore received a B.E. in mechanical and electrical engineering from University College Dublin in 1955, an

M.S. in mechanical engineering from the Massachusetts Institute of Technology in 1959 and a Ph.D. in mechanical engineering from the Pennsylvania State University in 1963. He also was awarded a D.Sc. degree from the National University of Ireland in 1977 for his published work.

An international authority on tribology (the study of friction and lubrication), Moore has presented lectures on the subject to private companies, professional societies, universities and international groups during the last 10 years.

He has published approximately 80 papers and technical reports dealing with lubrication technology, friction, wear, impact and energy degrading. He also is the author of five textbooks on tribology and one on thermodynamics.

Missouri Miner

For the students of UMR

Volume 70, Number 4 Thursday, Sept. 17, 1981 Twenty-Eight Pages

UMR counselling offers orientation program for re-entering women

Submitted By
Counselling Dept.

The student population at UMR has changed significantly in the past few years. One new group of students that has emerged are women students who have a significant time lapse from high school. A survey of these students was conducted in the spring 1981 semester to determine the

needs of this new group of students. It was found that this group of students needed help in making the transition back to college life in terms of skills and general support. Based upon the results of the survey, a five-week orientation program is being conducted by Dr. Debra Robinson and Ms. Patricia Hill from the Counseling Center at UMR. The outline of the program is

as follows:

- September 3 - Introduction and General Orientation.
 - September 10 - Time Management.
 - September 17 - Effective Study Skills.
 - September 24 - Stress Management.
 - October 1 - Conclusions and Evaluation.
- The sessions are from 3:30-4:30 on Thursdays in the Ozark Room, University

Center-West except for September 24 which is in the Walnut Room, University Center-West. Re-entry women students are invited to attend any and all sessions. This program may also evolve into an on-going support group for re-entry women students. For additional information contact the Counseling Center at 106 Rolla Building or call 341-4211.

Chi Omega addition has solar hot water heating

By KEVIN FARRELL

The Chi-Omega sorority house located at 1607 N. Pine St. has had a major addition attached to the original house over the summer.

A two story, twenty-two room addition was attached to the southern face of the original house. The new wing includes two showers and one full bath on each floor. There is also a new kitchen, a new dining room and a laundry room. This addition adds nine thousand square feet to the original two thousand one hundred square feet.

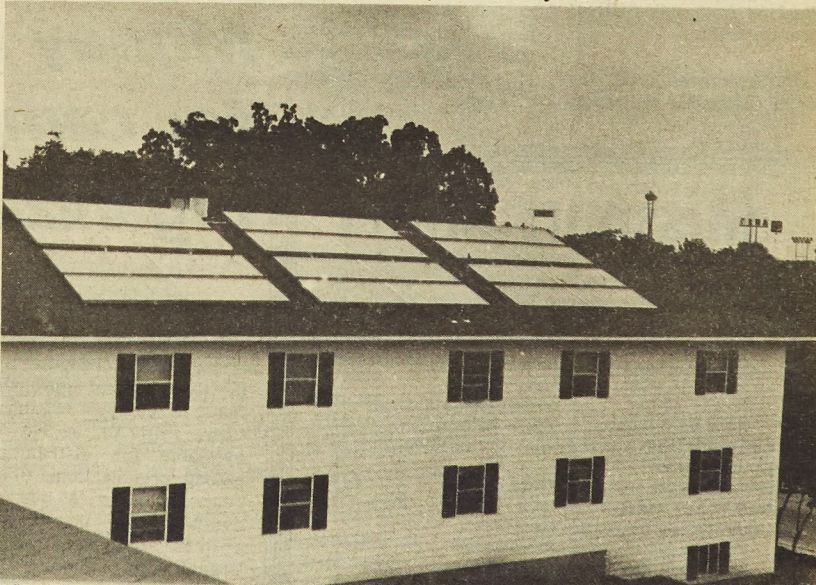
Solar panels are mounted on the southern face of the new roof. The collector panels can be seen from Pine Street and are part of the largest, domestic, active solar energy system in the state of Missouri. The system was installed by Solar Design and Construction.

Jim Eyberg, vice-president of Solar Design and Construction, describes an active solar energy system as one that requires some input energy such as pump to assist the system. In this system there is a storage tank from which water is pumped up to the

roof. After being heated the water is returned to the tank.

The storage tank holds 1600 gallons of water. A large bundle of tubes runs from one end of the tank to the other. These tubes are surrounded by the solar heated water. Cold water enters the tubes at one end of the tank. This cold water is heated by the warm water surrounding the tubes and exits as warm water. This preheated water is fed into the five water heaters that supply the girls with an estimated fourty to fifty thousand gallons of hot water each month.

Continued on Page 8



Solar collectors on the new Chi Omega addition are part of the largest domestic solar energy system in Missouri. (Photo by Hardesty)

Come to the September-fest '81

★ Tug-O-War: St. Pat's Board vs. Independent's Council

★ 4 parachutists from UMR Parachute Club

★ Barrels of refreshment

★ Wet T-shirt contest

\$2 button in advance

\$3 at the door

Calendar Of Events Calendar Of Events Calendar Of Events Calendar Of Events Calendar Of Events

Editor's Note: If your organization is having a meeting, turn in details to the MINER office in Building T-1 before Monday at 9 p.m. and we will list it in the Activities Section of the paper. No articles submitted will be printed unless written in complete sentences with proper grammar. No schedule or flyers will be rewritten and published by the staff for the Activities Section.

If your organization is sponsoring a campus-wide event for the benefit of charity, get us details before Monday at 9:00 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

M-CLUB

There will be a M-Club meeting tonight (9-17-81) at 7:00 in M.E. 121. See you there!

TONIGHT'S MOVIE

The third movie of this semester's film series is "Movie Movie" directed by Stanley Donen with George C. Scott and Art Carney. The movie will be shown tonight in the ME Auditorium (Room 104). Movies will be shown every Thursday at 7:30 p.m. The cost is \$2.75 at the door or season tickets.

CCH

Christian Campus House will present the third part in a five part series on "Dating and the Bible" tonight at 6:00 p.m. at CCH, 607 State Street.

SUBScripts

If you are interested in joining one of SUB's six committees as you still have time. The six committees are Special Events, Indoor Recreation, Outdoor Recreation, Fine Arts, Concerts and Social. You may obtain applications in 217 University West or from any SUB officer or director.

On September 25th, the social committee will sponsor

a coffeehouse featuring George Russell at 8:00 p.m., September 25th on the Mall weather permitting or in Centennial Hall. On October 2nd, a concert featuring Country Gazette will be held at 8 p.m. at Centennial Hall. The Indoor Recreation committee will sponsor the movie "All the President's Men" on October 4th at 4:00 p.m. and 6:30 p.m. in Centennial Hall.

Missouri Miner

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

Editor	Chris Noonan	364-9792
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Photo Editor	Dave Stanfield	364-9792
Photo Staff: Bradley Alexander, Mark Vollmer, Tom Hart, Paul Schaeffer, Eric Gieseke		
Subscriptions are available to the general readership at publication in the Miner must be in by 9:00 p.m. on Monday before printing on Thursday.		

THE MISSOURI MINER
T-1, 341-4235
University of Missouri-Rolla
Rolla, MO 65401

AIAA

The American Institute of Aeronautics and Astronautics is having a picnic at Schuman Park today (September 17) starting at 4:00 p.m. Memberships will be available, so come on out to eat and recreate.

AIAA

The American Institute of Aeronautics and Astronautics will meet in the ME Auditorium at 7:00 p.m. Mr. Joe Seidel of McDonnell-Douglas will present a program entitled "Space, A New Frontier." Refreshments will be served, and memberships and T-shirt orders will be taken.

PHOTO CLUB HAVING MEETING

The UMR Photo Club is having a meeting on Thursday, September 17 at 7:30 p.m. in the Meramec Room of the University Center. The presentation at this meeting will be "The Characteristics of the 35mm Camera." Learn what those numbers mean! Everyone is welcome and memberships will be on sale.

WARGAMERS CLUB

The Wargamers Club will hold its first meeting tonight at 7:00 p.m. in room 206 M-CS. Anyone may attend. New officers will be elected and upcoming events of the year will be discussed.

HP-41C USER'S CLUB

The HP-41C User's Club of UMR's meeting will be held Thursday, September 17th in EE 105 at 7:00 p.m. UMR 41 notes will be distributed. If you have an HP-41C and can not get to the meeting, please leave a message at 1306 Elm, #11.

BIBLE DISCUSSION

Bible discussion — non denominational, Thursdays at 9:00 p.m. in Quad, House 6 in Room 218. For more info call 364-0502.

KAPPA MU EPSILON

"Kappa Mu Epsilon, the mathematics honor fraternity, will be having the math help sessions on Monday and Thursday night, 6:30 to 8:30 p.m. in Room 209 M-CS. Students needing help in math 2, 4, 6, 8, 21, 22 and 204. Applications to join KME for qualified students may be picked up at the mathematics dept. office."

FRIDAY

SEPTEMBER-FEST '81

Get psyched for "The Event" this semester, September-Fest, 1981. The St. Pat's Board will again present this fun in the sun occasion on Friday, September 18, from 1 until 5.

The excellent sounds of the band Missouri Southern will be present. UMR Parachute Club will drop in as well as a tug-of-war between the Board and the Independent's Council. OK, you well-endowed coeds show your stuff at the wet t-shirt contest. Prizes will be awarded.

Money available for campus organizations

Submitted By
Student Council

The UMR Student Council is once again accepting applications for fall appropriations to campus organizations. Up to \$4,500 is available for distribution among organizations filing requests, and \$5,400 is available for non-varsity sports organizations. Organizations making requests must not receive Student Activity Fee money, and must show how they benefit the student body.

Ideally, appropriations would be granted to help get new organizations started (or help rejuvenated those which have deteriorated), or to help those organizations which are inherently unable to support themselves.

Applications are available on the door of the Student Council office at 202 University Center-West. They may be returned during the office hours which are also posted on the door. Applications are due on September 25, 1981 at noon, and absolutely no late applications will be accepted. For questions, contact John Minicky at 364-9792 or 364-9769.

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TUESDAY

AMERICAN CHEMICAL SOCIETY

The W.T. Schrenk Society, student affiliate of the ACS, will hold a short organizational meeting on Tuesday, Sept. 22 at 4:30 in room 125 of the chemistry building. Election of officers for the 81-82 school year will be held. W.T. Schrenk is open to all students interested in chemistry.

MISSOURI INDUSTRY DAY

14th annual Missouri Industry Day. Door prizes, give-aways, exhibits and displays by approximately 60 companies and agencies. 10 a.m.-4 p.m., Gale Bullman Multi-Purpose Building.

WEDNESDAY

GRE WORKSHOP

There will be a GRE (Graduate Records Examinations) Workshop, September 23 at 3:30 in the Humanities-Social Sciences Building, Room 105.

The workshop will be presented by Dr. Cathy Riordan who will present ideas on how to study and what to expect on GRE tests. The GRE workshop will be sponsored by Psi Chi.

WOEEE RADIO CLUB MEETING

The next meeting of the UMR amateur radio club WOEEE will be held this evening, Sept. 23, at 7:30 p.m., in room 101 EE. Anyone interested in ham radio is invited to attend. Donuts will be served in the shack after the meeting.

NODAY

MSM SPELUNKERS CLUB

MSM Spelunkers Club meets every Wednesday at 6:15 p.m. in room 305 Norwood Hall. New members always welcome.

UMR PARKING STICKERS

If you have paid for a UMR Parking Sticker and have not yet picked it up, please do so.

ATTENTION POTENTIAL CO-OP STUDENT AND PRESENT CO-OP STUDENTS

Students in the future who are planning to start the Co-op Program who currently hold a scholarship, please contact the Student Financial Aid Office to find out if their scholarship will or will not be reinstated once they return as a full-time resident of UMR.

IK FRESHMAN RECORD

If you have not yet picked up your 1981 Freshman Record you may do so by seeing Betty Todd at Student Activities, 202 Rolla Building.

WHO'S WHO

Who's Who applications are available at Student Activities 2nd floor Rolla Building and the candy counter.

Attention UMR organizations all officers list are past due from all UMR organizations. These may be turned in at the Student Activities Office, 2nd floor Rolla Building.

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Liza Minnelli

RITZ
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News

Thursday, Sept. 17, 1981
MISSOURI MINER
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Rolla experiences parking crunch

By DON BOYD

Due to the extra number of students this semester there are not enough parking spaces to accommodate all UMR students. There are 800 more students than there were last semester. Right now there are 237 people waiting for gold stickers and 474 people waiting for the silver lot stickers. The lot on 14th and Bishop will be open soon, which will create 200 more silver parking stickers. Also, to allow more stickers to be sold the University's Traffic Safety Committee is taking daily surveys. This is so they can oversell parking stickers to

lessen the number of students that are still awaiting stickers.

If you do not have your car registered with the university police it is advisable to do so now. They are charging a fee of five dollars for not being registered. It is also to your benefit to read the Traffic Regulations manual that is free at the UMR police department.

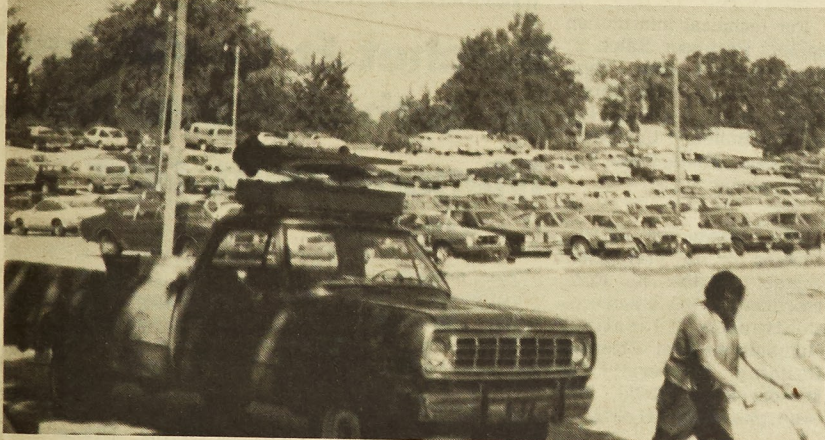
Another thing that you had better do is buy a city sticker if you own your cars because a new city ordinance, No. 2257, was passed on the 16th of March, 1981 and went into effect on June 1st, 1981. The ordinance reads:

"All persons living within

the city of Rolla, Missouri, shall be required to pay a city automobile license tax on any motor vehicle owned by such person and operated upon the streets of the city."

This ordinance was passed because the only students paying for city stickers were those that were married.

If you are caught without a city sticker on your car and you own it and live in Rolla, even if you are only a student, you will be fined three dollars plus fourteen dollars for court costs. The price for city stickers is \$1.75 for the rest of this year and \$3.50 for next year.



The parking situation at UMR presents an inconvenience to commuting students. (Photo by Hardesty)

Videotape workshop offered at UMR

SOURCE: OPI

A one-day workshop on the fundamentals of videotape production will be offered at the University of Missouri-Rolla Saturday, Sept. 26. The course is an introduction to the basic tools of videotape and basic production methods for using those tools.

Sessions are scheduled from 9 a.m. to 12 noon and 1:30 to 4:30 p.m. in Room G-4, UMR's Wilson Library.

Dr. Sam C. Geonetta, UMR associate professor and section head, speech and

media studies, will be the instructor. Dr. Geonetta has taught courses in speech and media studies at the college level for the past seven years. He received his Ph.D. from Indiana University and is a graduate of the National Audio-Visual Association's Institute for Effective Communication.

"Videotape is becoming an increasingly useful tool in business, research and education, and many individuals are being called upon to work with this new medium," Dr. Geonetta said. "This course is aimed

at giving the non-professional a working knowledge of video equipment and scripting and production techniques."

The course fee is \$50, which includes all classroom materials and instruction and a refreshment break morning and afternoon.

For information about the course, call Dr. Geonetta, 314-341-4697 or 314-341-4869. To register, contact Martha K. Fort, Arts and Sciences Continuing Education, 105A Humanities and Social Sciences, UMR, Rolla, Mo., 65401, phone: (314) 341-4943.

Business computer course offered

SOURCE: GPI

The University of Missouri-Rolla will offer a course in "Business Applications With Small Computers" beginning Tuesday, Oct. 27.

The class will meet from 6:30 to 9:30 p.m. every Tuesday and Thursday at 604 Pine St. in Rolla. Subsequent class meetings have been scheduled for Oct. 29 and Nov. 3, 5, 10, 12, 17, 19 and 24.

Participants in the course will learn how to solve business problems such as general ledger, payroll, accounts receivable and inven-

tory on a computer. A programming language will be used to illustrate the development of computer programs for these applications.

The course will include lecture and workshop sessions, and a small computer will be available for use by the participants. Knowledge of computer programming is not necessary, but a general knowledge of bookkeeping procedures is desirable.

Fee for the course is \$125, and early registration is requested. Dr. James K. Byers, UMR associate professor of computer science

and president of Mid-West Computing, will be the instructor.

For additional information contact: Frank Haston, 107 Mining Building, University of Missouri-Rolla, Rolla, Mo. 65401, phone: 341-4204.

The course is a continuing education activity of the UMR College of Arts & Sciences in cooperation with the computer science department.

UMR to research desalinization

SOURCE: OPI

It's hundreds of miles to the nearest ocean, but at the University of Missouri-Rolla, chemical engineers and chemists are helping turn the tide in the search for an economical method of removing salt from seawater.

It's part of research being done by Dr. H. K. Yasuda, UMR chemical engineering professor, on those versatile man-made materials known as polymers. The project, funded by the U.S. Department of the Interior, seeks to develop an ultrathin polymer membrane which will combine effective salt removal with durability.

Yasuda, who heads polymer research at UMR's Graduate Center for Materials Research, has been working on desalinization for about 15 years. He believes that the process being developed here shows promise of making desalinization of water commercially feasible.

He says that the prospect of removing salt from water economically is a matter of great importance, not only in arid areas such as Israel and Saudi Arabia, which have salt water borders, but in other areas of the world as well.

"We are preparing now for the next worldwide crisis, a shortage of potable — that is, safe and drinkable — water," Yasuda explains. "When that shortage comes, it will be more serious than the oil shortage, because you can't live without water."

"The quantity of water is limited. All the water we will ever have on earth is already here, and the demand is catching up with the supply. In the not-too-distant future, desalinization may be a ma-

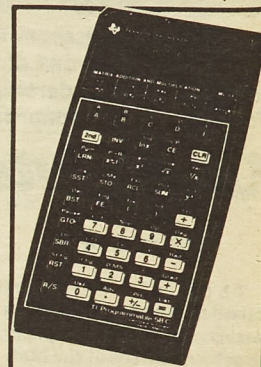
jor concern in this country, too."

Yasuda's method of salt removal takes elements of earlier desalinization research and puts them together in a new way.

At the heart of the process are tiny, hair-like hollow fibers with porous walls. Through a special method, a thin polymer layer is deposited on the outside of the fiber. This makes the entire fiber semipermeable and selective, allowing the water to pass through but not the salt. Seawater under pressure is forced through the walls of the small tube, and the desalted water comes out in droplets from the hollow center of the fiber.

"The basic technique is reverse osmosis, and established procedure," Yasuda explains. "The osmosis phenomenon (in which pure water would naturally flow through a membrane to a salt solution) is reversed when pressure is exerted on the salt solution. This has been done for some time using hollow fibers and polymer membrane in sheet form."

"The big problem has been durability of the membrane, the most expensive part of the desalinization process," Yasuda adds. "The environment has to be carefully controlled at all times. The membrane's effectiveness can be destroyed by many things — by chlorine, which must be added to kill microorganisms, and by high temperature and high acid content. Then there are also colloids, substances that are suspended in the water and are apparently dissolved but which move slowly, or not at all, through the membrane and foul it."



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Continued on Page 8



University of Missouri-Rolla student Kim Denney, left, and Tom Ruess, lecturer in music and director of UMR's "Marching Miner" Band, display the national "Leadership" Award won in August by the Rolla chapter of Tau Beta Sigma, honorary organization for women band members.

Computer graphics offered

SOURCE: OPI

The University of Missouri-Rolla will offer a series of five computer graphics courses at the Marriott Pavilion Hotel in St. Louis this fall.

According to Dr. G. Edwin Lorey, dean of UMR Continuing Education and Public Service, individual courses have been designed to fit the particular needs of various audiences.

"There are courses that will deal with computer graphics systems and others that are more concerned with the business, industrial and academic applications of those systems," he said. "In addition, several of the courses do not require any previous knowledge of computers or computer programming."

Courses to be offered are:

"Computer Graphics: Applications, Current

Technology and Implementation," Oct. 1-2, has been designed for computer graphics users; administrators and managers responsible for planning, evaluating, selecting, acquiring and implementing computer graphics systems in business, engineering, industrial and academic settings. Fee for the course is \$295 and includes instruction, all class materials and a reception.

"Business Graphics: Visual Communication of Management Information," Oct. 19-20, is meant for executives, managers, economists, engineers, scientists and mathematicians who must communicate and manage technical and business information. Fee for the course is \$295 and includes instruction, all classroom materials and a reception.

"Computer Graphics at

Colleges and Universities," Nov. 5-6, has been designed for educators and administrators responsible for the development and management of new technology in teaching and research. Fee for the course is \$195 and includes instruction, all class materials and a reception.

"Computer-Aided Graphics Systems: Design and Drafting Tools," Nov. 16-17, is best suited for executives, managers and engineers responsible for planning, evaluating, selecting, acquiring and implementing computer graphics systems to be used for design and drafting purposes in manufacturing. Fee for the course is \$295 and includes instruction, all class materials and a reception.

"Computer Graphics: Microprocessor/Personal

Computer Systems," Dec. 3-4, has been designed for managers, administrators, educators and graphics users responsible for evaluating, selecting, acquiring and implementing desk-top computers. Fee for the course is \$195 and includes instruction, all class materials and a reception.

For technical information contact Professor Ralph E. Lee, course director, computer science department, Mathematics-Computer Science Building, University of Missouri-Rolla, Rolla, Mo. 65401, phone: 314-341-4491.

For information on the courses or to preregister contact Martha K. Fort, coordinator, Arts & Sciences Continuing Education, Humanities-Social Sciences Building, University of Missouri-Rolla, Rolla, Mo. 65401, phone: 314-341-4943.

The courses are continuing education activities of the UMR computer science department.

SOURCE: OPI

The University of Missouri-Rolla chapter of Tau Beta Sigma has been awarded the honorary band organization's highest national award for chapter leadership.

The award was presented at the group's biennial national convention held in Cincinnati, Ohio, in August. Tau Beta Sigma is an honorary for women band members. It is made up of 166 chapters from colleges and universities throughout the country and has about 6,000 members.

Tau Beta Sigma receives national award

UMR's chapter was honored for its support of the campus band program; the participation of its members in UMR's four music continuing education functions each year (occasions such as junior high band clinic and high school music festival); the chapter's assistance in the growth of Tau Beta Sigma (colonization at other colleges); and the promptness and accuracy of necessary paper work.

Students Susan Turner, '70-'80, and Kim Denney, '80-'81 presided over the UMR chapter (about 20 members) during the period for which the award was given. Tom Ruess, lecturer in music and director of the "Marching Miner" Band and the UMR Jazz Ensembles, in faculty adviser for the group.

For EE 205

George McPherson authors text

SOURCE: OPI

"An Introduction to Electrical Machines and Transformers," a textbook written by Professor George McPherson Jr. of the University of Missouri-Rolla, was published recently by John Wiley & Sons Inc. of New York, N.Y.

The 557-page book provides a brief but comprehensive introduction to how electrical machines and transformers work. In so doing, it develops circuit models for each of the basic devices which will permit the performance of each to be calculated.

The development of each model is as rigorous and as accurate as possible, and sufficient mechanical details are provided to meet the needs of those who must understand the function and structure of each part.

McPherson is a professor of electrical engineering at UMR.

Sarchet & Carmichael co-author Supervisory Management text

SOURCE: OPI

The second edition of "Supervisory Management," a textbook written by Bernard R. Sarchet and Ronald L. Carmichael of the University of Missouri-Rolla and Robert W. Eckles of the University of Wyoming was published recently by John Wiley & Sons Inc., New York, N.Y.

The 524-page book

presents a concise and practical coverage of all the facets of supervisory management's functions, practices and theories.

Sarchet is professor of engineering management at UMR, while Carmichael is a professor of mining engineering. Eckles is an associate professor in the M.B.A. program at Wyoming.

KD receives Merit Award

SUBMITTED BY KD

Epsilon Alpha chapter of Kappa Delta was honored at their 44th National Convention this past June in Scottsdale, Arizona. The UMR chapter was presented the Merit Award for overall excellence and the Scholarship Award for the highest Panhellenic Scholastic average for the past two years.

EA was one of 14 chapters to receive the scholarship awards for exhibiting high scholastic progress and achievement during the two years since the last convention. One of the requirements for the award was to have either the highest all-women or Panhellenic GPA.

The Merit Award given to seven other of the 121 chapters was based on excellence in all facets of sorority business both on the local and the national level. The only other award presented

to a chapter is the Council Award presented to the chapter that best exemplifies all the ideals of Kappa Delta as established by the founders.

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Energy conference begins Nov. 4

SOURCE: OPI

The Eighth Annual University of Missouri-Rolla/Department of Natural Resources Conference on Energy will be held Wednesday through Saturday, Nov. 4-7, at UMR.

Nationally and internationally known speakers will focus on directions taken by technological, political, social and institutional forces in solving energy problems.

Sessions have been scheduled on alternative

energy (solar, wind, wood and waste, coal and alcohol), building energy use, energy management and energy distribution. A "Think Tank on Energy" also will be held.

In addition, the conference will include an energy film-orama, workshops on wood

heat safety and solar greenhouses, a Wednesday evening seminar on "Photovoltaic Systems - Status and Promise," and a Saturday tour of local renewable energy installations.

The conference is sponsored by UMR and the Missouri Department of Natural Resources in cooperation with 17 other agencies. These are: Institute of Electrical and Electronics Engineers - Kansas City Section; The Missouri Academy of Science; Missouri Society of Professional Engineers; American Society for Engineering Management; International Society for Optical Engineers; Society of Petroleum Engineers of the American Institute of Mining, Metallurgical and Petroleum Engineers; American Institute of Plant Engineers; IEEE - St. Louis Section; Army Corps of

Engineers - St. Louis District; Missouri Division of Community & Economic Development; Missouri Industrial Development Council; American Section of the International Solar Energy Society Inc.; The American Society of Mechanical Engineers; American Society of Heating, Refrigeration and Air Conditioning Engineers; Illuminating Engineering Society; the St. Louis Electrical Board; and the St. Louis Energy Council.

The conference registration fee for individuals is \$100 and includes a copy of the extended abstracts. For a company registration fee of \$500, a company may send up to 10 employees. Conference sponsorships are \$1,000, and any number of representatives may attend. The registration and sponsorship programs include a copy of the conference proceedings for each partici-

pant.

A heating, ventilating and air conditioning short course and a solar short course will be presented in conjunction with the conference. The cost of these courses is not covered in the conference registration fee.

For technical information, contact Burns E. Hegler, conference director, 218 Engineering Research Laboratory, University of Missouri-Rolla, Rolla, Missouri, 65401; phone: (314) 341-4532 or 4718.

For information on registration, contact Walter Ries, conference coordinator, 111 Engineering Research Laboratory, University of Missouri-Rolla, Rolla, Missouri, 65401; phone: (314) 341-4132.

On The Loose

The Student Union Board's "On the Loose" rents outdoor recreation equipment to UMR students only. On the Loose is located at T-26 State Street next to the UMR infirmary. The office is closed during all holidays and between semesters.

Equipment may be checked out between semesters but students must be responsible for and keep until office reopens for spring semester

1982. A validated UMR student I.D. is required for rental. A list of items and prices is given below. If there are any questions you can call 341-4908 during office hours of 2:30-5:30 p.m. Monday through Friday.

ITEM	Days rented				
	1	WE*	2-3	4-5	6-7
Canoes, Grumman, 17 ft.	4.00	5.00	9.00	13.00	18.00
Car-top carrier	.25	.50	.50	.75	1.00
Life Jackets - S, M, L AND XL	.50	.75	1.00	1.50	2.00
Paddles	.25	.50	.50	.75	1.00
Canteens - 1 qt. capacity	.10	.15	.20	.30	.40
Compasses	.10	.15	.20	.30	.40
Mess Kits and cook kits	.25	.25	.50	.75	1.00
Backpacks and frames	.75	1.00	1.50	2.25	3.00
Panny Packs	.50	.75	1.00	1.50	2.00
Sleeping bags	1.00	1.50	1.75	2.50	3.00
Gear Bags	.50	.75	1.00	1.50	2.00
Foam Pads	.50	.75	1.00	1.50	2.00
Coolers	1.00	1.50	1.75	2.25	3.00
Tents - 2 person - Eureka Timberline	2.50	3.00	4.00	5.00	8.00
Tents - 4 person - " "	4.00	5.00	7.00	10.50	14.00
Bump caps with light for caving	1.00	1.50	2.00	3.00	4.00
Skis - XC***	2.00	3.00	5.00	7.50	9.00

* Week-end rates, Friday or Saturday through Monday

** Canoe rental includes 2 paddles, 2 life jackets and a car top carrier

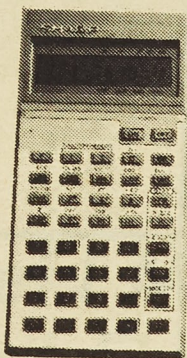
*** Ski rental includes skis, boots, binding and poles

For rental rates over 7 days: See an OTL staff member

Rental between semesters: 6-7 day rates will be charged

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Karen Ditzler has joined the staff of Auxiliary Enterprises to manage the Quad residence halls. (Photo From OPI)

Karen Ditzler to manage Quad residence halls

SOURCE: OPI

Karen Ditzler has joined the University of Missouri-Rolla Auxiliary Services staff as house manager of the Quad Residence Hall Complex.

Before coming to Rolla in June, Miss Ditzler was on the staff of southern Illinois University at Carbondale for more than five years. She held positions in various areas of housing, ranging from student resident assistant to manager of student apartments. She is currently completing work on a master's degree in higher education.

According to Jess Zink, UMR director of Auxiliary Services, Miss Ditzler will be responsible for programs, facilities and services as they relate to the quad complex and will assist in all housing operations on the UMR campus. Also she will be involved in the development of a professional atmosphere, dealing with staff training, student orientation, campus programming and participation of the UMR housing staff in professional organizations.

Students, staff and faculty are encouraged to visit Karen at her office in Kelly Hall.

UMR Spotlight APO

By ELLEN HENDRICKS

The Beta Omicron chapter of Alpha Phi Omega has been at University of Missouri-Rolla since 1935. It's part of a large national fraternity that originally developed from the Boy Scouts of America. It is also one of the largest service fraternities on the Rolla campus.

The only requirement for membership in APO is to be elected by a campus organization. It's 35 actives and 40 new pledges are representatives from each organization on campus. Two pledges are elected each semester by the individual groups.

APO's main service projects are the APO Bookstore,

the Dance-a-Thon, (this year on Nov. 7th) and the Walk-a-Thon in the spring. The book store is set up in University Center-West at the beginning of every semester. It provides a way for students to sell their books to other students. The Dance-a-Thon is to benefit the Muscular Dystrophy Association and the Walk-a-Thon benefits (Cystic) Fibrosis. The profits from the book store go to finance these projects and various other projects for the Rolla community.

Along with these individual projects APO helps the other service fraternities on campus. This semester APO plans to participate with the other service fraternities in a big project now being planned.

Department of education reports 1.5% enrollment decline nationally

SOURCE: DEPARTMENT OF EDUCATION

This fall when school bells ring to signal the start of a new academic year, according to Secretary of Education T.H. Bell, an estimated 850,000 fewer students than were enrolled last year in the Nation's schools and colleges will be responding.

The 1.5 percent decline in total enrollment, from 58.4 million to nearly 57.6 for the start of the 1981-82 year, is

indicated in the annual "back to school" forecast by the U.S. Department of Education's National Center for Education Statistics.

This estimated enrollment in formal education programs from kindergarten through graduate school would be a decrease of approximately 6 percent from the record high of 61.3 million students reached in the fall of 1975, Dr. Bell stated.

According to the forecast, nearly 3.3 million persons

will be employed as classroom teachers, and an additional 300,000 will be working as superintendents, principals, supervisors and other instructional staff members.

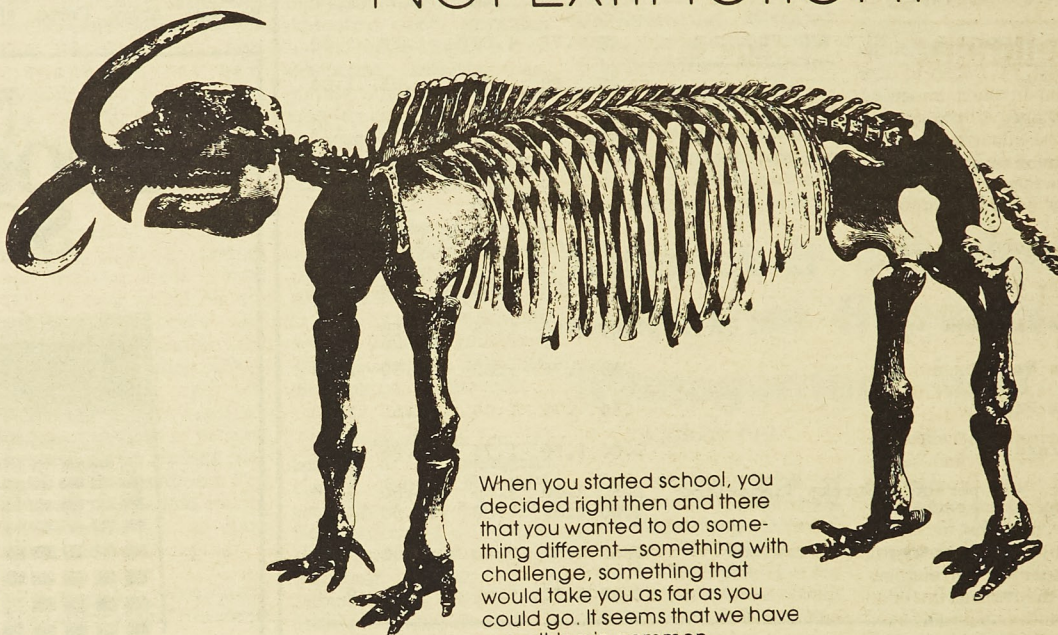
"Education in the fall of 1981 will be the primary activity of more than 61 million Americans," Secretary Bell said. "Thus, in a nation with a population of more than 229 million, about 27 of 100 persons will be direct participants in the educational process."

All of the figures cited by the Secretary include students enrolled in public and private institutions.

Enrollment at the elementary school level (kindergarten through grade 8) is expected to decrease from 31.4 million at the beginning of the 1980 school year to 31 million pupils this fall. Small annual decreases in elementary enrollment have been occurring since 1969, reflecting a continuing

See page 7

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Alpha-Omega Players present Neil Simon's program. "Chapter Two" as part of SUB's fine arts

(Photo by Alexander)

Enrollment from page 6

reduction in the number of children aged 5 to 13. In the mid-1980s this trend is expected to be reversed. An increase in births that began in 1977 and is still continuing will lead to an increase in elementary school enrollment for the remainder of the decade.

At the high school level — grades 9 through 12 — a decrease from 14.9 million in 1980 to 14.4 million students this fall is anticipated. High school enrollment peaked in the fall of 1976 and subsequently has experienced small decreases each year. Further declines in enrollment in grades 9 through 12 are expected throughout most of the 1980s as the 14- to 17-year-old population continues to decrease.

Enrollment in institutions of higher education reached an all-time high of 12.1 million in 1980, and only a nominal increase in expected this fall. College enrollment appears to be nearing its peak. After 1981 a decrease is expected in the college-age population (18- to 24-year-olds), and small annual decreases in the number of college students are projected for the rest of the decade.

More than 2.4 million elementary and secondary school teachers will be engaged in classroom instruction this fall. This represents a small reduction from the number of teachers employed a year ago. Minor

decreases at both the elementary and secondary school levels are anticipated. The instructional staff at the college level is expected to hold steady at about 840,000.

Expenditures for public and private education at all levels are expected to reach \$198 billion during the school year 1981-82, compared with outlays of about \$181 billion in 1980-81. Elementary and secondary schools are expected to spend about \$127 billion in 1981-82, and the spending of colleges and universities is estimated at more than \$71 billion. Public schools and colleges will spend about \$161 billion during the next year, while private institutions will disburse about \$37 billion.

Other highlights of the "back to school" forecast:

— About 3,050,000 persons graduated from public and private high schools in 1981, and the graduating class of 1982 is likely to approach 3 million. The peak year for high school graduates was 1977, when 3,161,000 persons received their diplomas.

— The estimates of the number of earned degrees to be conferred during the year 1981-82 are: bachelor's degrees, 945,000; first-professional degrees, 72,000; master's degrees, 300,000; and doctorates, 33,000. The estimates for bachelor's and

first-professional degrees are at or near their all-time highs. The figures for master's and doctor's degrees are down slightly from the peaks attained in 1977 and 1973, respectively.

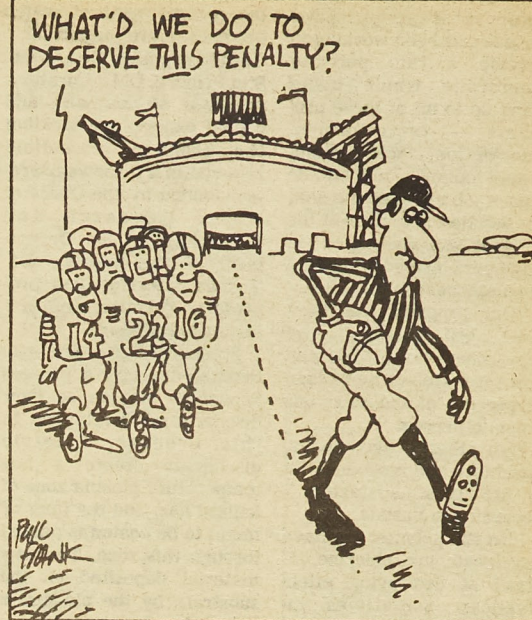
— Of the \$198 billion to be spent on education in 1981-82, an estimated 10 percent — \$20 billion) will come from the federal government; 39 percent (\$77 billion) from state governments; 25 percent (\$50 billion) from local governments; and 26 percent (\$51 billion) from a variety of private sources,

including tuition and fees, endowment earning and private gifts and grants.

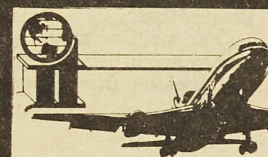
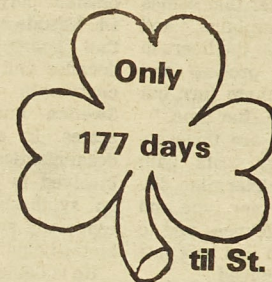
These statistical profiles are derived from the surveys, estimates, and projections of the Department's National Center for Education Statistics. All figures are subject to minor revision when final data becomes available.

FRANKLY SPEAKING

....by phil frank



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Desalinization from page 3

For about seven years, Yasuda has been working to develop a thin polymer membrane which could stand up to all of these problems — temperature, chlorination, acid, membrane fouling — and still do a good job of removing salt. His solution is to deposit the polymer as a coating on the tiny fibers instead of making the membrane in sheet form.

"Our progress has been slow, but steady," the researcher says. "We can now separate out more than 93 percent of the salt; our aim is 99 percent."

Two other achievements, durability and reproducibility, are "most satisfactory," according to Yasuda.

"On the polymer we have developed here, chlorine, instead of destroying effectiveness, sometimes increases the selectivity and actually increases the amount of water that comes through," he explains, "and now we can coat the fibers in a continuous process and always have them turn out the same, time after time."

Membranes are undergoing laboratory tests with seawater to determine the optimum polymer type and membrane thickness and to see how much and how fast salt can be removed.

A related project is the development of polymers which would absorb colloids when water is pretreated.

"As the technology for removing salt from water becomes more advanced,

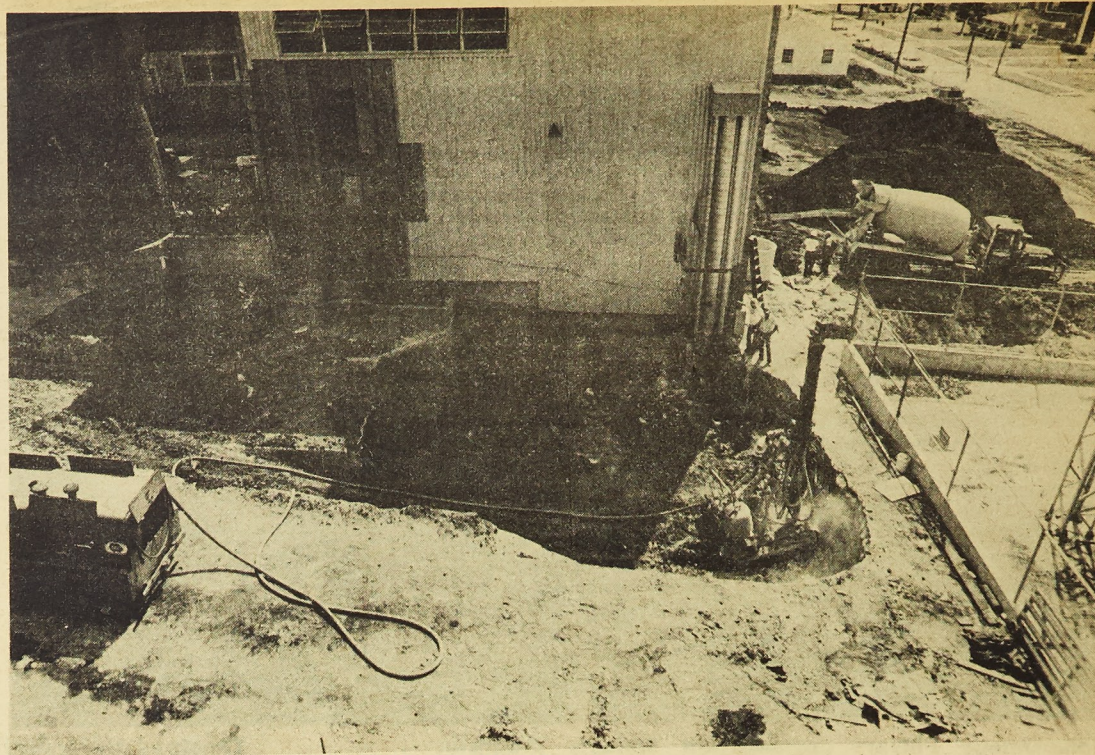
the pretreatment of water becomes more important," Yasuda explains. He and Dr. Stig Friberg, UMR Curator's professor of chemistry and colloid expert, are tackling the problem of colloid removal in a three-year project funded by the Office of Water Research and Technology, U.S. Department of the Interior. Dr. Yasuda describes their progress as "exciting and promising at this stage."

These polymers are synthesized through a process known as plasma or glow discharge polymerization. In this process, electric discharges create a low temperature plasma zone of ionized gas, and the fiber or metal to be coated is passed through this zone. The new material deposited on the substrata by the plasma is called plasma polymer.

One of the pioneers in plasma polymer research, Dr. Yasuda has had a career that spans almost three decades and work on three continents — in Japan, Sweden and the United States. In addition to his desalinization studies, he is involved in several studies on synthesis of materials especially suited for use in biomedicine.

He is dedicated to the idea that his work should have practical use.

"For me," he says, "the best research is fundamental research that is goal-oriented."



Construction continues on the renovation of the UMR power plant.

(Photo by Schaeffer)

Solar sorority from page 1

Since the temperature of the preheated water is nearly 100 F, the water heaters only need to raise the temperature of the water 20 or 30. This is expected to cause a 20% savings in

utilities.

This system costs approximately \$16,000. The solar energy system installed at the Chi-O house is expected to pay for itself within 5 to 8 years.

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News Briefs

During the winter, says the Missouri Division of Tourism, there are more bald eagles in Missouri than in any other state. Bluffs along the Missouri and Mississippi Rivers are especially popular as a winter haven for the regal birds.

Arrow Rock, in central Missouri's Lake of the Ozarks region, was an important stop on the pioneer trails leading west, says the Missouri Division of Tourism. The old town, now a state historic site, has more than 40 historic buildings or areas.

Missouri Town 1855, southeast of Independence in the Kansas City area, depicts a typical Missouri pre-Civil War village, says the Missouri Division of Tourism. The town, at Lake Jacomo, is a Jackson County Parks and Recreation Department project.

The Foster Museum has been called the "Smithsonian of the Ozarks," says the Missouri Division of Tourism. The free museum, at the School of the Ozarks, near Branson, has more than 750,000 items on display.

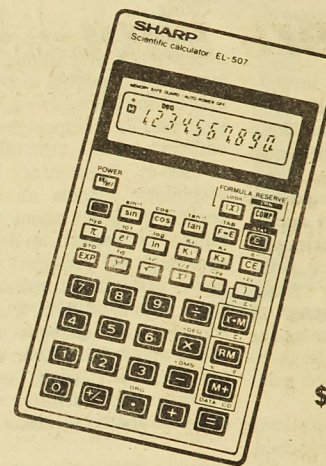
Visitors to northwest Missouri can enjoy theatre in the unusual setting of a mule barn, reports the Missouri Division of Tourism. The Mule Barn Theatre in Takio is a three-story octagonal building used in the late 1800s to house farm mules.

Travelers can get free brochures and maps at the six tourist information centers operated by the Missouri Division of Tourism. The centers are conveniently located on major highways at (or near) St. Louis, Kansas City, Joplin, Hannibal, New Madrid and Rock Port.

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Voting Rights Act:

Suffrage is for all

By TED C. HUFF

As Americans, most of us take for granted the right of suffrage. Unfortunately, for racial reasons this right has not always been given to everybody willing to do their share to become part of this nation, and certain individuals still seek to prevent Americans of minority backgrounds from having this basic right. To reduce this problem, Congress passed the Voting Rights Act in 1964, but now that the act has almost expired, debate goes on to decide whether or not it should be renewed.

The act makes illegal voting laws worded to deny the voting right for reason of race. It requires that when literacy tests are given to determine who may vote that they be given to everybody, because when it was allowed to select who had to take the test, the test was usually very hard and the people selected black. Indirect methods often used to keep blacks away from the polls such as disqualifying people whose ancestors were slaves are prohibited, as well as outright destruction of ballots and threats made

to force people to vote in certain ways.

When the court determines a gross violation has occurred, enforcement of the act is carried out through Federal examiners appointed by the Civil Service, and when convicted, violators are subject to a fine of not more than \$5,000 or a term of imprisonment not exceeding five years, or both.

To discover blacks' views on this important piece of legislation, the writer, who is white, spoke with several on campus. They said that although problems still exist, they are not nearly as bad as they were when their parents were growing up. They do feel that if the act is

not renewed, many blacks in the South will again be excluded from voting, with the only difference being that the methods used to accomplish this will be more subtle than those used in the past.

For that to be permitted again will be a step backward in America's history of championing human rights. As young people, we must be concerned with what is happening in our country because most of us will be living in it for the next five or six decades yet, and even small violations of human rights ultimately hurt everyone. For this reason, we should know that the Voting Rights Act is for America — and us.

Comments

Thursday, Sept. 17, 1981
MISSOURI MINER
Page 9

FRANKLY SPEAKING

...by phil frank

WELL, WE GOT A BOWL INVITATION FROM NOTRE DAME... THEY WANT US TO GO TO PASADENA TO PLAY IN THE ROSARY BOWL...



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You are what you read

By RICH BEE

"If school facilities were graded, Banneker Senior High would get a G for grim."

Well, what do you think that is out of, a short story, an editorial, a new comedy movie. Actually it's the opening line of a news article in a weekly national magazine. It is not a quote of somebody involved in the news or an expert on the news. It is the simple unadorned opinion of the writer of the article. As a matter of fact most of the first paragraph is opinion except for a single quote from the Washington superintendent of schools. The rest of the article is similar with quotes and news interspersed by emotionally charged statements. It is not an isolated article either, pick up numerous publications and you can find news articles that can affect your acceptance of the news one way or another, if you look for them.

Over two hundred years ago the forefathers of this country saw that a free press was essential to democracy and guaranteed freedom of the press. However, they did not insure responsibility of the press. This is not to imply that the press is irrespon-

sible or that we are involved in some huge conspiracy. It is to imply that we are affected by what we read. Control by information can be a very powerful tool. We are affected by whether or not we receive information and how it is presented to us. We do not react to information we do not receive. And I can describe a person as either forceful or overbearing, both meaning very nearly the same thing but different connotations.

The news is reported and published by individuals trying very hard not to let bias creep into their articles. Still the news is reported by people and edited by people who have different perceptions and different opinions so that any news we receive has been filtered through a person or more likely several people. We read the news as someone else perceives it.

I feel that the press normally does a good job of policing itself but, sometimes it is otherwise. There is no organization that controls press ethics as do the Bar Assoc. and the MDA for lawyers and doctors. Still the press affects many more people daily. It is up to the reader to judge. So I implore you to read carefully.

Just thought you'd like to know.

Response to cartoon

Dear Editor,

I was offended by an editorial cartoon published in your 9/3 edition. In it, Senator Jesse Helms, Representative Henry Hyde and the Right to Life Movement are depicted as ogres who would trample a woman's right to choose. This is untrue and unfair.

The Right to Life Movement is concerned not only with a woman's right to choose, but the child's right to live. Our founding fathers recognized life as a basic right in the Declaration of Independence. In it they state: "We hold these truths to be self-evident, that all men are created equal, that they are endowed by their Creator with certain unalienable rights, that among these are life, liberty and the pursuit of happiness." Our forefathers spelled it out in this Declaration, one of the documents upon which our whole system of government is based. Because of this foundation of respect for life, the Right to Life Movement seeks laws that would ensure the child his rights.

Concerning a woman's right to choose, the movement does not ignore this but emphasizes it. The movement attempts to show the woman the many choices she does have. By funding organizations such as Birthright, the movement helps women to receive prenatal care, shelter, clothes for herself and her baby, and self respect. Also the movement attempts to educate people to the fact that there are many childless couples waiting to adopt a child, and give it a good and loving home.

The Right to Life Movement is concerned with a woman's rights and choices. It is our belief that the child has a right to life, and that therefore the woman should choose life, because it is the source of all things great and beautiful.

Matthew P. Conlon
M.E. student

BSU Opinion Poll:

Players shouldn't strike

Submitted By:
NANCY JONES

Student Opinion Poll #13 was held Tuesday, Sept. 8 by the Hockey Puck with 86 students participating (12.6% of the students enrolled at UMR).

Poll results:

1) Do you feel that the pro baseball players were justified in going on strike?
yes - 24.9%
no - 72.2%

A large majority of students feel that the pro baseball players were not justified in striking, especially since the players and owners resolved their differences rather quickly once they lost enough money by not playing.

2) Do you think that President Reagan should allow the air traffic controllers to return to work?
yes - 30.2%
no - 68.5%

Most students believe President Reagan should do what he says so the air traffic controllers should not be allowed to return to work after violating their "no-strike" oath.

3) Do you think that the

UMR entrance requirements should be raised to reduce student overcrowding in classes?

yes - 62.0%
no - 36.7%

A small majority of students feel that raising UMR entrance requirements is a possible solution to the problem of overcrowded classes.

4) Do you think that UMR should raise tuition next January to increase the salary of University personnel?

yes - 22.1%
no - 75.5%

Very few students want to raise tuition for the spring semester to raise the salaries of University personnel, though this could also ease the problem of overcrowded classes if we could attract more professors.

5) Do you believe in the existence of a God?

yes - 89.4%
no - 6.9%

6) Do you believe the Bible is historically accurate?

yes - 60.5%
no - 31.4%

7) What is the best movie you saw this summer?

Out of 81 movies listed, the top are:

1) Raiders of the Lost Ark	37.5%
2) Stripes	19.3%
3) none	16.2%
4) Arthur	3.3%
5) Superman II	3.1%
6) Excalibur	2.5%
7) For Your Eyes Only	1.9%

The Student Opinion Poll is sponsored by the Baptist Student Union. It will be held every Tuesday from 8:30 a.m. to 3:30 p.m. by the Hockey Puck or in the University Center-West, depending on the weather. All students are welcome to participate.

So says the VA... TWITCH by How' Rands

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(Photo by Gieseke)

Features

Thursday, Sept. 17, 1981
MISSOURI MINER
Page 10

St. Pat's Facts

By TOM BENNEY

Tomorrow is it, the 4th Annual Septemberfest. For a lot of people, the first round of agonizing tests are about over. What better way to celebrate or drown your sorrows, than gulping down unlimited amounts of your favorite suds at the Septemberfest.

The best party this fall will include the country and rockin' sounds of Missouri Southern. Not to mention, four parachutists from the UMR Parachute Club will drop in. The St. Pat's Board will try to pull the In-

dependents Council in the lake, in a guaranteed wet Tug-o-War. Speaking of wet, the highlight of the day will be some wet chested coeds at the wet T-shirt contest.

You might have heard a rumor of no beer this year. But the liquor inspectors have finally seen the light. Beer will be flowing continuously from 1 till 5 at Lions Club Park tomorrow, bring your Frisbees and drinking mugs and join in on the fun.

The shuttle bus service will be running again this year. You can catch it every half hour at Fraternity Row or the University Center.

The buses will start at 12:30 and end at 6:30. Ride the bus and get home with all limbs intact.

If you don't have your Septemberfest button yet, buy one from a Junior St. Pat's Board Rep at the Hockey Puck for only \$2. The price at the door is going to be \$3, so buy early and save a dollar.

One more thing, when your sitting in class just about asleep or daydreaming make yourself some cash. Think of St. Pat's bumper sticker slogan. Hurry! the contest ends Sept. 28.

Hope to see you at Septemberfest, 1981!!!

Missouri survey says

Travelers spending more

Spending by travelers in Missouri increased 18 percent last year, compared with 1979, in spite of an uncertain economy and a lengthy heat wave. Travelers spent \$3.9 billion in Missouri in 1980, up from \$3.3 billion in '79.

This is the conclusion of a study on "The Economic Impact of Travel on Missouri Counties" prepared by the U.S. Travel Data Center in Washington, D.C. The Data Center, a non-governmental research group, has done earlier studies covering 1977 and 1979, enabling the Missouri Division of Tourism to chart growth and revenue trends in the state's travel industry.

Spending in 1980 generated \$117 million in state tax revenue and another \$47 million in local tax receipts,

according to the study. More than 103,000 Missourians worked in jobs directly attributable to travel spending, with an annual payroll of nearly \$788 million.

The study assesses the economic impact of travel on each of Missouri's 114 counties, plus the city of St. Louis. While travel spending averaged \$33.5 million per county in 1980, seven counties received more than \$100 million in spending and another four counties received more than \$50 million.

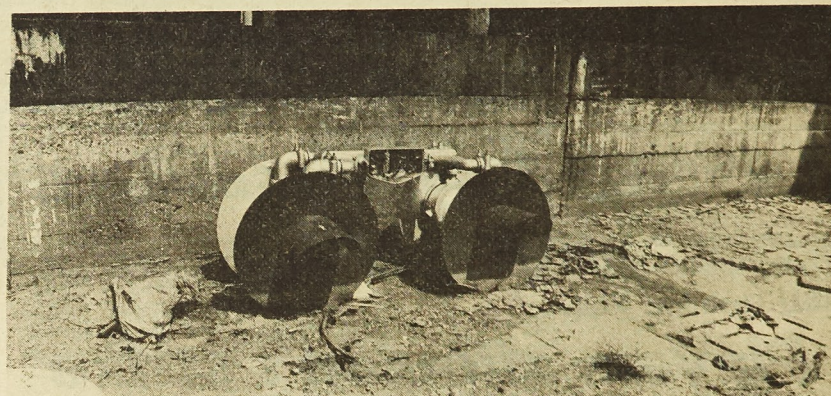
An "average" Missouri county had 900 tourism-related jobs with a payroll of \$6.8 million. Three counties showed a travel-generated payroll of over \$100 million, while eight others had a payroll over \$10 million.

Spending related to automobile transportation

was the single largest revenue-producer in 1980, accounting for 29 percent of the \$3.9 billion total. Other leading categories were food service, public transportation and lodging.

To illustrate travel's economic impact, the study notes that if U.S. travel activity had suddenly ended in 1980, Missouri would have lost over five percent of its jobs and payroll. Further, the loss of tax revenue would have required a \$93 rise in state and local tax bills per family to maintain the same level of government services.

The annual study uses computers to project spending levels, based on figures from the Missouri Department of Revenue and other sources.



New infra-red goggle developed by physics department.

(Photo by Schaeffer)

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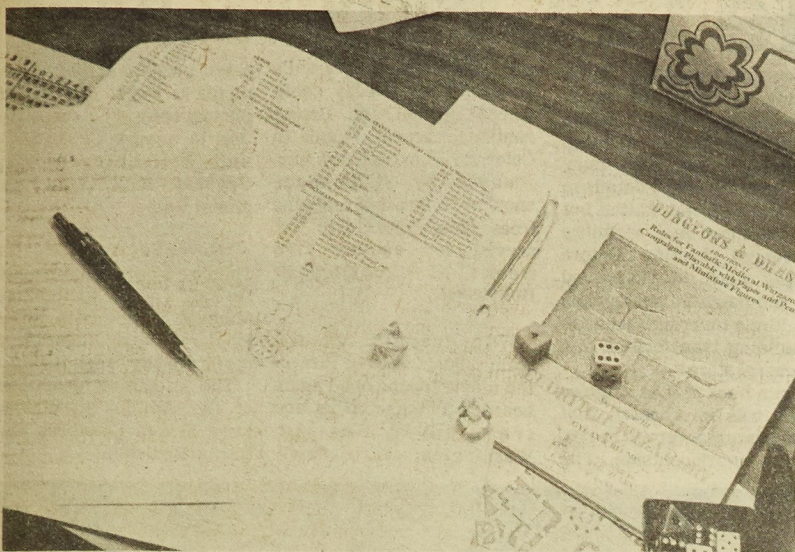
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"Dungeons and Dragons"

(Photo by Alexander)

New film release

Continental Divide

Submitted By:
UNIVERSAL STUDIOS

John Belushi stars in "Continental Divide" as Ernie Souchak, a muckraking reporter for the Chicago Sun Times. After pulling the plug on a crooked politician, Souchak's editor sends him up into the snowcapped mountains of the Continental Divide until things cool off.

The assignment seems simple enough — to write some pieces about a very liberated woman scientist, played by Blair Brown, who researches the American bald eagle.

It's almost more dangerous for him there. She despises reporters. He detests the wilderness. Together, it's hate at first sight. And bears, mountain lions, poachers and a jealous mountain man don't help.

"Continental Divide" is a modern romantic comedy that give new meaning to the words, "adversary relationship."

The movie reteams two filmmakers involved with Universal's award-winning, boxoffice success, "Coal

Miner's Daughter," director Michael Apted and producer Bob Larson. Universal executive-in-charge-of-production was Sean Daniel, also reteamed with Apted and Larson following "Coal Miner's Daughter," and with John Belushi after "National Lampoon's Animal House" and "The Blues Brothers." The film was written by Lawrence Kasdan.

Also appearing are Allen Goorwitz, Carlin Glynn, Val Avery, Tony Ganios and Liam Russell.

Colorado's famed Rocky Mountains became the first location for "Continental Divide" with the cast and production crew housed throughout the foothill community of Canon City. Three weeks of filming here required long hours of travel from hotel to location base camp, a rugged constitution during freezing morning and late evening hours, and plenty of mountain hiking on everyone's part.

For scenes in areas accessible only if you had wings — often at altitudes of nearly 14,000 feet — it was necessary to daily shuttle

via three helicopters with box lunches arriving the same way.

Belushi and Brown arrived in Colorado before the filming began to rehearse with Apted and practice mountain climbing with professionals Bob Culp and Duncan Ferguson of Boulder, Colorado. Consequently, the two stars did many of their own climbing scenes in the film amid terrain that would challenge even an acrobat's faith.

If caution was the order of the day when working on dangerous cliffs, so it remained when the company filmed with mountain animals: these included American bald eagles, a bird of swift and powerful flight; Canadian black bears, who corner Belushi in one of the film's funniest moments and a full grown cougar, with whom the actor shares a memorable screen moment.

See Divide

page 12

Does this "hack" you?

By BOB KOENIG

Today I'd like to discuss a few of the little things that "hack" (for lack of the better that they won't print in the newspaper) me, and probably some of you, off.

For instance dollar bill changers. I recently got a dollars worth of change from a changer turned to the vending machines right next to it and discovered that all, but thirty cents of my dollar was so bent up that it wouldn't fit into the vending machine. Why in the world would a dollar bill changer spit out coins that a vending machine won't take.

Another thing that really gets me steaming is when I and all the guys on our production team over at KMNR spend 15 hours of time to produce a 20 minute broadcast, aired every Thursday at 6:30 p.m. during the New Wave Show, and some of you jerks won't even listen. I tell you Me, ROTC Rob, Uncle Pervey, Cornel Kidaffia, the Rev. Larry Paidwell, Randy Moser and other members of our little group are not pleased. Worst of all one of our biggest sponsors Flab Cola is thinking about dropping their ads. So please tune in and find out where all of my "good" writing has been going lately.

Another thing, those dumb soft drink contests with the stuff under the lid liners. I'm not against winning money, but why do they have to super glue the liners into the caps so you can't tell if you've won anything without using a blow torch. Why I heard that the Infirmary gave out a half a dozen tetanus shots and a few stiches, last week alone, to victims of razor sharp bottle caps. I sometimes wonder if the CIA isn't testing a new method of distributing biological toxins by bottle cap (the Russkie have soft drinks now too you know).

Bar clocks, have you ever noticed that there is some sort of time warp that makes time pass at least 15 or 20 minutes faster inside a bar.

Pay typewriters, you know, the type you drop your dime in the slot and get thirty or so minutes to crankout a paper. Sometimes they only give you five minutes of time, but usually they print a capital D when you hit the capital W key so that the phrase "Worked various crews around the loading docks" come out looking rather strange on ones resume.

Last (for this article anyway), but certainly not least, student housing. Rumor has it that there are

ten or fifteen students living out of the backseat of their cars who had to pay full room and board fees to get a parking space and three meals a day. I personally know of a place off campus that had a real problem with bats getting into apartments that rented for three hundred dollars a month. The residents complained to their landlord. Next month the landlord raised the rent twenty-five dollars sighting the upkeep on the apartment advanced self contained insect removal system.

Well until next time keep your powder dry and don't go off half cocked.



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Continental Divide from page 11

Desolate locations included Brown's small cabin built in a hidden valley of the Sangre de Cristo mountain range. With an eye out for inclement weather (sudden snowfalls were possible), an interior cabin setting was constructed inside a pavilion on the Colorado State Fair grounds at nearby Pueblo City. This entire set was later shipped back to Hollywood for filming inside Universal's soundstage 27.

Another locale used for filming was the majestic Royal Gorge, a few miles outside Canon City, one of Colorado's major tourist attractions. From the George's 7,000 foot summit the canyon walls fall more than 1,000 feet to the Arkansas River.

When filming was completed in Colorado it was a major accomplishment on several fronts, including a union stop-sign that went up before shooting began. "The actor's strike last year put us in a definite holding pattern," says Larson. "John Belushi was set but we couldn't cast our leading lady, and that role was pivotal. We couldn't guarantee start dates, and we knew we might be delayed right into bad mountain weather."

"But we had to shoot atop the Continental Divide since the vistas were essential to the story. We sat it out and pushed things along as well as we could. When the strike ended we moved into high gear to immediately begin production."

With the help of helicopters the shooting pace was accelerated, and the cast and crew worked a full seven days a week. "We were lucky," says Larson, "as soon as it snowed, Indian summer came on and melted everything, so we could continue without a hitch."

The next stop for "Continental Divide" was Chicago, John Belushi's hometown (he was born in suburban Wheaton). With the cooperation of both the Illinois Film Office and the Mayor's Film Office, the film company set up cameras on The Windy City's popular Michigan

Avenue to begin another three weeks of filming.

"Chicago proved to be a wonderfully diverse city," Larson recalls. "It blends a cosmopolitan collection of cultural and entertainment attractions with the traditional friendliness of the Midwest. To the east is the city's breathtaking lakefront, 29 miles of shoreline."

Locales used for the film changed almost daily and included Chicago's "El" (elevated railway), downtown's "The Loop," Richard J. Daley Plaza, Northwestern Station, Museum of Natural History, Art Institute of Chicago and the John Hancock Center Restaurant on the 95th floor (a plane pulling a banner caused much comment when used for a scene in the film.)

One of the most authentic backgrounds for "Continental Divide" was photographed in the actual newsrooms of the Chicago Sun-Times, one of America's leading daily newspapers. On the fourth floor of the building was the corner desk of the film's outspoken columnist played by John Belushi. Another real-life editor's office went to actor Allen Goorwitz who portrays the film's managing editor ("To shoot three scenes we had to work on weekends in order not to disrupt the normal pace of the newsroom," says Larson.)

"I wanted the realism of a real newsroom, and I loved the location," Michael Apted comments. "We couldn't have built a better set." Some of the Sun-Times staff were chosen to play reporters in the film, and they seemed to enjoy their brush with stardom. John Belushi was right at home since many of the newspaper's leading writers are longtime pals.

When there was free time, Belushi and many members of the crew joined the audience to applaud Chicago's well-known improvisational troupe, The Second City, who performs in historic Old Town. The actor is one of

their most famous graduates and on several nights he joined his brother, Jim, on stage to share an improvisational sketch. Belushi also keeps the door open to friends across the street at his alley pub, The Blues Bar (bought during "The Blues Brothers" filming).

A final stop for "Continental Divide" before returning to Universal Studios was in Victor, Idaho, a remote town outside Idaho Falls with a population of 320. Although the climatic train sequence was to be filmed against

snowcapped peaks in Teton Valley, a little too much snow flurry proved to be the film company's undoing. Carpenters had been busy constructing added details to a rustic railroad station but the weather and visibility prevented shooting. Before jetting back to Hollywood the company did photograph the film's marriage scene in a building transformed into a general store.

Once back in Los Angeles there was no concern that temperatures were in the 90-degree mark outside. The

setting inside Universal's stage 27 was a cozy cabin where Belushi and Brown continued scenes begun in Colorado — except now surrounded by studio-made snow and a forest of real pine trees. The impressive set served for another five weeks of shooting in Hollywood.

With the still-climatic train sequences to be filmed, the movie troupe once again boarded a chartered jet and traveled to Seattle, Washington. With sunny

skies prevailing they completed 13 weeks of principal photography at a train station in nearby Cedar Falls and helicoptered atop Crystal Mountain near Mount Rainier.

"Never Say Goodbye," the Theme from "Continental Divide," was written by Michael Small, with lyrics by Carol Bayer Sager. It is performed by Helen Reddy.

The executive producers of the Amblin Production were Steven Spielberg and Bernie Brillstein.



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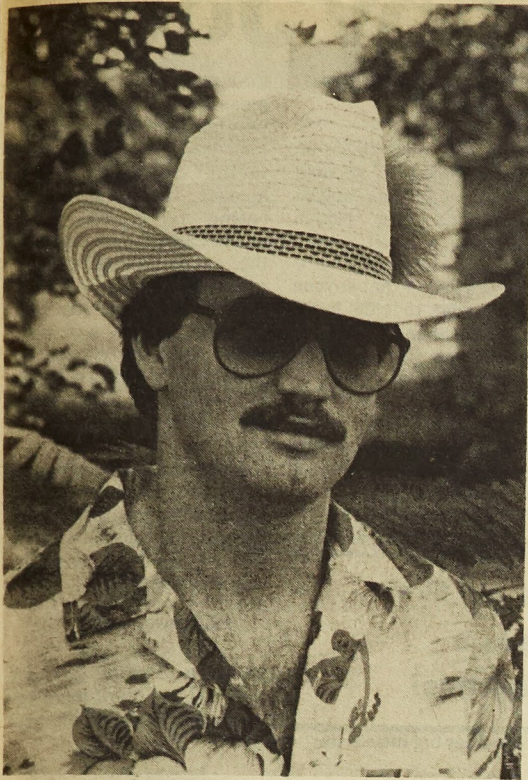
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Joe Miner in Roughriders

By RICH BEE

"Well this certainly couldn't be too hard," Joe thought to himself as he headed for the tennis courts with Dan, one of his brothers who had agreed to teach Joe tennis after he had quit laughing at the request. Joe had watched several matches of the U.S. Tennis Open and figured that it didn't look too hard and that soon he would be out their grunting with the best of them. Besides he was determined to impress Laura since he had told her that he could play.

This time Joe set up for the ball in a batter's stance and, with a two-hand forehand, hit a ball that would have made Hank Aaron proud. Dan and Joe watched it sail out of the court to land in the traffic on 63.

"Joe, what do you say we work on your serve?"

"Okay."

Dan walked over to Joe's side and began telling Joe the proper stance and where to throw the ball, punctuated by demonstrating a couple of good serves.

decided now would be a good time to exit stage right and took off for the EAT house.

As Joe sat trying to catch his breath on the EAT house porch he realized that people were right, tennis was a strenuous sport. Joe wasn't much of a sportsman. Most of his exercise was limited to lifting weights, twelve ounces at a time. He had went out for intramural football, but had quit that too after catching his only pass of the season in the groin. Besides the EAT team was so bad they had a handicap.

Joe went up to take a shower. He had decided to go to the Theta Ta smoker. Joe really wanted to be in Theta Ta. If he could get in, it

would be the first EAT in ten years. Not only that he needed a T-shirt to pick up girls with. Besides they had free beer so Joe had nothing to lose. When Joe arrived at the smoker there didn't seem to be many Theta Tas there. Joe immediately headed for the tapper and got two beers. Then he began to look around for somebody to talk to. He finally ended up in a conversation with a group of ZOEs. They sat around guzzling beer talking about getting into Theta Ta. Finally the conversation drifted into which holiday they would move if they were in Theta Ta.

see Cowboy
page 14

Most of his exercise was limited to lifting weights, twelve ozs. at a time.

"Okay Joe, let's start out with a little volleying."

"Okay," Joe said nodding affirmatively.

Dan bounced the ball and knocked an easy ball into Joe's center court, which, Joe ran at and promptly hit into the net. After trying about a dozen different ways of hitting the ball into the net Dan walked up the net and motioned Joe over.

"Joe, I think I see your problem."

"What?"

"You're totally uncoordinated."

"Thanks!"

"You see Joe, you've got to set up for the ball. You can't be hitting it at full sprint."

"Okay, got ya."

Dan once again hit an easy ball to Joe's center court.

"Okay, now you try."

Joe walked forward, assumed the stance he had been shown, tossed the ball up and hit a serve.

"Pretty good. You might do it yet. Okay, now try to hit it to the opposite corner this time and put a little more power into it."

Joe again assumed the stance, wound up, and served a powerful ball with much too much angle on it. The ball rocketed across to the next court and hit another tennis player full in the face, taking him off his feet. Joe stopped and stood there looking until he realized that the player had gotten up and was now charging towards him brandishing a tennis racket. Noting that he appeared to be about 6'2" and 210 pounds, Joe began to think that tennis may not be as healthy a sport as he had previously assumed and

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"Scooter P.I." Luzr of the Month

By AL OAKES

The Missouri Miner staff has selected Ken "Scooter, P.T." Donnelly as this month's recipient of the coveted "LUZR of the Month" award. Scooter most recently is acclaimed to this honor for his outstanding leadership in the newly founded "Phikers" organization.

But what has amazed us here on the staff is how Scooter came to be the man he is. As a freshman you'd think after failing Math 8 three times he'd quit school. But this didn't annoy Scooter, he made the Dean's List (as a candidate for being chopped from the University). Scooter, a 5½-year Engineering Management Major, is now in danger of graduating. But before he leaves us in only three semesters, he has left us a lot of fond and boring memories.

I'm sure you've seen him at almost every party. He's the man in the Hawaiian shirt, dark glasses and straw hat, scooting from girl to girl saying, "Hey, baby meet you in half an hour" to every girl he sees then after half an hour none of them show up.

At Pi Kappa Alpha Scooter is known as the man with the Golden Finger. His only job on the football team is to hold the ball for place kicks.

As a member of Theta Tau Omega, Scooter's only job was to proofread the calendar. According to Scooter: "I proofread it but didn't make any of the corrections!"

But to top everything is the way Scooter tries to pick up girls. After seeing him in action last Saturday night I can speak from first-hand experience. Scooter was sitting on the porch step of Phikers when he spied her across the lawn. Scooter moved in and whispered a few unknown words into her ear. The next thing I saw was the girl puking on the sidewalk. Scooter asked her if he cleaned the mess up would she go out with him. Needless to say this didn't work.

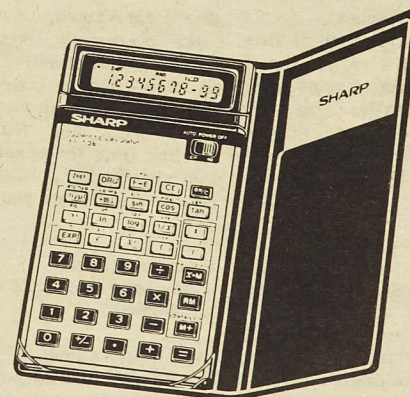
This didn't stop Scooter. No way. He started looking for a girl who hadn't had too much to drink. He found one and whispered the same thing in her ear. This girl punched him out and threw him head-first into the first girl's puke. Upon seeing this the first girl said, "If I mean so much to you that you'd lick up my mess I'll go out with you, but I'll never kiss you. Scooter looked up and said, "See you in half an hour." She never showed.

So Scooter, with talents and accomplishments like this you are the unanimous choice for "LUZR of the Month."

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from page 13

Cowboy Joe



Lucky Snake

(Photo by Bee)

Help Wanted

Dear Help Wanted,

As the first round of tests roll around I realize that I haven't begun to study. With all the parties going on around campus, there doesn't seem to be room for the books. What do I do?

No Student

Dear No Student,

Sounds like the typical 'punt' syndrome. The first few weeks of school are so easy to blow off and before you know it the tests roll around. But there's still time for a few all nighters to try to catch up. Make sure you have plenty of coffee, no doze and coke.

Dear Help Wanted,

I'm a freshman guy here at UMR and I've been looking for a nice girl. Whenever I approach a girl at a party after 5 minutes she takes off with some excuse. I try to be as nice as possible, but they still make a beeline for the beer. What's wrong with me?

A loser.

Dear Loser,

It's true the girls in Rolla like to drink, but a guy should be able to capture her attention for more than 5 minutes. Did you say something crude? Did you use your Listerine? How about a sprinkle a day? Next time be sure not to breathe on her.

Dear Help Wanted,

My roommate likes to study with the stereo cranked. I've tried to cope but calculus will not go into my brain with Ted Nugent blasting from the speakers. I've tried the library, but it's not my style. What should I do?

Dear Going Deaf,

Buy your roommate some earphones.

Dear Help Wanted,

I haven't met a soul at Rolla. My roommate deserts me every chance she gets. When I eat I sit alone. I'm shy so it's hard to get up the

nerve to approach people. Even the Board reps won't ask me to buy a Septemberfest button. What should I do?

Alone

Dear Alone,

UMR can be a lonely place without friends. Even though it's a small school, clicks can be formed and feelings hurt.

Try to approach one person that looks friendly. After one conversation, the next will be much easier. Take it slow, but make it a goal to try to talk to at least one new person a day. You'll be surprised to how fast your circle of friends will grow.

Somebody wondered if they could get away with moving Christmas until they finally decided to extend St. Pat's to two weeks. By the time the conversation had ended and they had filled out their applications for interviews Joe was pretty well looped and ready for the EAT house country and western party.

The brothers had decorated the EAT house like a coral since it required the least amount of work, almost none as a matter of fact. Joe walked over to the bar and grabbed a long-neck, then surveyed the party to find some action.

hell is the matter with you?" demanded Muffy.

"Hey, Joe, you stayed on for seven seconds," shouted Bill. "That's the longest anyone has ever ridden her."

"That's longer than anyone ever wanted to ride her," quipped Stereo, which brought on a wave of raucous laughter.

Muffy turned red in the face and hollered, "You're disgusting!" as she stormed out of the room.

"You pervert. Why did you do that to Muffy?" demand-

ed another big little sister. for the Tom Factor, the unit measure of horniness. A very useful number actually. Like you take a guy's Tom factor times his blood alcohol times the girls' rating times her blood alcohol and you end up with the percent likelihood of making out. Well, anyhow it was fun watching Tom fire. And the girl he was with. Wow! She was enough tot make your modulus of rigidity rise. (They had learned that in Mech a Mat.)

Joe's attention, however, was interrupted by the lithe figure of Laura, who had appeared at the door. he grabbed another long neck and went to gree her.

"Hi, Laura. Beer?"

"Sure. How ya doin Joe. Say did you know there was a parking ticket on your car?"

"Damn, another one."

"Say, what's the matter with Muffy. I saw her heading for Mr. Donut. She looked steamed."

"It's a long story. I'll tell you later. But right now you owe me a dance."

"Okay."

Say, what's a girl like
you doing in a
nice place like this?

Across the room he thought he saw a mechanical bull (by this time Joe was wearing some pretty thick beer goggles) with no one on it. This has to be fun Joe thought. He took off at a run and jumped on to the bull, digging his knees into its side as it began to buck.

"Ride her, Joe," someone shouted.

"Go for it."

"YEEEEHAAA!" Joe shouted as the bucking increased.

"Ride her, cowboy!"

"Get off. MADMAN HELP!! RAPE!!!" the bull screamed.

Wait a second, Joe thought, mechanical bulls don't talk. As it gave one last tremendous heave that sent Joe flying. Joe rolled over and sat up as the bull came towards him. Oh, no, it was Muffy!

"You drunkard! What the

ed another big little sister.

"Say what's a girl like you doing in a nice place like this?" shot back Joe.

Another little sister stomped out of the room.

"Good ride," said Stereo has he lent Joe a hand up.

"Thanks," Joe said as he stood up and took a bow.

Joe and Stereo, who was dressed as Alice Cooper as a formal protest against country music, walked back over to the bar to finish their beers. They assumed their seats and their watching Tom fire on girls. Tom was awesome. He was their basis

"Hey, John! Put on some MOM (make out music)," hollered Joe, as they headed for the dance floor. Had they been watching, they would have noticed that Joe and Laura slow danced to AC/DC.



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To KCUF Staff,
Llamas are people too. So there.

J.D.
Hang in there big fella. Your day is coming no more housework, yardwork or laundry duty. We all love ya.

W. Sod, Jr.

Hey UMR,
You will not find happiness in a bottle, no matter how deep it is.
— An Observant Transfer

To the father of all my children,
Please come home.

Billy Board Rep,
How green do you want me?

The mother of many.

Billy Board Rep,
Want a kitten?

A Dizzy Freshman

Bill,
You're so cute!

A Dizzy Freshman

Maggie

For Sale: One small campus newspaper. Send sealed bids to B.K. at the Miner.

Kim,
Same time next week.

Craig

STU-ENTS OFFER SERVICES

LADIES — You don't have to worry about saying "No" to thousands of sticky macho fingers every weekend or feel you have to stare into oblivion to avoid noticing you're being undressed on campus by nerds' eyes.

You see, Student-Enterprises (Stud-Ents) is concerned about your happiness and we understand your predicament. We're not nerds, we're not macho. We just want you to feel comfortable in every situation and thus get more for your college-dollar.

Our considerate escort will accompany you safely to, from and about town, campus, social events or wherever you desire. Stud-Ents escorts will even study with you and tuck you in bed nights before tests.

We will try to choose your personal Stud-Ents escort to suit your needs, specifications and social interests. Of course, all inquiries are strictly confidential and quite welcome.

For more information call Robert at 364-2427.

Ladies of UMR:

Nominations are now being accepted for the first annual "Hose Queen of the Year" pageant. All ages eligible. First prize will be an all-expense paid trip to Columbia, Missouri for the state finals. The first runner-up will receive 50 lbs. of salami from Hank's Meat Market.

Sponsored by King Lo Enterprises phone 341-9033.

Is it true that the president of Thomas Jefferson Hall Association is on academic probation and has not resigned his office?

A Concerned Student

FOR SALE: The price is right FREE. One very confused software package and its non-implementing hardware. CMS and TSO capabilities when up. If the price is too high: will trade for HP-1000 with programming capabilities. \$500 rebate upon any account number.

Failing Comp-Sci Major

\$100 Reward, no questions asked, for the return of bike stolen from the Rolla-Mo Inn last finals week. \$200 if I get to nail the guy. Call 364-6712.

For Sale: Metal shelves for stereo. \$15. If interested call Sue at 364-6993.

BUSCH \$1.99

a six pack

Thursday & Friday

Burp 'N' Mouse
Cheese & Spirits Shoppe

1806 N. Bishop

Rolla

ID Required

Fire-Breathing Chevy small block, disassembled, for sale. Call 364-6712.

Girls of UMR; now that the summer is just about over, don't miss out on your chance to participate in the latest Co-Ed summertime game — naked twister! No prior experience necessary. Fun for the entire sorority. Classes now forming.

The following advertisement is in response to the growing need of clear-headed gentlemen to help get UMR ladies through this school without (either) seeing the psychologists every other week. Definite trends are beginning to develop and positive action must be taken.

I'm not certain as to the seriousness of Student Enterprises escort services at present but if inquiries are abundant — assuming you will print the advertisement on the next page — and appointments actually made, proceeds will most probably go to charity and steps will be taken with Aux-Ent to make Stud-Ents legal. (Bedtime stories for under a buck!!)

The point is, if Mary Ford has any questions let her know that "Robert, at 364-2427" is Robert Brandom a friend of hers and she gets a discount. If she has any questions.

Thanks a million
Robert Brandom

HELP!! We men of Delta Eta Fraternity have a 21-year-old virgin in our ranks, and we feel it's time he became a man. We are currently searching for an experienced Sexual Engineer (Female, of course) to help us correct this problem. The successful applicant will be between the ages of 18 and 28, and should rate at least a 6.1 on the RCFS (Rolla Corrected Femininity Scale). An interest in Quantum Physics will be a definite plus; and though not essential, a resume and professional references will also be an asset. Salary will commensurate with experience. For further information, or to set up an interview, contact us at 364-3759. Delta Eta is an equal opportunity employer.

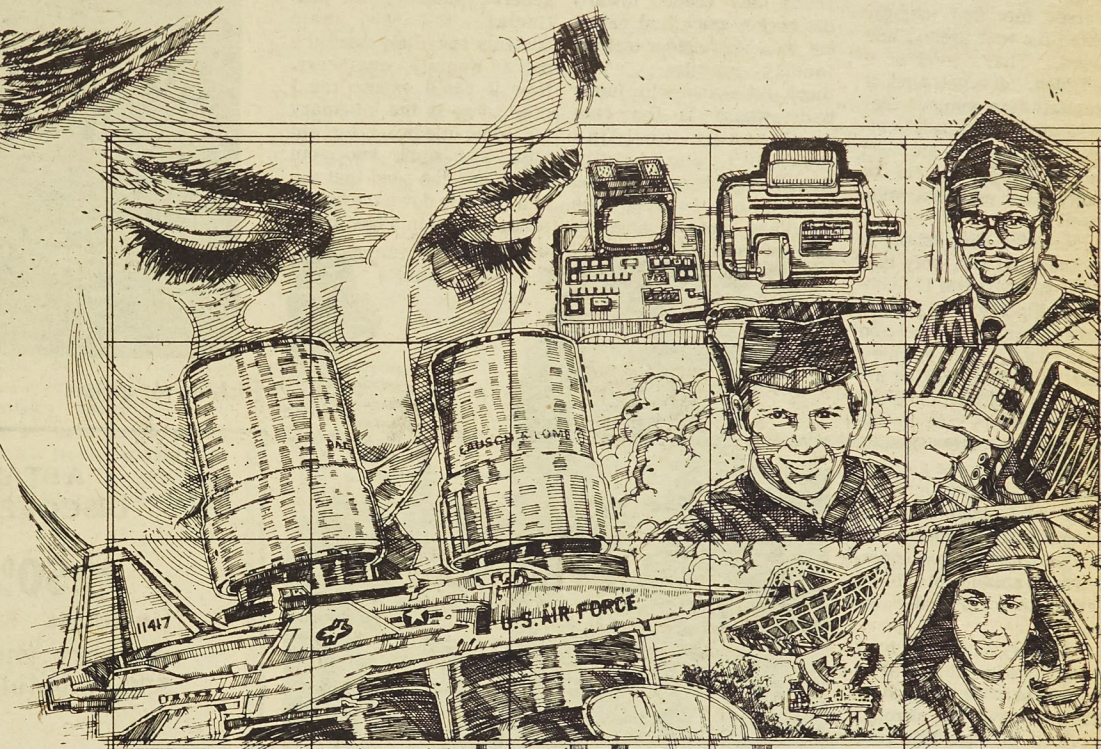
The UMR Photo Club wants members! You need a place to practice and learn your skills. If you've got knowledge or experience don't let it die out! Join the UMR Photo Club on September 17 at 7:30 p.m. in the Meramec Room of the University Center. The presentation at this meeting will be "The Characteristics of the 35mm Camera."

Good Luck Nancy Leg — the best queen ever!
Independents! Hey, are we psyched or what?

To the Miner Football team:

We want you to know that we think you're the greatest and we'll be rooting for you on your game against Pittsburg State.

UMR FOOTBALL Girls



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Manager, Personnel Resources
Joseph P. Williams

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Computer Science	•	•	•	•	•	•	•	•	•	•
Marketing	•	•	•	•	•	•	•	•	•	•

**Representative
On Campus
September 25, 1981**

Buzzoffyagrunt

By E. ZEN BUDDAH

O.K., there I was trying to think of a topic for my story that would interest everybody on campus and yet still be interesting. The big question at the time being, was there such a thing? While I sat there thinking in came my neighbor down the hall with a suggestion to help me out. As he playfully got me in a killer half-Nelson and my neck and shoulder groaned audibly with pain he said, "Why don't you write an article on the lack of female companionship in this lousy fungus culture?" I thought to myself, as I reversed him and jokingly twisted his foot around and around, "That's kind of a good idea." It's got a lot of potential as a subject that would grab everybody's attention, at least the students (and, by george, some of the faculty and administration as well!).

I let his foot drop limply to the floor and ran, only half speed, as my friend (?) hobbled pitifully in hot pursuit dragging his useless foot and kiddingly screamed something about staking me to an ant hill and covering me with honey out in the desert. I missed the details. Finally tiring of the game of chase I ran back into the dorm and slammed the heavy metal (?) door into his face and stared in wonderment as a small pool of blood started to form under the door.

I casually sauntered back to my room intent on putting some form to the many ideas that were swirling through my mind. Is this a dead issue I asked myself? Be serious, I thought, women are never a dead issue to the engineering student (hence the statement "Engineers have more fun, do it better" etc.). I recalled reading in the paper last week in the classifieds' the letter from the "Girls of UMR." Really "girls" the way I see it you have little if any room to complain. Let's just suppose that the tables were turned and there were 5 girls for every guy. I doubt very seriously that you would hear any male student complain that the girls wouldn't quit staring at him like a piece of meat, or that the girls liked him for his body and not his mind. Granted the GPA would undoubtedly suffer (possibly even become non-existent) but what a way to go! As a matter of fact the girls are the ones that should make with the better treatment, the way I see it. Just the other day as I was walking to class I observed a little episode that opened my eyes. A fine looking, rather buxom, blonde headed young lady was obviously having trouble finding her way

around. Enter well meaning (although somewhat funny looking) upperclassman to offer assistance. "It looks like you're having some trouble finding your way around," he said gallantly, "I'd be more than pleased to help you in any way, any little way at all." The blonde, rather buxom, young lady obviously misinterpreted this offer as an improper advance, looked up sweetly at the upperclassman and firmly said "Buzzoffyagrunt." The upperclassman proceeded to sort of shrink up and climb down into a crack in the sidewalk. Then the well-mannered, quite buxom, young lady headed toward the hockey puck and called out to a short older-looking faculty member, "You there, little man with funny hair, where is the civil engineering building located?" The faculty member told her quickly and slinked off between the buildings before anybody saw how red his face was.

Now we all know that all UMR women don't call people grunts and act snobbish and conversely all UMR men are not beady eyed wolves. It is impossible to generalize about a group of people like a student body. But if your girls insist that you want it better than you already have it I have a suggestion. Invite all your female friends, (enemies for that matter), cousins and anybody else you can think of to become students at possibly the fastest rising small college you'd ever want to find (that is UMR) and become educated. After all if there's one thing the world in general, industry in particular, and 5000 male students specifically need it's more Female engineers. Now if you'll excuse me I need to go to the infirmary for some medicine for ant bites and some knock-out drops so I can send that son of a fishwife down the hall to south Yemen in a box marked "Venison."



She's been hiding.

(Photo by Gieseke)

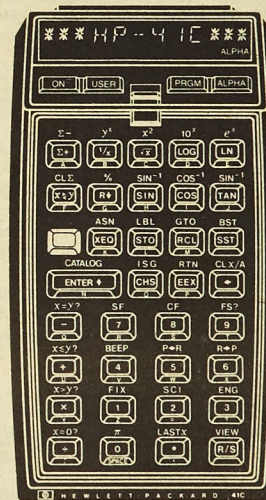
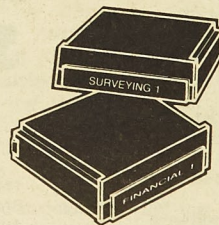


Fishing for girls.

(Photo by Alexander)

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Includes baked potato or fries and Texas toast.

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Probation in the year 2000

By DON READER

"Beep-beep, beep-beep." A lovely face flashed onto the screen covering the far wall in the opulent office.

"Dean, there is a student to see you," came the voice from the screen. "It's a request for re-admittance to the Computer Science department."

"Very well, Ms. Scott. Key up his file and send him in." The numbers and letters flashed across the small screen on the desk:

MINER, JOSEPH T. JR.
STUDENT NUMBER:
936368-264-36D

MAJOR: Computer Science

MINOR: Underwater Basketweaving

HONORS PROGRAM: Science

CLASS: Freshman
G.P.A.: 1.0

ACADEMIC STATUS: Dropped from the University, 2nd quarter on Scholastic Probation.

The list went on. Not very good, though Captain Video. If his father weren't president of the alumni association I wouldn't even see him. Just then a glowing light appeared in the middle of the office. Within milliseconds it began to take on the form of a human being. When the

glow faded all that remained was the small thin form of a pimply-faced young college freshman.

"Please have a seat, Joe," said Captain Video as a rectangular cube rose from the floor in front of the desk. "I have just been studying your record and I am afraid it doesn't look very good. Can you think of any reason why I should let you back into school?"

"Well sir, I really think I can do better next semester. I have had a little trouble adjusting to life here at UMR. It is not at all like the way my Dad described it."

Well, things had changed a lot in the last twenty years. Here it was September, 2001 and most of Captain Video's plan was complete. Enrollment was now just over 25,000 students, over half of which were female. All the classrooms on campus had been converted to dormitory space and a thirteen floor office building now housed the faculty and staff, underground. Many of the students now live in Norwood, Parker, Mechanical, and Fulton Halls, part of the Quad II dormitory system. They bought all equipment, supplies, personal and entertainment items at the University Department

Stores, East and West. They took meals intravenously at the UMR Medical Center Cafeteria and played intramurals at the new Mental Sports Complex. The old Multi-Useless building still stood and was used by the die-hard physical types but was not maintained at all. (Or was that really a change?) Instead of going to classes, all students were now required to purchase a Personal Entertainment and Scholastic Trainer, a sort of two-way television and computer terminal. With this instrument classes were now taught directly from the professor's office to students in their rooms. Student PESTs could be used for many different purposes, including communications, library use, homework, video games, getting KMNR-TV for the latest in Progressive Video-Rock, getting buzzed on Time Warp and other electronic drugs, as well as watching M-A-S-H on the Rolla Commercial Cable Network. Of course you had to be twenty-one to buy a minute of Time Warp but most everyone had fake I.D. numbers. The PEST could also be used for observing possible trouble-makers surreptitiously, but only to a limited degree. We will have

to work on that, thought Captain Video.

Well, back to the problem at hand. "You know, Joe, to use an old saying from your father's era, 'We never promised you a rose garden.' After all, we must prepare many students for the U.S. Corps of Engineers and Scientists, the backbone of our national defense. Therefore, the competition is extremely great and I will need a very good reason to let you back in. Unless of course you wish to change to a non-technical major. What about your minor, underwater basketweaving? I understand that is a field in high demand today."

"Uh, well sir, I really want to be a Computer Scientist, a problem-solver. It's all I ever wanted to be. And I don't want to disappoint my Mom and Dad," said Joe sincerely.

"Oh yes, your father graduated back in '81 with a B.S. in Engineering Undecided. He's now Vice-President of Apple Business Machines and president of our alumni association, is that right?" asked Captain Video innocently.

"Yes," said Joe, "and Mom was a comp-sci major until she met Dad at Septemberfest and they had Sis nine months later. Of course Mom got her M.R.S. degree before that so everything was O.K."

"Well, what seems to be the problem Joe?" Captain Video ventured, "Is there some problem at the fraternity you are pledging?"

"Well, uh, sort of. You see it's kind of personal. My roommate and I are having problems and I am afraid it has affected my ability to get my studying done."

"I see. Could it be you only have sex a few times each week?" asked the Dean.

"Oh no sir! Quite the opposite. You see, she is a nymphomaniac. I never have time for anything else. I barely get my pledge duties done when she drags me off for a heavy session of lovemaking. And I can't turn her down, because she's an active and I am only a pledge. So I can't ever get any studying in and I am always worn out. She just never lets me get any rest. What am I going to do

Dean?"

"Well, Joe, you do have a bit of a problem. I suggest that you go over to the Med Center for a shot of vitamin E. I will call your roommate in for some counseling and suggest that she sign-up for sexual reprogramming. This could be a problem that will affect her academic career as well. I believe you do have extenuating circumstances, Joe, and I will see that you are reinstated for next semester, on probation though of course."

"Oh, thank you Dean. I really appreciate this and I won't let you down," said a very relieved Joe.

"That's quite all right. Just study hard and try to keep her satisfied. Oh, Ms. Scott?"

"Aye, Captain?" came the sultry voice as the lovely lass flashed onto the visiscreen.

"One to beam up, Scotty, and then hold all my calls, except from Star Fleet Command. It's time to play a little Space Invaders." Ah, if Mr. Spock could see me now.



Danger; hard hat area.

(Photo by Alexander)

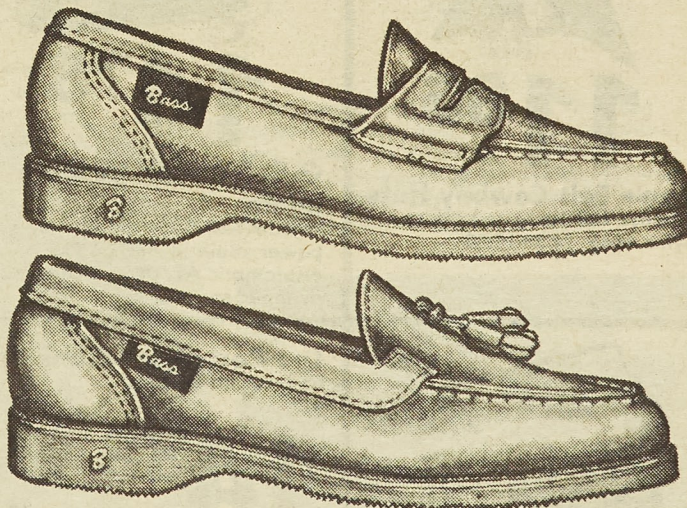
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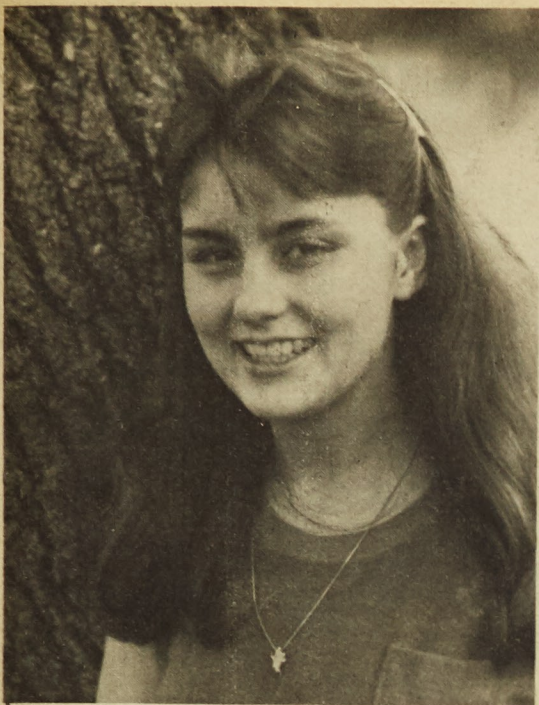
This semester requires a new look in addition to new teachers, new friends, and new courses. Today the look is clean, wholesome, "All-American".

The look is Bass® pure and simple. Check out our new fall collection of Bass® shoes for men and women. And start off the semester on the right foot.



Williams Shoe Store

712 Pine Rolla 364-1365



Nancy Lea Jones
Campus Club

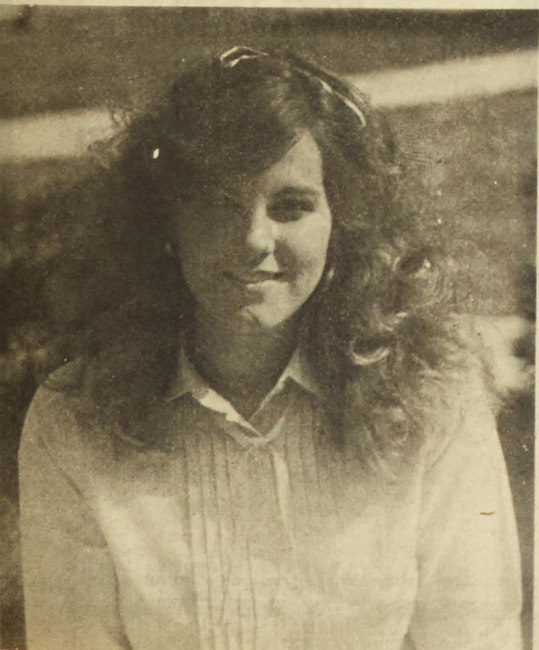
We, the members of Campus Club, are pleased to present, as our Independents' Queen candidate, Miss Nancy Lea Jones. Miss Jones is a junior in mechanical engineering and a member of ASME, Phi Eta Sigma,

and BSU where she works on the student opinion poll. A former member of RHA, Nancy has been staunchly independent for the whole of her college career. We feel that Miss Jones is a fine representative of the independent of UMR.

Kimberly Breier
MHA

Kimberly Breier, MHA candidate for Independent Queen, is a second semester freshman in engineering at UMR. Originally from St. Louis, the daughter of Mr.

and Mrs. Kenneth Breier, she now lives in university housing at Carnahan Hall. Kim enjoys tennis, outdoor sports, cheerleading, and horseback riding.



Independents' Weekend 1981 Queen Candidates

Independents' Weekend Starts off right

Submitted By
INDEPENDENTS
COUNCIL

The Independent's Council invites everyone to enjoy Independents' Weekend 1981 this Thursday, Friday, and Saturday, September 17, 18, and 19. The weekend has a variety of activities planned so there's sure to be something for everyone.

To start things off right, RHA is sponsoring a hayride and bonfire tonight. Tickets are \$1.50 in advance or \$2.00 at the gate. The ride begins at 7:00 east on Highway 72 and follow the signs which are posted along the way.

Tomorrow, Friday, Independents' weekend continues with a street dance sponsored by TJHA, MHA and TEC. The dance features the band "Amaretto" and is from 8:00 to midnight, in front of Tech-Engine Club. (In case of rain the dance will be at the armory.)

Saturday, the fun continues at Lions Club Park,

where the Games are held. The Games are sponsored by GDI and feature Mushball, Tug-of-War, Obstacle Course, Keg Toss and Chug Checkers. These are great events to watch or participate in. All Independents should join in and help their organization win the Participation Trophy.

Of course, there will be lots of good food and drink. During the Games, Independents Council will be selling Bar-B-Qued pork steak, beans and chips for a mere \$1.75 per plate.

Finally, Saturday night at 8:00 p.m. Campus Club is hosting the Independents' Queen Coronation and Dance. The six candidates previously judged at the Queen's Tea will be present for the awards presentation, Participation Trophy announcement, and Independent Queen Coronation.

So come on out and declare your Independence this Thursday, Friday and Saturday during Independents' Weekend 1981!



Beverly Rumping
TJHA

Thomas Jefferson Hall is proud to announce Miss Beverly Rumping, from South St. Louis County, as their candidate for the 1981 Independents' Weekend Queen. This beautiful, green-eyed, blonde is a freshman majoring in mechanical engineering and is active in

many TJHA activities including the social and intramural committee. She enjoys playing club soccer for UMR, art, drawing and bowling. She hopes to become further involved with TJHA and campus activities in the future.

Jodi Eisfeld
GDI

Jodi Eisfeld, a freshman in engineering undecided, has been chosen as GDI's Independents' Weekend Queen candidate. Originally from St. Louis, Jodi now lives at

TJ Hall and is active in GDI's activities. In addition to her activities at school, she enjoys horseback riding, camping, and other outdoor activities.



Lorna Jean Platt
RHA

Lorna Jean Platt, daughter of Mr. and Mrs. Bruce Platt of Salem, Mo., has been chosen as RHA's candidate for Independents' Queen. As a sophomore majoring in metallurgical engineering, Lorna still finds time for outside activities. She lettered on UMR's tennis

team, and is on RHA's Board of Governors, as well as being on the Judicial Board. Among her other interests are drawing, the piano, and playing many sports. Lorna proved her independence when she de-pledged Kappa Delta.





From left to right: Hatha Yoga, Raj Yoga, Karma Yoga, Jap Yoga, Mantra Yoga, Kriya Yoga.

Yoga, anyone?

by Bob Koenig

Yoga classes will start this fall with an introductory lecture by Ddr. Shamsheer Prakash, professor of Civil Engineering at UMR. the lecture will be held on Wednesday, Sept. 23, at 6:30 p.m. in the Centennial Room, 2nd Floor, University Center-East, UMR. There will be a demonstration by a former Yoga student of Dr. Prakash and possible audience participation in the exercises. those participating will need to bring mats and wear comfortable exercise clothing.

Dr. Jeff Imes who is employed at USGS will teach Yoga classes starting Monday, September 28, at 6:30 p.m. in the Missouri room, 2nd Floor, University Center-East, UMR. the lecture and classes are sponsored by the Self-Improvement Exercise Group of Coterie-UMR and

are free and open to the public. Information can be obtained by calling Paula Koenig at 364-3170.

Dr. Prakash, who is from Roorkee, India, has taught Yoga in many countries besides his native India and the U.S.

A description of Yoga, written by Dr. Prakash which follows should answer many of the questions readers may have.

Yoga has attracted the attention of a large number of people in all walks of life throughout the world. Dif-

ferent meanings have been associated with "Yoga" by different people.

See
Yoga
page 23

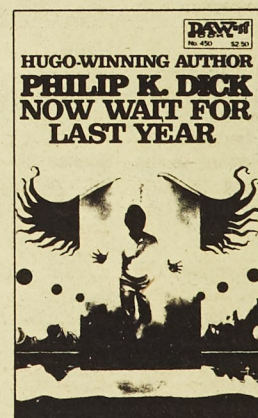
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Through the looking glass

By RICH BEE

Bill slapped at his loudly buzzing arm until it stopped. Geez, his head hurt due to a physics 24 induced hangover. Actually it was induced by spending the evening after the test at 209 trying to forget the test, but, it was a direct consequence of Physics 24, therefore it got the blame. Bill forced an eye open ignoring the pain from the blaring sunlight to check the time. Damn, 11:05. Had to get up and go to Physics Recitation, not because he wanted to but he had to get his test back.

Bill sat in class nothing the number of other people in his condition. he really dreaded coming to this boredom festival headed by a professor that made Ward Cleaver look like an exciting speaker and a book that set physics back a century.

He really dreaded coming to this boredom festival.

Professor Schaeffer walked into class and lectured 10 minutes on getting the test back before actually handing it back. Wow! Someone got a 98. Bill waited in anticipation for his test.

"Bill Miner."

Bill stood up and reached for his test. A 48! Oh, no! Couldn't be. Bill began thumbing through his test looking for an adding error. What was this -2 for getting the date wrong?

"Any questions?"

Immediately a hand rocketed into the air. Of course it was the person with the 98.

"On problem 3 in the second part ... blah, blah, blah." Bill tuned her out as her question became increasingly irrelevant to his predicament. And became more engrossed in looking for extra points.

-2 for not circling his answer, -10 for an adding error. Bill occupied the rest of the class trying to figure out what he had done wrong and fighting sleep induced by the professor's hypnotic monotone.

Bill trudged into his room and threw his books at his desk.

Brad was there doing some problems and listing to the Who.

"Well? What did you get?"

"A goddamned 48."

"You know what I'd do. I'd go talk to the professor. That usually gets them and you could probably get a few points."

"But man, he took off for anything he could, he's not going to give me any points. Besides that, I'd need a hit of speed to talk to him for longer than five minutes."

"I'm telling you Bill, go talk to him. It usually works. Besides what have you got to lose?"

"You mean besides my sanity?"

"That's already seriously in doubt, Bill."

"Okay! I'll try it! But after a beer."

Bill picked up his wallet.

wires hanging in bundles between odd-looking cabinets, covered with dials and switches and walked around looking for signs of human life until he came to another doorway which led to another room; that looked like the last. Bill walked around looking at the various machines wondering what they did. Before Bill realized it he was threading his way through a maze looking at the machines and for the professor. Then the lights dimmed and attempted to rise then were extinguished completely.

tinguished completely.

Bill waited a few seconds for them to come back on before he began to wonder if he could find his way out in the dark. Then panic set in as Bill turned around and began to hurry back the way he came. He tripped over a bundle of wires and fell headlong into a machine. The blow to his head, aided by the beer Bill had drank, dazed him momentarily. Bill stood up, shook his head and realized he was more disoriented than before. He

regained his cool and began feeling his way along in hope of finding a door. Bill con-

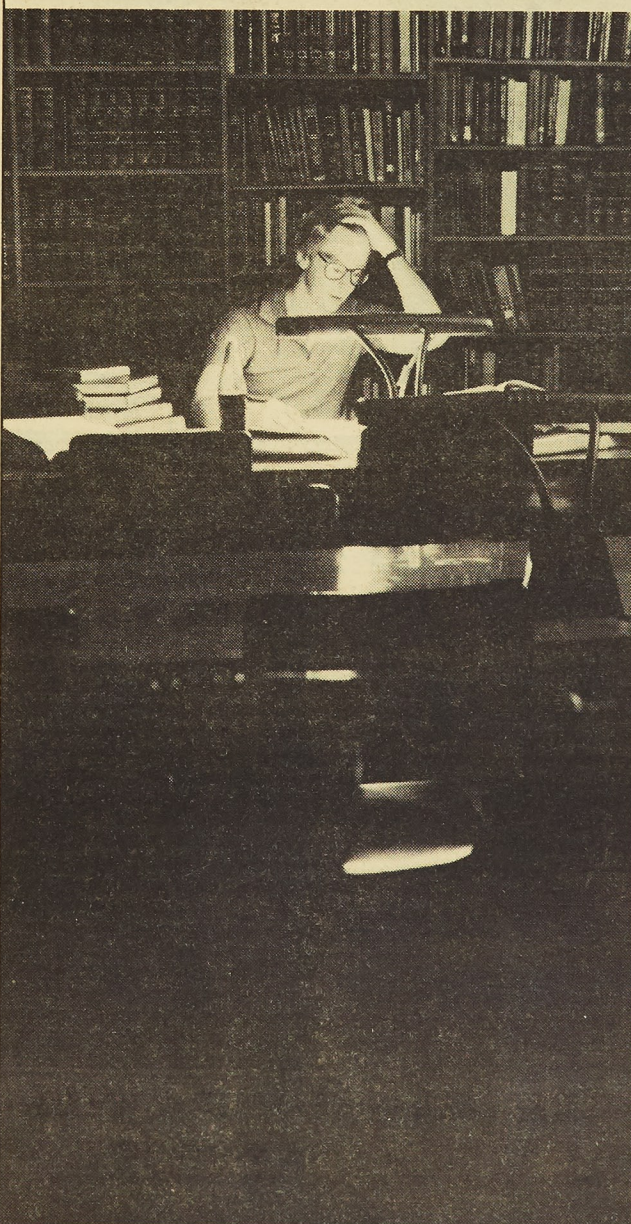
tinued feeling his way along the maze for a couple of hours going through one doorway, though not sure it was the right one until finally he sat down with his back against a machine to ponder his situation and wait in hope of the lights coming back on and fell asleep.

Topside it is Saturday, Brad hadn't saw Bill since Thursday evening. Having

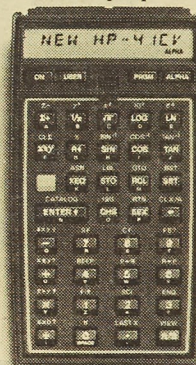
checked 209 to make sure Bill wasn't still there and anyplace else Bill might have gone. Brad began to get worried. Maybe Bill had picked up a girl and was at her place. Nah! Not Bill. This had the makings of something serious and there was only one man that could tackle a job like this. Brad went to the phone and dialed the number of Scooter P.I.

Stay tuned!

If you're going to take excruciating science courses, you'll need all the help you can get.



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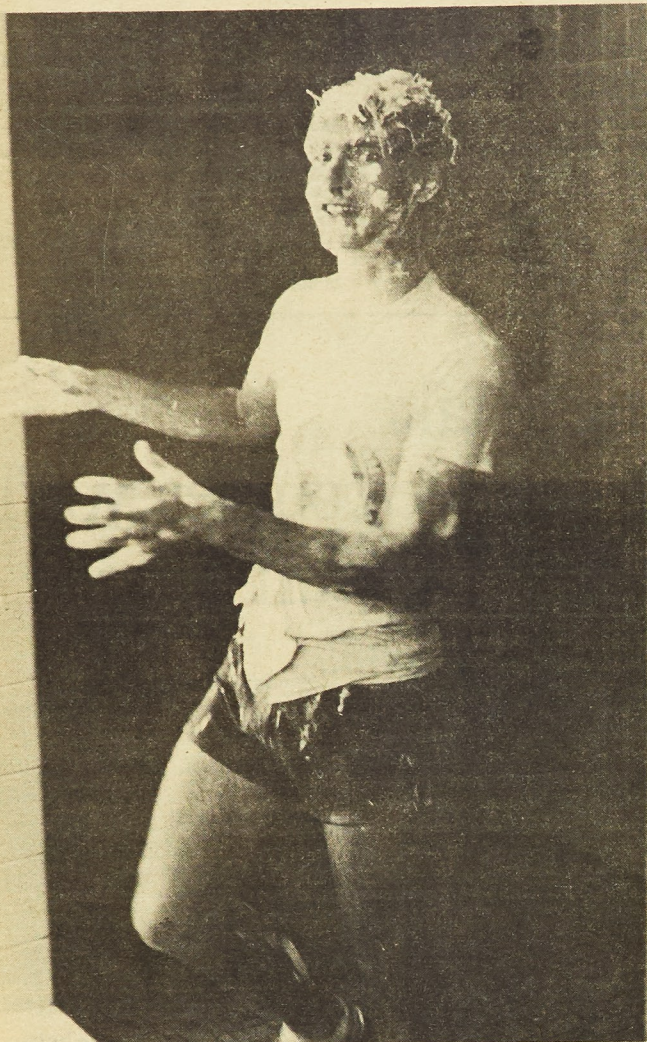
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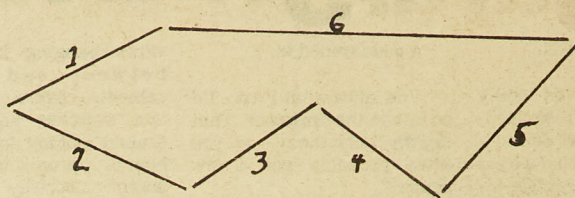
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Game Page



Warning: Do not shave if you're going to shower. (Photo by Alexander)

Connect the Lines!



F.E.

Dollar Night

By LINDA SWEENEY

What can you do in Rolla when all you have is a single dollar? You can do your laundry, buy a beer, or take in a movie on Tuesday night buck nights at the Ritz Theater or the Uptown Theater.

With the Ritz at 8th and Rolla Streets and the Uptown at 11th and Pine Streets, even the careless student can make it to a movie on time. But if you do happen to lose your way on Rolla's busy roads, you are sure to be able to find the theaters by the way the lines have a tendency to become mobs blocking the traffic.

Movies are shown at ap-

proximately 7:00 and 9:00 each night, depending on the length of the feature. Yet, due to the popularity of buck nights, tickets go on sale at 6:30 for the first show at both theaters. Tickets for the 9:00 show can usually be bought when the first show sells out. The Uptown, however, generally does not sell their second show tickets until around 7:30.

"Arthur" and "Endless Love" are expected to be shown at the Uptown in the coming weeks.

While the Ritz will be showing "Heavy Metal," "Arthur," and "Victory." The

dates of these movies are not confirmed however.

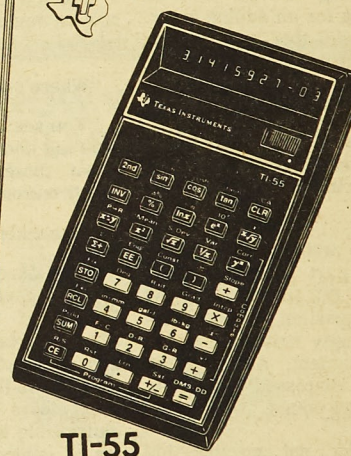
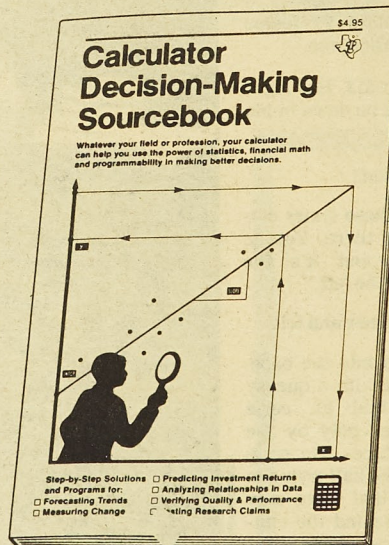
If the movie is popular, the tickets are usually sold out within an hour. The competition for the 700 seats at the Uptown and 400 seats at the Ritz can sometimes be quite fierce. Due to this fact, the Ritz has restricted the number of tickets that a single person can buy to five.

Another new rule at the Ritz is that no outside food or drink will now be allowed in the auditorium.

The manager of the Uptown Theater cautions the students that if the crowd gets too rowdy or starts throwing objects, then they might stop showing movies for only a buck.

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Yoga, anyone?

from page 20

The first question, therefore, that will be examined is: "What is Yoga?" Yoga has at various times been identified as Hatha Yoga, Raj Yoga, Karma Yoga, Jap Yoga, Mantra Yoga, Kriya Yoga, transcendental Meditation, Kundalini Yoga, Awareness and Tantra Yoga (Siddhis), and "Traditional" versus Modern Yoga" or, for the want of a name, as "My system of Yoga and "Your" system of Yoga. Such appellations are not indicative of "yoga", because there is only one Yoga. There are no two Yogas.

The fundamental approach to Yoga was established by the Rishi Patanjali, who formulated it into eight progressive steps. The word "Yoga" literally means "Union" of the "Supreme soul" with the "individual soul". This is not a simple concept to understand in the beginning, therefore, before getting lost in definitions, we will examine in the order of their development the eight steps of Yoga which are:

1. YAM (Do not's)
2. NIYAM (Do's)
3. ASANA (Posture)
4. PRANAYAM (Breath control and control of vital force, the "Prana")
5. PRATYAHARA (Withdrawal)
6. DHARMA (Fixation)
7. DHYAN (Concentration)
8. SAMADHI (Ecstasy)

The first two steps consist of ethics for the individual in specified "Do not's" and "Do's," e.g., "Do not tell a lie" is a Do not, and "Love thy neighbor" is a Do. It will be appreciated as one proceeds with the serious study and practice of Yoga that it is Universal. It is not meant for any particular set of people or for a particular religious group. The teachings and practices in Yoga are Universal and do not conflict with one's individual beliefs. Therefore, Yoga is meant for everyone, the Hindu, Muslim, Christian, Buddhist, Jew, etc., and for the young, old, and men and women, alike.

The third step is "Asana", the posture, which is a term from "Hatha Yoga". This is to keep the body in a physically fit condition. It will thus be seen that "Hatha Yoga" is one eighth of "Yoga", and it is not the whole of Yoga. Therefore, when you learn "Asanas" only, i.e., "Hatha Yoga", you get only partial benefits.

There are two basic philosophies of "Asanas". In

one, there is a great emphasis on keeping the spine supple and flexible; in the other there are "Asanas" for every limb of the body starting from the head to the toes. The spinal chord is made up of several (over twenty) bones connected by tissues and muscles. Therefore, the asanas are devised in pairs, e.g., bending the spine in one direction and then in the opposite, as illustrated in Figures 1a, b and 2a, b, respectively.

Figure 3a illustrates the Sarvang Asana and Figure 3b the Bhujang Asana. These two Asanas are complementary to each other. Similarly, there are several other pairs of Asanas for the spinal chord.

Figure 3a illustrates one of the most important Asanas, (the Sarvang Asana) which is a posture that literally tones all the limbs of the body, because it stimulates the thyroid gland. Although the Rishis, who had devised these Asanas, were not as knowledgeable as the human anatomy in as much detail as we are today, they, by observation had learned the importance of this Asana and hence named it "Sarvang" (for all limbs of the body).

In a similar manner, there are postures and exercises for all the parts of the human body. It is to be remembered that for physical fitness, food and the intake of water play a very important role along with physical exercise of any kind. Therefore, the question of wholesome food and drinking water are linked with physical well being. We do not mean to suggest that one needs to give up one's favorite foods, e.g., hamburgers, steaks, and such, but the philosophy is to add wholesome foods to one's diet. This is a much wider question and needs detailed examination. The test of physical fitness is: 1) regular, daily, bowel movement, 2) no colds, 3) no cough, and 4) no headache at all.

In asanas, the Shavasana (the dead posture) (Fig. 4) plays a very important role. If tired, one does the Shavasana and regains all the energy back to the system. While doing Asanas, one does not tire the body at all. Therefore, he ends up as fresh or even fresher than when he started. Therefore, it is advisable to do the practices after a bath. A healthy and fit body is then ready to proceed with advanced practices of Yoga.

The fourth step is PRANAYAM. In this step, a student of Yoga sits in a comfortable posture, e.g., in a Sukhasana, which is an easy

cross-legged posture or Padmasana (Lotus) posture (Fig. 5) and practices breath control first and then controls the vital force, the "pranic energy". There is more than one type of breathing in Yoga: the diaphragmatic breathing, abdominal breathing, alternate breathing, fast and slow breathing, and so on. There are different meanings and advantages of each of the different types. By taking a long breath in, one takes in a lot of oxygen, which is necessary for purifying the blood. Also, when one exhales a long breath, he expels the polluted air from his lungs. This much is simple. The first thing to determine is whether one is

The "prana" may be likened to energy stored in water behind a dam. When the water is forced from a height in a fast manner through the turbines, it is capable of generating large quantities of energy. As one does not see energy in water stored behind a dam, he does not see "prana" in the breath while doing a Pranayama, but both the water and breath are full of energy, which is not dependent on the chemical composition of either one. Also, the mental faculties (thought) are directed in a particular fashion both in Pranayama and in Shavasana. Thus, the Pranayama is both physical and mental, i.e., physically it tones the

gram for all humanity without distinction of caste, creed, race, sex, or age.

The other four practices, e.g., Pratyahara, Dharna, Dhyan, and Samadhi have been termed "spiritual" in character. Let us try to understand what is meant by "spiritual". We understand our mental activity a little bit. For instance, we remember that we have to go to work, also where we have parked our car, as also where we have left the keys of the car, and how we are to reach our home. We have stored this information in our brain (or mind), and by application of our mind to a particular subject, we can recall a certain technique or event. This is how we achieve all "stored" knowledge in schools, workshops, and at work. Now thought (or mind) can be trained to pay attention to certain happenings and to ignore others. We sometimes ignore certain events happenings in front of our eyes, because "we have not paid attention". What exactly is "paying attention"? It is applying your mind to that event. Thus, by applying your mind to your eyes and ears, you see and hear

something happening around you, and then this is stored as memory. One extreme case is when you do not apply your mind to anything, then what is the state of your mind. If there is no registration of anything in the memory, we call this state "beyond mental". If you are aware before entering this state, then it is "spiritual", otherwise it is a state of ignorance. The last four stages belong to a state of either "directed thought" or "beyond thought" and, hence, these are called spiritual.

Thus, Yoga is all enveloping, i.e., physical, mental, and spiritual. Therefore, to derive the maximum benefits from Yoga, one has to start a serious and regular practice either with a teacher or on one's own and then he will find that the practice of Yoga is interesting, easy, and refreshing. It results in integrated development of the individual physically, mentally, and spiritually. This is reflected in increased efficiency in day to day work of a householder, happy and cordial family life, and cheerful disposition of the individual.

"What exactly is 'paying attention'?"

breathing properly. If both lungs are not exhausted and refilled with each breath, he is not using his full capacity to breathe properly, and stale gases and air stay in a portion of the lungs and are not put to good use by the body. A still more important fact, which is not always appreciated, is that the breath is a vehicle for the "prana", the vital force, which is put to good use by Pranayama.

system of purification of the blood, by prana, the vital force, and relieves one's mental tension and worries by directing the thought away from them and towards certain processes, leading to relaxation. Thus, one tends to achieve, along with a physically fit body, a state of mind that is free from worry and tension. Again, it will be appreciated that this is a Universal pro-

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FOR
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906 Pine Rolla

Kickers go to 3-0 with win over SMS

By JOHN JOHNSON

University of Missouri-Rolla soccer coach Paul McNally knew senior forward Pat Becker (McCluer North High School) was having a great night during the Miners' 4-1 victory over Southwest Missouri Sept. 12. He just wasn't aware how great.

"Pat was having an excellent game and all of a sudden I realized he was thinking about a hat-trick and really hustling to see if he could get that third goal," McNally said. "He was making some great plays out there and really gave everyone else on the field a big lift."

Becker never scored his third goal, but his two scores helped lead the Miners to a

come-from-behind 4-1 victory over the Bears, lifting UMR to 3-0 on the season.

"It sure feels good," McNally said of the Miners' fast start this season. "But we really have our work cut out for us this week."

After traveling to Joplin Sept. 15 to play Missouri Southern, the Miners are set to host nationally-ranked University of Missouri-St. Louis in a 7:30 p.m. contest Sept. 19.

UMSL was ranked fifth in the nation in a pre-season NCAA Division II poll.

Can the Miners defeat the Rivermen?

"It will be tough — no mistake about that," McNally said. "we defeated Washington University

earlier in the season, and they usually give UMSL a tight game, so we have a chance.

"We just have to really be ready for the game and continue to play excellent soccer. So far I've been very encouraged by the team's play and the community and student support, and we will need both of those things if we are to win Saturday night."

That contest will be "Family Night," with the head of the family paying the full \$2.50 admission charge and all other members of the family admitted free.

The UMR soccer field is located directly south of New Jacking Field near Route 63 and Tenth Street.

Sports

Thursday, Sept. 17, 1981

MISSOURI MINER

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Intramural update

By JOHN DANIEL

Intramural golf, tennis and football are underway while action in racquetball billiards and swimming will begin in the next few weeks.

The first half of golf was played Sunday and that sport will be completed this weekend. Meantime, double elimination tournaments in singles and doubles tennis began on Tuesday. Intramural football is now into the third week of play and is

nearing the middle of the season.

Students are reminded that entries for racquetball are due on September 23 and billiards entries must be in by September 24. Swimming entries are due on October 3 and the meet will be held on October 7-8.

The athletic department has announced that the west intramural field will be used by the UMR Band on Monday through Friday from 4:30-5:30 in the afternoon.

The department will also make an effort to publish in each Miner the weekend schedule for the gym and swimming pool. This weekend the gym will be open on Saturday from 10 a.m. to 7:45 p.m. and on Sunday from 1 p.m. to 4:45 p.m. The pool hours on Saturday will be from 12 p.m. to 7:45 p.m. while Sunday's hours will be the same as the gym hours.

Following is the football standings through Monday evening.

DIVISION I

League I

Sig Ep	2-0
TKE	2-0
KA	2-0
Wesley	2-0
Sig Pi	0-2
RHA	0-2
MHA-East	0-2
Campus	0-2

League II

Pi KA	2-0
Beta Sig	1-0
Sig Tau	1-0
Kappa Sig	1-1
Phi Kap	1-1
Sig Nu	1-1
Tech Eng	0-2
TJHA	0-2

DIVISION II

League I

Lambda Chi	2-0
Delta Sig	2-0
ROTC	1-1
AE Pi	1-1
CCH	1-1
Newman	1-1
Acacia	0-2
Pi Kappa Phi	0-2

League II

ABS	2-0
Econ Club	2-0
Triangle	1-1
GDI	1-1
Delta Tau	1-1
BSU	0-1
A Phi A	0-1
Theta Xi	0-2

Harriers rout UMSL

By DAN BROWN

This past weekend the UMR cross-country team traveled to St. Louis to compete against the University of Missouri-St. Louis. The Miners began their 1981 season in grand fashion; sweeping the first fifteen places. That's right, UMSL's first runner could only manage to take sixteenth.

Even more impressive was the fact that the top seven runners for UMR

finished the five mile race under twenty-seven minutes. The Miners were led by senior Mark Stucky (26:22) and Jim Bullard (26:26). Joe Henze, Dave Moore, and freshman Jeff Peterson finished in a three-way tie for third at 26:40. Pete Lichtenwalner looked very impressive in this his first meet in two years. Pete finished sixth with a 26:51. Ron Clark rounded out the Miners' top seven in a time of twenty-seven flat. Other Miners and their times include: Clint Campbell

(27:17), Kevin Stock (27:34), Scott Giltner (27:46), Keith Smith (27:52), Dan Marley (28:03), Bob Sauer (28:22), Dan Brown (28:28), Dan Lichtenwalner (28:53) and Mike Nolte (30:00).

Once again, as in the pre-season time trial, the Miners' times at St. Louis were considerably faster than last year's times! This weekend the Miners will be looking to improve their times even more as they compete in the Southern Illinois University Invitational at Edwardsville.

Women's softball meeting

By DAN BROWN

Attention all athletically inclined women of UMR ... would you believe that it's already time to start thinking about varsity softball! That's right! Tonight at 7:00

p.m. there will be a meeting in the classroom of the Multi-Purpose Building. Everyone interested in playing women's varsity softball should attend tonight's meeting. If for some reason

you are unable to be there, you should contact Coach Sarah Preston as soon as possible at the Athletic Department Office (in the Multi-Purpose Building) or call 341-4175.

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M-Club sponsors 12th Man Award

Submitted by
M-CLUB

The 12th Man Award will again be presented by the M-Club to the organization or club which best supports the Miners' football team at their home games.

This award originated at Texas A&M University approximately 80 years ago. During a home football game, their star player was injured and had to be removed from the field on a stretcher. The team only had 11 players on the roster, so they were one man short. A man was pulled out of the stands and was suited up to play in the rest of the game. At this point, the fans stood up and began cheering and yelling, trying to support their team. The man from the stands (the 12th Man) was inspired by the wild enthusiasm of the fans, and sparked the team to an exciting 4th quarter, come-from-behind victory.

It is the result of this incident that the 12th Man award was started. The award is in recognition of the fans who are ready to support their team.

The intent of the M-Club in giving this award at the UMR campus is to recognize the club or organization which best exemplifies school spirit and enthusiasm. The one which best fulfills the following requirements will be declared the winner of the award.

The judging criterion has been divided into sections with a score of up to 10 given in each one. Extra points will be awarded by M-Club to the organization that buys the most burnable materials to the bonfire, and also gives the most support.

The 12th Man Judging Criterion:

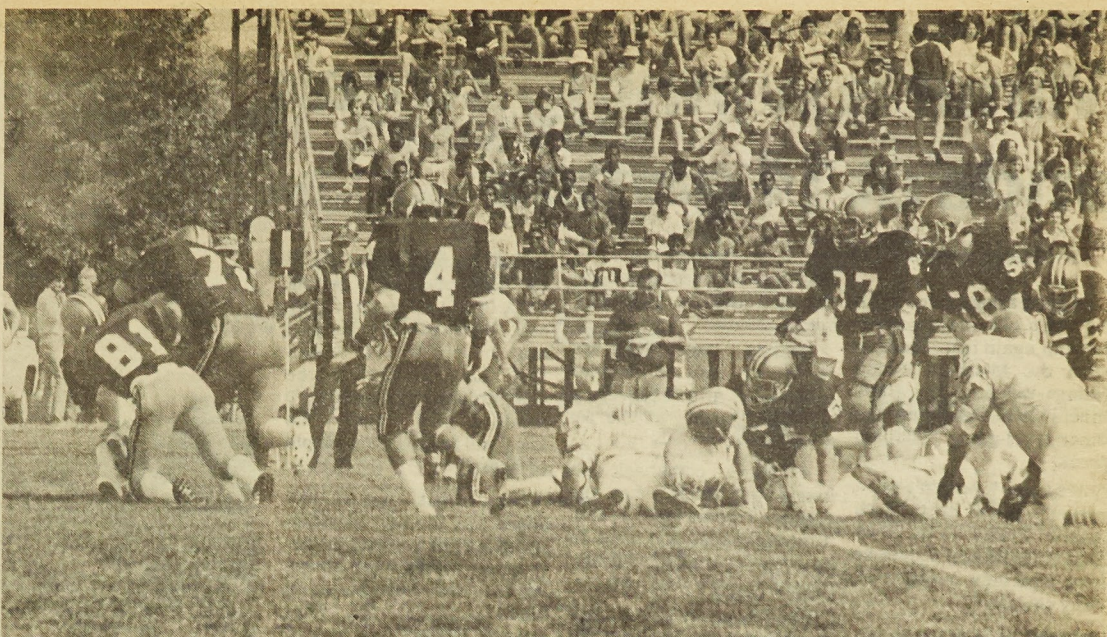
(A) MEMBERS PRESENT AND GROUP IDENTIFICATION — The judging for this will be determined by the number of people present for each club or organization. Therefore, group identification is of extreme importance. Otherwise it is impossible for the judges to distinguish who is who.

(B) CHEERS — This is a very important judging criterion. The starting of a cheer is very important. However, it is also important for a group to join in on a cheer which has already been started. Hence, organized cheering is more important than having 2 or 3 different cheers going at the same time. Also, the originality of the cheers is important. However, points will be deducted from an organization who uses obscene words in their cheer.

(C) NOISE AND ENTHUSIASM — General noise and noisemakers are essential in arousing school spirit. A continued show of enthusiasm is important in judging.

(D) VISUAL EFFECTS — Very readily noticed is the use of visual aids. Flash cards, signs, banners and anything else you can think of to show enthusiasm will be considered in the judging.

(E) OPINION — Last, but very important are the points awarded or deducted due to a judge's opinion. For example, obscenities or bad sportsmanship can result in a loss of points. Conversely, a special show of spirit or a creative visual effect could result in additional points.



This Saturday the Miners will travel to Pittsburg State for a 7:30 p.m. game. (Photo by Gieseke)

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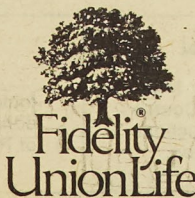
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Miner's winning streak ends at 14 games

By LARRY TIPTON

All good things come to an end. This old adage proved its truth again last Saturday when the Missouri Valley Vikings defeated the UMR Miners 31-10, snapping the Miners' 14-game winning streak.

"We knew it couldn't go on forever," stated Head Coach Charlie Finley. Yes, they knew it would end sooner or later. The only question is, "Why not later?"

Indeed, up until the fourth quarter, it looked as though the streak would be extended to fifteen games.

The Miners started the game in explosive fashion, scoring on a 74-yard touchdown run by sophomore Randy Shed on the first play from scrimmage. Eighteen seconds after the start of the game the score was 7-0 for UMR.

Following a Viking touchdown and a Miner field goal, the halftime score was 10-7.

The second half came and the Vikings started capitalizing on the Miners' mistakes. They recovered a fumble on

the Rolla 12-yard line. The next play they scored to take the lead 14-10, a lead they would not lose.

Missouri Valley then extended its lead by another touchdown after recovering a Miner fumble at the 50-yard line.

A Miner comeback attempt was foiled when the Vikings picked off a Don Kasperski pass and went on to score a final touchdown. The final score was 31-10.

What happened to change the Miners' early luck? An obvious answer would be fumbles. "Turnovers killed us," said Finley. "We couldn't keep a drive going fumbling so much."

"When you lose five fumbles, have one ball intercepted, and have your quarterback sacked seven times, you're taking the ball out of the offensive team's hands too many times."

"Our defense played well enough for us to win, but you're simply asking too much of the unit when you have it on the field as much as it was on Saturday."

Leading the defense were juniors Bob Pressly (11 solo tackles, 3 assists) and Paul Demzik (7 solos, 3 assists).

Now a major concern of the UMR coaches is getting back to full strength. Offensive lineman Jeff Haffner may be out with a broken toe, and punter Bruce Baughman, averaging 40 yards a punt, injured his knee and may miss a couple of weeks.

One bright spot of the game was the play of (Randy) Shed, who scored the only Miner touchdown and ended the day with 94 yards rushing, a 22-yard pass reception, and five kickoff returns totalling 136 yards. For his efforts, Shed was named Offensive Player-of-the-Week by the Missouri Intercollegiate Athletic Association.

Now 1-1, the Miners will meet Pittsburgh State this Saturday in an away game. What can they expect in Pittsburg?

"A huge team," commented coach Finley. "They were big last year and we'll give away a lot on size again this season."

"We know they can really put points on the board. If we cut down on our mistakes, however, I am certain we can give them a good game."

Kickoff time for Saturday's game is 7:30.



Baby reps showing their spirit.

(Photo by Gieseke)

Rugby news

By MARK WARNER

When was the last time UMR was better than Mizzou in anything?

How about three times better? Well, it happened last week when UMR's 45 man rugby team traveled to Columbia to tackle the Tigers, literally. It was the opening game for both teams and the Miners came away 9-3 victors.

Mike Eversman scored all nine points on kicks for UMR, now 1-0. It was the first opening day win in five years for the Miners.

You'll have your chance to show your appreciation for this momentous achievement next Saturday when Cape comes to town to provide the opposition. The game starts at 10:00 at Fraternity Row and the public is invited to attend.

For those females who are rugby fans or who find themselves with nothing to do, there is a special rooting section known as the "Rugger Huggers".

Interested sports fans may call Bill Manley at 364-9818 for information.

So come on out Saturday and watch the Miners scrum their way to another victory for good ol' UMR.

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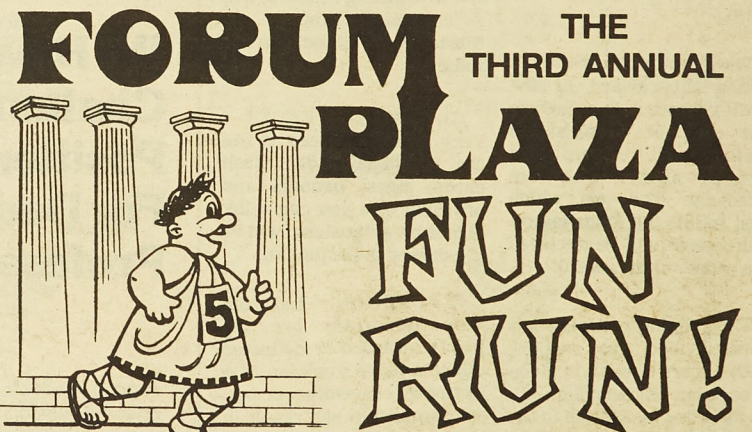
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*ARIZONA STATE 31	WICHITA STATE 14
*ARKANSAS 31	NORTHWESTERN 7
*ARMY 21	V. M. I. 14
*Ashland 17	Hillsdale 14
*AUBURN 21	WAKE FOREST 14
*BOSTON COLLEGE 24	TEXAS A. & M. 21
CALIFORNIA 24	*ARIZONA 21
*COLORADO 21	WASHINGTON STATE 14
CORNELL 21	*PENNSYLVANIA 17
*DARTMOUTH 14	PRINCETON 13
GEORGIA 21	*CLEMSON 20
*Gettysburg 24	Lebanon Valley 7
HARVARD 28	*COLUMBIA 14
*Hawaii 35	Fullerton State 17
HOUSTON 24	*MIAMI (FLA.) 21
*Illinois State 21	Eastern Michigan 14
*ILLINOIS 24	SYRACUSE 21
Indiana State 21	*New Mexico State 20
Indiana U. (Pa.) 17	*Westminster (Pa.) 14
IOWA 21	*IOWA STATE 14
*LOUISIANA STATE 31	OREGON STATE 7
*Louisville 14	Long Beach State 13
Lycoming 28	*Susquehanna 7
*MARYLAND 21	WEST VIRGINIA 14
*Massachusetts 17	Holy Cross 14
*MICHIGAN 17	NOTRE DAME 16
*Millersville State 28	Slippery Rock State 14
*MISSISSIPPI STATE 35	VANDERBILT 14
MISSISSIPPI 21	*MEMPHIS STATE 10
*MISSOURI 31	RICE 14

PROBABLE WINNERS & SCORES

*NEBRASKA 28
*NORTH CAROLINA 24
*OHIO STATE 28
*Ohio U. 21
*OKLAHOMA STATE 21
*PITTSBURGH 35
PURDUE 24
SO. CALIFORNIA 21
*STANFORD 35
Tennessee State 35
*TENNESSEE 31
*TEXAS TECH 35
*TEXAS 28
U. C. L. A. 24
U. Mo. (Rolla) 14
*WASHINGTON 28
WYOMING 17
*YALE 14

PROBABLE LOSERS & SCORES

FLORIDA STATE 14
MIAMI (OHIO) 7
MICHIGAN STATE 10
Bowling Green 14
TULSA 20
CINCINNATI 7
*MINNESOTA 21
*INDIANA 7
SAN JOSE STATE 14
*So. Illinois 14
COLORADO STATE 14
NEW MEXICO 14
NORTH TEXAS STATE 7
*WISCONSIN 14
*Pittsburg (Kan.) St. 7
KANSAS STATE 14
*AIR FORCE 14
BROWN 13

SUNDAY, SEPTEMBER 20, 1981 National Football League

*ATLANTA 20	SAN FRANCISCO 14
*CHICAGO 17	TAMPA BAY 14
CLEVELAND 20	*CINCINNATI 17
*DENVER 17	BALTIMORE 16
*HOUSTON 17	MIAMI 16
*LOS ANGELES 17	GREEN BAY 10
*MINNESOTA 17	DETROIT 16
*NEW YORK GIANTS 24	NEW ORLEANS 23
*OAKLAND 20	SEATTLE 16
*PITTSBURGH 19	NEW YORK JETS 17
SAN DIEGO 24	*KANSAS CITY 17
WASHINGTON 20	*ST. LOUIS 17

MONDAY, SEPTEMBER 21, 1981

DALLAS 17	*NEW ENGLAND 16
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M - Club

Athlete of the week

M-Club's Athlete of the Week is Randy Shed. A sophomore on UMR's football team. Randy played with style last Saturday against Missouri Valley.

In addition to having 5 kick-off returns for 136 yards, he ran 92 yards on 12 carries, which included his great 74-yard touchdown run. Congratulations, Randy!

DOTTY'S BEAUTY SALON

Specializing In:

- CUTS
- PERMS
- STYLING

1005 Rolla St.

364-1270

(Just one block from campus)

Brano's

Banquet Facilities Available
Men's Night-Wednesday
Ladies Night-Thursday

9:30 to 1:00 341-2110

1435 Hauck Dr.

Rolla, MO

ALL

•Football •Soccer •Softball
SHOES

10-40% OFF



904 Pine St.

Rolla

341-2666

**Come on out
to where the
fun times roll.**

Watch NFL Monday & Thursday
Night Football
on our Big Screen TV
Draft Beer 50¢ a glass from
kickoff until the final gun

Happy Hour

3:30 to 6 p.m.

Tuesday-Friday

1:30 to 6 p.m. Saturday

ALL BEER 50¢ A BOTTLE!

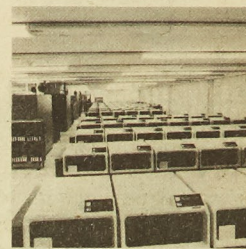
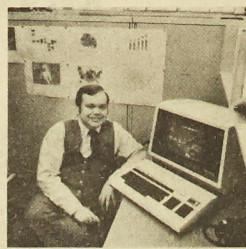
Colonial Lanes, Inc.

Bus. Loop I-44 West

364-4124

Monsanto

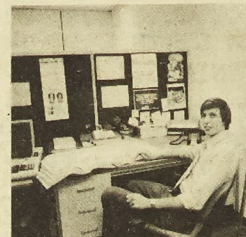
WHAT ARE THEY DOING WITH COMPUTERS?



Telecommunications Support Manager Ken Conley (UMR 1964) at Monsanto's DEC-based International Message Switching Center.

Computer Graphics expert Dave Ackman (UMR 1972) evaluating new equipment.

WORLD HEADQUARTERS COMPUTER CENTER—ST. LOUIS

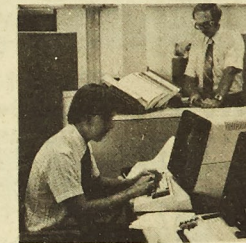
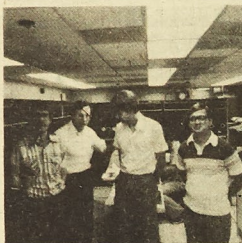


Ron Mazdra (UMR COOP) in the Computer Center Control Room.

Suzanne Caruso providing assistance for users of the Interactive Computing Facility.

Lou Briscoe (UMR COOP) of the Distributed Systems Consulting Group providing assistance in new computer projects.

Mike Magruder (UMR COOP) monitoring the Data Communications Network.



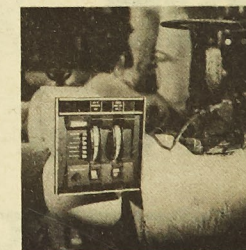
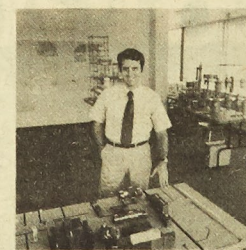
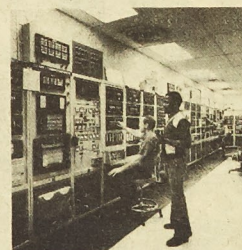
Computerized data collection at Monsanto's Environmental Health Laboratory.

Larry Estes (UMR 1969), Al Horn (UMR 1969), Brad Herman (UMR 1981), and Rich Doelling (UMR 1970) providing support for Agricultural Research computing needs.

Evaluation of the IBM SERIES/1 for Monsanto's Network applications.

Software development on the IBM 8100 by John Schneider (UMR COOP) and Harvey Jasper (UMR 1976).

151 PLANTS AND 21 LABORATORIES AND TECHNICAL CENTERS IN 20 NATIONS



Kathy Hoorman (UMR 1979) and Doug Austin (UMR 1976) provide support for the Silicon Wafer Process in St. Peters, Mo.

Process Control at the Texas City Plant.

Bob Barrett (UMR 1969) of Engineering Management Science.

And More Applications growing by the Microsecond.

Thursday
September 24, 1981

Several members of Monsanto MIS, many of them UMR graduates and COOP's will be on hand to explain what Monsanto is doing with computers, and what the Monsanto Community can offer.

- PRESENTATIONS AT:
9:30 10:30 2:30
Second Floor Math-Computer Science
- ON DISPLAY
9:00 to 4:00
Second Floor Student Union