



22 Sep 1983

The Missouri Miner, September 22, 1983

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MISSOURI MINER

For the students of UMR

Volume 72, Number 3-4

Thursday, September 22, 1983

Sixteen Pages

UMR Koreans protest downing

BY
PAT VAN RYCKEGHEM

On Tuesday, September 13, the Korean Students Association staged a demonstration on the UMR campus to protest the shooting down of the South Korean airliner flight 007 by the Soviet Union.

Mike Chi started off the demonstration with a speech condemning the Soviet Union for their inhumane and barbaric actions on Sept. 1, when they shot down the civilian plane, killing 269 people. Speaking for the association, he demanded that the Soviet Union give a detailed explanation of why the unarmed civilian airliner was shot down by the Soviet jet fighter. He said, "The Soviet Union must apologize to the world for their brutal action against innocent, civilized people."

He also asked that the U.S. government take firm action against the Soviet Union, such as imposing a grain embargo,

stopping all technological trade with the Soviet Union, or cutting off diplomatic relations with the Soviet Union.

After Chi's speech, about 30 to 40 people joined in a march around the campus, carrying signs reading "This time 269, next time whole world?," "We demand justice, we demand answers," and "Barbaric Russia, World won't forgive you."

After marching around campus, the students formed a circle holding hands in front of the hockey puck and sang the South Korean national anthem. Then four of the students, including one board representative, ripped a Russian flag to pieces. The protest ended with everyone bowing their heads in a moment of silence for the people aboard the airliner and their families.

Rob Bowen, a member of the St. Pat's Board and one of the four who ripped up the

Russian flag, said he was fed up with the Soviet Union. "The Russians must be made answerable for attacks like this," he said.

Mike Chi later explained

"The part of our program of which we are proudest is the Campus Vending Scholarship," Welty said. "In this program surplus revenue from vending machine sales are used each year to provide a \$1,000 scholarship for a UMR student."

"We have been awarding

Flyers were passed out around campus, expressing the association's views and demands on the Soviet Union. Also involved in the protest were some members of the Chinese Student Association, the Thai Student Association, the Vietnamese Student Association, and several American students.



What a way to spend a day! Septemberfest kicked off the semester in good Board fashion.

For freshmen

University housing required for most

By JANE SHEPUTIS

Starting in the fall semester of 1984, all students with 30 credit hours or less will be required to live in either University housing, or University recognized fraternities or sororities. Exceptions will be made for students whose parents live within the immediate area, veterans, those over 21, married students, and other special justified cases.

"Our professional efforts

are concentrated on the total educational process. Living within this prepared environment, with tried services and strong programs provided by a professional staff, aids transition from one set of surroundings into another. The living and learning atmosphere helps self-development during the adjustment period and reinforce the academic process. You can see this in the differences between the GPA's of the student in University housing and those

who live off campus," explained Jess Zink, Director of the Department of Auxiliary Services, as reasons for the measure.

The decision to re-enact this requirement followed the discovery that the University dormitories had an almost 10 percent vacancy rate this semester. Until several years ago, UMR had always demanded that freshmen live in the provided housing. However, when the student load and the demand for space became too much for

the University to handle, the requisite was dropped. Recently, as a result of complaints from the Parents' Association about the housing situation, the capacity of the Thomas Jefferson Hall was doubled with the new building. The

Department Housing Office of Auxiliary Services no longer foresees problems in housing students.

Next fall, the Registrar's Office will use computers to cross-reference each student's recorded courses with his local address. Freshmen who

are not excused or then residing at either Thomas Jefferson Hall, the Quadrangle, or officially recognized housing will be subject to disciplinary action. A student who will not contract proper housing will not be enrolled.

Vending offers scholarship

Source: OPI

The vending service at the University of Missouri-Rolla has more to offer students than the items sold in the 90 vending machines around campus, according to Gary Welty, administrative associate II with UMR Auxiliary Services.

that the association did not stage the protest to cause trouble, but rather to display their pride for their country. "This is not the first Korean airliner to be shot down by the Soviet Union," he said, "and it has just got to stop! There were many Americans aboard flight 007, including a U.S. Senator. We are just trying to let people know the facts."

this scholarship for four years now," he added, "and we feel that it allows us to give something back to the students for their support of the vending service."

Recognized student groups at UMR-Rolla also can benefit from the vending service through its drop sales program. "In this program student groups at UMR can purchase cases of soda at 50 cents over cost for meetings and gatherings they hold outside of the University Centers," Welty explained.

"All of the items that we offer through the vending service are put out to competitive bid each year," he explained. "The larger the

quantity that we can bid on, the lower our unit cost will be. This then enables us to offer the item at a lower cost to our customers."

The winner

Douglas S. MacDougall, a senior in nuclear engineering at the University of Missouri-Rolla, has been awarded UMR's Campus Vending Scholarship for the 1983-84 academic year. MacDougall and his wife, Paulette, reside at 707 W. 13th St., Rolla. He is the son of Kathleen Paulen, 52628 Brookfield Court, Rochester, Mich.

By PHYLLIS HARSTER

Tau Beta Pi, the National Engineering Honor Society, is sending all six of their officers and their faculty

advisor, Dr. Cunningham of the EE department, to the National Tau Beta Pi Convention. The convention is being held in Urbana, IL from October 6-9.

The local chapter, with Scott Van Horn as president, has been awarded \$750 by the

national chapter this year for a special service project. They will be sponsoring a Small Businessperson Seminar for area businesspeople. Companies such as IBM and Apple Computers will be at the seminar to introduce area businesspeople to the latest in computer technology. The seminar is tentatively set for

mid-February.

Each year the local chapter also awards several scholarships to outstanding UMR freshman. These scholarships are awarded on the basis of academic standing, need, activities, and work experience. This year's winners of the \$400 scholarships are: Leonard Lawrence Franz-EE major; Gregory Robert Bram-ChE major; and Cheryl Ann Caudle-Engineering Mgmt. major. All three students maintained a 4.0 GPA for their freshman year. Tau Beta Pi will also be presenting a Teacher of the Year award to an outstanding UMR faculty member.

Among their many other awards the local chapter has been picked to organize a district-wide newspaper for Tau Beta Pi.

A schedule of other planned events follow:

October 4—IBM will present "Computer-Aided Technology". It will be held at 6 p.m., 104ME. Everyone is invited to attend.

Work Day. All money earned goes to next year's scholarship.

Tau Beta Pi has 133 active members and they are planning to pledge 140 students this fall. To be eligible for this life-time honor, you must rank in the top 8 percent of your junior class or the top 5 percent of the senior class. This year's officers are: Scott Van Horn, Ramsey El-Fakir, Raymond Williams, Brent Jenkins, Jane Koetting, and Steve Watkins. Their faculty board includes: Dr. Anderson-EE dept., Dr. Fannin-Associate Dean of Engineering, Dr. Sittion-ChE dept., and Dr. Cunningham-EE dept.

CALENDAR OF EVENTS

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

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

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

THURSDAY—

LECTURE SERIES

- September 22—Chemical Engineering Seminar, "Urea Reactor Design," Prof. John P. O'Donnell, University College Dublin, Ireland, 1:30 p.m., 139 Schrenk Hall. Free.
- September 22—Mechanical and Aerospace Engineering Lectures, "Motion Programming for Robots," Dr. A. H. Soni, Oklahoma State University, and "Computer-Aided Design Applied to a Walking Vehicle," Dr. K. J. Waldron, Ohio State University, 2:30 p.m., 210 Mechanical Engineering. Free.
- September 22—A. Frank Golick Lecture, "Technology and Science in Nonferrous Metallurgy: The Changing Scene," Dr. Phillip J. Mackey, Noranda Mines Ltd., Quebec, Canada, 3 p.m., 117 Civil Engineering. Free.
- September 29—Physics Colloquium, "Electrical Signals in Biological Tissues," Wendell S. Williams, University of Illinois, Urbana-Champaign, 4 p.m., 104 Physics. Free.

SHRINERS CLUB BAND

South Central Missouri Shriners Club Band, "Ken Fowler and the Hurricane River Band." Shows at 6 and 8:30 p.m. Thursday, September 22, Centennial Hall, University Center-East. Advance tickets \$10 family. Tickets at door \$5 adults, \$3 children. For more information call 364-3574.

UMR FILM SERIES

- September 22—"Atomic Cafe," and "If You Love This Planet," 7:30 p.m., Miles Auditorium, Mechanical Engineering Building. Season ticket or \$2.50 at the door.
- September 29—"Missing," starring Jack Lemmon and Sissy Spacek, 7:30 p.m., Miles Auditorium, Mechanical Engineering Building. Season ticket or \$2.50 at the door.

LECTURE SERIES

September 23—A. Frank Golick Lecture, "Process Simulation and Computer Modeling in Copper Smelting," Dr. Phillip J. Mackey, Noranda Mines Ltd., Quebec, Canada, 8 p.m., 117 Butler-Carlton Civil Engineering Hall. Free.

SOCIETY ON BASIC INSTINCTS

The Society on Basic Instincts will be holding a study on Primate Behavior Friday, September 23, north of the EE Building.

S.A.E.

—The Society of Automotive Engineers will hold its annual membership picnic from 1:00 to 4:30 p.m., Tuesday, September 27, in the afternoon at the Tech-Engine Club across the street from the EE Building. Hamburgers, hot dogs, and refreshments will be served. All members are welcome.

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 student and faculty of UMR.

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THE MISSOURI MINER

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

SATURDAY—

LECTURE SERIES

September 24—Student Union Board Lecture, "Russia's Secret Domsday Weapons, World War III and You," Peter James, 8 p.m., Centennial Hall, University Center-East. Free.

SUNDAY—

PI KAPPA ALPHA

Pi Kappa Alpha fraternity will hold its second annual Two-Person Scramble Golf Tournament, 8 a.m. Sunday, September 25, UMR Golf Course. Entry fee is \$30 per team. All proceeds to the Theta Tau Omega Ugly-Man Contest. For more information contact Pi Kappa Alpha, 9th and Bishop, 364-1490.

MONDAY—

UMR AMATEUR RADIO CLUB

Have you ever wanted to talk to someone from another country? Ever wanted to learn about applications of new technology? If so, then this is what you have been waiting for. The UMR Amateur Radio Club is a great way to get started in these and many other activities: computer, satellite, Moon-bounce, low-frequency, high-frequency, VHF, UHF, TV, Morse Code, and voice communications are just a few of the options available to Hams for communicating with people just around the corner or around the world. If you would like to learn more about Amateur Radio, come to UMRARC's next meeting Monday night, September 26 at 6:30 p.m. in Room 101, EE. All welcome, and any questions concerning ham radio will be gladly answered.

TUESDAY—

INTERNATIONAL HOMEMAKERS

The International Homemakers will meet again after the summer intermission, on Tuesday, September 27 from 9:30 a.m. to 11:30 a.m. at the First Baptist Church (9th & Cedar Streets). The aim of this group of women is to foster new friendships, exchange ideas and to share customs. The group will meet every second and fourth Tuesday of the month at the above mentioned time and place.

BETA CHI SIGMA

Beta Chi Sigma, the scouting fraternity at UMR, will be holding a meeting on Tuesday, September 27 in Room 118, ME at 7 p.m. All members and those interested in joining are invited to attend.

LECTURE SERIES

- September 27—Chemical Engineering Seminar, "Supported Metal Catalysts," Dr. Eli Ruckenstein, State University of New York at Buffalo, 4 p.m., 135 Schrenk Hall. Free.
- September 27—Physics Colloquium, "Plastic Deformation of Refractory Compounds," Wendell S. Williams, University of Illinois, Urbana-Champaign, 4 p.m., 104 Physics. Free.
- September 27—Industry Day, 10 a.m.-4 p.m., Bullman Multipurpose Building.
- September 27—Physics Colloquium, "Science in the Art Museum," (popular lecture), Wendell S. Williams, University of Illinois, Urbana-Champaign, 7:30 p.m., 104 Physics. Free.

S.A.E.

The Society of Automotive Engineers will hold its next meeting on Tuesday, September 27 in the Mechanical Engineering Auditorium (ME-104) at 7 p.m. William S. Follmer of the Advanced Engineering Division of the Ford Motor Company will speak on "Engine and Driveline Technology of the 80's". Memberships will be taken. Refreshments will be served following the meeting. Everyone is welcome.

No day

INDEPENDENTS' COUNCIL

Independents! Get ready for Independents' Weekend '83. This year's weekend is to be held September 22-24 and promises to be a great time for all Independents. The calendar of events is as follows: Thursday night, September 22, is the Queen's Tea; Friday night is the Street Dance at

TEC across from the EE Building; Saturday afternoon is the games out at Lions Club Park, and Saturday evening is the Coronation Dance at mpus Club. All Independents are invited to partake in the festivities throughout the weekend. So come on out, bring your friends, and have a good time at Independents' Weekend '83.

GUARANTEED STUDENT LOANS

Guaranteed Student Loans: For financial aid purposes 12-hours enrollment is considered full-time for undergraduate students. The total time to complete the processing cycle for GSL applications averages at 6-8 weeks. Generally eligible students may receive up to the maximum amount of \$2,500 per grade level: 0-29—freshman; 30-59—sophomore; 60-89—junior, and 90 and above—senior. Different rules apply to students who changed schools or their curriculum. It can't be emphasized enough to have the student's section and accompanying documents filled out completely in order to avoid unnecessary delays.

UMR ACM RESUME BOOK

The UMR ACM Resume Book is a benefit of belonging to the UMR ACM Student Chapter. Each member may submit their resume to be included in the resume book. There is no charge to members. The Resume Book is sent to over 100 companies that have need for computer professionals. Where to get the Resume forms: Room 325-M/CS. Where to return completed Resume forms: Room 325-M/CS. When are the Resume Book forms due to be returned: September 23, 1983 at 4:30 p.m.

FRIDAY—

INTERNATIONAL SOCCER

The International Students Club invites student organizations to apply now to take part in their second annual INTERNATIONAL SOCCER LEAGUE, which will commence in mid-October. Take part in the greatest soccer tournament around. We hope to have American teams also. Organizational meeting on Sept. 28 at 5 p.m. in G-5, H-SS. All invited. Contact: Jeff Joseph at 341-2529.

ARMY ROTC

On Sunday, Oct. 2, 1983 there will be a field training exercise at Fr. Wood. We will be qualifying on the M-16 rifle. Cost is \$2.50. Open to all military science students. Sign-up at Bldg. T-2.

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UM Curators meet in Columbia

By PAUL McLAUGHLIN

The Curators for the University of Missouri met this month on the 8th and 9th to do business.

They discussed matters concerning the various campuses. According to Chancellor Joseph M. Marchello, the matters that affect UMR directly were:

- * the roll-over of a two-year loan on Thomas Jefferson Hall,

- * the hiring of Telecommunications Management Corp. to study the University's tele-

phone system and devise ways of improving it.

- * the approval of a new roof for T.J. North Tower,

- * the approval of the degrees awarded in Summer Session 1983.

The two-year loan on T.J., says Marchello, is a low-interest, short-term loan. "Rolling-over" means that another loan is being taken out to pay off the previous.

Marchello says that this succession of short-term loans will eventually pay off T.J. The rationale behind this method, as opposed to the

method of taking out one long-term loan, is that the UM system, as set up in the Missouri constitution, is allowed only to pay 10% on any loan. Long-term loans charge more than 10%.

Marchello adds that if long-term rates ever come down to 10%, such a loan will be taken out. As it is now, short-term loans are going for just under the 10% ceiling.

Telecommunications Management Corp. is being hired to study the phone system that UM has now. It will also study UM's needs and

inquire into what the personnel want in the way of features.

The bill, as decided at the meeting, should not exceed \$168,000. UM's phone bill last year was \$6.5 million.

The reason the curators had to vote on the T.J. roofing repairs is that they are expected to run over \$100,000, according to Jess Zink, Director of the Dept. of Auxiliary Services.

The purpose, he says, is to "upgrade the old part, the south wing, to match the new

part, the north wing."

The repairs themselves involve waterproofing the roof area and tuckpointing the edge of the roof. Tuckpoint-

ing seals the connection between the wall and the roof.

These extensive repairs, says Zink, are brought on by water leaks in that area.

Triangle welcomes Watson

By STEVE HEITERT

The men of Triangle Fraternity welcome the addition of Dr. John Watson as their new chapter advisor. Dr. Watson became a brother of Triangle September 11, 1983.

Dr. Watson is replacing Dr. Henry Metzner who is stepping down after seven years of hard work that was greatly appreciated by all who passed through Rolla during that time.

Dr. Watson was born and raised in England, received his B.S. from the University of Nottingham, and his Ph.D. from the University of Bristol. From England, Dr. Watson went to work in the gold mining town of

Kilgoorlie, Australia.

To begin his teaching career, Dr. Watson taught at the University of Otago in New Zealand. In 1980, he spent one year as a visiting professor at South Dakota School of Mines in Rapid City, and in 1981 came to UMR where he is a member of the Metallurgy Department.

Dr. Watson has a lovely wife, Ann, and two children, Louise and Layland. The brothers are looking forward to many years of help from Dr. Watson, not to mention the many hours of watching football, playing soccer, throwing darts, and just talking. Congratulations Dr. Watson, and thank you Dr. Metzner!

News briefs

Industry Day

Source: OPI

The 16th annual University of Missouri-Rolla Industry Day will be held from 10 a.m. to 4 p.m. Tuesday, September 27, at the Gale Bullman Multipurpose Building.

Companies doing business in Missouri will have displays showing their goods and services. Representatives from the businesses will be on hand to discuss their products and employment opportunities.

UM-Rolla Industry Day is open to the public. There is no admission charge. Door prizes are awarded throughout the day.

Commuter lockers

By JANE SHEPUTIS

Few of the 56 commuter lockers that were installed over the summer at the University Center-East, are now available to the general public. For a twenty-five cent (25¢) deposit, this releases a key. Using it, the student can retrieve his possessions and receive his quarter back later on. However, many of the people who are using the lockers are not returning the keys.

"We are asking for people's cooperation," says Ms. Sue

Hufham, a staff member in the Department of Auxiliary Services. The keys need to be returned to the lockers so more people can use them. At present, almost no one can find an available locker, even at night. If the situation does not improve, the deposit might be raised or a charge instigated for each use.

Scholarships

WASHINGTON, D.C.—The Scholarship Research Institute of Washington, D.C., an organization specializing in aiding students in their efforts to locate funds for college, is itself offering three (3) \$1000 scholarships. Applicants must meet the criteria outlined below:

1. Undergraduate
2. Full-time student
3. GPA of 2.0 or above

For application and information, students should write to: Scholarship Research Institute, P.O. Box 50157, Washington, D.C. 20004. The deadline for applications is October 30, 1983. Awardees will be notified by December 15, 1983.

Recipients will be selected based upon their academic performance, leadership abilities, college and community activities.

These awards are for the Spring semester of the 1983-84 school year and may be used for any expenses related directly or indirectly to the pursuance of any academic major at the undergraduate level.

Visiting speakers

Source: OPI

Lectures on related topics will be presented by two visiting speakers at a University of Missouri-Rolla mechanical and aerospace engineering seminar at 2:30 p.m. Thursday, September 22, in Room 210 Mechanical Engineering.

Dr. A. H. Soni, professor of mechanical and aerospace engineering, Oklahoma State University, will discuss "Motion Programming for Robots," and Dr. K. J. Waldron, professor of mechanical engineering, Ohio State University, will speak on "Computer-Aided

Design Applied to a Walking Vehicle."

Everyone interested is invited to attend.

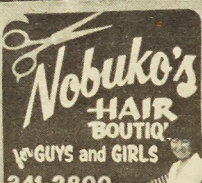
Chancellor appointed to committee

Source: OPI

University of Missouri-Rolla Chancellor Joseph M. Marchello has been appointed to the American Council on Education's Inter-associational Presidents' Committee on Collegiate Athletics. He will represent the National Association of State Universities and Land Grant Colleges.

The committee is responsible for examining "the total picture of intercollegiate athletics," including recruiting, academics, financial costs, governance and other relevant issues.

Formed in 1977 as the ACE Commission on Collegiate Athletics, the committee today has 18 members who represent various colleges and universities and educational intercollegiate athletic associations.



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Art and science reflected in lectures

Source: OPI

Dr. Wendell S. Williams, professor of physics, ceramic engineering and bioengineering at the University of Illinois, Urbana-Champaign, will be a visiting professor of physics at the University of Missouri-Rolla September 26-30.

At the University of Illinois, Williams also is a principal investigator with the Materials Research Laboratory and director of the Program on Ancient Technologies and Archaeological Materials.

"Dr. Williams is a multifaceted individual. He has active research projects in the physical characteristics of transition metal ceramics, the electrochemical properties of biological tissues and materials characterization of ancient technologies," said Dr. Ronald Bieniek, UMR assistant professor of physics.

"He is also quite active in the use of scientific techniques to date art objects and in detecting frauds," he continued, "and his interest in music has led him to become involved in the formation of various choral and operatic groups. This breadth of activity will be reflected in the lectures he presents while on campus, and I think that everyone will be able to find something of interest in his talks."

During his stay at UM-Rolla, Williams will present five lectures, several of which will be of interest to a general audience, and meet with faculty and students.

His lecture topics and schedule are:

Monday, Sept. 26—"Phonon and Electron Scattering in Transition Metal Compounds," 4 p.m.

(Joint physics and Graduate Center for Materials Research colloquium);

Tuesday, Sept. 27—"Plastic Deformation of Refractory Compounds," 4

p.m. (Joint physics and ceramic engineering colloquium);

Tuesday, Sept. 27—"Science in the Art Museum," 7:30 p.m. (General interest

lecture);

Thursday, Sept. 29—"Electrical Signals in Biological Tissues," 4 p.m.;

Friday, Sept. 30—"The Current Crisis in Science

Education," 4 p.m. (General interest lecture).

All of the lectures will be in Room 104 of the Physics Building and they are free and open to the public.

New phones considered for UM system

COLUMBIA, MO—The University of Missouri system Board of Curators at its meeting here Friday (Sept. 9) approved the hiring of a consultant to help redesign the University's telephone system.

The Physical Facilities Committee recommended that the University hire the Telecommunications Management Corp. of Boston, Mass., for an amount not to exceed \$168,000, to develop a proposal for a new telephone system for the central administration and all of the campuses except the University of Missouri-Kansas City. UMKC has hired a consultant of its own.

UM now rents its telephones. But, according to Coleman Burton, director of University telecommunications, the University can both save money and get a more advanced communication system if it buys its phone equipment.

New telephones offer an almost unlimited number of features, said Burton. "We need help in deciding what kind of features we need."

Some of the 200 to 300 features Burton said are available include call forwarding, which allows the telephones to be programmed

so people who are out of the office can have their calls automatically transferred to where they are; a conference hookup, allowing six to eight people to hold a conference on the phone at the same time;

document forwarding, which would give all UM offices with computers the capability of sending documents over telephone lines.

Burton said a consultant is needed to help make those

decisions because no one within the University has the expertise needed. "We've never done this before," he said.

If hired, the Telecommunications Management Corp.

would examine the existing telephone network, and then, based on the University's

see page 9

More new faces

Source: OPI

Capt. Terry Bartkoski has been appointed an assistant professor of military science at the University of Missouri-Rolla.

Bartkoski received a B.S. from Kansas State University in 1974. He entered the Army in 1970 and served as a military policeman. He left the service in 1972 to complete his education and reentered the Army in 1974 as a commissioned officer.

With the Army he has served in Colorado, West Germany, Washington and Kentucky. He is a graduate of the Army Officer Advanced Course at Fort Knox.

Dr. Gearoid P. MacSithigh, assistant professor of engineering mechanics at the University of Missouri-Rolla, has been awarded a Research Initiation Grant from the National Science Foundation.

MacSithigh will use the grant, which is for \$47,469, for a research project entitled "Studies in Constrained Finite Elasticity." The grant will run until October 31, 1985.

MacSithigh joined the UM-Rolla faculty in 1981. He holds a B.S. in mathematical

science and an M.S. in mathematical physics from University College Dublin and was awarded an M.S. and a Ph.D. in mechanics by the University of Minnesota.

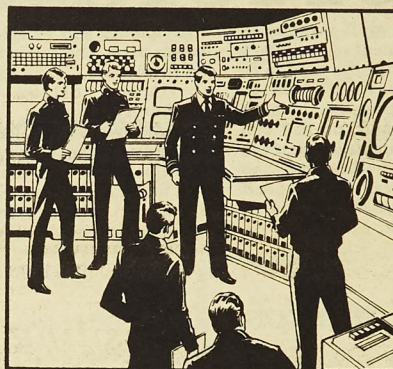
His primary research interests are solid and continuum mechanics, finite elasticity, viscoelasticity and liquid crystal hydrodynamics.

Lt. Donald J. Feeney has joined the University of Missouri-Rolla faculty as an assistant professor of aerospace studies with UMR's Air Force ROTC program.

Feeney holds a B.S. degree in business administration from Clarion State University in Pennsylvania and an M.S. degree in systems management from the University of Southern California.

He joined the U.S. Air Force as an enlisted man in 1977 and served in Texas, Mississippi, Germany and Maine. In 1980 he graduated from Officer's Training School and has since attended the Personnel Officer's course in Mississippi and Academic Instructor School in Alabama. He also served for two years at Hickam Air Force Base in Hawaii.

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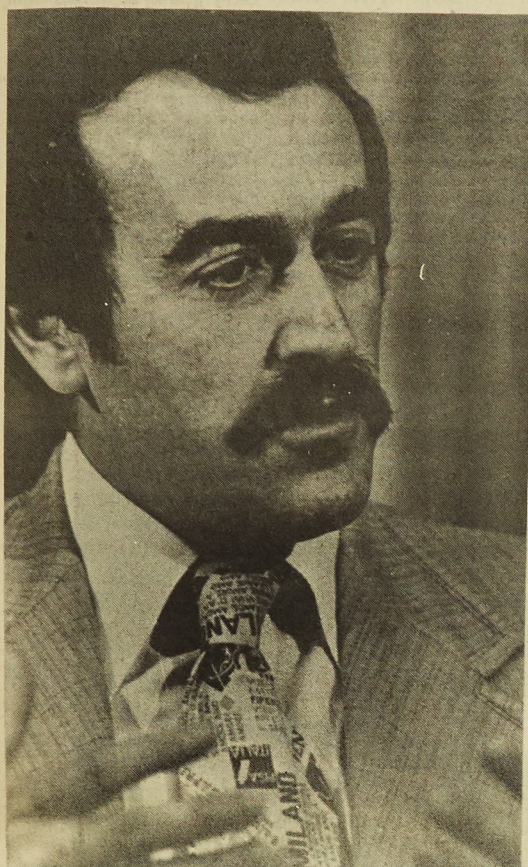
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Features



Ex-spy speaks

Submitted By SUB

Peter James, ex-CIA Agent, will speak in Centennial Hall Saturday, September 24 at 8 p.m. "Russia's Secret Domsday Weapons, World War III and You" is the topic of the evening.

National Security is highlighted "based on James' 800-page secret intelligence report, his book *Soviet Conquest from Space*, personal dealings with

Russia's top scientists and spies and recent information James has acquired through his worldwide networks of contacts and personal travel."

James worked for Pratt & Whitney Aircraft for nine years as a rocket engineer and their foreign technology expert. He became involved

with the CIA and Air Force Intelligence, while still working for the aircraft company, as he traveled to several foreign countries

using scientific conferences as excuses to meet frequently with Russian scientists, engineers and espionage agents.

James' intelligence reports for the CIA received high credits and similarly an 800-page secret intelligence

assessment he wrote for Air Force Intelligence was requested by the Executive Office of the President.

James discovered corruption within the military and was fired when he threatened to expose it.

Saturday evenings lecture will prove to be very exciting!

Don't miss the movie, "An Officer and a Gentleman" Friday night in Centennial Hall at 6:30 p.m. and 9:00 p.m. Both events are free with UMR I.D.

Look out for Melvin

By MIKE STRODER

He sat at his computer terminal, lost in studious pursuits. "Ah," he exclaimed, with the jubilation that only a freshman named J. Q. Bookworm could have. "A few minutes more and I'll have written my neat program to put things in alphabetical order."

"Ahhhhh, what worthless garbage."

"What?!" said the mortally offended J. Q. He whirled to find that sitting at the terminal next to him was a Board Rep. Or so he thought.

"Hiya, kid. I'm Melvin, the imaginary Board Rep. Nobody but you can see or hear me, so just shut up and listen."

"But . . . but . . ."

"Shut up kid, people are starting to stare. Look, just type 'Shove it' into your terminal and type enter."

"But . . ."

"Just do it!"

J. Q. did as his imaginary friend instructed. Several moments later every screen on campus went blank. "My God!" cried J. Q. "You've shutdown the whole system!"

"Yeah, I never liked computers anyway. C'mon kid, let's go to 209."

"209?!" But I don't drink! Besides, I've got a calculus class, and then Mom will have supper ready, and . . ."

"Look kid, don't get yer bowels in an uproar. We'll go

liven up your class a bit and then go to 209."

"But . . . you're just a figment of my imagination."

"So is physics, kid. Let's go."

J. Q. trembled in his seat. "Is this just a bad dream," he muttered to himself, "or am I losing my mind?"

"You're losing your mind, kid," Melvin said. "But don't worry. It was inevitable anyway. Say, this is a cutie sitting on the other side of you. I think you should ask her if you can have your way with her for a quarter."

J. Q. shook and clenched his teeth. "I THINK IT WOULD TAKE CONSIDERABLY MORE THAN A QUARTER TO HAVE MY WAY WITH HER," he shouted. A hundred eyes converged on J. Q. The next thing he knew, he was surrounded by at least six empty chairs in every direction.

"Don't worry kid. She wasn't for you anyway. Hey, watch this!" Melvin said as he stood. "CALCULUS IS A CROCK AND I THINK IT'S TIME THAT YOU, SIR, WERE EXPOSED FOR THE CHARLATAN AND FRAUD THAT YOU REALLY ARE!"

"NO . . . NO!" stammered J. Q. as he stood to try to contain his imaginary friend moments before realizing he *was* imaginary. All eyes again turned to him.

"You have something to say, Mr. Bookworm?"

J. Q. thought for a moment and reasoned that he couldn't save himself, so he might as

well have fun. "CALCULUS IS A CROCK AND IT'S TIME THAT YOU WERE—ER . . ."

Silence settled over the room.

J. Q. shook his head. "My God. Thrown out of calculus!"

"Yeah, that's a damn shame," Melvin added. "Here, drink this."

"Aaargh!!! What is this swill?"

"I'm not sure, but I think it's non-toxic."

J. Q.'s head finally stopped swimming and sank alto-

gether. "Well, where are we going now?"

"Right here," he said as they pulled up at 209 and ventured in. "See the guy in the corner with the Harley shirt and tattoos? I think you should call him and his six friends wimps and kneebiters and challenge them to fight."

"Yeah. Good idea," J. Q. said as he went off to meet his maker.

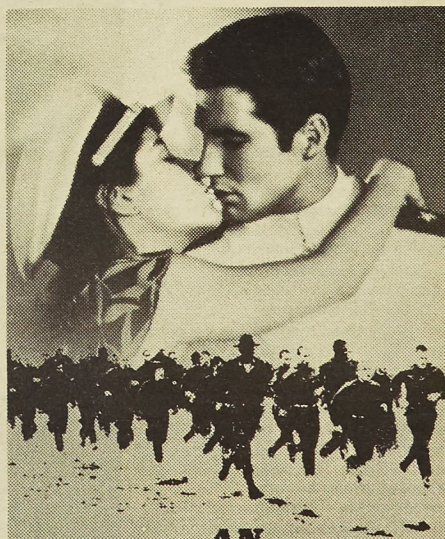
"Done at last!" said Ralph Snodgrass as he left the library. "Oh boy! Now I can go home like I do every Saturday night and play with my home computer."

A shadowy figure came up behind him. "Hey kid, where you goin'?"

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"A Tale of Two Students"

By JOHN ROBERTS

Do your most creative thoughts come to you while you're trying to study? Does your imagination reach its peak when you're supposed to be reading your physics or working on your dynamics problems? If you answered yes to either of these questions, don't be too concerned because this is a sign of being normal. In fact, as the following study indicates, this could be a big asset to your future. Your worries should begin when you find that studying all the time is what you really enjoy in life. Let's compare cases of two

former UMR students; one who would have answered "yes" to the above questions and one who would have answered "absolutely not."

Bradley Kruiser, from St. Louis, graduated from his high school in the upper 97% of his class. He figured he had the potential to go to college because of his achievements. He decided to go to Rolla simply because his girlfriend was also going there. Just like everything else, to Bradley entering college was no big deal. In fact, his two biggest interests were his girlfriend's breasts of chicken dinners that she occasionally fixed and going to concerts and

parties on the weekends.

Norman Potsnerd, from Providence, Rhode Island, graduated as Valedictorian of his senior class. Norman had an obsession with wanting to be a college graduate from UMR like his cousin Clarence. His obsession started when Clarence came to visit the Potsnerds one year during the Christmas holidays, the middle of Norman's freshman year in high school. Norman had always idolized Clarence and was fascinated by the calculator that hung on his cousin's belt. From that day Norman decided he would be just like Clarence

and even better. For three and a half long years, Norman waited and finally his big day came. He enrolled at UMR.

Bradley enrolled in school as UND. ENG. He didn't know what UND. ENG. meant, but then he didn't really care either. Norman, however, enrolled as a chemical engineer and already had sixteen programs entered into his HP41C (complete with two modules).

These two had a brief encounter in Physics 24 class one day and immediately Norman hated Bradley, but Bradley didn't care. As it were, Bradley had a mischie-

vous streak in him and decided he would pull a prank on Norman. After all, Norman had sat down by Bradley without leaving a seat between them. Well, while Norman was up getting brownie points with the professor before class, Bradley took Norman's calculator and while pressing the clear button, turned it on erasing all the memory in the 41C. He then quietly put the calculator back into its case and back on Norman's desk. Normally, the calculator would be on Norman's belt, but he wasn't wearing one that day.

When Norman came back

and tried to run a program on his machine, M-E-M-O-R-Y L-O-S-T glared up at him from the display. Norman was steamed. He got so riled up and infuriated that he stuck his tongue out at Bradley. Bradley just shrugged his shoulders with an expression that said "What are you lookin' at me for?" that Norman went home after class and put twice as many programs in his calculator as he had before. He was going to get even by getting the highest grade on the next

see page 12

Design contest

PHILADELPHIA, PA—The American Helicopter Society (AHS) and the Boeing Vertol Company are sponsoring a Rotary Wing Design Competition that is open to all full-time college and university students.

Guidelines for the design of the aircraft in the competition are to develop a high performance helicopter for combat search and rescue missions. The helicopter should be a twin gas turbine-powered aircraft capable of locating and rescuing four persons from any land or water situation. It should be equipped to provide emergency first-aid while transporting the survivors to safety. The aircraft will travel at a constant rotor speed to facilitate pilot workload. It will meet necessary performance requirements and have handling qualities compatible with military specifications. The aircraft design and flight characteristics must be able to serve the Army, Navy, Air Force and Marines. In order to be shipboard compatible, it must fold down to a minimum size of 40 feet in length, 12.5 feet in width and 16 feet in height. Advanced structural materials must be used in areas where an advantage can be shown.

Design teams can be comprised of up to five students and a letter of intent must be received by the Society by February 15, 1984. The complete proposal must be submitted by June 15, 1984 and winners will be announced August 15, 1984.

First prize is \$1,000, second prize is \$500 and third prize is \$250. Entries will be judged by a panel of aerospace engineers from government, industry and academia.

Complete entry information that includes specifications for mission profiles, handling qualities, crew and equipment, special requirements and powerplant characteristics can be obtained by writing Carole Katz, AHS, 217 N. Washington St., Alexandria, VA 22314.

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DONATIONS NEEDED: Donations of clothing for David Wilson, a University of Missouri-Rolla student who lost all of his belongings in a mobile home fire, can be taken to the UM-Rolla Office of Public Information, Building T-11 West. Wilson's most pressing needs are for casual clothes. His sizes are: jeans, waist 33, length 34; dress pants, waist 33, length 32 or 33; dress shirt, 15½; T-shirts or golf shirts, medium; and gym shorts, medium. The Office of Public Information is open from 8 a.m. to 5 p.m. Monday through Friday. Thank you for your help.

EARN EXTRA MONEY: Become an independent dealer selling ingenious art posters. Send \$2.50 for catalog and information to Castle Arts, P.O. Box 587A, Altamont, NY 12009.

Dearest Administration,

Why is it when I try to get help from some of my teachers, excuse me, researchers, during their office hours I either can't find them or I am unable to get a straight answer because they want me to "experience the accomplishment." Maybe they are expecting me to get a rise out of it, I'm not sure. I would appreciate it if you would ban the following during their office hours: 1) watering camels; 2) praying to Buddha; 3) practicing karate; 4) playing cloud physics, and 5) circuit or system design.

Your Buddy,
T. Parlor

ATTENTION COEDS: All Independents' come out to the Street Dance and Queen's Coronation Friday night starting at 8:30 p.m. Takes place at Tech Engine Club across from EE Building, featuring music by The Jettis. There's also the games at Lions Club Park on Saturday afternoon.

ATTENTION FRESHMEN: We would like to invite all freshmen with 14 or more credits and a GPA of 3.5 or above to attend the Phi Eta Sigma Honorary Fraternity smoker. It is at 7 p.m. October 6 in Room G-3 Chemistry-Chem. Eng. Building.

BOXERS NEEDED: Lambda Chi Alpha fraternity is looking for boxers for their 5th annual "Night at the Fights" to be held Friday, October 7. These fights are 3-round amateur bouts, so no experience is necessary. Prizes awarded to all participants. Practices are held every Tuesday and Thursday from 7-9 p.m. in the Intermural Wrestling Room of the Multipurpose Building. For more information call Russ Cooper at 364-9901.

ATTENTION COEDS: The residents of TJ's South Tower, 7th Floor announce their secession from TJHA. This action is taken based on the North Tower residents being allowed to build bunk or loft beds while the residents in the South Tower are not allowed to do the same. The 7th Floor South are proud of the fact that they are the first floor to join the Confederate Floors of the South Tower. We urge all South Tower residents to secede from TJHA and thus control your own destiny. Long live the South and the Confederate Floors of the South Tower.

Janet,

Can I have a repeat performance at this Street Dance?

Bill

To Those who Run and Bike at Night,

Running and biking are fine, but not when you run and bike along a road with no shoulder wearing dark clothing. I've met runners at night a couple of times now, and each time I was about 30 yards away before I could see them. The same goes for bikes. I came very close to giving a night biker a lesson in instantaneous acceleration because he had no reflectors on his bike. I hate to nag about this guys, but I don't want to get home with someone's leg attached to my bumper. Make yourselves more visible or find somewhere less dangerous to run and bike.

Sincerely,
A Nighttime Driver

To: Mr. Ludwig, KMNR Program Director,

One month of school and no program guides. What's the problem? Take the headphones off and let a little light into your brain.

An Avid and Concerned Fan,
"Don't Wanna' Listen to no KCLU!"

Moon,

Happy 19th to the world's greatest roommate. Get psyched for Saturday night and lots of L.A.!

Love,
"Mom"

FOR RENT: Need 1 or 2 to share 2-bedroom, living room, kitchen apartment, across from campus; central heat/A.C.; furnished, carpeted, cable TV, swimming pool, laundry facilities. Rent: \$175, if one; \$87.50, if two, plus share of utilities. Contact Ravi at 341-4675, 364-6599 or 364-7438.

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Listed in yellow pages under 'Dating Service'

FOUND: One calculator across from Comp Sci parking lot on Sept. 8. Call Tuny at 341-2596 and identify.

ATTENTION COEDS: Campus Young Democrats Organizational meeting Wednesday, September 28 at 7 p.m. in the Walnut Room, 2nd floor, University Center-West.

Dear Sheepman (Baaa),

So Good Day! You missed me while I was in town; maybe next time. Have a good time here in this hole of Rolla. (Graduation is worth it!)

Later,
Mr. Roboto

WANTED TO RENT OR BORROW: A Dot/Color-bar Generator to converge a TV set. Will need it over a weekend. Call 364-0933.

ATTENTION COEDS: Lambda Chi Alpha fraternity is having its 5th annual "Night at the Fights" on Friday, October 7 at 8 p.m. at Pennant Hall, behind Manor Inn. Tickets are only \$3.00 and all proceeds go to charity, so come see boxing at its finest for a good cause. UMR students—this is a good way to entertain Mom and Dad on Parents' weekend. That's Lambda Chi Alpha's "Night at the Fights" Friday, October 7. Tickets available at Keys Sport Shop or at the door.

ATTENTION DECEMBER AND MAY GRADUATES: EE, CE, Chem E, ME and E Management majors interested in employment opportunities in manufacturing management with the Proctor and Gamble paper products division, should submit resumes to the second floor of the Beuler Building, Room 201, no later than 3 p.m. on Friday, September 23.

ATTENTION COOP STUDENTS: EE, CE, Chem E, ME and E Management majors interested in employment opportunities in manufacturing management with the Proctor and Gamble paper products division, should submit resumes to the second floor of the Beuler Building, Room 201, no later than 3 p.m. on Friday, September 23.

ATTENTION COEDS: Representatives from the Proctor and Gamble paper products division will be sponsoring an informal seminar on September 26 at 4:30 p.m. in the Missouri Room, University Center-East. Coop students, December '83 graduates and May '84 graduates interested in manufacturing management are encouraged to attend.

ATTENTION COEDS: The AA Dropouts Club will be having a meeting northeast from the Materials Research Building, Friday, September 23 at 8:30 p.m.

SPACE AVAILABLE: Gutter spaces are still available for the big Street Dance, September 23. Make your reservations early (the Rolla Sanitation Dept. has requested that places be vacated by Sunday, September 25). That's north of EE.

Bill, Dave & Mat,

See you at TEC's Street Dance Friday. Let's Party.

Mary, Jane & Janet

Curtis,

Us girls will be looking for you at TEC on Friday.

Love,

Lisa, Lori & Pam

Hey Jill,

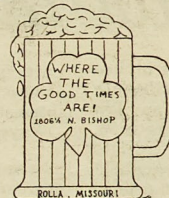
Can we do it again at the next TEC Street Dance?

Mark

ATTENTION COEDS: Olympic tryouts for the 12-Ounce Curl Team, Friday, September 23 at 8:30 p.m., north of EE. Serious competition is expected.

ATTENTION COEDS: A Missing Link Look Alike Contest will be held at TEC Street Dance, Friday, September 23 at 9 p.m.

Andy's Lounge



ALL DAY HAPPY HOUR
ANDY'S LOUNGE
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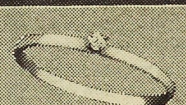
St. Pat's facts

St. Pat's 1984 was kicked off last Friday at the best Septemberfest ever. The good weather brought out a crowd that loved to party. Thanks to all who took the buses and made things easier for everyone.

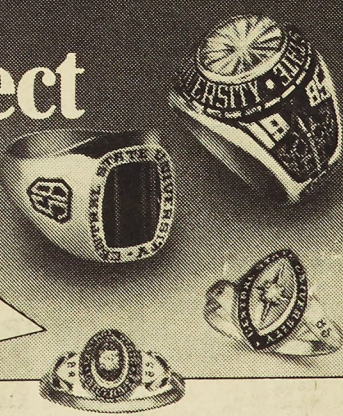
The winners of the 1984 Sweatshirt Design have been picked. In first place was Jason Dennis, a 1982 grad. His design will be on the sweatshirt. Second place was captured by Ziska Malsy of Key Sports. Ziska's design will be on one of the button designs. The other button design will be Scott Muskepf's of Delta Tau Delta with his third place design.

Congratulations to the winners and thanks to all who entered.

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Stick advises problem students

By
DARREN HAVERSTICK

Dear Stick,
I am a freshman coed majoring in mathematics. My problem concerns my psychology class. My instructor wants me to help him with a psychology experiment. He said he could use somebody with a good figure. I think he meant good with figures. Anyway, I am supposed to meet him at the Manor Inn, Friday night for the experiment. My friends think his intentions aren't honorable and that he doesn't even have a legitimate experiment planned. I don't believe

them. I overheard him talking to a friend that he had some intense studies planned on the human response to pleasurable sensations. I'm still confused though. What should I do?

Perplexed in Psyche 50

Dear Perplexed,
It sounds to me like your friends are just jealous. Look at it from their point of view.

A respected man of science picked you out of hundreds to help him perform experi-

ments which might be beneficial to the campus or the entire human race. Your contribution to science could

be a big plus in your quest for a job. If you don't believe this explanation though, maybe this is more down to earth. The man wants to jump your pretty little bones. Don't worry about it though. You'll probably get an easy "A" for the class. Besides, what's

more important—your reputation or your grades? Oh yeah, try to explain that to an interviewer.

Stick

Dear Stick,
Like, I've been reading your articles and I really freaked when I heard you had this nifty advice column. Like,

cause I got this problem and I need some answers. I got this, like, calculator problem. I got this TI-30 and it's really a bitch number machine but lately, like, I've been burnin' cause it's been acting up. Like, it's made wrong or something. Everytime I do ludes, the buttons are too far

apart, and I can't punch the right numbers. But, like, what's really funky is when I

do speed. Then the buttons are too close together. My grades in math are going downhill because of this problem. It's such a drag! Could you offer some advice,

like maybe suggest a different calcula-tor?

Zoned

Dear Zoned,

Like, dude, first you need an English refresher course and then you need to attend UMR in this dimension. You know the old saying, "People

on ludes should not calculate." As far as a different calculator is concerned, I suggest a TI-30 with a drug-free operator for optimum

effect. You seem to have misunderstood, math and space go together, not math and "spaced". Leave the drugs for classes where they're necessary, like philosophy.
Stick

If you have a problem, concern, or just want to waste my time, write me at DEAR STICK UMR MINER. Put your letter in the UMR Miner box in the Rolla Building. If I think your worth it, I'll print a reply.

Top women sought

UMR students are invited to participate in *Glamour Magazine's* 1984 Top Ten College Women Competition. Young women from colleges and universities throughout the country will compete in *Glamour's* search for ten outstanding students. A panel of *Glamour* editors will select the winners on the basis of their solid records of achievement in academic studies and/or in extracurricular activities on campus or in the community.

The 1984 Top Ten College Women will be featured in *Glamour's* August College Issue. During May, June or July, the ten winners will receive an all-expenses-paid trip to New York City and will

participate in meetings with professionals in their area of interest.

Anyone who is interested in

entering the search should contact Wanda Bolton,

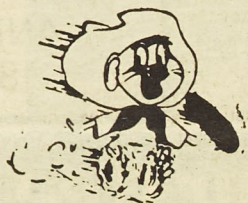
Competitions Editor. The address is: Conde Nast Building, 350 Madison Ave., N.Y., NY 10017. The deadline for submitting an application to *Glamour* is December 9, 1983.

ACM contest

The UMR Association for Computing Machinery Student Chapter announces a contest to design the cover of this year's Resume Book. The person with the winning entry will receive fifteen dollars (\$15.00).

Contest Rules:

1. Designs should be submitted on 8 1/2" x 11" paper.
2. Designs should have your name and local phone number on the back of the entry.
3. Designs must include the words:
University of Missouri-Rolla
Association for Computing Machinery
Student Chapter
1983-1984 Resume Book
4. Deadline to turn in entries is 4:30 p.m., September 23, 1983.
Entries may be hand drawn, dry letter transferred, or computer generated.
You need not be a member of ACM to submit your design.
Return your design to Room 325, Math/Computer Science.
You may enter as many designs as you want.



TK's PIZZA EXPRESS

364-FAST

(Next to Faulkner's Mini-Mart)

Rolla
1806 North
Bishop

	10-Inch Small	13-Inch Medium	15-Inch Large
CHEESE	\$3.55	\$5.50	\$8.00
CHEESE plus 1 ITEM	4.25	6.25	8.90
CHEESE plus 2 ITEMS	4.95	7.00	9.80
CHEESE plus 3 ITEMS	5.65	7.75	10.70
DELUXE	6.35	8.50	11.55

Deluxe includes cheese, pepperoni, ham, mushrooms, onions, green peppers, black olives and bacon.

EXTRA ITEMS .65 .75 .90

Toppings: Pepperoni, Ham, Mushrooms, Onions, Green Pepper, Pepper Rings, Bacon, Hamburger, Black Olives, Italian Sausage.

COUPON
(Must Specify
When Ordering)

FAST FREE DELIVERY
BUY ONE LARGE, GET IDENTICAL ONE FREE

Large Deluxe Pizza
\$4.00
NOT valid with two
for one special
pick-up or delivery
one coupon per pizza

COUPON
1 Large 2 Item Pizza
only \$5.00
pick up only good
11:00am-2:00pm
expires 10-30-83

COUPON
1 Small 1 Item
Pizza
plus litre of soda
only \$4.50
pick up only good
for 11:00am-2:00pm
coupon expires 10-30-83

In

Lisa Hoven
Representing GD
Lisa Hoven, Lisa
daughter of Mr. and
Hoven, St. Louis, Mo.
a sophomore in Eng
Management and
member of GDL,
serving on the Board
Governors. Her
include reading, h
riding, canoeing, an
a good time.

UM-R
industr
day
Sept. 27, 1983 10 a.m. to
Multi-purpose Building
Free exhibits by many
leading industries, businesses
University of Missouri

Phones
from pag

needs, propose a design
new system. Accord
Burton, a determina
UM's needs would be
interviewing emp
about what features t
ave would be use
examining the Univ
calling patterns and
viewing the "entire co
communications network."
The telephone bill
UM system last ye
cluding long distanc
and local service—w
million, said Burto
estimates that the Un
ould save roughl
million in 10 years by
own phones, with
these savings coming
of the 10-year peri
the phones are paid f

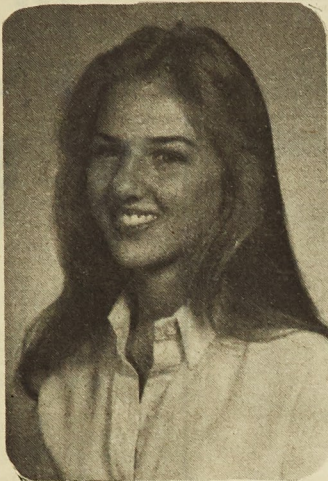
Independent's Queen

19

83



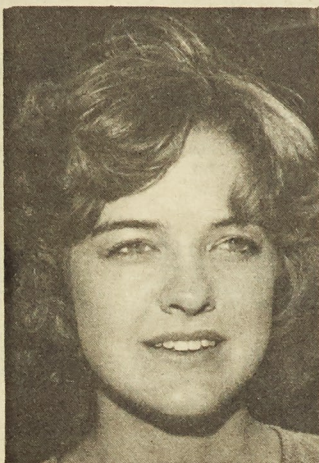
Lisa Hoven
Representing GDI is Miss Lisa Hoven. Lisa is the daughter of Mr. and Mrs. G. Hoven, St. Louis, Mo. Lisa is a sophomore in Engineering Management and is a member of GDI, currently serving on the Board of GDI Governors. Her hobbies include reading, horseback riding, canoeing, and having a good time.



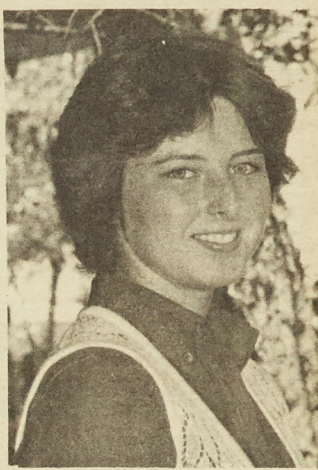
Nancy Wussler
Thomas Jefferson Hall Association presents Nancy Wussler. Nancy is a graduate of Brentwood High School in St. Louis, where she was Valedictorian and Scholar Athlete. She is interested in all sports and working with and meeting people.



Sandra Armistead
Campus Club proudly presents Sandra Armistead as their candidate for Independent's Queen. Sandra is the daughter of Mr. and Mrs. Larry Magerkurth, St. Charles, Mo., and is an Economics Major at UMR. Sandra has several baton twirling titles and has twirled with the Sugarettes Baton & Drum Corps. She toured Holland on a cultural exchange last summer and is interested in the stock market as she hopes to be a stock broker in the future. She also enjoys the outdoors and camping.



Amy Noel
RHA is proud to present Amy as our queen candidate. As a junior in Mechanical Engineering, Amy has many outside activities, such as RHA Intramural Manager, and GDI Board of Governors. She is also involved in cross-country running, drama, and music.



Carolyn McCowen
Tech Engine Club is proud to present Carolyn as our queen candidate. As a freshman, Carolyn is very active in the AFROTC program, for which she has a full scholarship, and she belongs to Tech Engine Club. Based on Carolyn's good looks, charm, and vibrant personality, we feel that she is the best possible choice for

UM-Rolla industry day
Sept. 27, 1983 10 a.m. to 4 p.m.
Multi-purpose Building
Free exhibits by many leading industries businesses
University of Missouri - Rolla

Phones from page 4

needs, propose a design for a new system. According to Burton, a determination of UM's needs would be made by interviewing employees about what features they believe would be useful, by examining the University's calling patterns and by reviewing the "entire communications network."
The telephone bill for the UM system last year—including long distance calls and local service—was \$6.5 million, said Burton. He estimates that the University could save roughly \$10 million in 10 years by buying its own phones, with most of those savings coming at the end of the 10-year period after the phones are paid for.

MINORITY AND WOMEN ENGINEERING PROGRAM TUTORIAL SERVICES Fall 1983 TUTORING IS AVAILABLE FREE OF CHARGE					
	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
David Hendricks EE 50, 110, 150, 160 Physics, EE 281, CE 230, Math 2, 4, 6, 8, 21, 22 302 Rolla Building	8:30 a.m. to 12:30 p.m.	10:30 a.m. to 1:30 p.m.	8:30 a.m. to 12:30 p.m.	10:30 a.m. to 1:30 p.m.	8:30 a.m. to 12:30 p.m.
Kelly Lofgren EE 61, 63 302 Rolla Building	3:30 p.m. to 5:30 p.m.	3:30 p.m. to 5:30 p.m.	3:30 p.m. to 5:30 p.m.	3:30 p.m. to 5:30 p.m.	8:30 a.m. to 12:00 noon
John Brown Com Sci 302 Rolla Building	5:30 p.m. to 7:30 p.m.	5:30 p.m. to 7:30 p.m.	5:30 p.m. to 7:30 p.m.	5:30 p.m. to 7:30 p.m.	
Todd Carroll Chem 1, 3, 5 Chem E 10, 20, 27 Phy 23, EM 50, Math		11:30 a.m. to 3:30 p.m.		11:30 a.m. to 3:30 p.m.	
Rob Watson Chem 1, 3, 5 Chem E 27, 141 302 Rolla Building	12:00 noon to 4:00 p.m.	2:00 p.m. to 4:00 p.m.		2:00 p.m. to 4:00 p.m.	
David Montague EE 61, Math 2, 4, 6, 8, 21, 22, 204 302 Rolla Building	10:00 a.m. to 12:00 noon	6:00 p.m. to 8:00 p.m.	10:00 a.m. to 12:00 noon	6:00 p.m. to 8:00 p.m.	10:00 a.m. to 12:00 noon
Tina Harms English 302 Rolla Building	2:30 p.m. to 4:30 p.m.	6:00 p.m. to 8:00 p.m.	2:30 p.m. to 4:30 p.m.	6:00 p.m. to 8:00 p.m.	
Janice Kappen Phy 23, 24, EE 61 302 Rolla Building	10:30 a.m. to 12:20 p.m.	11:15 a.m. to 12:20 p.m.	10:30 a.m. to 12:20 p.m.	11:15 a.m. to 12:20 p.m.	10:30 a.m. to 12:20 p.m.
Collin Christy Math 8, 21 Chem 5, Physics 23 Com Sci 63, 73 302 Rolla Building	9:30 a.m. to 11:00 a.m.	9:30 a.m. to 11:00 a.m.	9:30 a.m. to 11:00 a.m.	9:30 a.m. to 11:00 a.m.	

NOTE: Students needing tutorial services in courses not listed above should contact Floyd, or Brenda at the Minority Engineering Program Office. For evening tutoring, please use the west door of the Rolla Building.

ENTREPRENEUR WANTED

1. Want to make money?
2. Want to get a great recommendation in travel, banking, bookkeeping, marketing and advertising?
3. Are you an entrepreneur person who wants to be a tour director?
4. Do you stick with a job until you succeed?
5. We pay commission plus FREE TRIPS to ski and spring break areas.
6. Send us your resume with your address and telephone number. We will be in touch.
7. Send immediately to:
Coastal Tours, Inc.
Box 68 Forest, Ill. 60452 Phone: (312) 535-3212

Johnny's Smoke Stak

Hwy. 72 & Rolla Street
Rolla, Mo.

Ribs
Chicken
Shrimp
Steak

Sandwiches
Saladbar
Beer
Cocktails

Try Our Suday Buffet

Ribs—Chicken—Ham
Sausage—Burnt Ends
Bar-B-Que Beans—Hot Rolls
Ranch Fries—Corn On The Cob

Salad Bar
all you can eat — \$5.95
Open 11:00 am.

Placement Office report

Permanent

Campus interviewing for week of October 10-14, 1983

BORG WARNER CHEMICALS, INC., Parkersburg, WV

Will interview DECEMBER 1983, MAY 1984 GRADS ONLY with BS/Chemical Engineering for Process Engineer-Plant; Process Dev. Engineer - R&D; Group Engineer - Plant; BS/Mechanical Engineering for Design Engineer; BS/MS/Mechanical Engineering for Applications Engineer - R&D; PhD Chemistry (Organic/Physical) Polymer for Sr. Chemist - R&D. PERMANENT VISA REQUIRED. GRADS PREVIOUS TO DECEMBER 1983, SIGN BACK-UP LIST. Location: Parkersburg, WV; Ottawa, IL (Group Engr.) Interviewers: unknown Interview date: October 10, 1983 Number of schedules: 2

Priority sign-up: September 23, 1983
Regular sign-up: September 26, 1983

CORPORATE SOFTWARE PROGRAM

Will interview DECEMBER 1983, MAY 1984 GRADS ONLY with BS/MS/Computer Science or Electrical Engineering with Computer Science emphasis for Software Resources Development. Details will be posted at time of signups. MUST BE PERMANENT RESIDENT OR U.S. CITIZEN. Location: IL; AZ, TX, FL, MA Interviewers: unknown Interview date: October 10, 1983 Number of schedules: 1

MOTOROLA COMMUNICATIONS SECTION

Will interview DECEMBER 1983, MAY 1984 GRADS ONLY with BS/Electrical Engineering for Research & Development Engineering labs. Areas include linear circuit design, from audio through microwave frequencies; digital circuit and systems design; the application of micro-processors and mini-computers to signal processing and complex control systems; signal propagation and system simulation by computer. Additional description will be posted with signups. MUST BE U.S. CITIZEN OR HAVE PERMANENT VISA. Location: Schaumburg, IL Interviewers: unknown Interview date: October 10, 1983 Number of schedules: 2

GOVERNMENT ELECTRONICS GROUP

Will interview DECEMBER 1983 GRADS, MAY 1984 GRADS (COMPANY HAS REQUESTED THAT DECEMBER 1983 GRADS HAVE FIRST PRIORITY) with BS/MS/Electrical Engineering for six-month Engineer-in-Training Program leading to positions in research, development and production of state-of-the-art electronics hardware and systems for the Dept. of Defense, NASA and other government agencies as well as for selected high-technology commercial markets. U.S. CITIZENSHIP REQUIRED BECAUSE OF SECURITY CLEARANCE INVOLVED WITH GOVERNMENTAL CONTRACTS. Location: Scottsdale & Tempe, AZ Interviewers: unknown Interview date: October 10, 1983 Number of schedules: 1

MOBILE PRODUCTS DIVISION

Will interview DECEMBER 1983 GRADS ONLY with BS/MS/Electrical, Mechanical Engineering for design & research of two-way radios and manufacturing engineering which involves doing plant lay-outs. U.S. CITIZENSHIP OR PERMANENT RESIDENCY REQUIRED. Location: Ft. Worth, TX Interviewers: unknown Interview date: October 10, 1983 Number of schedules: 2

SEMICONDUCTOR PRODUCTS SECTOR - MOS IC GROUP

Will interview DECEMBER 1983 GRADS ONLY (MAY 1984 GRADS MAY SIGN-BACK-UP LIST - TO BE CALLED IF SCHEDULE DOES NOT FILL WITH DECEMBER 1983 GRADS) with BS/MS/PhD in Electrical Engineering for design, test, applications, marketing, product, process, device, quality engineering positions related to the manufacture of MOS Integrated Circuits (MPUs, Memories & Logic). U.S. CITIZENSHIP OR PERMANENT VISA REQUIRED. Location: Austin, TX Interviewers: unknown Interview date: October 10, 1983 Number of schedules: 1

SEMICONDUCTOR PRODUCTS SECTOR

Will interview DECEMBER 1983 GRADS ONLY with BS/MS/Electrical, Chemical Engineering for design, test, marketing, applications, software, quality assurance, sales & product engineering positions related to the manufacture of semi-conductors products. MAY 1984 GRADS MAY SIGN ON BACK-UP LIST ONLY. Location: Phoenix, AZ Interviewers: unknown Interview date: October 10, 1983 Number of schedules: 1

Priority sign-up: September 23, 1983
Regular sign-up: September 26, 1983

MOBIL OIL CORPORATION, Dallas, TX

INTERVIEW DATE OF OCTOBER 10, 1983 HAS BEEN CANCELLED.

R.R. DONNELLEY, Chicago, IL

Will interview DECEMBER 1983, MAY 1984 GRADS ONLY with BS/MS/Electrical Engineering, Engineering Management for Manufacturing Management Trainee; Electrical/Computer Systems Engineer. U.S. CITIZENSHIP REQUIRED. Location: Dwight, IL GRADS PREVIOUS TO DECEMBER 1983 MUST SIGN ON BACK-UP LIST. Interviewers: unknown Interview date: October 10, 1983 Number of schedules: 1

Priority sign-up: September 23, 1983
Regular sign-up: September 26, 1983

SOUTHERN CALIFORNIA GAS COMPANY, Los Angeles, CA

Will interview MAY 1984 GRADS ONLY with BS/Petroleum Engineering for Petroleum Engineer. Will provide staff expertise in general reservoir engineering studies of underground storage fields owned and operated by the company. Additional details will be posted with signups. U.S. CITIZENSHIP OR PERMANENT VISA REQUIRED BY COMPANY. GRADS PREVIOUS TO MAY 1984 MUST SIGN BACK-UP LIST ONLY. Location: Los Angeles Interviewers: unknown Interview date: October 10, 1983 Number of schedules: 1

Priority sign-up: September 23, 1983
Regular sign-up: September 26, 1983

SCOTT AIR FORCE BASE, Scott Air Force Base, IL

Will interview on October 10, 1983. INFORMATION IS NOT AVAILABLE AT THIS TIME. Priority sign-up: September 23, 1983
Regular sign-up: September 26, 1983

GENERAL MOTORS CORPORATION, Detroit, MI

Will interview DECEMBER 1983, MAY 1984 GRADS (PREFERENCE WILL BE GIVEN TO DECEMBER 1983 GRADS) with BS/MS/PhD in Mechanical, Electrical, Chemical, Metallurgical, Ceramic Engineering, Engineering Management, Chemistry, Computer Science, Math, Physics, Engineering Mechanics for Product Eng., Plant Eng., Production Eng., Industrial Eng., Production Supv., Reliability Q.C., Data Processing and Sales. U.S. CITIZENSHIP OR PERMANENT VISA REQUIRED BY COMPANY. Location: various Interviewers: unknown Interview dates: October 11-12; call backs: October 13, 1983 Number of schedules: October 11

October 12

- 1 - Mechanical Engr., Engr. Mechanics
- 2 - EE, Engr. Mechanics
- 1 - Computer Science
- 1 - Chemistry, Chemical Engineering (7 openings ea)
- 1 - Metallurgical, Ceramic Engineering (7 openings ea)
- 1 - Mechanical Engr., Engr. Mechanics
- 2 - Electrical Engr.
- 1 - Computer Science
- 1 - Engr. Management
- 1 - Engr. Management, Math, Physics (Morning: Math Physics; Afternoon: Engr. Management)

Priority sign-up: September 26, 1983
Regular sign-up: September 27, 1983

MOTOROLA, INC., Schaumburg, IL

Will interview for the following divisions. STUDENTS GRADUATING PRIOR TO DECEMBER 1983 SHOULD SIGN ON BACK-UP LIST ONLY.

see page 11

PLASTIC PENNANTS

Each 12" x 18" flag is made of 4-mil polyethylene plastic. 24 flags per 50' string. Flag colors alternate: white, blue, red, green & yellow. Custom colors also available.

50 ft.
string

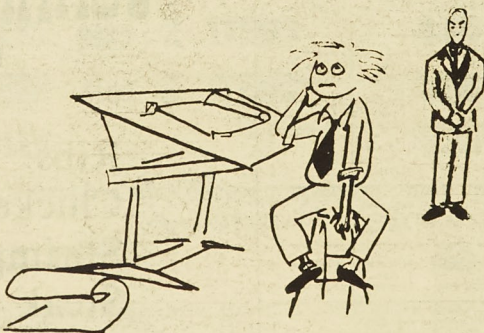
\$4.80

STAR SIGN COMPANY

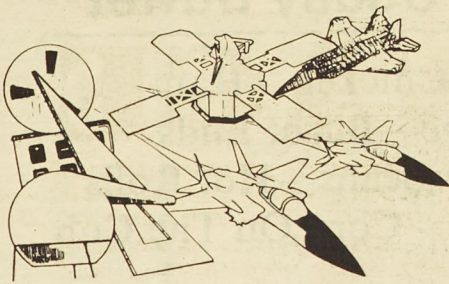
102 N. Bishop P.O. Box 1096
Rolla, MO 65401 314-364-3876

UMR SOPHOMORES: Will there be a job for you?

Let's face it, the science, engineering and technical job markets are NOT what they once were. Even positions of high demand (electrical, mechanical, aerospace, etc.) are NOT being filled due to the shaky economy! We've seen it in black and white: on the news: we've heard the tales of seniors searching high and low for that job they've spent 4.5 years of hard work to secure. Not very promising.



THE AIR FORCE CAN GUARANTEE YOUR JOB TWO YEARS BEFORE GRADUATION!



**AIR FORCE
ROTC**
Gateway to a great way of life.

But what kind of job? First and foremost the Air Force needs engineers. These engineers, for the most part, are given complete project responsibility, quite early in their careers, usually within the first four years. **The projects?** With the formation of the new Space Command in Colorado (1985-86), and with the growth and expansion of the Air Force Systems Command, the Air Force has opened a door to new and exciting job opportunities for scientists, engineers and technicians.

The job, the benefits, the security—these can mean a lot to someone contemplating the job world in two years. Air Force ROTC can give you more information on these diverse opportunities, as well as tailor a program for you, the 1986 graduate! Interviews will be held the month of October. Interested? Call or stop by:

**Air Force ROTC
Bldg. T-7
341-4925 Or4932**

What about you? Are you an honor student? Or do you think 2.0-2.5 GPA is high enough to get your foot into the door of some industrial concern?

And what would they offer you? A drafting table in back of some room, working as a junior engineer, precariously waiting for enough seniority years to move ahead, or feel secure?

There are options. One option is a job in the U.S. Air Force.



USSR is

By LARRY BE

There's no doubt a Soviet Union has some severe public relations problems over the last years. They've been invading biological weapons in Afghanistan and India. Their submarines keep being discovered in the waters around Sweden's installations. The Soviets have tried to invade last winter's West. And now they're paying the biggest public relations price ever, shooting down an airliner with 269 people on board.

Many observers, especially in the Soviet Union, are much of the above sort of public relations. They say that the Union profits from its reputation as a brutal nation which uses any means necessary to expand its influence or to exploit opportunities in other countries, leading to avoid confrontations with the Soviets.

Other observers at the Soviets simply public relations. They say the Soviets' philosophy of "Marxism-Leninism" holds that worldwide triumph of communism is inevitable, so any actions which require no justification other words, these people the Soviets consider relations to be the price of those who are on "the side of history."

But the Soviet Union worry about public relations and it does not appear only to be thought of

A Car
ILLINOIS

ON CAMPUS IN

OCTOBER 1

For the following degrees:

ELECTRICAL ENGINEERING

MECHANICAL ENGINEERING

ILLINOIS POWER

An Equal Opportunity Employer



USSR is incompetent

By LARRY BECK

There's no doubt about it, the Soviet Union has suffered some severe public relations setbacks over the last four years. They've been caught using biological weapons in Afghanistan and Indochina. Their submarines keep being discovered in the waters around Sweden's military installations. The Soviets blatantly tried to influence last winter's West German elections. And now this, maybe the Soviet Union's biggest public relations blunder ever, shooting down an airliner with 269 people in it.

Many observers, in this country especially, argue that much of the above constitutes just the sort of publicity the Soviets would like to receive. They say that the Soviet Union profits from its reputation as a brutal nation which uses any means it deems necessary to protect itself from potential threats, or to exploit opportunities to expand its influence. Such a reputation frightens other countries, leading them to avoid confrontations with the Soviets.

Other observers argue that the Soviets simply ignore public relations. They claim that the Soviets' guiding philosophy of Marxism-Leninism holds that the worldwide triumph of communism is inevitable. If so, any actions which further the progress toward this state require no justification. In other words, these people say, the Soviets consider public relations to be the problem of those who are on "the wrong side of history."

But the Soviet Union does worry about public relations, and it does not appear to want only to be thought of as some

kind of monster-nation, ready to pounce in any direction. The Soviets have repeatedly denied that they use biological weapons. They deny that their submarines probe the Swedish coast. Above all, they have desperately tried to convince the world that they did not shoot down the Korean Airlines jet just because it drifted into Soviet airspace.

Soviet leaders generally don't talk to the press much. You'll see Foreign Minister Andrei Gromyko fairly often and Communist Party Chairman Yuri Andropov occasionally, but you'll never see any Soviet military people talking to the press. And yet, in the last couple of weeks, the Soviets have trotted out both their top general and the pilot who shot down the jet to try to explain what happened. Clearly the Soviets feel that they have a public relations problem.

This problem, and the others that preceded it, are not the result of the world's having become aware of especially sinister Soviet aims. The aims of the Soviets are exactly the same as the aims of the people of any other nation: they want to keep what they have while grabbing whatever they can get from the rest of the world. Problems have arisen as a result of the utter clumsiness of their efforts on behalf of these aims.

Without thinking, they invaded Afghanistan. Now they're stuck there in a no-win situation, losing soldiers and equipment, and reaping

see page 12

Permanent from page 10

PROCTER & GAMBLE COMPANY, Cincinnati, OH
Will interview DECEMBER 1983, MAY 1984 GRADS ONLY with BS/MS/Chemical, Mechanical, Electrical Engineering, Engineering Management, Civil Engineering for Process/Chemical Engineer; Mechanical/Maint. Eng.; Team Manager/Supervisor; Project Engineer; Technical Engineer; Industrial/Staff Supervisor, Power & Control Eng. for Manufacturing.
Location: Cape Girardeau and St. Louis, MO
Interviewers: unknown
Interview date: October 11, 12, 1983
Number of schedules: 1 ea day

Will interview DECEMBER 1983, MAY 1984 GRADS ONLY with BS/MS/Chemical Engineering for R&D/Product Development - Process Development, Products Research, Technical Packaging.
Location: Cincinnati, OH
Interview: R.A. Spector
Interview date: October 11, 12, 1983
Number of schedules: 1 (October 11); A.M. Schedule ONLY (Oct. 12)

U.S. CITIZENSHIP OR PERMANENT VISA REQUIRED ON ALL PROCTER & GAMBLE SCHEDULES. GRADS PREVIOUS TO DECEMBER 1983 MUST SIGN ON BACK-UP LIST.
Priority sign-up: September 26, 1983
Regular sign-up: September 27, 1983

NCR-WICHITA, Wichita, KS
HAS CANCELLED THEIR INTERVIEW DATE OF OCTOBER 11, 1983. INTERVIEW DATE OF FEB. 14, 1984 IS CONFIRMED AT THIS TIME.

U.S. INDUSTRIAL CHEMICAL COMPANY, Tuscola, IL
Will interview DECEMBER 1983, MAY, JULY 1984 GRADS ONLY with BS/Chemical, Mechanical, Electrical, Metallurgical Engineering for Process Engineer, Maintenance Engineer. GRADS PREVIOUS TO DECEMBER 1983 MUST SIGN ON BACK-UP LIST ONLY. PERMANENT VISA REQUIRED BY COMPANY.
Location: Tuscola, IL
Interviewers: unknown
Interview date: October 11, 1983
Number of schedules: 1
Priority sign-up: September 26, 1983
Regular sign-up: September 27, 1983

THE TIMKEN COMPANY, Canton, OH
Will interview DECEMBER 1983, MAY 1984 GRADS ONLY with BS/Electrical, Mechanical Engineering, Engineering Management, Metallurgical Engineering for Associate Engineer. U.S. CITIZENSHIP REQUIRED. PREVIOUS GRADS SIGN ON BACK-UP LIST ONLY.
Location: Canton, OH
Interviewers: unknown
Interview date: October 11, 1983
Number of schedules: 1
Priority sign-up: September 26, 1983
Regular sign-up: September 27, 1983

UNION ELECTRIC COMPANY, St. Louis, MO
Will interview DECEMBER 1983, MAY 1984 GRADS ONLY with BS/MS/Electrical, Mechanical, Nuclear Engineering. Job opportunity list will be posted with signups.
U.S. CITIZENSHIP OR PERMANENT VISA REQUIRED BY COMPANY. GRADS PREVIOUS TO DECEMBER 1983 MUST SIGN ON BACK-UP LIST ONLY.
Location: St. Louis Metropolitan area; Nuclear Plant, Fulton, MO
Interviewers: unknown at this time
Interview date: October 11, 1983
Number of schedules: 2
Priority sign-up: September 26, 1983
Regular sign-up: September 27, 1983

NORTHERN ILLINOIS GAS COMPANY, Aurora, IL
Will interview DECEMBER 1983, MAY 1984 GRADS with BS/Geological, Electrical, Petroleum, Civil, Mechanical Engineering, Engineering Management. Engineering department assignments in the first 12-18 months typically include project experience in pipeline, underground storage and station design engineering as well as experience in gas system planning. COMPANY WILL INTERVIEW "FORMER" GRADS IF THEY HAVE NOT PREVIOUSLY INTERVIEWED WITH NORTHERN ILLINOIS GAS. PREFERENCE WILL BE GIVEN TO STUDENTS WITH U.S. CITIZENSHIP.
Location: Naperville, IL
Interviewers: unknown at this time
Interview date: October 12, 1983
Number of schedules: 1
Priority sign-up: September 27, 1983
Regular sign-up: September 28, 1983

AT&T, Kansas City, MO
Will interview DECEMBER 1983, MAY 1984 GRADS with MS/Computer Science, Electrical Engineering, Operations Research, Mathematics, Mechanical Engineering for Research, Development and Design, and Systems Engineering. For a number of Technical Staff (MIS) positions, they seek Master's Degree candidates trained in Electrical Engineering (with an interest in systems engineering, software design, system design, and digital electronics), Computer Science (Hardware and Software) Operations Research and Mechanical Engineering. U.S. CITIZENSHIP REQUIRED.
Location: Bell Telephone Laboratories, New Jersey, Indian Hill, Merrimack Valley
Interviewers: unknown
Interview date: October 10, 11, 1983
Number of schedules: 6 each day
Priority sign-up: September 23, 1983
Regular sign-up: September 26, 1983

INTERVIEWS FOR AT&T WILL BE HELD IN CENTENNIAL HALL.

McGraw-Edison POWER SYSTEMS DIVISION, Pittsburgh, PA
Will interview DECEMBER 1983, MAY 1984 GRADS (DECEMBER GRADS WILL BE LIMITED TO ONLY 1/3 OF THE SCHEDULE - 2 OPENINGS FOR MORNING, 2 OPENINGS FOR AFTERNOON SIGNUPS) with MS/Electrical Engineering for Systems Engineering; MS/Electrical Engineering or Computer Science for Advanced Control Technologies. U.S. CITIZENSHIP REQUIRED BY COMPANY.
Location: Pittsburgh, PA area
Interviewers: unknown
Interview date: October 12, 1983
Number of schedules: 1
Priority sign-up: September 27, 1983
Regular sign-up: September 28, 1983

CANCELLATION: Firestone Tire & Rubber has cancelled their interview dates of November 8, 9, 1983.
Sonat, Inc. has cancelled their interview date of October 17, 1983.

INFORMATION MEETINGS: Schlumberger Central Region, Dallas, will hold a pre-recruiting meeting on October 3, 1983, in the Mark Twain Room from 6:30-10:00 P.M.

PROCTER & GAMBLE, Cape Girardeau plant, has requested resumes of students who plan to interview with them on October 11, 12, 1983. PLEASE TURN THEM IN TO JOAN, 2nd FLOOR PLACEMENT OFFICE, BY FRIDAY, SEPTEMBER 23, 1983.

PLEASE NOTE: Company back-up lists will be available in sign-up area only as follows:
(1) After priority signups have filled (during sign-up hours)
(2) On regular sign-up day (during sign-up hours)

Thereafter, they will be available for two days only on Second Floor, reception area of Placement Office -- NO EXCEPTIONS.

NEW SIGN-UP HOURS: 8:30-11:00 A.M.
1:00-3:30 P.M.

Summer

Campus interviewing for week of October 10-14.

Signups for the following company will be held DURING THE AFTERNOON ONLY on September 27, 1983. Company will be holding afternoon interviews ONLY. Signup hours are: 1:00-3:00 P.M.-UNIVERSITY CENTER WEST.

PROCTER & GAMBLE COMPANY, Cincinnati, OH
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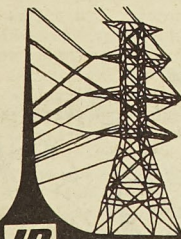
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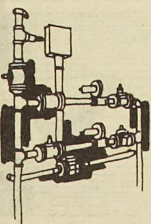
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CENTENNIAL HALL



"Two Students"

from page 6

test, and especially by beating Bradley's score.

Bradley didn't care. Well, Norman ended up with the highest average that semester and Bradley was close to the bottom, but he didn't care.

Things went that way for both Norman and Bradley throughout their college careers. Norman stayed home every night studying diligently and putting new programs in his calculator. He was also the best student in every class and had a GPA of 4.0, .02 points higher than his cousin Clarence's. He had done everything he had set out to do and only graduation was left.

Bradley, on the other hand, had finally decided on M.E. as a field of study. He didn't know what M.E. stood for either, but he didn't care. He skated on thin ice through most of his classes and on a few occasions the ice broke and he had to take the classes over, but he didn't care. His study habits were quite different than Norman's. Most of Bradley's time was spent with his girlfriend, eating an occasional breasts of chicken dinner, and going to parties and concerts on the weekends. He would try to study the night before a test but always caught himself thinking about other things. He would balance his pencil on the eraser or find the

square roots of random numbers on his mini-calculator. He could never really get into his studies.

Well, both Norman and Bradley were supposed to graduate the same semester. (Bradley had gone to school in the summers because his girlfriend did.) When it came to finals week, Norman studied more than ever.

Bradley had four finals all scheduled for the same day, but he didn't care.

A big blow came to Norman when he discovered that he was going to get a "B" in one of his classes. The professor had said, "There are no excellent students, therefore, no student should get an 'A'."

As soon as Norman realized he would get a "B" he

just cracked up. His GPA fell to a 3.975 (less than cousin Clarence's 3.95). He had failed. He went up to the roof of the highest building in Rolla, walked over to the edge, looked down to the streets below... and then shot himself. He didn't get his diploma either.

Meanwhile Bradley, attempting to study the night

before his finals, had a brainstorm while daydreaming as usual. He had been sitting at his desk twirling his plastic ruler on his pencil and came up with an idea on how to modify the hydraulic system of the main rotor on the military's XG3-2 helicopter, which would increase the overall efficiency of the system. He patented his idea

and went on to become one of the top names in military aviation. Like Norman, he never graduated from college, but he didn't care.

So just remember this story when you find yourself daydreaming about everything except your homework. It will make life at UMR a whole lot easier.

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USSR

from page 11

international condemnation, all for the sake of preserving a communist government that is threatened not only by Moslem rebels, but also by a rival communist group!

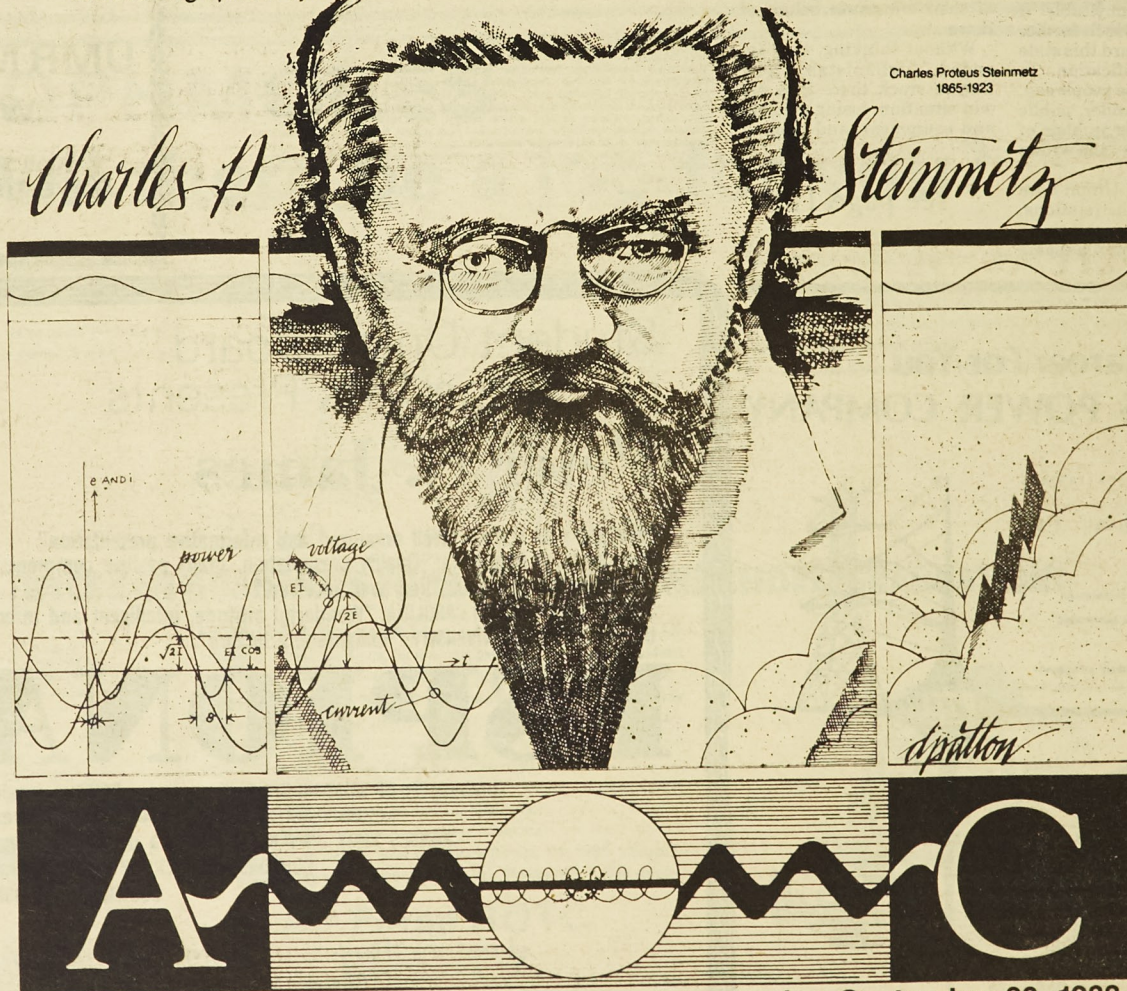
The Soviets have been testing biological weapons in out-of-the-way places, believing, stupidly, that no one would notice.

They have repeatedly antagonized Sweden for no good reason, driving a neutral country towards NATO.

They so crudely tried to frighten the West Germans into voting for the leftist Social Democrats that they assured the continued control of the German government by the rightist Christian Democrats.

And now they've shot down a harmless 747. The latest (U.S.) information indicates that the Soviets did so not to prove how tough they were, but because they were so inept that they mistook the airliner to be a reconnaissance plane.

Incompetence, that's the cause of the Soviet Union's chronic public relations problem. The Soviets, I think, honestly want to be better liked around the world. They realize that the good wishes of others can be very helpful toward achieving one's ends. The Soviet leadership just doesn't seem to know how to avoid doing things that people throughout the world find offensive. That's really too bad, for them and for the rest of us.



Our Greenville Division will be on campus interviewing September 30, 1983



Sports

MISSOURI MINER

Thursday, September 22, 1983

Page 13

Football glory

"It's good to win!"

By CHRIS COLONA

"It's good to win!" sums up the consensus of the Miner Football Team following their decisive 17-7 win over Missouri Valley Saturday on the Miner's home field. UMR rebounded from last week's 35-28 loss to Missouri Western with a solid defensive performance and several key plays on offense. "We showed much improvement due to a dedicated effort to cut down on mistakes this past week," commented head

coach Charley Finley on the Miner's performance. "We still don't show the consistency we need this season. And we need more production from our passing game which means more improvement."

The defensive play was the bright spot for the Miners Saturday. Led by MIAA Player of the Week, Ricky Caruthers, the Miners allowed only 46 yards rushing and 113 yards passing. Missouri Valley was held in check all afternoon as the defense forced three

fumbles and one interception on their way to setting up one of the Miner touchdowns. Linebacker Glenn Wilhelm teamed with Ricky Caruthers in playing an instrumental part in stifling the Missouri Valley offense.

"I was very pleased with our defensive play Saturday, especially Ricky (Caruthers) and Glenn Wilhelm. We can't sit back and relax, though. We still need a lot of improvement and we've got to strive to do better if we're going to take on Pittsburg State next

week," stated defensive coach Chuck Broyles.

Offensively, the Miners rushed for 167 yards led by Randy Shed's 64 yards on 13 carries. Quarterback Chris Nisbet completed 3 of 9 passes for 45 yards and one touchdown contributing to 212 yards total offense. Left offensive tackle, Jeff Hager (6'3"-235 lbs.) stood out as having an exceptional game. A pleasant surprise for the Miners came in the package of freshman punt-returner, Vernon Huggans. Vernon returned 5 punts for 113 yards with a 74-yard touchdown to his credit.

The Miners are currently in preparation for September 17th battle with Pittsburg State at Pittsburg, Kansas. Any predictions Coach Finley? "Pittsburg is always very big and very strong. We'll definitely need to be prepared and ready for anything Saturday."

The Miner's return to Rolla on September 24th to take on the University of Evansville in a 1:30 p.m. contest.

(September 24) at the football stadium.

Kick-off is 1:30 p.m. Evansville captured the NCAA Division II passing crown in 1982, and is again relying on the passing game as its main weapon. The Miners defeated the Purple Aces 14-10 last season in Evansville, and hold a 3-0 series advantage against the visitors.

The Miners will be paced offensively by quarterback Chris Nisbet and running backs Randy Shed, Keenan Curry, Mike Schafer and James Hoy. Defensive leaders in the early part of the season have been defensive end Rickie Caruthers, linebackers Glenn Wilhelm and Steve Davis and defensive

backs Ken Zerkel and Brian Bradley.

Caruthers was named MIAA "Player of the Week" on defense two weeks ago, following a ten-tackle, two-quarterback sack effort against Missouri Valley. The Miners won that home opener 17-7 and will shoot for their second straight home victory before heading into MIAA action October 1 at Lincoln University.

Miner conference home games this year are October 8 versus Northwest Missouri (Parents' Day), October 22 versus Central Missouri (Homecoming) and November 12 against MIAA champion Northeast Missouri. All games begin at 1:30 p.m.



Goalie Lisa Fromhoff shows her stuff during practice.

Debut a success

By TRACY BOLAND

"We interrupt this newspaper for a very important sports bulletin . . ."

Talk about starting off on the right foot! The Lady Miners began their season with a decisive victory over Lindenwood College. This past Saturday was the date that the Miners made their debut, out-shooting, out-hustling and out-scoring the Lindenwood Lions, with a final score of 1-0.

UMR jumped out on top after only two minutes when Janet Stones drove the ball past an opposing back and then fired it into the net, while the Lindenwood goalie made a futile attempt to stop it.

For the next 85 minutes, the team continued the momentum, taking 21 shots on Lindenwood, compared to the Lions' 8 shots on UMR.

A couple of the more impressive shots were by Jan Wilkerson and Janet Stones. Wilkerson sent the ball across the Lindenwood goal mouth to a waiting Kim Mimms, who was denied a goal when the Lions' goalie kicked it out of bounds. The earlier attempt had Stones pile-

driving the ball at the Lindenwood goalie, who bobbled it onto the ground, where Jan Wilkerson took a shot that went just wide of the post.

Angie McEntire, Gina Tonsi, and Eve Watkins had particularly good days offensively as each had 2 or more shots on the Lions' goal.

Defensively, Susan Shrum and Joan Gleich each made key plays which helped avoid Lindenwood attempts to score. Essential to the Miners success at shutting down the Lions' offensive drives was goalie Lisa Frumhoff, who broke several tension-filled moments with excellent saves. Frumhoff chalked up her first shut-out of the season against the Lions, and is on her way to another low goals against average.

Paul McNally, whom all of you who read the Miner with

any regularity at all know, is the coach of both the men's and women's soccer teams, had many positive things to say about the Lady Miners performance Saturday. "The weather in St. Charles (where the Lindenwood campus is located) was definitely not ideal soccer weather. The temperature was in the high 90's and there was no breeze to speak of. On top of that, the astroturf surface radiates a lot of heat. The result was that the women had to dredge up every bit of energy to keep control of the game. They had to hustle after every ball, mark up on every Lindenwood player and make the offensive run when necessary."

"Another disadvantage the women faced," he continued,

see page 14

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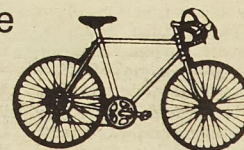
The University of Missouri-Rolla football team hosts the University of Evansville Purple Aces this Saturday

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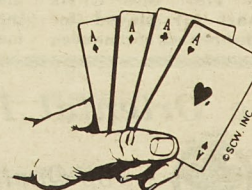
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M-Club

Athlete of the week

The M-Club is proud to present this award to Rickie Caruthers of the UMR Football Team. Rickie played a decisive role in the win over

Missouri Valley with 16 tackles and 2 quarterback sacks while tackling runners for 26 yards of losses. His

performance gained Rickie the MIAA Defensive Player of the Week. Congratulations Rickie!

Women's soccer

from page 14

"was that some of the players were suffering minor injuries. Janet Waeckerle's right leg was acting up and so she could only play short intervals at a time. One of our wing-backs, Lisa Schipper, strained some ligaments and had to sit the game out. Chris Waeckerle (Janet's sister) is still recovering from torn muscle fibers and was unable to play. All of these combined meant that we were not able to substitute as frequently as I would have liked, which in turn meant that the women had to play longer intervals than normal. Laura Douglas, Sandy Hall and Chris Brillhart all played for extended periods of time even

though they were very tired. Another consequence was that we were forced to sub members into positions they weren't really familiar with. But even under these adverse conditions, the women put forth a tremendous effort, and proved they have an undeniable right to play in a league with teams like SIU, UMSL and the University of Wisconsin."

This weekend, the Miners will participate in the UMSL tournament against such teams as Lindenwood, University of Wisconsin, SIU-Edwardsville and maybe even UMSL depending on how the first couple of matches turn out. All of the

UMR opponents are far up in the hierarchy of women's soccer, and victories for the Miners would be indicative of their success for the rest of the season.

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Kickers split two

By CHRIS COLONA

Last weekend, the men's soccer team went "home" to St. Louis to play in a two game set at University of Missouri-St. Louis. UMR lost its first game of the Twinbill to Sam Houston State of Houston, Texas, 3-0, but came back and dominated Xavier University of Cincinnati, Ohio, 4-1.

Opening against Sam Houston State, the Miners didn't play well. "We were very complacent, not mentally in the game," criticized Coach Paul McNally. He went on to say, "We were making mistakes we normally don't make. Sam Houston was a respectable team, but we've already beaten two better teams." It was the most goals allowed by the

normally tight UMR defense and also the first game the Miners had failed to score.

The reason St. Louis is almost like home to the soccer team is most of the players for Rolla, past and present, came from St. Louis. With alumni, parents and friends, the Miners frequently get more fans there than at home. On Saturday, the Miners gave their fans a lot to cheer about when they played the well respected Division I school, Xavier University.

Running their record to three wins against two losses, Rolla played one of its strongest games of the season. Behind two goals and one assist from sophomore Andy Carpenter, the Miners won 4-1 in a game that could have been a "run-away". Three times freshman Mike

Lane broke alone against the goalie unsuccessfully. Ben Birch played a strong goal during the contest and the rest of the defense added its usual strong play.

Besides Carpenter's outstanding play when coming off the bench, the team received good performances from everyone. Coach McNally rated sophomore John True's play as "his best match to date," and complimented Captain Matt Budd for "taking an extremely fast kid of Xavier's and denying him the ball for 90 minutes."

This week Rolla travels on its first "real" road trip as the Miners visit Northeast Oklahoma, Missouri Southern and Rockhurst. The next home match will be Saturday, September 23 against Maryville.

Water polo top club

By ANNE WERNER

Water polo is a rather wet combination of soccer, hockey and basketball. It combines the excitement and challenge of these three sports into one game. UMR is the home of one of the best water polo teams in the United States.

The UMR water polo team is not a member of the NCAA, but they do play against the top NCAA teams in the country. The team is supported by the Student Council and by the team members. There are no water polo scholarships and members pay for transportation to all the tournaments. According to Coach Bob Pease, aside from the big NCAA teams, Rolla is the #1 club team in the nation. Indiana University is Rolla's closest rival team. Other major opponents this season will be Loyola of Chicago, which Rolla will meet two or three times and Air Force, which Rolla sees only once this season.

Indiana University. On October 1, Rolla will host the Bud Light Invitational Water Polo Tournament. It is the only weekend during the season that the team plays at home. Indiana University, University of Arkansas-Little Rock, Arkansas Water Polo Club, Principia, and SIU-Carbondale are some of the teams that will be participating in the tournament here.

Coach Pease commented that this year's team has excellent starters. However, the team does lack depth and experience in the reserves. There are sixteen players on

the team. Top starters include goalie, Ralph Roesler, Joe Pericich, Jerry Flowers, Paul Pericich, Doug Irmie, and Ralph Thielking. There are no freshmen on the team this year.

The greatest strength, senior Joe Pericich says, are "speed, brains, and good looks." When asked why he plays water polo, Joe commented, "It's fun and you get to travel a lot."

Don't miss the team in action October 1 here at Rolla at the Multipurpose Building Swim Pool. There will be a water polo party afterwards to help support the team.

WEEKEND OF CONTEST

September 17
September 24
October 1
October 8
October 15
October 22
October 29
November 5

Indiana Invitational
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Arkansas Invitational
Loyola Invitational
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Men's XC fourth at AMI

By
DAN LICHTENWALNER

Last Friday, the UMR men's cross-country team traveled to Mizzou for the All-Missouri Invitational. Stiff

competition was expected and that's what they got. The teams UMR competed against were Mizzou, Lincoln, CMSU, NEMSU, Westminster, SMSU, William Jewell, and Central Metho-

dist.

When the scores were tallied, Mizzou came on top easily with 19 points. Their newly-acquired Norwegian and South African took first and second, respectively.

Southwest followed with 56 points, then Northeast with 61 points, UMR with 105, Central Missouri State with 117, Westminster with 200, William Jewell with 250, and Lincoln and Central Metho-

dist. with no team score. Some good Miner performances helped them to beat CMSU for the first time in several years. Jim Bullard ran another outstanding

race, finishing 10th in 25:46. Dan Marley also ran well, finishing 18th in 26:28, followed closely by Keith Smith in 20th with a 26:31. Other top Miner finishers were: Pete Lichtenwalner, 26:51 (28th); Curt Elmore, 27:08 (35th); Bruce Berwick, 27:22 (41st), and John Borthwick, 27:26 (43rd).

The Miners showed that they could hang in with the toughest teams, and they are

only going to get better as the season progresses. The only key is to get the whole team healthy and strong by Conference, which will be held in Rolla this year.

Next week the Miners will send one team up to Southwest Baptist, and the rest of the team will stay home to take on the School of the Ozarks, September 24 at 11:00 a.m. Come and watch as the Miners "show their stuff".

Spring IM - the end

By BOB GAYNOR

Intramural sports enthusiasts throughout the University have probably wondered if the Miner knows that they exist this school year. We do, and a rare species (Writeris Intramuralis) has returned to pick up where his predecessor left off.

Last spring's I.M. season closed with a bang as three I.M. records were broken in men's track. The mile run, the mile relay, and the high jump each had new marks set as Sigma Epsilon took the team

honors. Their 66 points far outdistanced the 50 points earned by second place, Sigma Pi, and the 46 won by Pi Kappa Alpha.

The 175 points that Sig Ep earned wasn't enough to overtake Pi Kappa Alpha for the overall I.M. crown. The Pikes squeaked by Sigma Nu thanks to their third place finish in track while Sigma Nu's fifth place finish left them seven points shy in the yearlong battle. Here are the Top 5 for the final men's I.M. point race:

1. Pi Kappa Alpha—

- 2983.5 points
2. Sigma Nu—2976.5 points
3. Tau Kappa Epsilon—2807.5 points
4. Sigma Epsilon—2686.0 points
5. Beta Sigma—2600.0 points

On the women's side, the Stardusters trounced the women of RHA and Kappa Delta to easily capture the women's track top spot. The Stardusters' 76 points left RHA 17 points behind while Kappa Delta fell 27 points short.

Lambda Chi/Triangle
Sigma Nu/TKE
Tech/Pikes
APHIA/KAPsi
Sigma Tau/ABS
RHA/CCH

year, ask Dennis down at the I.M. fields. He won't mind telling you that Sigma Nu has shown what it takes to leave the opposition behind. But look out for Kappa Alpha. Their hard-fought win over the Tekes last week leaves them at 2-0 also. This week's games should have separated the division a bit more.

Next week's schedule looks like this:

MONDAY—
Campus/Phi Kappa
Delta Tau/Kappa Sigma
ACACIA/ABS
Sigma Chi/CCH
Air Force/TJ
TUESDAY—
White Stars/GDI
KA/Beta Sigma
TJ-North/AWS
ZTA/Stardusters
GDI/AEPI
WEDNESDAY—

I.M. football report

By BOB GAYNOR

Intramural football is in full swing as two weeks of competition have been completed by September 18. On the women's side, three undefeated teams remain of the ten participating. AWS' first week cake walk over ZTA, 31-0, ties them with the White Stars, currently 2-0 with an early forfeit and a second week victory over RHA. Also, with a perfect record is Chi Omega after their shutout of ZTA.

For the men, eleven of 31 teams are still in the ranks of the undefeated. Sigma Tau Rho has had two 28-0 shutouts and Sigma Nu has won by 14-0 and 32-0 scores to stick out as the most impressive teams so far. If you're wondering who's going to take the title this

Lady runners hurting

By TRACY BOLAND

Last Friday, the UMR Women's Cross-Country Team traveled to Columbia to participate in the UMC Invitational. Other schools represented were Southwest Mo., Southeast Mo., and Central Mo., all with very strong teams and individual runners. Of approximately 49 runners on a 5000-meter course, the Miner's top finisher was Gail Halsey, with a final time of 21:49. She placed 29th overall.

Jill Cameron, Karen Penney, Karen Olsen and

Amy Noel comprised the rest of the UMR team and helped place the Miners fifth overall. For those readers interested in such statistics, Cameron finished 33rd with a time of 22:28; Penney, 37th, at 23:19; Olsen, 41st, at 24:11, and Noel, 46th, at 27:10.

Sarah Preston, the coach of the women's team, said that the women kept close to pace during the first two miles, and that she felt the team would improve as the season progresses. She also believes that the women are capable of dropping an average of 2

minutes off of their present times, and will have the team working toward this goal in anticipation of their upcoming home meet against the School of the Ozarks at 11:00 a.m., Saturday.

One of the disadvantages that the team faces is the lack of runners. Five people are needed for a team in a meet, and UMR has only five women that are presently uninjured. Coach Preston said that it is not too late for interested women to join the cross-country team, and they should see her for details.

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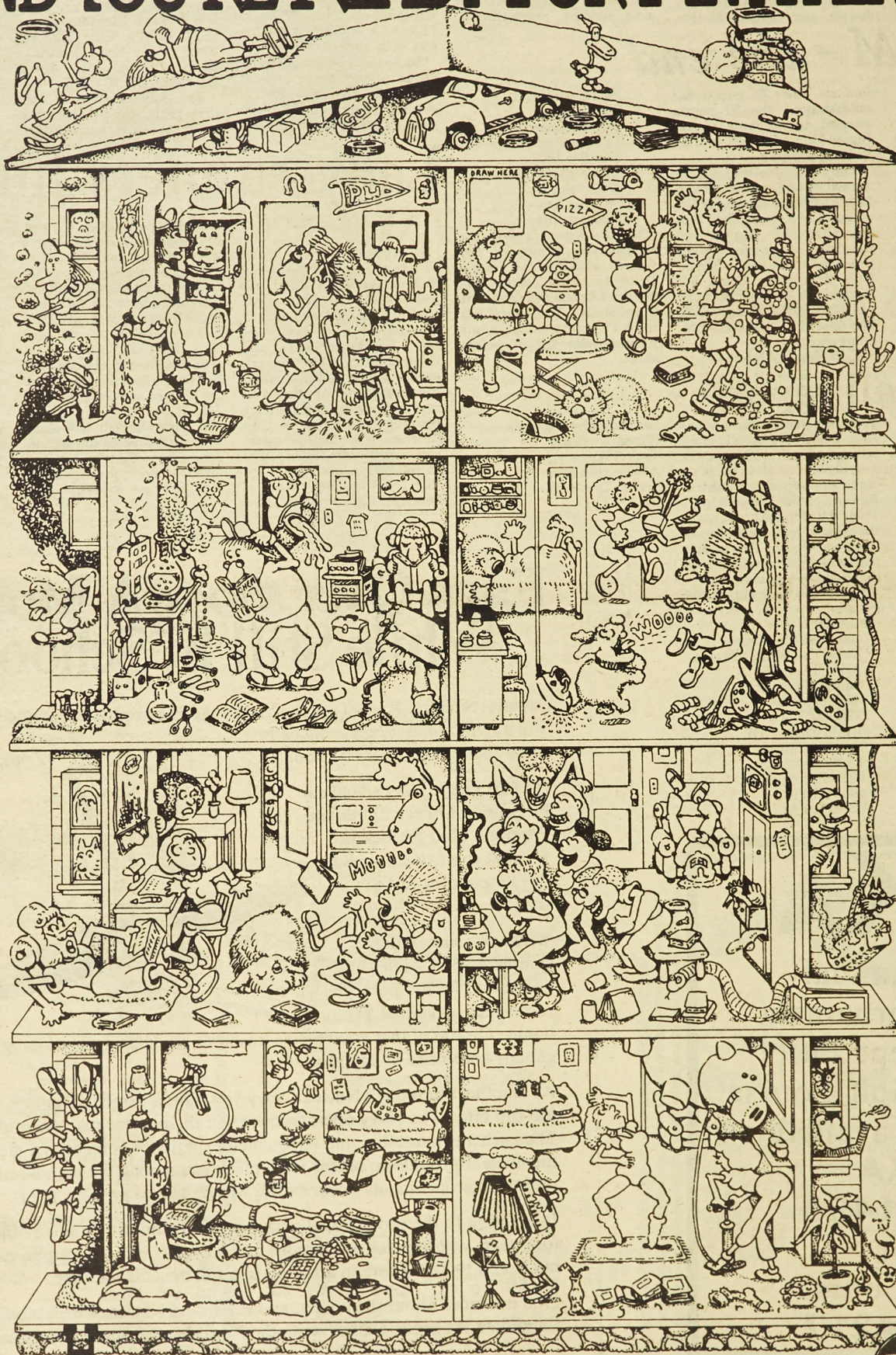
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Volume 72, No.

V.H. McNu

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in the winter.

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the library falls i