



05 Sep 1990

The Missouri Miner, September 05, 1990

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Missouri Miner



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

September 5, 1990

Volume 79, Number 3

Twenty pages

Watson receives patent for invention ASUM completes effective term

News & Publications SOURCE

Dr. John L. Watson, chairman and professor of metallurgical engineering at the University of Missouri-Rolla, has received a patent for his invention "Multi-Step Process for Concentrating Magnetic Particles in Waste Sludges" from the United States Patent Office.

According to Watson, the invention presents a novel, sequential, multi-stage, multi-force process for dewatering sludges which have high concentrations of magnetic particles, such as waste sludges generated during steelmaking.

"This process can increase the solids concentration of steelmaking sludges in a efficient and economic manner," Watson says.

He explains that the process has advantages including the conversion of hazardous wastes into economic resources for recycling as furnace feed

material, and the dramatic reduction of the volume of waste material which must be disposed.

"The dewatering process has considerable potential for the treatment of mineral sludges to permit more efficient disposal, storage, or recycle," Watson adds.

Watson joined the UMR faculty in 1981. He received a B.S. degree in metallurgy and mining from the University of Nottingham, England, in 1966, and a Ph.D. degree in materials from the University of Bristol, England, in 1971.

Before coming to UMR, Watson was a visiting professor at the South Dakota School of Mines in Rapid City. He also previously served as a senior lecturer at the University of Otago, Dunedin, New Zealand, and as a lecturer at the Western Australia School of Mines in Kalgoorlie, Australia.

Watson also was a research assistant at Rolls Royce Engineering, Bristol, United Kingdom, and served as

plant investigator and plant supervisor at the Imperial Smelting Corporation, Bristol, U.K.

His research interests are in the areas of simulation and control of mineral beneficiation processes with special reference to microcomputers and new mineral separation processes.

The recipient of an MSM-UMR Alumni Association Outstanding Adviser Award and two UMR Faculty Excellence Awards, Watson is a member of the Society of Metallurgical Engineers and the American Institute of Mining, Metallurgical and Petroleum Engineers. He also is a member of the Fine Particle Society and is the regional editor (North America) for the Journal of Mineral Engineering.

He is a member of Alpha Sigma Mu, Triangle and Sigma Xi honoraries. He is the author of a number of articles and scholarly publications.

ASUM SOURCE

Last session was a very successful one for the Associated Students of the University of Missouri (ASUM), five of the bills they supported were passed into law. The victory that is most important to UMR is the granting of funds for engineering laboratory equipment. Money will be allocated to all engineering schools based on the number of graduates the previous year. Another successfully passed bill will provide \$2,000.00 a year to minorities who teach for five years in a public elementary or secondary school. Those failing to meet the requirements will repay the scholarship as a loan. Two bills will provide revisions to the "Bright Flight" scholarship program. One offers ten students a chance to earn the scholarship of \$2,000.00 a year based on artistic merit. The other allows students attending the University of Missouri-Kansas City Medical School to use the scholarship for four years rather than

only two years. The fifth bill will provide loan forgiveness for nurses who work in rural areas.

ASUM opposed a bill that would have forced student organizations into extreme regulations of alcohol at parties. The bill in its original form was defeated. ASUM worked with the sponsoring senator on an alternative plan to prevent alcohol abuse by college students.

A bill to provide funding to establish an engineering education cooperative program between UMR and the University of Missouri-St. Louis was vetoed.

ASUM is gearing up for next spring's session with our Lunch with a Legislator program and our Speaker's Circuit. You can find out more about ASUM's programs and register to vote at the Campus Showcase on September 12 and 13. Help us to be the student's voice in state government.

Shakespeare article to be published

News & Publications SOURCE

Dr. W. Nicholas Knight, professor of English at the University of Missouri-Rolla, has been informed that his paper "Shakespeare's Last Poem?" will be included in a future issue of Manuscripta, an international journal on paleography.

"Manuscripta, which is published by Saint Louis University, focuses on handwritten medieval church documents and manuscripts," Knight says.

In the paper, Knight explains why he believes he has discovered what may be the last lines of poetry ever written by William Shakespeare.

Knight discovered the eight lines of verse in the Southern Illinois University-Carbondale library in a copy of "Shakespeare Bibliography" by William Jaggard, a Shakespearean authority.

"A note written by Jaggard on the book's flyleaf indicates that a verse of Shakespeare's not found in any edition of his collected writing is described in the book on pages 170-171," Knight explains.

On these pages, Jaggard provides his transcription of the poem: "Crowns have their compass/ Lengths of days

Student Activity Fee Board Golf Course

Golf Course Source

Jim Duncan, golf course greenskeeper and newly appointed ground foreman, and the University grounds crew have been working hard to improve the UMR Golf Course. Notable improvements over the last two years include new tee boxes on holes #1, #3, #7, and #8. In addition, new ball washers, tee makers, pins, split-rail fencing, chain-link safety fencing, and over 50 trees have been added to improve the general attractiveness of the course.

The golf course grounds are well maintained, and the greens are particularly well kept. With very few sand traps and little to no rough, it makes an ideal course for all levels of golfer. Students play for a fee of \$2.00 during

the week and \$3.00 on the weekend... real bargains for your recreational budget.

The driving ranges is also a great feature at the UMR Golf Course. Students can hit a bucket of range balls for \$1.75 and practice their swing in hopes on improving their golfing skills.

UMR is one of only three colleges in the state of Missouri fortunate enough to offer golfing facilities to students, faculty, staff and the community. Long range plans are to continue to enhance our Golf Course by improving the greens, tees, and hopefully, the golf ship. It is our goal to offer the campus community an attractive and enjoyable golfing facility at reasonable expense for their recreational pleasure.

Cold-form steel structures conference to be held

News & Publications SOURCE

The "10th International Specialty Conference on Cold-formed Steel Structures," a conference designed for scientists, researchers, educators and engineers who have been engaged in the field of research and design of cold-formed steel structures, will be offered in St. Louis this fall by the University of Missouri-Rolla.

The conference will be held Tuesday and Wednesday, October 23 and 24, in the Marriott's Pavilion Hotel, One Broadway, in St. Louis.

The conference program, which is entitled "Recent Research and Developments in Cold-formed Steel Design and Construction," will include the presentation of technical papers and the publication of a volume of conference proceedings.

Program directors are Dr. Wei-Wen Yu, Curator's Professor of civil engineering at UMR and director of

UMR's Center for Cold-formed Steel Structures and Dr. Roger A. LaBoube, UMR associate professor of civil engineering and associate director of UMR's Center for Cold-formed Steel Structures.

Fee for the conference is \$250 for speakers and session chairmen, and \$350 for all others. The fee includes a copy of proceedings containing all technical papers presented at the conference. Advance registration is requested.

For further information about the conference contact Walter Ries, Continuing Education, UMR, Rolla, MO, 65401, phone 314-341-4132 or 1-800-752-5057 or Dr. Yu, civil engineering department, UMR, Rolla, MO, 65401, phone 314-341-4467 or 314-341-4471.

The conference is being sponsored by UMR's Continuing Education, the American Iron and Steel Institute, the Metal Building Manufacturers Association, and the Steel Deck Institute.

Calendar of Events

Wednesday

Chemistry Seminar, "Reaction Kinetics in Energetic Systems (High-energy Chemical Laser: Propulsion Hypersonic)," Philip D. Whitefield, scientist, aerospace combustion, McDonnell Douglas Research Laboratory, St. Louis, 4:30 p.m., G-3 Schrenk Hall. Free.

Bible Study Club, 12:30 p.m.

Wesley Mtg., 6:00 p.m.

Spelunkers Mtg., 206 McNutt, 6:00 p.m.

ASCE, 114 CE, 7:00 p.m.

Met. Soc., 211 McNutt, 7:30 p.m.

Newman Mass, 9:00 p.m.

SUB Special Events Committee Mtg., 218 UCW, 6:30 p.m.

Alpha Chi Sigma Mtg., G-3 Schrenk, 7:00 p.m.

Soc. of Hispanic Prof. Eng. Recruitment, Maramec, 7:00 p.m.

SUB Leisure & Rec. Committee Mtg., 218 UCW, 7:30 p.m.

SUB Films & Video Committee Mtg., 218 UCW, 8:30 p.m.

Thursday

Ceramic Engineering Seminar, "Properties of Mullite/Zirconia," Dr. Salvador de Aza, Director, Institute for Ceramics and Glasses, University of Madrid, 3:30 p.m., Planje Auditorium, McNutt Hall. Free.

Physics Colloquium, "Neutron Interferometric Measurement of the Topological Aharonov-Casher Phase Shift," Samuel A. Werner, UMC, Physics, 4:00 p.m., 104 Physics. Free.

UMR Film Series, "Enemies, A Love Story," 7 p.m., Miles Auditorium, Mechanical Engineering Building. Admission by season ticket or \$3 at the door. Season tickets may be purchased at the door.

Board of Curators Meeting at Columbia.

Council of Grad. Students Watermelon Feed, HockeyPuck, 4:00 p.m.

Chi Epsilon Mtg., 117 C.E., 4:30 p.m.

Climbing Club, 206 McNutt, 6:30 p.m.

IK, 204 McNutt, 6:30 p.m.

HKN Mtg., 102 EE, 6:30 p.m.

ASEM, G-3 Schrenk, 6:30 p.m.

IVCF Bible Study, 101 EE, 7:00 p.m.

APO Mtg., 7:00 p.m.

Chinese Student Assoc. Mtg., Missouri Room, 7:00 p.m.

Chess Club, UCE, 7:30 p.m.

SUB Concerts Committee Mtg., 218 UCW, 7:30 p.m.

Gaming Mtg., 208 ME, 8:00 p.m.

Friday

Board of Curators Meeting at Columbia.

SUB Movies: Airplane I & Airplane II, 104 ME, 7 and 9 p.m.

IVCF Mtg., 139 Schrenk, 7:00 p.m.

Saturday

Men's Soccer, Bellarmine College, 7 p.m., UMR Soccer Complex. Free.

SUB Movies: Airplane I & Airplane II, 104 ME, 7 and 9 p.m.

SEPTEMBERFEST: Open Gaming, 317 CE, 9 a.m.

Chinese Student Assoc. Movies Series, G-3 Schrenk, 7:00 p.m.

Chem., Chem. E., Life Science, Anyone Interested in Chemistry & Fun, W.T. Schrenk Society is sponsoring a float trip today!!

Sunday

Wesley Chapel, 7:00 p.m.

Monday

Ladies Bible Study, 2:00 p.m., Maramec Room, Sponsored by Koinonia

Life Talk, 7:45 p.m., 414 Holtman, Sponsored by Koinonia

Ceramic Engineering Seminar, "Phase Equilibria Diagrams for Basic Ceramic Materials (Refractories)," Dr. Salvador de Aza, Director, Institute for Ceramics and Glasses, University of Madrid, 3:30 p.m., Planje Auditorium, McNutt Hall. Free.

Chemistry Seminar, "Calorimetric Observations of the Transition From Spherical to Rodlike Micelles with Solubilized Organic Additives," Paul Lindemuth, UMR, 4:30 p.m., G-3 Schrenk Hall. Free.

Study Skills, 201 Norwood, 3:30 p.m.

Independents BOG, Maramec, 7:00 p.m.

Study Skills, 201 Norwood Hall, 3:30 - 4:30 p.m.

Christian Campus Fellowship (CCF) Mtg., Missouri Room in UCE, 6:00 p.m. A time of Prayer and Praise! Everyone is welcome.

Tuesday

Graduate Seminar Series, "Grain Boundary and Surface Energy of Polycrystalline Solids," Douglas Rickman Carroll, UMR 4:30 p.m., 107C M.E. Annex. Free.

Staff Council, 10:30 a.m.

StuCo Lawyer, Walnut, 2:30 p.m.

See You at the Top! 201 Norwood Hall, 3:30 - 4:30 p.m.

TAUBETA PI, Smoker for electees at Chem. G-3, 7 p.m. Students who received an invitation and are interested in joining Tau Beta Pi should attend this smoker.

Next Wednesday

Women's Soccer, Northeast Missouri State, 7 p.m., UMR Soccer Complex. Free.

Noday

Attention Grad Students: Did you know that you can join Tau Beta Pi? If you are a graduate student in high standing with outstanding character and you're interested in joining Tau Beta Pi, call 341-5062 ASAP for more information.

Private Pilot Ground School Short Course Offered at UMR, A short course designed to serve as a general introduction to aviation and to assist students in preparing for the Federal Aviation Administration (FAA) private pilot written exam will be offered by the University of Missouri-Rolla this fall.

The course, "Private Pilot Ground School," will offer 24 hours of instruction in 3-hour blocks, from 6:30 - 9:30 p.m. Mondays, September 17 to November 12, in Room 302, Butler-Carlton Civil Engineering Building.

Topics to be covered include: theory of flight, communication procedure, use of a flight computer/calculator, aviation weather, visual and audio navigation and federal aviation regulations.

Fee for the course is \$90. The course's textbook, "Private Pilot FAA Written Exam, 5th Ed.," can be purchased for 48 on the first night of class.

Enrollment will be limited to the first 35 paid registrants. To register or for further information contact Delphia Ponder, Continuing Education, 119 M.E. Annex, UMR, Rolla, MO, 65401, phone 314-341-4276 or 1-800-752-5057.

Financial Aid

THE FOUNDATION OF THE WALL AND CEILING INDUSTRY The Foundation of the Wall and Ceiling Industry is offering 15 \$500 scholarships to students pursuing construction-related careers in fields such as construction supervision, architecture and industrial technology. Eligibility requirements are: Pursuing a degree in a construction-related field. A full-time student at the college sophomore or

junior levels. Junior level candidates must have one full academic year of coursework remaining at the beginning of the 1990 fall term.

OR

A first or second year student attending a two-year school.

Application Deadline: December 3, 1990. Additional information and applications can be obtained in the Student Financial Aid office, G-1 Parker Hall.

THE DR. ROBERT H. GODDARD SCHOLARSHIP The National Space Club will award a \$7,500 scholarship for the academic year 1991-92. The scholarship is in memory of Dr. Robert H. Goddard, America's rocket pioneer. The award is given to stimulate the interest of talented students in the opportunity to advance scientific knowledge through space research and exploration. The terms of the scholarship are as follows:

The applicant must be a U.S. citizen, in at least the junior year of an accredited university and have the intention of pursuing undergraduate or graduate studies in science or engineering during the interval scholarship.

Application Deadline: January 4, 1991

Additional information can be picked up at the Student Financial Aid office in G-1 Parker Hall.

ROLLA AREA BUSINESS AND PROFESSIONAL WOMEN The Rolla Area Business and Professional Women's Club is offering a scholarship of \$250.00 to a woman enrolled for the 1991 Spring semester. Applicants must be a resident of either Phelps, Dent, Maries or Pulaski Counties, at least 25 years of age, and enrolled at an accredited educational institution.

Application Deadline: September 30, 1990

Additional information and applications can be obtained in the Student Financial Aid office, G-1 Parker Hall.

ORVILLE REDENBACHER'S SECOND START SCHOLARSHIP PROGRAM Orville Redenbacher will be offering ten \$1000 scholarships to students who are making a second start. Qualifications are the following: 1) Applicant must be 30 years old or older, 2) Applicant may be a part-time or full-time student, 3) Applicant must be enrolled in an accredited college or university.

Applications can be pick-up at the Student Financial Aid Office in G-1 Parker Hall, between the hours of 9 a.m. to 4:30 p.m. Monday thru Friday.

Deadline: September 1, 1990.

Missouri Miner

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

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

Submissions for publication must be in our drop box (first floor of the Norwood Hall, Room 103) by 3:30 p.m. on the Thursday before publication. The **Missouri Miner** reserves the right to edit all submissions for style, grammar, punctuation, spelling, length, and matters of good taste.

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

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Professor studies Truman's pumpback facility

News & Publications SOURCE

An innovative way to use the Harry S. Truman Dam's pumpback facility without harming fish is currently being investigated by a University of Missouri-Rolla associate professor of civil engineering.

According to Dr. Charles D. Morris, a "porous dike" may be used as a screen to keep fish from being drawn into the pumpback facility.

"Essentially, the dike is comprised of rocks stacked on top of each other and those rocks span the portion of the channel used for the hydropower flows below the dam," Morris says. "The rock dike would allow water to flow freely from the dam while keeping fish away from pumpback equipment," he adds.

Morris explains that the dam and reservoir, which is located on the Osage River near Warsaw, is a multiple-purpose project including recreational usage and hydropower production and flood control.

"The pumpback capability is needed to return water to Truman Reservoir and thereby maintain an adequate water level for future emergency hydro-generation," Morris says.

He notes that during pumpback the turbines at the dam are reversed and the water below the dam is pumped back into the reservoir.

"The first tests in 1982 showed that some fish were destroyed by being

times result in super saturation of dissolved air in the water causing the fish to develop embolisms and die," Morris says.

Morris explains that the research will include preliminary investigation concerning model modifications and the actual testing of the model itself.

"Model modifications will include addition of the rock dike and methods for modeling the dissolved oxygen in the flow," Morris states.

"Once these modifications are made, the model will be operated," he adds.

Morris indicates that the basic premises for undertaking this research are: The rock dike is considered to be an effective means of preventing fish kills; the dike could improve water quality by aerating the water which runs through the rock; the life expectancy of the dike is assumed to be very long; and the dike would require little maintenance.

"The research also includes looking at innovative construction techniques that could reduce overall construction costs of the dike," Morris says.

"The result of this research project may be the practical solution that not only will allow the already existing pumpback facility to be operated, but in the long run, also could benefit Missouri residents with lower utility costs," Morris adds.

The research project is being supported by funding from the Associated Electric Cooperative.

logical engineering at UMR.

Barr explains that the work will be done in these jobs ranges from disposing of wastes that pose a threat to public safety to protecting the quality of the aquifers from which we extract the water we drink.

"At present, companies cannot find enough trained professionals to keep up with the need," he adds. "In the department, we get on the average one call a day from consulting firms and federal and state agencies wanting to hire geological engineering graduates for environmental positions."

In addition to the scholarships, Golder Associates Inc. personnel will lecture at UMR on a semiannual or annual basis.

For more information contact the Geological Engineering Department, 125 McNutt Hall, UMR, Rolla, MO, 65401, or phone 314-341-4867.

You're smart
enough to get your
Geography,
Entertainment and
Sports & Leisure
wedges
all in one turn.

And you're
still smoking?

Golder offers G.E. scholarships

News & Publication SOURCE

Golder Associates Inc., a worldwide consulting engineering firm, has established five \$1,000 scholarships for geological engineering students at the University of Missouri-Rolla.

The scholarships will be awarded on the basis of SAT or ACT scores to beginning geological engineering students interested in pursuing careers in environmental and geotechnical fields and will be presented annually.

"These scholarships will help students prepare for careers in which they are likely to find their knowledge and skills in demand by employers because the cleanup and management of society's wastes has prompted a demand for professionals trained in environmental areas," says Dr. David J. Barr, professor and chairman of geo-

Phonathon office now hiring

News & Publications SOURCE

The phonathon office at UMR will be hiring 30 to 40 students this semester to call alumni and parents to solicit support for the university. Callers are needed from 6:30 to 9:30 Monday through Thursday from October 10th through November 1st and again from November 26th through the 29th. Callers sign themselves up for the nights they are available to work.

Requirements for the job (which pays \$4.75 per hour) are:

- * pleasing phone voice
- * good clear English
- * enthusiasm and friendliness
- * promptness and dependability
- * the ability to talk to alumni and parents, visit with them over the phone, verify addresses and business information and ask for and negotiate gifts.

For more information or to apply, call the phonathon office at 341-6376.

Knight from page 1

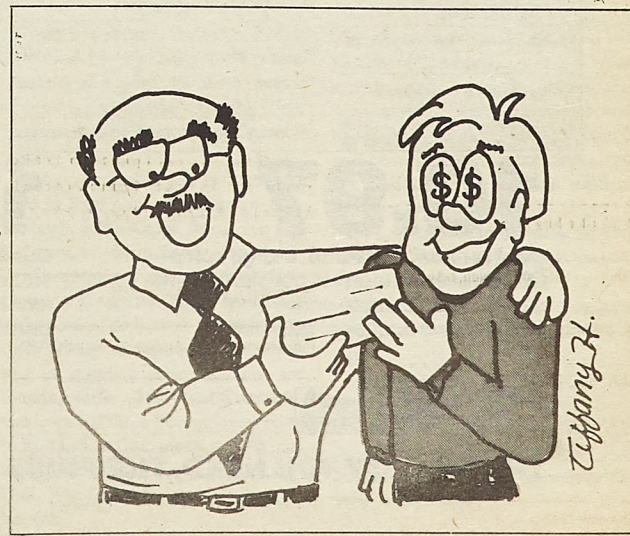
their date/ Triumph their tombs/ Felicity its fate -/ Of more than dust can earth/ Make none partaker/ But knowledge makes the King/ Most like his maker."

"Jaggard writes that the verse was beneath a print of a portrait of King James I," Knight says. "The poem was published in 1616, the year Shakespeare died."

Knight adds that because the lines had not appeared in any of Shakespeare's collected works until

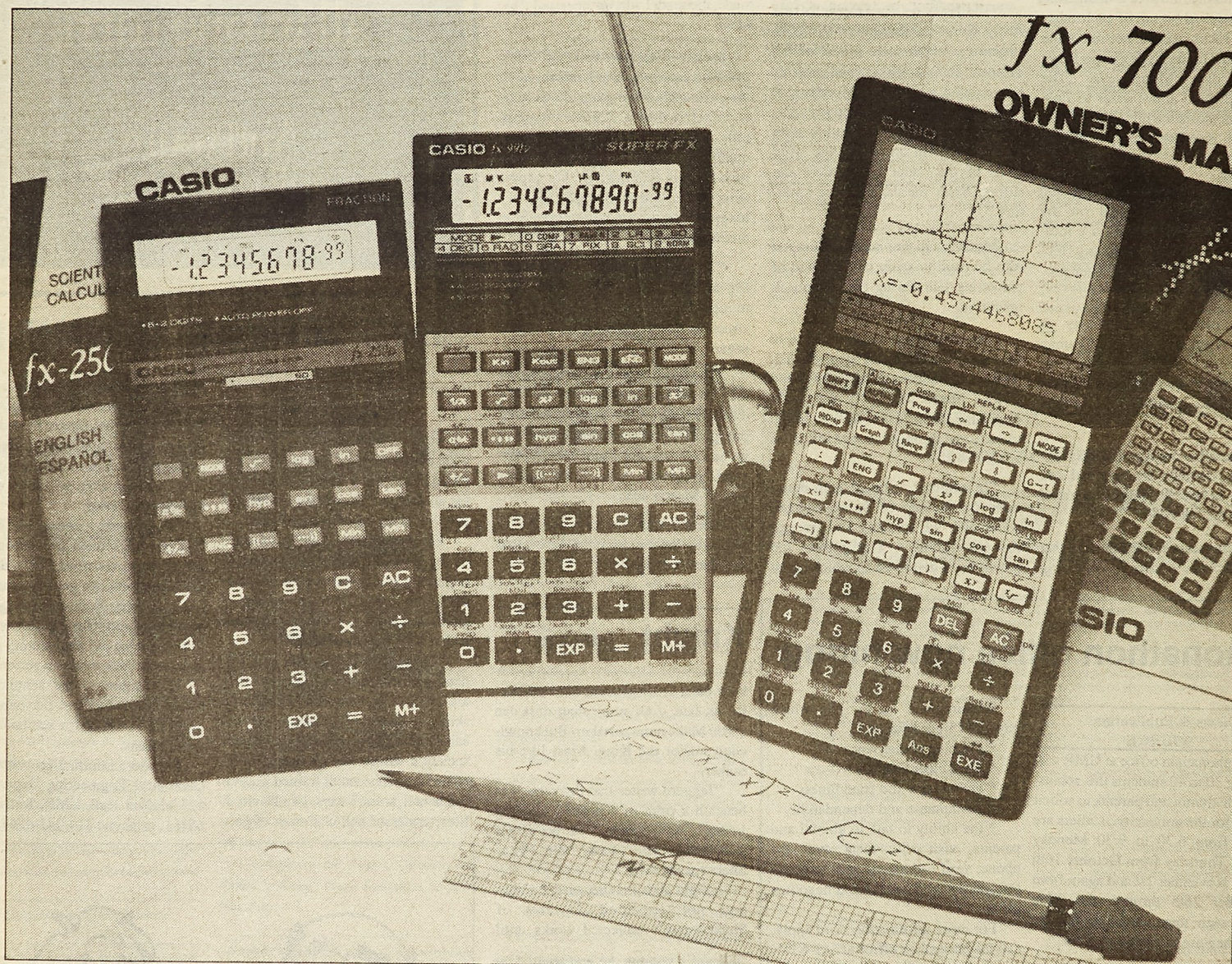
Jaggard's volume, he approached the subject of authorship with skepticism. After considering pertinent information, he believed he could make a case for attributing the verse to Shakespeare.

"For example, Shakespeare was known for his quick wit and ability to produce extemporaneous vignettes and epitaphs about and for acquaintances and friends," Knight says. "The poem under the portrait of King James would follow in the tradition of other verses attributed to Shakespeare, which also do not appear in his complete works."



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Features

Weekend will provide outdoor fun and entertainment

Summerfest Friday - - - Septemberfest Saturday

Theta Tau Omega SOURCE

Summerfest is almost upon us. Have bought your cup yet? If not head for the Hockey Puck and get one. It will be well worth the four dollar expense. This exciting event takes place Friday, September 7th starting at 2:30 p.m. The party will be held at the Lions' Club Park and a Summerfest cup is necessary for admission. However, with this admission, you will receive free refreshments (beer and soda) and get a chance to listen to a good live band, The Undecided.

Food will also be sold and in the interest of safety, busses will be providing transportation to and from the event. Again a Summerfest cup will be

necessary to ride the busses. We strongly encourage everybody to ride the busses and there will be a ten dollar fee to park at the Lions' Club Park. The busses will be leaving at 2:30, 3:00, and 3:30 from the EE building, Fraternity Row and the Multi-Purpose building. So do whatever you have to (to cancel those Friday afternoon study groups or miss those Andy Griffith reruns) and make it out to Summerfest. There aren't too many good days of summer left.

Also for those interested in joining Theta Tau we will be having a smoker September 14 at Pi Kappa Alpha and interviews will be the following Friday. We'll have more details in next week's Miner.



St. Pat's Board SOURCE

Septemberfest is just a few daze away, so prepare yourself for the biggest and best party of the semester! Buttons have sold out, however tickets are still available for two dollars at the Hockey Puck and three dollars at the gate. Shuttle busses start running to Lions' Club Park at 10:30 a.m. from E.E. building, the Quad, and Fraternity Row. At 11:00 a.m. the band, "Mr. Hyde," tunes up and the games begin. So get out to the "Green Age Waste-

land" on September 8, and don't forget your sunglasses, frisbee, and favorite beverage!

The deadline for the St. Pat's Sweatshirt design is also coming up quickly, so get your designs into ANY Board Rep by September 8. Color entries are acceptable and anyone can submit a design.

There's only 190 daze left until the "BESTEVER" St. Pat's 1991, so show your spirit at Septemberfest and I'll see you there!

Blue Key seeks new members

Blue Key SOURCE

The UMR Chapter of the Blue Key National Honor Society is currently accepting applications for new members. Selection for membership is based on a candidate's demonstrated character and leadership ability. Application is open to all students who are in at least their junior year and hold a 2.75 or better grade point average.

The Blue Key is an active group. The chapter conducts a Student Leadership Forum each year to help underclass students develop leadership

skills. They also coordinate an annual MS Walk, in which walkers collect funds from sponsors to help fight Muscular Sclerosis. On the lighter side, the chapter holds various social functions each semester, giving members a chance to get better acquainted and relax a little.

Applications for membership are available in the student activities office, and are due in the Blue Key mailbox by Monday, September 10th, at 1:00 p.m. Take advantage of this chance to join a group of student leaders.

BACCHUS prepares for another eventful year

Bacchus SOURCE

The UMR BACCHUS (Boost Alcohol Consciousness Concerning the Health of University Students) chapter is beginning its third year of existence with much to look forward to. We are proud of what we have accomplished in the last two years, and we are excited by the opportunities we see this year. Last year's greatest accomplishment was the initiation of a designated driver program that will remain operational year-round. This program, officially titled C.H.E.E.R.S. (Creatively Helping to Establish an Educated and Responsible Society), was begun during ST. Pat's week and is an ongoing program in which several local restaurants and

bars are participating. The students have done an excellent job in recruiting establishments and in promoting the designated driver concept. Look for C.H.E.E.R.S. posters in restaurants when you are out with friends if you wish to be a designated driver, or ask if the establishment is participating in the C.H.E.E.R.S. program.

This year promises to be at least as much fun and as productive as last. We are beginning the year with an organizational pizza party (yes, FREE PIZZA!!) and a special guest appearance by David Leschke, Director of Chapter Services for the national BACCHUS office in Denver. In addition to that role, David is also a really neat person who has starred in some BACCHUS videos and who can de-

liver a compelling one-person dramatic performance. He will tell us a bit about BACCHUS on the national level and then chow down with the rest of us.

BACCHUS is recruiting new members for this year (and ensuing years, we hope!). If you are interested in joining a student group that is both fun and productive, call 341-4211 for further details or watch for flyers around campus that will announce the time and location of the meeting. (If you plan to attend our organizational meeting, please call 341-4211 to let us know how much pizza to buy). It's a decision you won't regret!

Successful ANS branch at UMR welcomes those interested

ANS SOURCE

The UMR Student Branch of the American Nuclear Society (ANS) is looking for new members. Membership is open to all students who are interested in Nuclear Engineering or its applications in related disciplines such as Physics, EE, ME, Chem E. etc.

The UMR ANS branch is very active group. The branch received the 1990 Glasstone Award as the most outstanding ANS student branch in the nation for the 89-90 school year. The membership has an active high school information program, participates in

regional student conferences, and hopes to be represented at the national ANS conference in Washington, DC this year. Last year, the Midwest Regional ANS Student Conference was hosted by the UMR Student branch.

On the lighter side, the branch sponsors at least one picnic each semester, along with numerous informal get-togethers for movies, pizza, etc. It's a friendly group with many different types of people.

The branch will hold a meeting next Thursday, September 13th. Come check us out. We're a professional society with a personal touch.



Toastmasters to hold open house

It is alright to paint the tunnel

Toastmasters' Club SOURCE

Public speakers invited. People interested in improving their public speaking ability are invited to attend an open house sponsored by the UMR Toastmasters of Toastmasters International.

The open house will be held from 7:00 to 8:00 p.m., Wednesday, September 5, at Phi Kappa Theta. It is free and open to all students.

Toastmasters International is a global organization made up of men and women dedicated to improving their ability to communicate orally and to improve their listening and thinking skills. The UMR Toastmasters is one of three Toastmasters clubs in Rolla. The Club meets at 4:45 p.m. each Thursday in room 218, Fulton Hall. The first meeting is on September 6th.

Student Council SOURCE

The tunnel between TJ Hall and the campus will be open again this year for artistic painting and various announcements, including parties and upcoming events. Student Council will be responsible for the tunnel, and we would like to ask that painters follow a few guidelines.

1) Please keep the painting INSIDE the tunnel: anything on the outside will be painted over.

2) Do not paint over someone else's announcement that is not out of date.

3) Please do not put anything in the tunnel that may be considered offensive or profane. Student Council will be responsible for any editing that becomes necessary. We appreciate your cooperation.

Placement office sees increase in recruiting despite cuts

Placement Office SOURCE

Recent media coverage of "softening of the economy," and of the military cutbacks in the defense industry has prompted many science and engineering students to wonder whether they will have a job after they graduate. How legitimate is this concern?

It is a fact that military and defense related industries are experiencing slow and limited growth. Large high tech suppliers to the military, such as Martin Marietta, McDonnell Douglas, Lockheed, Rockwell International, etc., are "excessing" experienced engineers and technical support personnel. State, and local governments are planning to hire 20% fewer employees. The four military branches of the military plan a 17% cutback in new employees. It is a fact that many engineers and technical support in these areas are facing lay-offs. There are great uncertainties with the current Middle East crisis. The economic consequences are profound. Our local economy will suffer. Certainly, we are all affected by this negative turn of events. The media has done its share to promote a future of gloom and doom for future science and engineering graduates.

This is not the case. There are a great many other non-military industries that are hiring engineers. Many of these businesses are thriving and are hiring science and engineering graduates. Instead of a decrease in recruiting activity, at UMR, we are experiencing the opposite. Employers are increasing the number of "pre-recruiting" informational presentation. They are visiting departmental faculty and our office to establish and develop better campus relations.

Many non-defense related industries are positioning themselves to be more visible on campus in order to recruit science and engineering graduates and to be more competitive in the future. This is due to a shrinking number science and engineering graduates, as reported by the National Science Foundation.

The diminishing technical labor forces and changing demographics make recruitment a challenge for most employers. Employers are marketing opportunities with their companies more aggressively than they have in the past in order to successfully compete in the future.

Increased recruiting activity for engineers is a trend found in other engineering universities and at the University of Missouri-Rolla.

Victor Lindquest, Dean and Director of the Placement Center at Northwestern has reported in a survey of 260 businesses and industries, that this year's engineering graduates is high in demand and will be well paid. Students earning degrees in Chemical Engineering can expect to draw salaries of \$33,000 and \$34,000.

Favorable employment opportunities for recent science and engineering graduates continue according to a new

Science Resources Studies as published in HIGHLIGHTS by the National Science Foundation. The proportions of Science/Engineering graduates increased who obtained employment within one to two years of graduation increased markedly from 1980 to 1988, with bachelors' degree recipients increasing from 53% to 63% and a master's degree recipients going from 82% to 85%.

ENGINEERING MANPOWER COMMENTS report (July 1990),

engineering students graduating this year, are again expected to earn higher starting salaries. Also, engineers are expected to have an easier time finding employment.

Recruiting activity at the University of Missouri-Rolla:

Recruiting history plays a significant role in determining recruiting activity. Many companies planning to cut back recruiting activity continue to visit and recruit at schools where they have an established history. Our school has proved to be an excellent

supplier of science and engineering personnel. We are not experiencing any decreases in our recruiting activity.

The number of companies interviewing on campus increased 13% over last year. A total of 447 companies interviewed on campus for summer, co-op and professional employment as compared to 396 the previous year. 71 of these companies had not previously recruited at UMR. Our office currently has 187 companies registered to participate with our on

campus interview program this fall. 14 of these companies had not previously interviewed our students. This number of companies is greater than last year's, at this time. We expect an increase as the fall semester progresses.

The university's Cooperative Training Program is also doing well. We currently have 382 UMR students employed by 101 companies. UMR co-op students are employed in 72 cities and 22 states.

See Placement, page 9

The TI-68. The engineering calculator designed to handle tough technical problems.

The further you go in engineering, math or other technical courses, the more you need a scientific calculator that speeds you through complex problems. With 254 powerful advanced scientific functions, the TI-68 from Texas Instruments

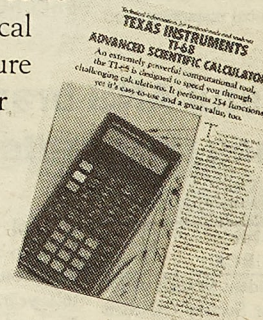
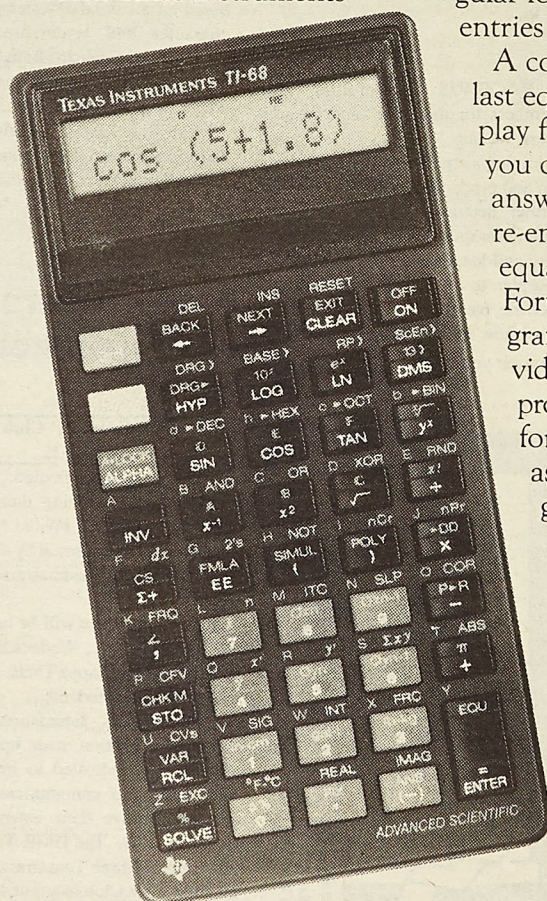
is both a smart choice and an exceptional value.

The TI-68 easily solves up to five simultaneous equations with real or complex coefficients. It evaluates 40 complex number functions. It allows polar and rectangular forms for entries and results.

A convenient last equation replay feature lets you check your answers without re-entering your equations. Formula programming provides up to 440 program steps for as many as 12 user-generated formulas.

You can perform operations in four number bases, one and two-variable statistics, and Boolean logic operations. And, the polynomial root finder calculates real and complex roots of quadratic, cubic, and quartic equations.

Only the TI-68 delivers so much functionality, value and ease in one compact, advanced scientific tool. For more information on what the TI-68 can do, pick up a free copy of the TI-68 technical brochure at your bookstore.



**TEXAS
INSTRUMENTS**

Classifieds

Miscellaneous

Must sell! New, from Sears: Beautiful white sofa, loveseat, and wing recliner. Scotchguard fabric. Also, three small glass and brass tables and two brass finish lamps. Will sacrifice all for \$1000.00. Call (314) 341-3214 after 5:00 p.m. weekdays or anytime weekends.

Wanted: Amiga help. Local business man needs set-up and programming help. Call 364-0303.

Interested in recreational or competitive running? Join the Rolla Running Club to meet other runners and learn about area races. Call Camille at 364-2329.

Excellent typist/word processor. Accurate and reliable. For prompt service call Mrs. Clarke.

Personals

Lynette,
U R an awesome big sis! I'm so glad you're back!

LICO,
YLS

Kim,
You are an awesome little sis.

LICO,
YBS

No Man, No Car, NO Problem!

Slimedog,
Let's get together and do the popcom and orange juice thing again before you leave. I am still interested in rope.

Radical F.

Hey Flash,
Are you having fun yet?

LICO,
YBS

P.S. Has anybody else noticed the heavy cars?

To MLLS Dia,
You are a great LLS. I'm looking forward to working with you this semester.

LICO,
YBBS

Susan W.
Congratulations on being a Chi-O pledge and welcome to our family.

LICO,
Your Owl Pal

Boza,
Well now lets talk aboutCHASE!!! Well I think that Chase is a very sweet guy, but I also knows what he does to "girlfriends" (so called anyway). But, I think I know that if he likes you that you and him would have a good Relationship! Sorry I don't have much "output" on this, let me think and see what happens. Its one month for Alex and me today.

Love Ya,
Britte

Chi-O Pledges,
Love those smiles!

LICO,
Donna

Dieter ^3,
You hunka, hunka burning love, 10 months, we've surpassed their expectations, haven't we? Chueless

Sharon,
I'm apologizing again for the last minute cancellation of your dinner invitation. I feel really bad about it. If it had been any other situation, it would have been different. I really needed to listen to Tom and help him sort through some things that were on his mind. Thanks again for understanding. I really appreciate it.

Me

Debbie,
Looking forward to some girl talk really soon.

LICO,
The girls downstairs

Missy & Tracy,
Roses are Red, Clover are for Luck.....

LICO,
The Poet Down the Hall

Chi-O pledges are too cool!

Kim D,
You're and awesome pledge! Have a great week.

LICO,
Owl Pal #2

Susanne,
You are the greatest big sis. Thanks for everything!!

LICO,
Karen

J & A,
We're both members of the no-car, no-man club.

L

Chi-O Pledges,
What a psyched group! I am impressed.

Betsy,
How does he say it? Come on baby, bite me, bite me. Hey, those are your own words!!
A member of the size ten club.

Delbert,
Marry me in May? Most definitely!

Love,
Delberta

Sevage,
You're still the best Big Sis! When are we going to have another slumber party?

LICO,
YLS

Hey ZTA's
Are you getting psyched-up for your remodeling? What are you remodeling anyway?
Awesome Facelifts

Luke,
Next time we go to St. Louis, let "the woman driver" drive.

Guess

Scott,
It was PINK!!

Guess

Web & Mary,
Thanks for rescuing me. What an adventure!

Melissa,
Congrats on initiation! I'll be here for you whenever you need me.
Your Great Grandma

Top Ten Lines Used by Scum (all as men):

1. I just redid my room, do you want to see it?
2. Want to lie down?
3. Would you like to see my tatoo?
4. I'll take you home, let's go get my keys.
5. Want to go feed my fish?
6. You are a hard person to say goodbye to.
7. Would you like a house tour?
8. Let's compare (backrubs).
9. Let's go look at my turtle.
10. Let's get rope for your toga.

Submitted by Idiots who have actually fallen for these lines.

T.P.
Welcome back handsome! It's good to see that smiling face once more! Hope to get together with sometime before you leave.

Love,r
ME

M.
Still sleeping at the T.V. lounge?

Slimedog,
Sounds like someone agrees with me or had similar experiences.

Sherty

Pokey,
Nice shorts. Just watch, you never know what I'm thinking.
They were my shorts first!

Megg,
You're the coolest! How late do they watch movies at Sig Pi anyway?

YBS

Jeni-P,
Let's keep up those morning strolls.
Your long lost roomie

M.
30, 75, 500....45, 20, enough!

Past Figurehead,
We sure do miss you! Are you sure you don't want to come back to the Black Hole? You surely can't have anything better to do?

Ed,
Hey Stranger! I hardly ever see you anymore. Let's "do lunch" or something!

BEBFH

Lynda (Lou),
You're an awesome pledge!!! Stop by anytime to visit. Get psyched on Chi-O!!!

LICO,
Francine (Frankie)

Hey Scarecrow,
Will you oil me?

Tinman

C.E.
Do you remember that one? You still got it (them)! I sure missed them last weekend. No more solo flights for me.

ABZ

Barb,
Have you tried the roof yet?
Your Buddy Across the Hall

Renee,
You're the coolest big, big sis. You, Suzanne and me need to party together more often.

LICO,
Karen



M.
Some p. numbers don't change

Amy,
Why is Sean so light?

LICO,
Jeanne

Sheila (the Party God),
If you would stop going home with people maybe you could party with me ALL NIGHT LONG!

KA

How can I get a computer date?
Extremely curious and interested

Lanie Y (the blonde Chi O)
How was your computerized date?

Pascal

Jeff M (at Sig Nu),
I really am the best. At least that's what your girlfriend says.

In Your Dreams

Emy,
Who ate nine rice crispy treats?

PIKA Boys,
Get psyched toget out of hand at Boxers and Bowties.

Chi O

Nikki,
Great job with rush! Want to do it again next year?

LICO,
Your Sisters

Amy and Sheila,
It's 286 to 223. I think I'll have the lobster and steak and Susan wants the prime rib. Make that double orders!

LICO,
Your card buddies

M.
I still have your stupid blue comb.

Missy,
You missed our quality family time. Maybe next time.

LICO,
YLS

Greetings Friends,
We trust all had a great summer! Everyone in the Christian Campus Fellowship group would like to welcome all the new freshman and transfer students to our campus. We are also glad to see all those brave souls who returned from another great semester. There a lot of great things happening here and we want everyone else to share in the Joy with us! Come by and see us! We meet every Monday night at 6:00 p.m. in the Missouri Room—University Center East. Hope to see you there!
In His Love,
CCF

Kevin M. (at Sig Pi),
I would like a chance to see how things would have turned out if I had chosen differently on that bet.
Wild woman

Donny at KA,
Welcome to Rolla little brother! Hope you have a great semester!
Luv,
YBS

Gummy Bear,
Please, please, please tell me where I can get one! I know you would make a million if you could bottle it and sell it. Can I order one from a catalog? I know I told you how good they were before you ever tried it—it was practically my idea originally. Maybe we can work out a deal for time-sharing? Maybe something similar to a sales commission? Can I at least get someone to take lessons for me? I still love you even if you decide to be greedy and selfish and keep it all.
Envious

Noelle,
Is it true—you're great! Will you take us out to meet all your boyfriends in your red convertible?
LICO,
Susan & Kerri

Frankie,
Thanks for being there. You're the best.
LICO,
D

Jen M.
You're a cool pledge! Your owl pal love's you.

LICO,
Karen

PAID VOLUNTEERS ARE NEEDED

FOR THE FOLLOWING CURRENT MEDICAL RESEARCH STUDIES

* Hay Fever and/or Ocular Allergy

-requires participants with some or all of these symptoms:

nasal congestions, runny nose, red itchy eyes, sneezing, post nasal drip, itchy nose, throat and/or palate.

* Asthma

-requires participants who require some medication for the control of wheezing, shortness of breath, chest tightness or coughing

*Bronchitis and/or Pneumonia

-requires participants who develop acute symptoms without taking any antibiotic before visiting or clinic

ALL TEST MEDICATIONS ARE:

1. Monitored by the FDA for testing in these studies.
2. Monitored by a Local Medical Review Committee.
3. Safe to use as documented by information we have received.

ALL MEDICAL EXAMINATIONS, EVALUATIONS, TESTS AND OFFICE VISITS ARE AT NO CHARGE TO PARTICIPANTS. THESE COSTS ARE COVERED BY A MEDICAL GRANT. ALL PARTICIPANTS WILL RECEIVE A MONETARY STIPEND FOR THEIR PARTICIPATION.

FOR MORE INFORMATION: CLINICAL RESEARCH OF THE OZARKS

Clinical Research of the Ozarks, Inc.
509 E. 10th Street (across from the high school)
Rolla
364-7777
ask for Vicki or Robin

Wednesday,

Sch

September 6 E.
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Schedule for the UMR 1990 Fall Film Series

September 6 Enemies, A Love Story
Ron Silver, Angelica Huston, Lena Olin. Directed by Paul Mazursky. R-1989. Based on Isaac Bashevis Singer's story the film has the structure of farce and undertones of tragedy. Set in New City in 1949 the film deals with characters that have been touched by the Holocaust. Herman Broder's wife was killed by the Nazis and he subsequently marries again to the Polish girl who has saved his life. He is having an affair with another woman who survived the death camps, when his first wife shows up, limping but very much alive. Imagine the rest or see the movie. Angelica Huston won an Academy Award for Best Supporting Actress.

September 13 Drugstore Cowboy
Matt Dillon. Directed by Gus Van Sant. R-1989. Drugstore Cowboy is one of the best films in the long tradition of American outlaw road movies—a tradition that includes Bonnie and Clyde, Easy Rider, and Midnight Cowboy. It is about criminals who do not intend to be particularly bad people, but whose lives run away with them. The heroes of these films always have a weakness, and in Drugstore Cowboy the weakness is drug abuse.

September 20 Mountains of the Moon
Patrick Bergin, Iain Glen. Directed by Bob Rafelson. R-1990. During the 19th century, Victorian England was obsessed by the search for the headwaters of the Nile. The film is based on the journals of two explorers, Richard

Burton and John Hanning Speke, who set out in 1854 on a treacherous expedition that took them to a remote area known as the "Mountains of the Moon." In addition to the perils of hostile tribes and a harsh environment, they had to contend with even greater menaces: themselves.

September 27 Yaaba
Fatimata Sanga, Noufou Ouedraogo. Directed by Idrissa Ouedraogo. PG-1989. Yaaba centers on Bila, an independent 12 year-old boy, and Sana, an outcast old woman shunned as a witch by the rest of the community. Bila, something of an outsider himself, strikes up a friendship with the odd but dignified crone, calling her "Yaaba" (Grandmother). It is through this nearly wordless but deeply felt relationship that the maturing Bila crystallizes his position in relation to the community, sexual roles, tradition, superstition, and prejudice. In Moore (an African dialect) with English subtitles.

October 4 Betty Blue
Directed by Jean-Jacques Beineix. R-1986. A beach-bum and would-be writer name Zorg becomes embroiled in a torrid summertime affair with the film's larger-than-life heroine. Betty is a full-lipped, Renoiresque, fiercely sensual life force, swinging maniacally from incandescent highs to destructive rages that turn increasingly upon herself. Extravagant, passionate, at times shocking, Betty Blue is dedicated to excess and impulsiveness. In French with English subtitles.

October 11 The Mystery of Picasso
Directed by Henry-Georges Clouzot. PG-1956. Pablo Picasso at work...pure genius! Mystery captures the brilliance of Picasso as he draws, sketches and finally, in an explosion of color, paints. Winner of the 1956 Palm d'Or at the Cannes Film Festival, Mystery has since been declared a French National Treasure, for the paintings created during the filming were immediately burned upon completion of production. This film is the only record of their existence. In French with English subtitles.

A Day on the Grand Canal
Presented by David Hockney. Directed by Philip Haas. PG-1988. The occasion for the film is a masterful Chinese scroll depicting an inspection tour taken by the Emperor of China in 1689. Hockney acts as our witty and informative tour guide, unfolding the scroll's richly detailed panorama of 17th century Chinese life.

October 18 Henry V
Kenneth Branagh, Derek Jacobi, Paul Scofield. Directed by Kenneth Branagh. R-1989. The talented and versatile twenty-eight year old Kenneth Branagh, director and star of Henry V, hand-picked his former comrades from the Royal Academy of Dramatic Art to appear in this production. Branagh's film version of Henry V makes Shakespeare's story accessible to a broad audience. The Elizabethan English is delivered with such clarity that it is easily comprehensible to our modern ears.

October 25 Always
Henry Jaglom, Patrice Townsend. Directed by Henry Jaglom. R-1985. Always is a deeply personal look into the life of filmmaker Henry Jaglom and his ex-wife, Patrice Townsend, who return to the actual house where for seven years they entertained, shared the same bed, and eventually watched their marriage crumble. The two dramatically explore the reasons for their divorce in this experimentally produced film.

November 1 Children of Paradise
Jean-Louis Barrault, Arletty. Directed by Marcel Carne. PG-1943-45. Possibly the most revered of all French films, this romantic epic explores the loves and ambitions of a group of actors who eventually achieve fame, but never the happiness they so desperately seek. In French with English subtitles.

November 8 Stranger than Paradise
John Lurie, Eszter Balint, Richard Edson. Directed by Jim Jarmusch. R-1984. When 16 year-old Eva from Hungary invades the domain of her New York cousin Willie and his friend Eddie, she is at first an irritation, but later a source of color in their lives. A year later, after rescuing Eva from a midwestern winter and her eccentric Aunt Lotte, the quirky cabal heads south for an existential vacation in a paradise called Florida. Winner of the Cannes Film Festival Camera d'Or.

November 15 Common Threads: Stories from the Quilt
Directed by Robert Epstein and Jeffrey Friedman. PG-1989. In less than a decade the number of Americans with Aids has risen from five to 100,000 and more than 60,000 people have died of the disease. Common Threads presents profiles of five individuals, including an Olympic decathlon star, an IV drug user, and a young hemophiliac, whose stories reflect the diversity and tragedy of those who have died of AIDS. Common Threads won the academy award for best documentary of 1989.

November 29 Soldier of Orange
Rutger Hauer, Jeroen Krabbé. Directed by Paul Verhoeven. R-1979. Robocop's Verhoeven directs this film about Nazi occupation of the Netherlands seen through the eyes of a group of Dutch students. Hauer is only a half-hearted member of the Dutch resistance until he manages an escape to England where his involvement deepens, almost to the point of obsession. Voted Best Foreign Film of 1979 by the Los Angeles Film Critics Association. In Dutch with English subtitles.

December 6 The Lady Killers
Alec Guinness, Peter Sellers. Directed by Alexander Mackendrick. PG-1955. The worlds most grotesque gang of cutthroats and thieves takes on a dear, sweet lady who lives in her own never-never land. When they try to disguise themselves as a typical British string quartet, one of the peaks of British cinematic comedy is achieved.

All films are shown in Miles Auditorium at 7:00 pm, Thursdays.

Placement

from page 6

The number of employer representatives registered to attend this year's annual Industry Career Day (scheduled for September 27), has already surpassed last year's. The large employer turnout is indicative of strong employer interests.

While it is true that some engineers and technical support personnel are facing lay-offs, they will not compete with new or entry level engineering graduates. A cursory review of the St. Louis Post Dispatch's Sunday classified section shows that many other companies are interested in hiring the "excessed" experienced personnel. Relocation may be required for experienced personnel, as many employment opportunities may be in other geographic locations.

Science and engineering graduates may also have to consider relocation. This has not been a problem with UMR graduates. UMR graduates are employed across the nation and internationally.

The new graduate may have to consider going with companies/industries that may not be large or as well known. In general, science and engineering students and graduates can expect a continued demand for summer, co-op and permanent employment after graduation.

Classifieds

from page 7

Hey Skeeter Bites,
How about us and the Pohl go get some grapes.
LICO,
Your neighbors

Welcome back SUB Board of Directors!!

Hey ZTA Girls— Anne, Michelle, Noe
How about that all nighter with some cool Chi O's?
K,L,S, & M

J,
Be careful! It is in the water—are you sure you have a swimsuit? I don't think I'm interested in going swimming.
If we do let's go to the pool, the river has shags and leeches and so on. I'm not even thirsty lately.
A Mom

Anita,
Are you dry yet?
LICO,
Deanna

CHI OMEGA'S PLEDGES ARE COOL!

Kong & Denzer,
Ooh Ahh, Theta Tau!
Your ex-roomie

Schmoosoo,
Happy Belated Birthday Pup! Sorry they wouldn't let you in to celebrate, maybe next year.
LICO,
The Girties you live with

Michelle,
You are way cool adopted big sis! How about some popcorn and some out of hand partying at Bruno's.
LICO,
Kristi

Cutter,
Can I be the helper?
LICO,
Your roomies

Kerri,
Did you get to see his turtle?
LICO,
Deanna

Chi-O Crip,
We can always put a ramp on those stairs. We love you even if they can't walk.

The RHO Chi's are here! SOCIAL!!!!

Turtle,
Ice cream was fun, let's do it again sometime.
LICO,
YBS

Hey 1st Floor Chi-O's,
...so I was talking to this guy and....
SC

Alpha Alpha,
Get your pearls so we can party on the 21st, ok? Get psyched!
LICO,
Chi-O

Angle B,
So do you like french fries and ranch dressing?
LICO,
Sheila

PIKES AND CHI-O's get psyched for BOXERS AND BOWTIES!

Dan S.,
Stop stealing my pens!
Hochee

YOU HAVE FRIENDS WHO CARE
AT...

BIRTHRIGHT

PHONE: 364-0066

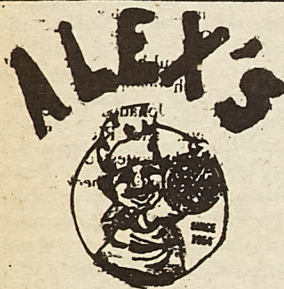
215 WEST 8th STREET
P.O. BOX 832
ROLLA, MISSOURI 65401

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FREE PREGNANCY TESTING
NEW EARLY DETECTION METHOD



A CUT ABOVE
HAIR SALON

TAN Special 10 for \$17.50
209 West 11th St.
364-6866



PIZZA PALACE

Real Italian Pizza
122 W. 8th St.

Open 7 Days a week
11:00 AM - 2:00 AM
Call For Delivery
or Take Out

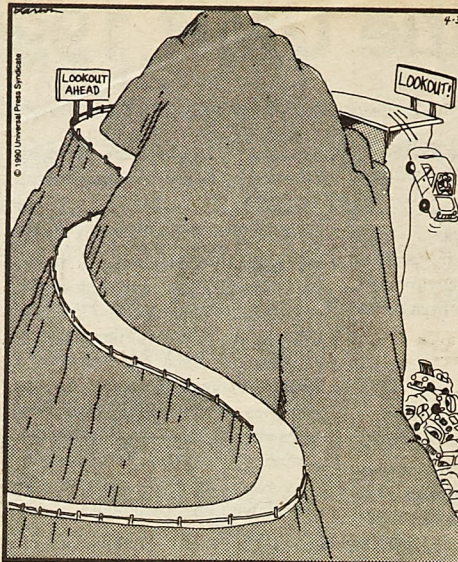
364-2669 or 364-9878

Salads Sandwiches Pasta
5% Beer on Sunday
SPECIALITIES

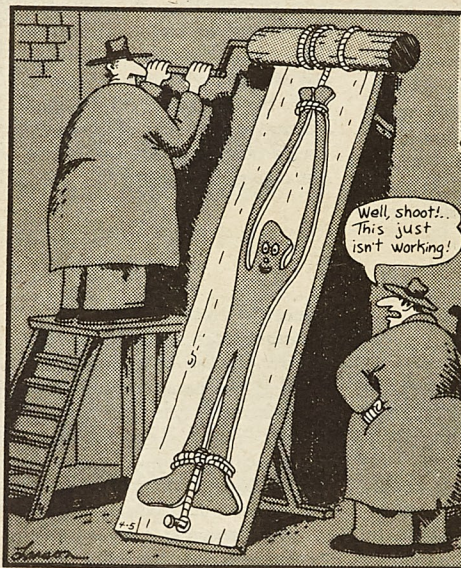
Gyros Souvlaki Steak
Greek Salad Spinich Pie Barlava

THE FAR SIDE

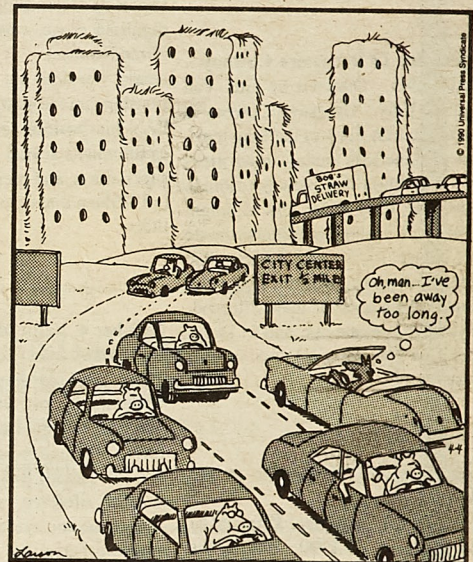
By GARY LARSON



"Hey! Look at Red Bear! ...
Wailiit ... THAT not real!"



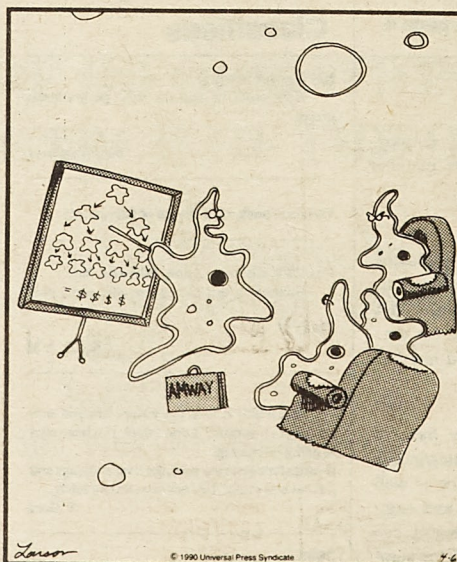
Special Agent Gumby falls into the
frustrated hands of the enemy.



WHILE YOU'RE VISITING, REGISTER IN OUR WEEKLY
DRAWING FOR FREE McDONALD'S GIFT CERTIFICATES

**RIP OUT
IT OUT
BRING IT IN...**
TAKE A BUCK OFF ANYTHING
You know him ... You love him
KENT - THE ENGRAVER
- THE GLASS GUY
110 W. 8th
364-1030

LOOKING FOR A FREE LUNCH? ASK
THIS WEEK'S WINNER MIKE BAHR



"And as amoebas, you'll have no problems
recruiting other sales reps ... just keep dividing
and selling, dividing and selling."



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Mother Goose & GRIMM

by Mike Peters



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PERSONAL RESOURCE DEVELOPMENT

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A Division of Student Affairs



STUDY SKILLS

Monday, September 10 3:30-4:30 pm; 201 Norwood Hall

Facilitator: Dr. Gene Van Matre

Effective study is more than studying a greater number of hours. Learn to use your study time to learn and recall better.

SEE YOU AT THE TOP!

Tuesday, September 11 3:30-4:30 pm; 201 Norwood Hall

Facilitators: Prof. Jim Highfill and Ms. Sandra Terry

One of the essential ingredients for landing the job you want, climbing the career ladder, and having a loving long-term relationship is the ability to directly yet respectfully express your ideas, preferences, and feelings. Plan to attend this workshop and learn more about asserting yourself.

RESUME WRITING

Thursday, September 13 6:30-8:00 pm; G3 Chemical Engineering

Facilitator: Dr. Sam Burton

Discussion will include purpose of a resume, determining what should be in your resume, having your resume make the best first impression and using the resume to your best advantage.

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PERSONAL RESOURCE DEVELOPMENT

Sponsored by Counseling & Career Development
A Program Listing for September 1990

STUDY SKILLS

Monday, September 10
3:30-4:30 pm
201 Norwood Hall

RESUME WRITING

Thursday, September 13
6:30-8:30 pm
G3 Chemical Engineering

WOMEN AND ALCOHOL

Tuesday, September 18
7:00-8:00 pm
104 Mechanical Engineering

INTERVIEWING SKILLS

Thursday, September 27
6:30-8:00 pm
G3 Chemical Engineering

SEE YOU AT THE TOP!

Tuesday, September 11
3:30-4:30 pm
201 Norwood Hall

TEST ANXIETY

Monday, September 17
3:30-4:30 pm
201 Norwood Hall

TIME MANAGEMENT

Monday, September 24
3:30-4:30 pm
201 Norwood Hall

For more information stop
by Counseling & Career
Development at 204 Norwood
Hall or phone 341-4211

Important StuCo Dates (Fall Semester 1990)

Month	Day	Time	Event
August	29	-----	Campus Appropriations Packages Available
September	4	6:30 P.M.	First StuCo Meeting 103 Engineering Management
September	11	6:30 P.M.	Special StuCo Meeting G-5 H-SS Parliamentary Procedures Workshop
September	14	-----	Campus Appropriations Requests Due
September	18	6:30 P.M.	StuCo Meeting 103 Engineering Management (Appropriations)
September	18-19	11 A.M.-5 P.M.	Blood Drive Centennial Hall
October	2	6:30 P.M.	StuCo Meeting 103 Engineering Management (SAF referendums distributed)
October	5	-----	STUCO FREE DAY!
October	16	6:30 P.M.	StuCo Meeting 103 Engineering Management (SAF referendums due)
October	30	6:30 P.M.	StuCo Meeting 103 Engineering Management
November	13	6:30 P.M.	StuCo Meeting (Centennial Hall) Open Forum (SAFB recommendations)
November	14-15	11 A.M.-5 P.M.	Blood Drive Centennial Hall
November	27	6:30 P.M.	StuCo Meeting 103 Engineering Management

Sports

Football team off to disappointing start

By Tom Brown
ASST. SPORTS EDITOR

Despite a stellar performance by Miner defense, the football squad suffered a disappointing loss to Washburn, 7-13 Saturday at Jackling Field. The inability of the offensive unit to get the ball into the endzone forced the Miner defense to be on the field most of the day. The offense was hampered by turnovers, recording 6 on the day, while accumulating only 116 yards. Despite the ineffectiveness of the offense to get points on the board, they did get 14 first downs, 3 more than Washburn. The backbone of the Miner offense, running game, tallied only 88 yards. It was all but complimented by their defense which went 2-14 for 28 yards and 2 interceptions. The leading rusher for the Miners was sophomore quarterback Mike Wise who rushed for 54 yards.

The defense held Washburn to just 100 total yards and limited their leading rusher for the past two seasons to 62 yards. The Washburn offense controlled the ball most of the game

with their time of possession being a little over 37 minutes. This forced the Miner defense to play 14 minutes more than the offense. The tired and battered defense was led in tackles by all-conference defensive end Mike Swinford, recording 9 unassisted tackles and one assist. The 6-4, 230lb co-captain was forced to play linebacker due to an injury to sophomore Stacey Ward. Seniors, Mike Chandler and Mike Noble, each had 9 tackles for the game.

The game began on a high note for the Miners with sophomore return man, Carlos Cain, returning the ball 22 yards on the opening kickoff. From there, both teams exchanged punts after failing to get a first down. A good Washburn roll, left the Miners with their back to the endzone and the ball on the one yard line. Unable to reach the necessary yardage for a first down, sophomore Greg Dennis, facing a Washburn rush, got off a 44 yard punt.

Then the Washburn offense took charge and began knocking at the Miners' door. Two great defensive plays, one by Swinford knocking

down a pass and another by Mike Noble hitting the pitchman for a loss, prevented the Icabods from entering the endzone. Washburn had to settle for a field goal putting them on top 0-3 with 4:32 left in the first quarter. Both teams exchanged possessions for the remainder of the game with Washburn holding onto the ball for five minutes longer than the Miners.

The second half started on a sour note for the Miners as Washburn returned the kickoff 47 yards to the Miner 49 yard line. There, the Miner defense sucked it up as once again Swinford and Noble were there to stop the Washburn for no gain. Then freshman defensive end Doug Fulton crashed the line and sacked the Washburn Quarterback. (Fulton chalked up eight tackles for the game.) Washburn was then forced to punt. But again, Lady Luck wasn't smiling as we fumbled on the return giving the Icabods the ball on our 13 yard line.

The Miner defense again rose to the occasion as Swinford this time with the help of free-safety Mark Diamond, stuck the Washburn ball

carrier for a loss. Sophomore defensive back, Don Huff thwarted the Icabods hopes of a touchdown by almost picking off a pass to the endzone. Washburn again had to settle with a field goal, keeping the Miners in the game.

On the ensuing series, things went from bad to worse, as the offense turned the ball over on the opening play, again putting the Icabods in scoring position on our 33 yard line. Two Quarterback keepers and Washburn was looking at a first and goal on the five yard line. This time the weary Miner defense was helpless as Washburn pounded the ball up the middle on a dive, scoring the first touchdown of the game. The point after was good giving the Icabods a 13-0 lead with 5:46 left in the third period.

Again, the two teams traded possessions neither making a dent in the others defense. With sophomore Vincent Banks deep to receive the punt the Miner blockers set up a wall allowing Banks to pick his way along the sideline scampering 74 yards for a touch-

down virtually untouched. The point after was good putting the Miners back in the ball game down by a touchdown with 36 seconds left in the third period.

With approximately 6 minutes left in the game, the Miners start a drive that begins at their own 48 yard line. The sophomore connection of Wise, Cain, and Banks along with some fine blocking move the ball to Washburn's 27 yard line. A penalty sets the Miners back to a second and 11 but a personal foul by a Washburn defender places the offense on the 15 yard line with a first and ten. The Miner fans suddenly came to life sensing a score that would give us victory. Another penalty on Washburn gave us first and goal on the eighth yard line, as the crowd voiced its approval. Fullback Art Matthews took a handoff and fought for a tough two yard gain. The crowd then came to its feet, chanting and cheering on its team. Then it happened, always a bride's maid and never a bride, we fumbled. That was all she wrote as the Miners got the ball only once more and was forced into a desperation offense that came up short.

Small in numbers, but big in heart

By Jeff Lacavich
STAFF WRITER

This year's women's soccer team is looking rough, but trying hard. They are gearing up for a season which could be a tough one. "Choosing a lineup won't be hard because of the lack of players," said Coach Boucher.

This year's team consists of only 10 players. Every player will have to give their all for an exciting season. The league will definitely play a large part in the success of the team.

Positions will be as follows:

Nets will be handled by junior Julie Sawyer, strong-back by sophomore Melissa Moore, right back by junior Stephanie Swift, left-back by freshman Heather Freeman, and stopper by sophomore Cynthia Peters.

The midfield will be controlled by junior Kim Dale, freshman Angela Ssanise, sophomore Jennifer Czcek, and possibly senior Lisa Burwell. Freshman Lisa Molner, junior Marijo Bimmick, and Burwell will play up front.

Key players will be Sawyer, Moore, Swift, Peters, Dale, and Ssanise. These players will need to be the driving force behind this year's team.

The schedule facing the women's team will be very tough. University of Missouri—St. Louis was ranked in the top ten last year and everyone is back this year. Tough games will be Little Rock, Louisville, Quincy, Lindenwood, Lewis, and Northeast, who was also ranked last year. Coach feels that the team can compete with Maryville and Westminster.

Strengths will be left up to the key players. The major weakness is their depth. The team is in desperate need of players. The team realizes the shortness of players, but they work hard and give it their all.

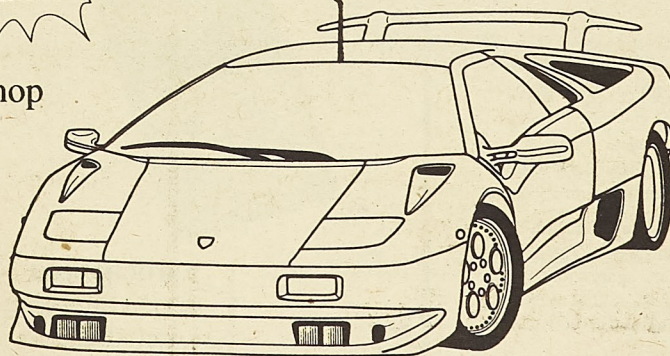
If the team could accomplish a .500 season it would be excellent. All that Coach Boucher wants from the team is hard play, no quitters and their best.

The team is looking for more players. If you are interested, please talk to Coach or the players. Coach Boucher's office is in the Multi-purpose Building. The lack of recruiting hurts the team. He would love to see some interested people. Good luck ladies!!!!!!!



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Soccer team takes 2nd in Gardener cup

By Tom Hughes
SPORTS EDITOR

The men's soccer team got off to an encouraging start. They took second place in the Gardener Cup over the weekend. They split games against two tough teams.

In the first game on Saturday, the Miners beat a tough Lewis University team by a score of 3-0. The Miners used tough defense and a balanced offense to wear down Lewis.

The defense was lead by a goalie Billy Faherty, who recorded his first collegiate shutout. Defenders Jay Knicker, Aaron Basham, Bruce Campbell, and senior Larry Frans limited the movement of the Flyers.

Offensively, Chris Sulinceuski lead the Miners. Sulinceuski scored two goals in an impressive performance. Pat Snider scored Rolla's third goal.

The offense was the beneficiaries of some outstanding midfield play. Led by Bob Schneider, Mike Balassi, Doug Tieber, and Jeff Schaeffer, the midfielders dominated the game.

In the second game of the tourney, the Miners faced Missouri Southern. Unfortunately, the fate was not the same. Plagued by nagging injuries and fatigue, the team fell 4-3.

Offensively, the Miners were fine. Balassi led the squad with two goals. Freshman Tony Saranita scored his first goal on the college level to round out the scoring.

The fatigue showed, however, on the defense. Once again Faherty played well, keeping the Miners in the game.

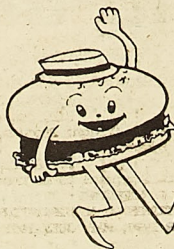
The freshmen came to the rescue in the second game. They nearly brought the team to a tie in the waning second.

The squad will try to regain their winning ways this week. The team is home for games against Columbia College on Tuesday at 7:30 and Saturday versus Bellarmine at 7:00. Come support the team!



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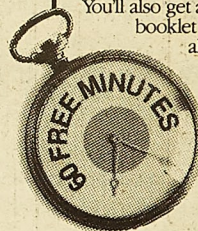
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Placement

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PLACEMENT OFFICE
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PERMANENT EMPLOYMENT

FALL WEEKLY DETAIL LIST #3
Week of October 1-5, 1990

SIGNUP LOCATION: G-3 Buehler Building
SIGNUP HOURS: 7:45 to 11:14 a.m.
1:00 to 4:15 p.m.

PRESCREENED INTERVIEWS

For prescreening companies, qualified students must submit resumes in Room G-3, Buehler Building prior to the deadline outlined. Resumes will be mailed to participating companies three weeks prior to their interview date, and they will select the students they wish to interview. Selectee's names will be posted on the bulletin boards in the signup area and in the appropriate departments. Posting of names will be done approximately two weeks before the interview date with a four-day deadline for signing.

PRESCREENED INTERVIEWS

HALMARK, INC.
P.O. Box 419580
Kansas City, MO 64141-6580
attn: Ms. Cindi Aiken

NUMBER OF SCHEDULES: 1-Manufacturing;
BS/General Business, Management, Liberal Arts or Eng.Mgt.
1-Management Science;
BS/Math, Statistics, Industrial Engineers
Complete details will be available at time of interview signups.
DEC. 1990, MAY, JULY 1991 GRADS
MUST COMPLY WITH IMMIGRATION REFORM & CONTROL
ACT OF 1986
LOCATION: Kansas City
DEADLINE FOR TURNING IN RESUMES: Thursday, Sept. 13
INTERVIEW DATE: October 1, 1990

PLEASE NOTE:

CARGILL WILL INTERVIEW ON OCT. 15-16, 1990.
INTERVIEW DATES OF OCT. 1, 2, HAVE BEEN CANCELLED.

NORTHERN ILLINOIS GAS
P.O. Box 190
Aurora, IL 60507-0190
attn: Mr. Kevin Kirby

NUMBER OF SCHEDULES: 1
MAJORS: BS/ME, CE or Eng. Mgt.
POSITION: NI-Gas Engineering Program
The first 12-18 months of an Engineering Dept.
include project experience in pipelines, underground storage and station design engineering as well as experience in gas system planning, knowledge acquired in these areas will assist in preparing the Engineer for future field and supervisory roles.
LOCATION: Naperville, IL
DECEMBER 1990 GRADS
3.0 G.P.A. REQUIRED
U.S. CITIZENSHIP REQUIRED

DEADLINE FOR TURNING IN RESUMES: Thurs., Sept. 13
INTERVIEW DATE: October 1, 1990

LACLEDE GAS COMPANY
720 Olive St.
St. Louis, MO 63101
attn: Mr. Thomas McKelly

NUMBER OF SCHEDULES: 1
MAJORS: BS/ChE, ME, CE
POSITION: Engineer
LOCATION: St. Louis
DECEMBER 1990 GRADS
MUST HAVE PERMANENT VISA

DEADLINE FOR TURNING IN RESUMES: Thurs., Sept. 13
INTERVIEW DATE: October 2, 1990

OKLAHOMA GAS & ELECTRIC
321 N. Harvey
P.O. Box 321
Oklahoma City, OK 73101
attn: Ms. Millie Tibbits

NUMBER OF SCHEDULES: 1
MAJORS: BS/EE, ME

POSITION: Power Plant Engineer, T&D Eng.
& Power Engineer (Marketing)
LOCATION: Various Oklahoma
DECEMBER 1990 GRADS
ANY AUTHORIZED TO WORK IN THE U.S.

DEADLINE FOR TURNING IN RESUMES: Thursday, Sept. 13
INTERVIEW DATE: October 2, 1990

MINNESOTA MINING & MFG. CO.
3M Center Bldg. 224-1W-02
St. Paul, MN 55144
attn: Ms. Barbara Kronholm

NUMBER OF SCHEDULES: 1-Oct. 2; 1-Oct. 3
MAJORS: BS/ChE, EE, ME
POSITION: R&D, Process Eng., Mfg.,
Project Eng., Design; Process Instrumentation and Control Systems
LOCATION: St. Paul, MN; Austin, TX; and manufacturing plant sites throughout the U.S.
3.0 G.P.A. REQUIRED
U.S. CITIZENS OR AUTHORIZATION TO WORK IN THE U.S.
DECEMBER 1990, MAY, JULY 1991 GRADS

DEADLINE FOR TURNING IN RESUMES: Thursday, Sept. 13
INTERVIEW DATES: October 2, 3, 1990

INTERNATIONAL PAPER COMPANY
P.O. Box 7069
Pine Bluff, AR 71611
attn: Mr. Ray Holloway

NUMBER OF SCHEDULES: 2
MAJORS: BS/MS ChE, ME, EE
POSITION: Project Engineers
LOCATION: Recruiting throughout IP's primary mfg. facilities, corporate engineering and technology
DECEMBER 1990, MAY, JULY 1991 GRADS
2.7 G.P.A. REQUIRED
MUST BE U.S. CITIZEN OR HAVE AUTH. TO WORK FULL TIME IN THE U.S.

DEADLINE FOR TURNING IN RESUMES: Thursday, Sept. 13
INTERVIEW DATES: October 2, 3, 1990

MISSOURI PUBLIC SERVICE
10700 E. 350th Highway
Kansas City, MO 64138
attn: Ms. Cynthia Smith

NUMBER OF SCHEDULES: 1
MAJORS: BS/EE
POSITION(S): Staff & Field Engineer
LOCATION: Kansas City area, Western Missouri
DECEMBER 1990 GRADS

DEADLINE FOR TURNING IN RESUMES: Thursday, Sept. 13
INTERVIEW DATE: October 2, 1990

CHEVRON CORPORATION
P.O. Box 7137
San Francisco, CA 94120-7137
attn: Ms. Josephine Ankers

NUMBER OF SCHEDULES: 2-Oct. 2;
2-Oct. 3, 1990
MAJORS: BS/MS ChE, CE, ME, EE
POSITION: Professional Engineers (Details will be posted with interview signup sheets)
LOCATION: Nationwide
DECEMBER 1990, MAY, JULY 1991 GRADS
3.0 G.P.A. REQUIRED
MUST BE ELIGIBLE TO WORK AND LIVE IN THE U.S.

DEADLINE FOR TURNING IN RESUMES: Thursday, Sept. 13
INTERVIEW DATES: October 2, 3, 1990

CHEVRON CORPORATION
113 S. Wilcrest
Houston, TX 77251
attn: Mr. Bill Brunkhorst

NUMBER OF SCHEDULES: 1
MAJORS: BS/MS PE
POSITION: Petroleum Engineer
LOCATION: Domestic U.S.
(indicate preference on resume)

PLEASE SUBMIT TRANSCRIPT WITH RESUME
DECEMBER 1990, MAY 1991 GRADS
MUST BE ELIGIBLE TO LIVE IN THE U.S.

DEADLINE FOR TURNING IN RESUMES: Thursday, Sept. 13
INTERVIEW DATES: October 2, 3, 1990

THE PROCTER & GAMBLE COMPANY
2 Procter & Gamble Plaza
Cincinnati, OH 45202-3314
attn: Ms. Janice Battle

NUMBER OF SCHEDULES: 1-Oct. 3
1-Oct. 4
MAJORS: BS/MS ChE; MBA with BS in ChE or Chem
POSITION: R&D Product Development
LOCATION: Cincinnati, OH
DECEMBER 1990, MAY 1991 GRADS

DEADLINE FOR TURNING IN RESUMES: Thursday, Sept. 13
INTERVIEW DATES: October 3, 4, 1990

McLAREN HART ASSOCIATES
11101 White Rock Road
Rancho Cordova, CA 95670
attn: Ms. Susan Johnson

NUMBER OF SCHEDULES: 1
MAJORS: Entry level positions available for:
Hydrogeologists, Engineers: CE, ChE, Environmental, Geotechnical, Math/Statistics, Computer Science, Environmental Scientists: Water Resources, Environmental Planning, & Land Use; Chemists, Geologists, Soil Scientists
LOCATION: Various - More details will be available at time of interview signups
2.5 G.P.A. REQUIRED
DECEMBER 1990 or MAY, JULY 1991 GRADS
MUST HAVE RIGHT TO WORK IN U.S.

DEADLINE FOR TURNING IN RESUMES: Thursday, Sept. 13
INTERVIEW DATE: October 3, 1990

U.S. ARMY CORPS OF ENGINEERS-KC DISTRICT
601 East 12th St.
Kansas City, MO 64106-2896
attn: Ms. Kathy Duffy

NUMBER OF SCHEDULES: 1 ea day, Oct. 3 & 4
MAJORS: BS/ChE, Geotechnical Eng. & Geologist
POSITION: Entry-level Intern
LOCATION: Kansas City, MO
DECEMBER 1990, MAY, JULY 1991 GRADS
2.0 G.P.A. REQUIRED
U.S. CITIZENSHIP REQUIRED

DEADLINE FOR TURNING IN RESUMES: Thursday, Sept. 13
INTERVIEW DATES: October 3, 4, 1990

SHELL OIL COMPANY
P.O. Box 2463
Houston, TX 77001
attn: Mr. Ned Moore

NUMBER OF SCHEDULES: 2 ea day (Schedules to be split)
MAJORS: Oct. 3: BS/MS ME, GeoE, PE
Oct. 4: BS/MS MinE, Comp Sci, ChE
POSITION: Positions will be listed with interview signups
LOCATION: various
DECEMBER 1990, MAY 1991 GRADS
2.8 G.P.A. REQUIRED
MUST BE LEGALLY AUTHORIZED TO WORK IN U.S. AND STUDENT VISAS

DEADLINE FOR TURNING IN RESUMES: Thursday, Sept. 13
INTERVIEW DATES: October 3, 4, 1990

STUDENTS SHOULD BRING COMPLETED APPLICATION (SHELL) and COPY OF TRANSCRIPT TO THE INTERVIEW.

INTERGRAPH CORPORATION
Madison Ind. Park
Huntsville, AL 35807
attn: Ms. Pam Cooper

NUMBER OF SCHEDULES: 2
MAJORS: BS/MS/PhD Comp Sci, EE
POSITION: Systems Engineer or Systems Analyst - Complete details will be available at time of interview signups
LOCATION: Huntsville, AL
recent grads, DECEMBER 1990, MAY, JULY 1991 GRADS
3.0 G.P.A. REQUIRED
U.S. CITIZENS, PERMANENT RESIDENTS, AND ALL OTHER APPLICANTS AUTHORIZED TO WORK IN THE U.S.

DEADLINE FOR TURNING IN RESUMES: Thursday, Sept. 13
INTERVIEW DATE: October 3, 1990

ALCOA-WARRICK
P.O. Box 3567
Davenport, IA 52808
attn: Ms. Judy Shook

NUMBER OF SCHEDULES: 1
MAJORS: BS/MS in Metallurgical Eng.
POSITION: Entry level opportunities in Metallurgical Engineering, beginning in fabricating plant involved in either process control of ingot casting, rolling, forging, or extruding operations. More details will be available.
LOCATION: Any one of nine fabricating operations (nationwide)
U.S. CITIZENSHIP OR PERMANENT RESIDENT VISA REQUIRED
DECEMBER 1990 or MAY 1991 GRADS

DEADLINE FOR TURNING IN RESUMES: Thursday, Sept. 13
INTERVIEW DATE: October 4, 1990

OKLAHOMA CITY AIR LOGISTICS
2854 AEG - DPCFE
Tinker AFB, OK 73145
attn: Mr. Paul Hargy

NUMBER OF SCHEDULES: 1
MAJORS: BS/EE
POSITION: Software Engineer
LOCATION: Tinker AFB
recent grads or December 1990 grads
U.S. CITIZENSHIP REQUIRED

INTERVIEW SIGNUP DATE: Tuesday, Sept. 11, 1990
INTERVIEW DATE: September 25, 1990

CONSOL
Consol Plaza
Pittsburgh, PA 15241
attn: Mr. Ivan Rahn

NUMBER OF SCHEDULES: 2
MAJORS: BS/Mining, Electrical Engineering
POSITION: Project Engineering
LOCATION: IL, PA, W.VA, Kentucky
DECEMBER 1990, MAY, JULY 1991 GRADES
U.S. CITIZENSHIP REQUIRED

DEADLINE FOR TURNING IN RESUMES: Thursday, Sept. 13
INTERVIEW DATE: October 4, 1990

REMINGTON ARMS
Consol Plaza
Pittsburgh, PA 15241
attn: Mr. Ivan Rahn

NUMBER OF SCHEDULES: 1
MAJORS: BS/Metallurgical Engineering
POSITION: R&D Engineer, emphasis on development.
Persons should have interest in shooting sports.
LOCATION: London, AR
DECEMBER 1990, MAY, JULY 1991 GRADES
U.S. CITIZENSHIP REQUIRED

DEADLINE FOR TURNING IN RESUMES: Thursday, Sept. 13
INTERVIEW DATE: October 4, 1990

AMT
777 N. Blue Parkway
Lee's Summit, MO 64063
attn: Mr. Bob Hart

NUMBER OF SCHEDULES: 4
MAJORS: : Information is not available.

INTERVIEW DATE: October 4, 1990

UNIVERSITY OF NOIRE DAME
165 Fitzpatrick Hall
Notre Dame, IN 46556
attn: Dr. Bill Kimberly A. Gray

NUMBER OF SCHEDULES: 1
MAJORS: Graduate school; Seniors
majoring in engineering, math, or science and
interested in environmental, structural and water
resource engineering are encouraged to consider
either master or Ph.D. programs in which monthly
stipends and tuition are paid.
LOCATION: South Bend, IN
PREFER 3.0 G.P.A.
recent GRADES, DECEMBER 1990, MAY, JULY 1991 GRADES

DEADLINE FOR TURNING IN RESUMES: Thursday, Sept. 13
INTERVIEW DATE: October 3, 1990
(Please note change in interview date from
October 5, to Oct. 3)

MOOTER CORPORATION
P.O. Box 451
St. Louis, MO 63166
attn: Ms. Sheila Adams

NUMBER OF SCHEDULES: 1
MAJORS: BS/MetE
POSITION: Welding Engineer
LOCATION: St. Louis, MO
DECEMBER 1990 GRADES

DEADLINE FOR TURNING IN RESUMES: Thursday, Sept. 13
INTERVIEW DATE: October 5, 1990

EXCON, INC.
P.O. Box 2180
Houston, TX 77252-2180
attn: Ms. Shirley Bates

NUMBER OF SCHEDULES: 4 ea day, Oct. 4, 5
MAJORS: BS/MS ChE, ME, PE, GeolEng,
MiningEng
POSITION: Engineering assignments in production,
marketing, refining, chemical operations, manufacturing,
systems, and research
LOCATION: Nationwide - predominately Texas,
Louisiana, and New Jersey
DECEMBER 1990 GRADES, MAY, JULY 1991 GRADES
PREFER G.P.A. OR "B" OR ABOVE
EXCON'S POLICY STATEMENT REGARDING CITIZENSHIP STA-
TUS IS IN ACCORDANCE WITH THE IMMIGRATION REFORM
AND CONTROL ACT OF 1986.

BRING EXCON APPLICATION AND TRANSCRIPT WITH YOU
AT TIME OF INTERVIEW.

DEADLINE FOR TURNING IN RESUMES: Thursday, Sept. 13
INTERVIEW DATES: October 4, 5, 1990

LAW ENVIRONMENTAL
114 Town Park Drive
Kennesaw, GA 30144
attn: Mr. Randy Nipp

NUMBER OF SCHEDULES: 2
MAJORS: BS/MS Geology, GeolEng,
Civil, or Chemical Engineering
POSITION: Staff Engineer, Staff Geologist
LOCATION: Nationwide
recent grads, DECEMBER 1990 or MAY 1991 GRADES
2.5 G.P.A. REQUIRED
U.S. CITIZENSHIP OR PERMANENT RESIDENT VISA
REQUIRED

DEADLINE FOR TURNING IN RESUMES: Thursday, Sept. 13
INTERVIEW DATE: October 5, 1990

ENTERGY OPERATIONS, INC.
P.O. Box 31995
Jackson, MS 39286-1995
attn: Ms. Laura Lillard

NUMBER OF SCHEDULES: 2
MAJORS: BS/MS ChE, CE, EE, ME, NE
POSITION: Design & Maintenance Engineering
LOCATION: Russellville, AR; New Orleans, LA;
Vicksburg, MS; Jackson, MS
DECEMBER 1990 OR MAY 1991 GRADES
2.5 MAJOR; 2.5 OVERALL G.P.A.
MUST BE AUTHORIZED TO WORK IN THE U.S. ON A FULL-
TIME BASIS

DEADLINE FOR TURNING IN RESUMES: Thursday, Sept. 13
INTERVIEW DATE: October 5, 1990

DEERE & COMPANY
John Deere Road
Moline, IL 61265
attn: Ms. Sandy Bishop

NUMBER OF SCHEDULES: 2
MAJORS: BS/ME, EE, Agricultural Eng.
POSITION: Mechanical Engineering:
Manufacturing, Plant & Quality Assurance Eng.
Electrical Engineering: EE
Detailed information will be available at time
of interview signups.
LOCATION: Iowa, Illinois, Wisconsin
DECEMBER 1990, MAY, JULY 1991 GRADES
U.S. CITIZEN OR PERMANENT RESIDENT
3.0 G.P.A. PREFERRED

DEADLINE FOR TURNING IN RESUMES: Thursday, Sept. 13
INTERVIEW DATE: October 5, 1990

EDS
One Forest Plaza
12200 Park Central Drive
Dallas, TX 75251
NOTE:
EDS HAS CANCELLED ALL
INTERVIEWS (8-3-90)

attn: Ms. Mara Campbell
NUMBER OF SCHEDULES: 1
MAJORS: BS Computer Science preferred
POSITION: Research Systems Engineering
LOCATION: Development Program
Must be flexible to relocate
nationwide

DECEMBER 1990 GRADES
3.5 G.P.A. PREFERRED
U.S. CITIZENSHIP OR PERMANENT RESIDENT

DEADLINE FOR TURNING IN RESUMES: Thursday, Sept. 13
INTERVIEW DATE: October 5, 1990

A.E. STALEY MFG. COMPANY
2200 E. Eldorado
Decatur, IL 62525
attn: Ms. Laura Cornille-Cannady

NUMBER OF SCHEDULES: 2
MAJORS: BS/Chemical Engineering
POSITION: Staff Process Engineer
(Details will be available at time of interview
signups.)
LOCATION: Midwest
DECEMBER 1990, MAY 1991 GRADES
MUST BE AUTHORIZED TO WORK IN THE U.S. FOR
OTHER THAN PRACTICAL TRAINING

DEADLINE FOR TURNING IN RESUMES: Thursday, Sept. 13
INTERVIEW DATE: October 5, 1990

ANDERSON CONSULTING
1010 Market Street
St. Louis, MO 63101
attn: Ms. Ruth Brock

NUMBER OF SCHEDULES: 6
MAJORS: BS/MS Computer Science, EE, ChE,
ME, Engineering Management & Math/
Statistics
POSITION: Staff Consultants
LOCATION: Interviewing for all locations
DECEMBER 1990, MAY, JULY 1991 GRADES
U.S. CITIZENSHIP REQUIRED
2.75 G.P.A. REQUIRED

DEADLINE FOR TURNING IN RESUMES: Thursday, Sept. 13
INTERVIEW DATE: October 5, 1990

NON-PRESCREENED INTERVIEWS

Signups for those companies not participating in
prescreening will be approximately two weeks prior to
the interview date. Signups will be put out for one
day (or until schedule fills). Signups will be on
a first-come, first-served basis; no priorities. Morning
signups will be for morning interviews; afternoon signups
will be for afternoon interviews. Back-up lists will be
available for those students unable to obtain an interview.

WERO INDUSTRIES
P.O. Box 100
Sand Springs, OK 74603
attn: Ms. Robin Hughes

NUMBER OF SCHEDULES: 1
MAJORS: BS/Met Eng.
POSITION: Quality Assurance Engineer
(Will develop into Plant Metallurgist)
LOCATION: Corporate Headquarters: Tulsa
DECEMBER 1990, MAY 1991 GRADES

INTERVIEW SIGNUP DATE: Monday, Sept. 17, 1990
INTERVIEW DATE: October 2, 1990

ILLINOIS DEPARTMENT OF TRANSPORTATION
2300 Dirksen Parkway
Springfield, IL 62703
attn: Ms. Sue Seppi

NUMBER OF SCHEDULES: 2
MAJORS: BS/CE
POSITION: Civil Engineer Trainee's
LOCATION: Illinois - Statewide
(9 districts)
DECEMBER 1990 GRADES
U.S. CITIZEN & APPLICANTS MUST BE AUTHORIZED
TO WORK PERMANENTLY IN THE U.S.

STUDENTS MUST COMPLETE IDOT APPLICATION AND
STUDENT TRANSCRIPT MUST BE AVAILABLE AT TIME
OF INTERVIEW.

INTERVIEW SIGNUP DATE: Monday, Sept. 17, 1990
INTERVIEW DATE: October 2, 1990

ARMCO RESEARCH & TECHNOLOGY
703 Curtis Street
Middletown, OH 45043
attn: Mr. Dave Britton

NUMBER OF SCHEDULES: 1
MAJORS: BS/MS/PhD Metallurgical Eng.
POSITION: Research Engineer in Corporate
Research Center conducting steel research
LOCATION: Middletown, OH
DECEMBER 1990, MAY, JULY 1991 GRADES
U.S. CITIZENSHIP OR PERMANENT RESIDENT VISA
REQUIRED

INTERVIEW SIGNUP DATE: September 20, 1990
INTERVIEW DATE: October 5, 1990

CHANGES WEEK OF SEPT. 17-21

PLEASE NOTE: ELECTRICAL & FUEL BURNING DIV. OF
FORD MOTOR COMPANY (INTERVIEWING SEPT. 21) HAS
CANCELLED INTERVIEWS. CAR PRODUCTION DEVELOPMENT
(DIV. OF FORD) WILL INTERVIEW ON SEPT. 21.

WEEK OF SEPT. 24-28, 1990

NORTH STAR STEEL COMPANY
P.O. Box 9300
Minneapolis, MN 55440
attn: Ms. Kerry Olzenak
NUMBER OF SCHEDULES: 1
MAJORS: BS/MS ChE, EE, MetE, ME, CerE
POSITION: Management Trainee - will begin at
one of North Star Steel's seven mills or other facilities.
Technical skills will be developed and enhanced by de-
veloping and designing projects and equipment on site to
solve real world production problems.
LOCATION: St. Paul, MN; Wilton, IA; Milton, PA;
Monroe, MI; Beaumont, TX; Calvert City, KY; Youngstown,
OH; Toledo, OH; Houston, TX
MUST HAVE U.S. CITIZENSHIP OR ALIENS WITH LEGAL
RIGHT TO WORK IN THE U.S.
DECEMBER 1990, MAY 1991 GRADES

INTERVIEW SIGNUP DATE: Wednesday, Sept. 12
INTERVIEW DATE: September 26, 1990

Summer Employment

TEMPORARY SUMMER TECHNICAL EMPLOYEE PROGRAM WITH 3M

Each summer in St. Paul, the 3M Company conducts a
technical training program. Projects assigned to
the student require the application of fundamentals
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in other activities such as a picnic attended by 3M
technical personnel. Qualifications:
completion of junior level of technical education
and at least a "B" average in Chemistry, Physics,
Polymer Science, Chemical, Mechanical, Electrical,
Metallurgical and Ceramic Engineering. Opportunities
also exist in other fields.

CONTACT: Ms. Barbara Kronholm, College Rel. Adm.
MINNESOTA MINING & MFG. CO.

3M Center, Bldg. 224-1N-02
Staffing Department
St. Paul, MN 55144
(3M WILL NOT INTERVIEW ON CAMPUS FOR SUMMER JOBS.
DEADLINE FOR SUMMER TECHNICAL EMPLOYEE
PROGRAM IS JANUARY 31, 1991.)

RESUMES FOR THE FOLLOWING COMPANIES TO BE SUB-
MITTED IN G-3 BUEHLER BLDG. (BASEMENT)
PLACEMENT OFFICE:

CHEVRON CORPORATION
111 S. Wilcrest
Houston, TX 77251
attn: Mr. Bill Brunkhorst

NUMBER OF SCHEDULES: 1 ea day, Oct. 2, 3
MAJORS: Petroleum Engineers
POSITION: Summer employment
LOCATION: Domestic U.S. (Upstream)
PLEASE SUBMIT TRANSCRIPT WITH RESUME.
Sophomore level

DEADLINE FOR TURNING IN RESUMES: Thursday, Sept. 13
INTERVIEW DATES: October 2, 3, 1990



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Computer graphics applications in C/UNIX

SYSTEMS ENGINEERING

Workstation development, databases, microcode, networks

APPLICATIONS ENGINEERING

Software support, training and benchmarks

TECHNICAL WRITING

Software/hardware documentation and user manuals

ON CAMPUS INTERVIEWS

Wednesday, October 3

Career Planning and Placement Center

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INTERGRAPH

SOUNDPORT

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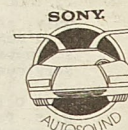
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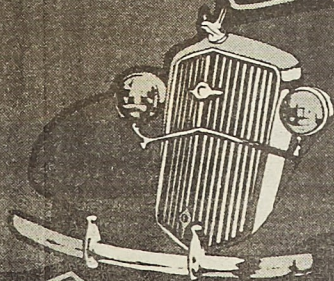
Audio Systems

115 N. Bishop

(across from O'Reilly's)

Rolla, MO 364-0785

**CLASSIC
AUDIO
DESIGN**



Lee Adams

CHEVRON CORPORATION
P.O. Box 7137
San Francisco, CA 94120-7137
attn: Ms. Josephine Ankers

NUMBER OF SCHEDULES: 1
MAJORS: Chemical, Civil, Electrical & Mechanical Engineers (Juniors & beyond for engineering Summer Internship - work assignments in refineries, engineering groups, petrochemical plants, oil field producing group, etc. Assignment will be tailored to your interests, level in school and academic background.)
POSITION:
LOCATION: Nationwide
3.0 G.P.A. REQUIRED MUST BE ELIGIBLE TO LIVE AND WORK IN THE U.S.

DEADLINE FOR TURNING IN RESUMES: Thursday, Sept. 13
INTERVIEW DATE: October 3, 1990

EXXON, INC.
P.O. Box 2180
Houston, TX 77252-2180
attn: Ms. Shirley Bates

NUMBER OF SCHEDULES: (Review of summer resumes)
MAJORS: ChE, PE, ME, GeolE, MiningE (Juniors or above)
POSITION: Job descriptions will be available at of interview signups.)
LOCATION: Nationwide - predominately Texas, Louisiana, and New Jersey
PREFER G.P.A. OF "B" OR ABOVE

EXXON WILL INTERVIEW IN ACCORDANCE WITH THE IMMIGRATION REFORM AND CONTROL ACT OF 1986.

DEADLINE FOR TURNING IN RESUMES: Thursday, Sept. 13
INTERVIEW DATES: October 4, 5, 1990

UNIVERSITY OF NOTRE DAME
165 Fitzpatrick Hall
Notre Dame, IN 46556
attn: Dr. Kimberly A. Gray

NUMBER OF SCHEDULES: 1
MAJORS: Sophomore, Junior Engineering or science majors
POSITION: Summer Research Positions
LOCATION: South Bend, Indiana
PREFER 3.0 G.P.A.

DEADLINE FOR TURNING IN RESUMES: Thursday, Sept. 13
INTERVIEW DATE: October 3, 1990

Informational Meetings

October 1	Chevron	Missouri Rm-UCE	6:30 pm
October 4	Univ. of Tulsa Grad School	UCE-Hallway	10 am-2 pm
October 7	Schlumberger Well Services	Mark Twain Rm-UCE	7:30 pm
October 8	ARCO Oil & Gas U. S. Patent & Trademark	104 ME Bldg. Mark Twain Rm-UCE	7:00 pm 7:00 pm
October 9	BHP Utah Int'l Dillards Inland Steel LTV Steel	Missouri Rm-UCE Math-CSci Bldg-Rm209 Mark Twain Rm-UCE Mark Twain Rm-UCE	7:00 pm 7:00 pm 5:00 pm 7:30 pm
October 15	U. S. Dept of Energy Conoco, NG & GP Conoco, C & TSD(Comp) Conoco, S&T&E Div. Conoco, RNE-RNA Div.	Maramec Rm-UCE Mark Twain Rm-UCE Mark Twain Rm-UCE 202B Cent. Hall-UCE 202A Cent. Hall-UCE	7:00 pm 6:00 pm 8:00 pm 7:00 pm 7:00 pm
October 16	Naval Air Systems	Mark Twain Rm-UCE	6:00 pm
October 18	Air Force Luncheon	Missouri Room-UCE	11am - 1pm
October 22	Amoco Oil Corp. Dow Corning Phillips Petr.	Rm. 204,206,210, & Rm 212 - McNutt Hall Mark Twain Rm.-UCE 202B Cent. Hall-UCE	6 am - 10 pm 7:00 pm 5:00 pm
October 23	Cap Gemini	Mark Twain Rm-UCE	7:00 pm
October 29	Dowell Schlumberger	Mark Twain Rm-UCE	7:00 pm
October 30	Atlas Wireline O'Brien & Gere	Meramec Rm-UCE Rm. 117 CE Bldg.	7:00 pm 7:00 pm

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- * Paradise 1024, 16-Bit VGA Color Graphics CARD
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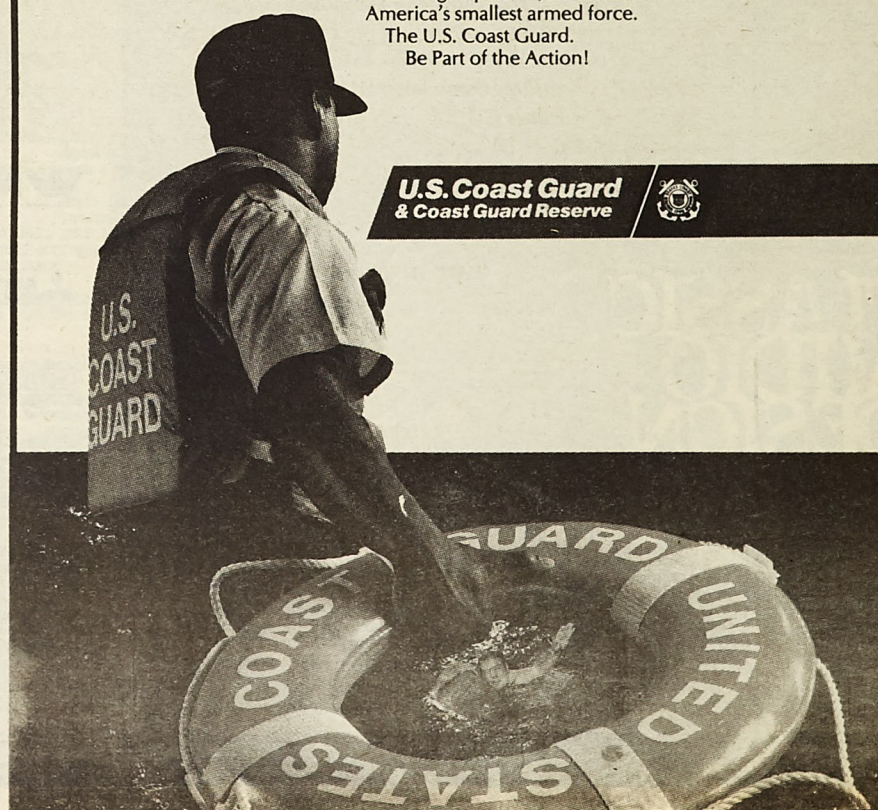
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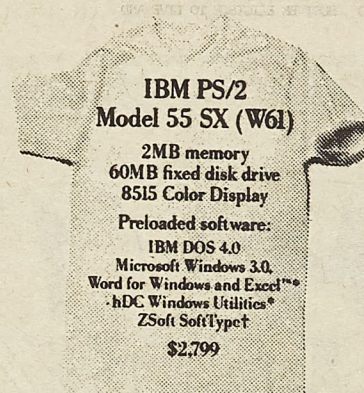
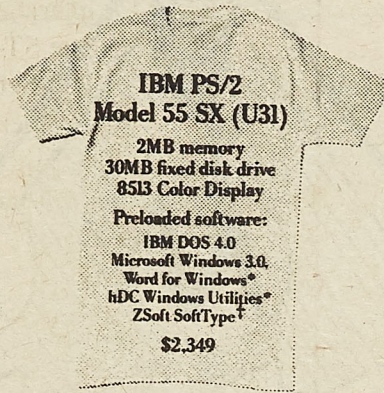
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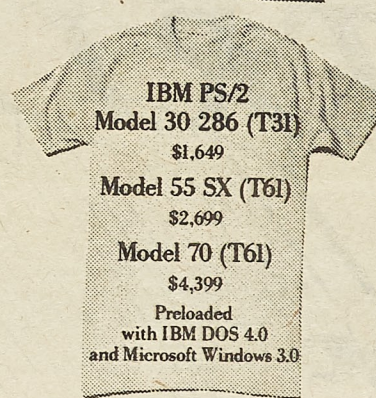
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IBM LaserPrinter E w/cable (Model 4019-E01)	\$1,039
Hewlett-Packard PaintJet® color graphics printer (Model HP 3630-A)	\$ 799

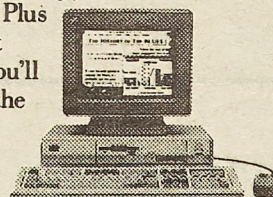


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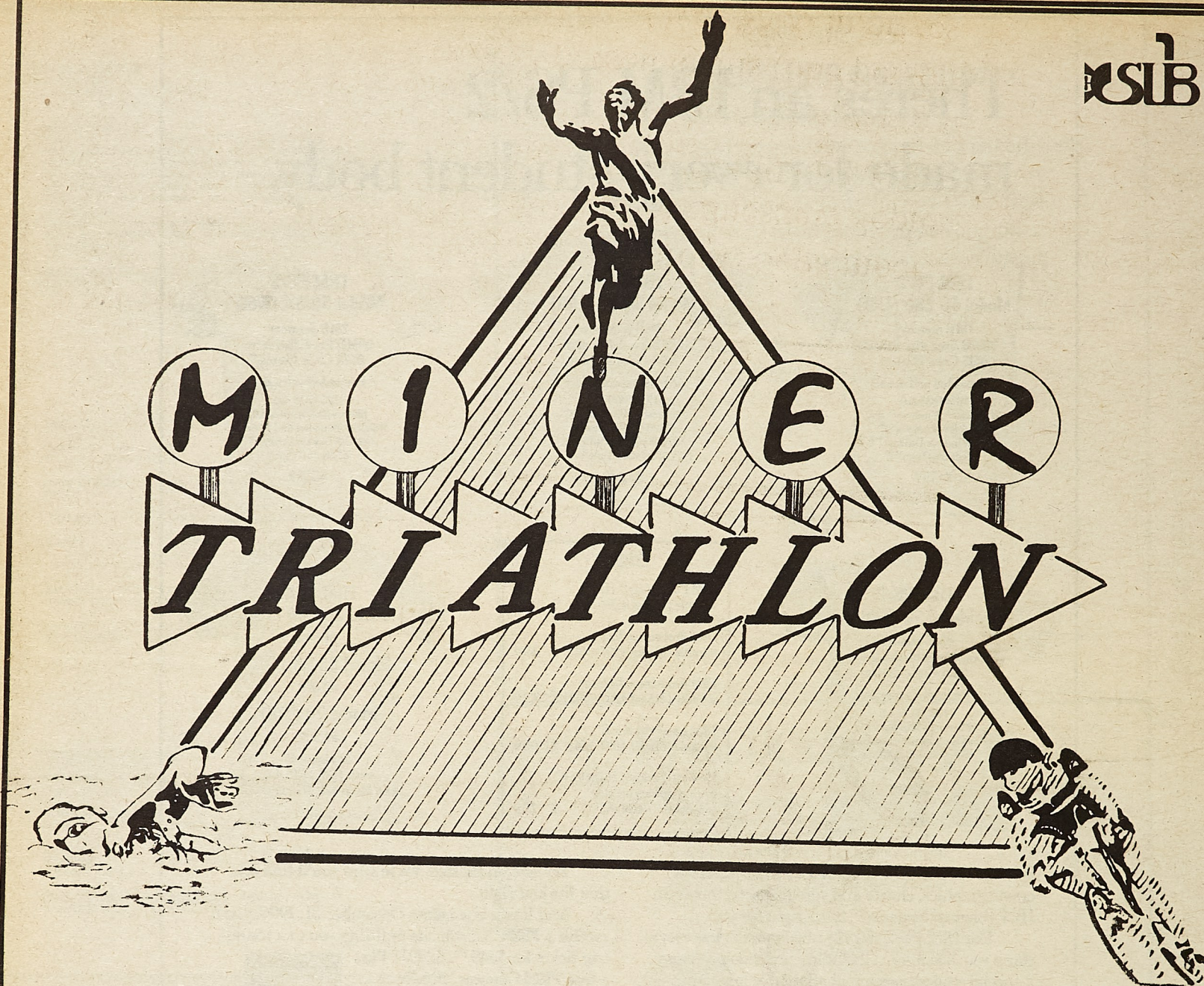
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SLUB



THE FACTS

THE TIME: 9:00 a.m. Saturday, September 22, 1990

THE DEADLINE: 4:30 p.m. Wednesday, September 1990

THE RACE: 500 Yard swim, 15 mile bike, 3.1 mile run

THE CATAGORIES: Men under 25, men 25 & over, Women under 25, women 25 & over, 3 person teams (one person/ event)

THE BENEFITS: Over \$500 in prizes

THE COST: FREE to Students & Faculty of UMR
(\$5.00 fee for Non-UMR persons)

THE ENTRY FORMS: Are available in the SUB office (218 UCW), Key Sport Shop, Pedal Power Cyclery & Vessell's Fitness Complex