



30 Sep 1966

The Missouri Miner, September 30, 1966

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ROTC Band Initiates First - Girl Baton Twirler

The UMR ROTC band will begin its 1966 season Oct. 1 when the Miners meet the Missouri Valley College Vikings in the first home game of the year.

This year, for the first time in its 40-year history, the band will feature a regular student twirler, freshman Myra Jane Wil-

son, of Trumann, Ark. Miss Wilson, a petite blonde who plans to major in computer science, will march in front of the band and will perform at home football games. A winner of a number of twirling competitions at regional and state band festivals, Miss Wilson was a featured twirler with the Trumann High School Band

and student band director. She plays the flute in the concert band.

At Saturday's game, the 80-piece band will present both pre-game and half-time shows with Miss Wilson as featured twirler. Drum major for the pre-game show will be James P. Thomas, sophomore civil engineering student from Willow Springs. The

pre-game show will feature a military presentation of colors by the Pershing Rifles and band performances of a special march arrangement of "America" and a salute to the Missouri Valley College Vikings.

The half-time show, with Alan L. Painter, Kirkwood sophomore,

as drum major, will present the band in drill and feature presentations and a twirling exhibition by Miss Wilson.

The band is under the direction of David Oakley, assistant professor of music, who returned to Rolla this fall after a year's leave of absence for graduate study.

The Missouri MINER

UNIVERSITY OF MISSOURI AT ROLLA

VOLUME 53

FRIDAY, SEPTEMBER 30, 1966, ROLLA, MISSOURI

NUMBER 3

Dedication of Residence Hall Attracts Visiting Dignitaries

A residence hall dedication memorializing the late Lt. Orvid J. Holtman, (j.g.) U.S. Navy, was held Sept. 24 at the University of Missouri at Rolla.

Holtman, a U.M.R. graduate, was killed in action June 6, 1944, at Omaha Beach while serving in a demolition unit of the Seabees.

His patriotism was cited by R.J. (Bus) King, Jr., Missouri representative from St. Louis County who made the dedication speech. King said "The character and courage which Holtman carried in his everyday life as well as that which he took into battle on that fateful day was nurtured here at U.M.R., and it should ever stand as an inspiration to the hundreds of other young people who will be leaving this institution in the years to come, both in their private and public lives." King went on to express a belief that world peace may be brought about largely through people educated by institutions such as the University

were guided tours of the residence halls.

Lt. Holtman, son of Mr. and Mrs. O. J. Holtman of Mexico, Mo., was posthumously awarded the Purple Heart by the War Department on Sept. 12, 1944 for his service in a demolition unit of the Seabees, at Omaha Beach, where he was killed. He was also awarded the Presidential Unit citation for Navy Combat Demolition Unit of Force O for service on D Day, and is named on a plaque at Ft. Pierce, Fla. memorializing names of men who died in the invasion of Normandy.

Lt. Holtman was graduated from the University of Missouri

PLAQUE UNVEILED
R. J. King, Missouri Representative from St. Louis County, unveils the plaque honoring Orvid Holtman, UMR graduate and World War II hero.

Interview Panel to Discuss Employer - Employee Relations

On Wednesday, October 5, there will be an interview panel discussion in the Student Union Ballroom at 7:30 p.m. Everyone is invited to attend, especially graduating seniors and those who want summer jobs. Dean Hershkowitz, Dean of Placement, will moderate while representatives of established firms speak about four facets of employer-employee relations. An open floor question period will follow.

Mr. Robert Overton, assistant manager, Industrial Relations Department from the Mooley Co. of Kansas City, Missouri, will speak about "The Interviewer's Obligations to the Interviewee."

Mr. Edwin F. Brown from Douglas Aircraft of Santa Monica, California, will talk about, "What Employers Are Seeking in Employees."

Mr. R. G. Redelfs, Director of Technical Recruitment, from St. Joe Lead of Monaca, Pennsylvania, will treat, "The Interviewee's Obligation to the Employer."

A representative from IBM of Lexington, Kentucky, will speak on "The Long Range Program of Selecting an Employee."

Before the discussion, the

speakers will dine with Dean Hershkowitz, the Student Union Board, and the director of the Student Union Board, Mr. W. J. Kratzer.

Chancellor Baker Names Departmental Chairmen

UMR Chancellor Merl Baker has announced the list of faculty members who will serve as departmental chairmen during the 1966-67 school year here. Their appointments extend to Aug. 31, 1967.

The chairmen include: ceramic engineering, Dr. Robert E. Moore; chemical engineering, Dr. Mailand R. Strunk; chemistry, Dr. William H. Webb; civil engineering, Dr. Joseph H. Senne; electrical engineering, Dr. Roger E. Nolte; engineering graphics, Prof. Lloyd

C. Christianson; engineering mechanics, Prof. R. F. Davidson; geological engineering and geology, Dr. Thomas R. Beveridge;

Humanities, Dr. Jim C. Pogue; mathematics, Dr. Charles E. Antle; mechanical engineering, Dr. Thomas Faucett; metallurgical engineering, Dr. Harry Weart; military science, Prof. David L. Gundling; mining and petroleum engineering, Dr. Ernest Spokes; physical education, Prof. Gale Bullman; physics, Dr. Harold Q. Fuller, and social studies, Dr. James G. Harris.



UNIVERSITY PRESIDENT SPEAKS

Dr. Weaver, president of the Missouri University system, addresses the assembly during dedication ceremonies.

of Missouri at Rolla.

King spoke at the 2 p.m. ceremony in front of the Hall at the corner of 9th and Bishop Streets. Dr. John Weaver, president of the University, University officials, state dignitaries, representatives of the U.S. Navy and Army, and members of the Holtman family were present to witness the unveiling of the plaque in Holtman's honor. Dr. Merl Baker, chancellor of U.M.R., presided over the ceremony. The invocation was given by John M. Brewer, associate professor of English at U.M.R. with music provided by the wind orchestra of the U.M.R. - ROTC band directed by David L. Oakley, assistant professor of music. After the ceremony, there

at Rolla in 1938 with a B.S. degree in civil engineering. While at U.M.R. he was a member of Pi Kappa Alpha social fraternity of which he was president; business manager of the "Miner" and member of the American Society of Civil Engineers. He was graduated from Mexico High School in 1933 and attended Central Methodist College in Fayette and Westminster College in Fulton. He served as city and county surveyor in Mexico, Audrain County.

The men's residence hall named for Holtman, is a four-story red brick building with a capacity of 118 students. Construction of the building was started in 1964 to help meet the rising U.M.R. student enrollment.

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Reception to Feature ROTC Change of Command

Cadet Colonel Martin Capages, Springfield, Mo., the newly appointed commander of the Cadet Brigade of the Reserve Officer Training Corps at UMR, will be honored with a reception at the UMR Student Union from 5 to 6 p.m. Thursday, Oct. 6.

The main feature of the program will be the change of com-

mand from 2nd Lt. (Res) Harold Schelin, Verona, Mo., former commander. The colors will be passed from Schelin to Chancellor Merl Baker who will present them to Cadet Capages. Members of three military student organizations, the Raiders, the Pershing Rifles, and Scabbard and Blade, will also participate in the ceremonies.

Faculty Members Are Promoted to New Positions

The promotions of 18 members of the faculty at UMR have been announced by Chancellor Merl Baker.

Seven faculty members were made full professors. They are C. J. Grimm, electrical engineering; Harry J. Sauer, Jr., mechanical engineering; S. J. Pagano and Charles E. Antle, mathematics; Wilbur P. Tappmeyer, Chemistry; James L. Kassner, Jr., physics, and Karl M. Moulder, humanities.

Promoted to associate professor were Kenneth G. Mayhan and Marshall E. Findley, chemical engineering; C. B. Bayse, engineering mechanics; S. B. Hanna, James O. Stoffer and David S. Wulfman, chemistry, and Richard D. Hagni, geology. Norman G. Dillman, assistant professor of electrical engineering, was given the additional title of associate in electronics of the Space Sciences Research Center at Rolla.

Instructors who were promoted to assistant professor were Wilma E. Hord, electrical engineering; Robert L. Wright, metallurgical engineering, and Geza Kisvarsanyi, geology.

Society of Professional Engineers Receive Charter

The Missouri Society for Professional Engineers received a new operational charter on June 4, 1966. Essentially the charter provides the students of UMR with the opportunity to become active members in MSPE on campus. To the student MSPE provides an assistance in helping him to prepare to meet the challenges of society so that he may better serve his fellowman.

The UMR chapter of MSPE has three primary objectives of service to the student: first, MSPE strives to promote the concept of professionalism among engineering students; second, the organization acts to orientate the student towards steps necessary in becoming a professional engineer; third, it instills in the student a knowledge of engineering in the hope of obtaining student interest in engineering. Fulfillment of these objectives is the purpose of this organization's goal of engineering professionalism.

As a preparation for the engineering profession a senior enrolled in the field of engineering must first register and then take the Engineering-In-Training Exam (E.I.T.). Later in his senior year if the student passes the 8 hour E.I.T. exam he will then serve a four year apprenticeship. Upon successful completion of this work he will then be required to take a second exam of 8 hours duration. Passing of this final test will entitle an individual to be classified as a professional engineer and as such he will then be licensed by the state to practice. As a professional member of society the engineer will be charged with many responsibilities and services to the community. Through participation in the activities of MSPE he will be ready to meet the problems which will confront him.

The MSPE and the National

UMR Faculty Attends Foundry Conference

Four members of the UMR faculty attended the September 15-16 meeting of the Missouri Valley Regional Foundry Conference held at the Sheraton-Jefferson Hotel in St. Louis.

The biennial conference, co-sponsored by the St. Louis, Tulsa, Kansas City and Memphis chapters of the American Foundrymen's Society and the U.M.R. student chapter of AFS has previously been held on the U.M.R. campus, where the conference originated.

Among the 200 representatives of the foundry industry were U.M.R. faculty: Dr. Daniel S. Eppelsheimer, professor of metallurgical engineering and nuclear engineering; Robert V. Wolf, associate professor of metallurgical engineering and secretary-treasurer of the conference executive committee; R. C. Tooke, instructor of metallurgical engineering; and Robert Graham, teaching assistant in the metals casting laboratory.

Among papers presented at the conference were those by U.M.R. graduates: A. James Kiesler, of General Electric Co., Schenectady, New York who spoke on "Areas

of Promise in Science and Technology;" Dr. R. L. Wright, of Western Michigan University, Kalamazoo, Michigan whose paper "A New Curing Process for Resin Bonded Sands" was based on graduate research done at U.M.R.; Donald G. Schmidt, of H. Kramer and Co., Chicago, Illinois on "Zero Casting Defects" and Larson E. Wile, of Lynchburg Foundry Co., Lynchburg, Va., on "Shell Core vs. Hot Box Process."

The U.M.R. representatives of the Foundry Educational Foundation program on this campus made their report at the Thursday breakfast meeting. The FEF contributes \$5,000 annually in undergraduate scholarships to students at U.M.R.

NOTICE!

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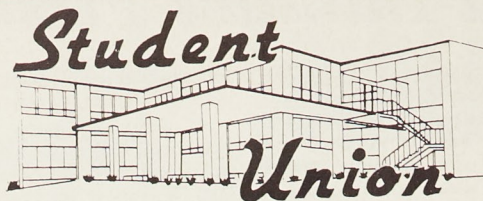
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1. Chancellor's Coffee Chat — October 6 at 3:00 p. m. in the Union Lounge. Topics: The Athletic and the Intramural program.
2. Sunday Movie: "Commacheros" — Shown at 2:30, 5:00 and 7:30 in the ballroom.
3. Learn about employer-employee relationships and important items to be considered in seeking a job, at the Student Union Interview Panel, October 5, at 7:30 p. m., in the Union Ballroom.
4. All School Mixer, October 8 in the Union Ballroom. Featuring Joey Jay and The Sheratons.

Drs. Clark and Scott Attend Annual Symposium

Dr. George Clark and Dr. J.J. Scott of the department of mining and petroleum engineering at UMR participated in the eighth Symposium on Rock Mechanics at the University of Minnesota, Minneapolis, Sept. 15 to 17.

Dr. Clark presented the principal paper in a session on rock blasting, reviewing the progress in rock blasting to date and pointing out some of the major research problems of the near future. Dr. Scott was co-chairman of a technical discussion session on the design of underground excavations.

Dr. Ernest M. Spokes, chairman of the department of mining and petroleum engineering, was a member of the program planning committee for the Symposium.

Dr. Scott will also attend the International Congress on Rock Mechanics in Lisbon, Portugal, Sept. 25 to Oct. 1.

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Sept. 29 - Oct. 4

Sunday Feature

1:30, 4:15, 6:45, 9:30

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Cary Grant & Samantha Eggar

Starts Wednesday Oct. 5-10

'The Russians Are Coming'

Carl Reiner & Eva Marie Saint

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'That Man in Istanbul'

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Sun., Mon., Tuesday Oct. 2-4

Sunday Continuous from 1 p. m.

'Batman'

Adam West & Burt Ward

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92 YEARS OF SERVICE

UMR Long Standing Tradition - Dr. Herbert Hanley

In the tradition of every university, there is at least one outstanding professor who becomes a cherished campus institution.

At the University of Missouri at Rolla, such a notable personage is Dr. Herbert R. Hanley, professor emeritus of metallurgical engineering, who has spent half of his 92 years at the University.

Dr. Hanley, better known as "Cap," celebrated his 92nd birthday Sept. 18 in Firmin Desloge Hospital recuperating from a cataract operation. The situation failed to dampen the spirits of the perky professor, who was showered with cards from colleagues and friends.

"I'm 57 going on 58," Dr. Hanley quips, and most people find it hard to believe that the alert energetic Hanley isn't closer to 57 than 92.

Dr. Hanley, who began teaching in 1923 at U.M.R., the former Missouri School of Mines and Metallurgy, has been professor emeritus for 20 years, but he doesn't know what retirement means. He has never quit. Just three years ago, he taught a class in extractive metallurgy.

Dr. Hanley walks a half mile daily, whatever the weather, to his office on the U.M.R. campus. Still very much a part of the department of metallurgical engineering, as the "elder statesman" he is friendly and helpful counselor to other professors and to students. He is frequently called upon to do consulting work and carries on correspondence with metallurgists all over the world.

Dr. Hanley's devotion to his field and to his school fill his

time as a continuing profession and retirement hobby. "I'm not smart enough to have a hobby," he jests.

Metallurgical engineering has been Dr. Hanley's consuming interest of a lifetime, in industry, where he pioneered in developing some of the metallurgical processes in common use today, and in education.

Indicative of the high regard held for Dr. Hanley by the members of his profession was the 1966 Mineral Industry Education Award given to him by the American Institute of Mining, Metallurgical and Petroleum Engineers. Dr. Hanley, who is a 64-year member of AIME, was cited as a "venerable and respected metallurgical engineer and educator whose career has spanned many generations, and whose enthusiasm for his profession and AIME has never diminished."

Dr. Hanley had been educated as a pharmaceutical chemist at Northwestern University before attending U.M.R., where he received his B.S. in mining engineering in 1901. He later received the degree of metallurgical engineer at Rolla and also holds the degree of doctor of engineering (honoris causa) from U.M.R.

In 1923, Dr. Hanley returned to his alma mater to teach metallurgical engineering, becoming chairman of the department in 1942. He continued his consulting work on zinc, lead, electrometallurgy and secondary metals. He has conducted numerous investigations for metal companies, and has authored over 35 publications in the general field of metallurgy. He is the holder

of joint-holder of nine patents on metallurgical processes. He developed the process of electrogalvanizing steel products in acid solution, developed electrolytic cadmium using rotating aluminum cathodes, and assisted in the development of the electrolytic manganese process using lead silver anodes, among others.

Dr. Hanley is a member of many professional and honorary societies, including the AIME, the Mining and Metallurgical Society of America, the Electrochemical Society, Sigma Xi, Tau Beta Pi and Phi Kappa Phi. He is a registered engineer in Missouri and adjacent states.

Dr. Hanley's official academic retirement in 1946 gave him time and freedom to devote to consulting and for further development of an already renowned career in international engineering circles.

In 1951, under the Economic Cooperative Administration, he conducted a group of European lead and zinc metallurgists on plant inspections in the United States under the Marshall Plan. He was an advisor for Foreign Operations Administration and the International Cooperative Administration.

In 1953, Dr. Hanley, a youthful 79 years of age, took on a new challenge; organizing a department of mining and metallurgical engineering in Taiwan College of Engineering, which later became Cheng Kung University in Tainan, Taiwan (Formosa). Working under what Dr. Hanley terms "Robinson Crusoe" conditions, the professor and skillful Chinese craftsmen succeeded in equipping a modern depart-

ment for mining and metallurgical education. The Hanleys spent three busy and happy years in Formosa, and today often he welcomes to this country Chinese graduate students from "his" department in Taiwan.

Dr. Hanley's retirement has also given him time to devote to writing. As a recognized expert in his field, he has been a contributor on galvanizing iron and steel to Encyclopedia Britannica.

Other publications in recent years include papers on zinc and zinc alloys in the "Handbook of Engineering Fundamentals" published by John Wiley and Sons, New York, and articles for the Mining and Metallurgical Engineering Annual and the Borg Warner Corp. monthly magazine. Dr. Hanley was responsible for the outline and arrangement of a book entitled "The Metallurgy of Lead and Zinc" published by AIME.

ASCE Picks Baur to Serve As 1966-67 President

New officers elected at the first meeting of the American Society of Civil Engineers are: Godfrey Houston, president; John Baur, corresponding secretary; Paul Miller, vice president; Rich Wohlbert, treasurer, and Bob Bruce, secretary. All are majoring in civil engineering.

The American Society of Civil Engineers, a professional organi-

zation, was established nationally in 1852 and the University's chapter was activated in 1924.

ASCE's objective is to help students of civil engineering to begin their professional activities and associations which are valuable to the practicing civil engineer. Various programs and activities are included in the chapter's schedule each semester.

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Former UMR Research Director Buried at Arlington Cemetery

Funeral services for David W. Heiman, Brig. Gen. U.S.A. (Ret.), director of the UMR Industrial Research Center, were held at 2 p.m. Eastern Daylight Saving Time Sept. 26 at Arlington National Cemetery, Arlington, Va.

Gen. Heiman, who had been ill for several months, died at 12:25 p.m. Sept. 18 at the Fitzsimmons General Hospital, Denver, Colo. He was admitted to the General Leonard Wood Hospital on June 1 and was transferred to Fitzsimmons on June 6, 1966. He was 59 years old.

Gen. Heiman was born May 3, 1907. He was graduated from the United States Military Academy, West Point; the University of California with a B.S. degree in civil engineering; the U.S. Army Engineer School, Fort Belvoir, Va.; the Command and General Staff College, Leavenworth, Kans.; and the 120th Advance Management Program, Harvard University.

He served for 33 years in the Army Corps of Engineers, eight of which were spent in Kansas City and St. Louis. The Kansas City assignment from 1936 to 1949 was on civil works construction on the Missouri River. In 1948, he went to St. Louis, where he became assistant divi-

sion engineer in civil works construction on the upper Mississippi River. He later was transferred to inventory management for two years in St. Louis, with subsequent assignments in the same field in Washington, D.C.

Gen. Heiman had been assistant commandant in charge of the Army Engineer School at Fort Belvoir. He served overseas in the Pacific theater for three years during World War II and again from 1959 to 1961 when he was engineer to the commander in chief of the U.S. Army in the Pacific.

He retired from the service in 1961 at which time he became

vice president and then president of Royer and Roger, Inc., New York. On Dec. 1, 1964, he assumed his duties at U.M.R. as associate director of the Industrial Research Center.

Gen Heiman held the Silver Star, Legion of Merit and Bronze Star with two clusters for his military service. He was a fellow of the American Society of Civil Engineers and was a member of the Missouri and National Societies of Professional Engineers, the Society of American Military Engineers, the American Society for Engineering Education and the American Legion.

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Miner Editorials, Letters, and Features



Coal Pile Mars Campus

It is estimated that 50-60% of the student body take their morning stroll up State Street on the way to their seven-thirty and other early morning classes. One can expect somewhat of a pleasant route to class only to be disillusioned by the prospects of the biggest blight on campus: the UMR Power Plant coal pile. Not only is this coal poorly stored and positioned, but when we are lucky enough to have our usual inclement weather in this fine sector of the midwestern weather belt, a torrent of water floods State Street and the paralleling sidewalks with a sooty, greasy deposit. These delightful black particles always seem to have a knack of settling on clothing and personal belongings and being splashed up by passing cars.

When facilities were made for the storage of coal, the necessary fuel for the UMR Power Plant, very little consideration was given to the simple fact that a huge pile of coal does not impress the student body on a campus that is becoming so appearance-conscious. It certainly doesn't impress any new faculty or distinguished visitors. It wouldn't be all that bad if the coal was at least restricted by some sort of wall.

One might argue that building a storage bin or some sort of shelter is a needless expense but it is a known fact that the run-offs and deposits are a public nuisance. The scenic image of UMR is comparable to the main street of a small Pennsylvania coal-mining town where the populace eat, sleep, and thrive in a layer of coal dust. It would be by no means a technical impossibility to surround the coal with a storage bin or at least build a retaining wall to partially stop the overflow of coal. The traffic on State Street is actually stymied by the countless students who have to walk down the middle of the avenue to avoid huge pools of water due to the inadequate drainage available at the site.

In conjunction with the multi-million dollar drive to remodel and construct a new, moving campus it may be well-worth the administration's efforts to look into some of the problems involved with the existing structures. Such minor improvements would definitely add to the overall beauty of this campus.

Believe It or Not . .

Girls Will Compete Here In Cross Country Meet

The University of Missouri at Rolla will host a women's open cross country meet this Saturday, October 1, starting at 10:30 a.m. Entries are being accepted for teams of AAU registered runners in the junior and senior divisions.

UMR varsity cross country coach Ted Moore explains that the juniors (under 14 years of age) will run a one-mile loop, and the seniors (14 and over) will run a mile and a half. The course is on the University golf course.

Women harriers from the Ozark Track Club in St. Louis, the University of Missouri at Columbia, and Kansas City have expressed intentions of entering. The Ozark Club is sending approximately 12 girls, including Judy Toeneboelm from St. Louis. Judy, an attractive, 21-year old senior from Southern Illinois University (Carbondale), is the Club record-holder in the 50, 100, 220, and 440-yard dashes.

Also entering is Ozark's jun-

UMR FM Station Announces Staff

The KMSM-FM radio station staff for the 1966-67 school year are as follows: Jim Thomas, chief announcer; Ken Bowles, station manager; Gene Cummins, chief engineer; Thomas Braeckec, educational program director; Walter Jarett, musical program director, and Robert Schwab, asst. chief announcer.

KMSM-FM, which is licensed as an education station operates a total of 52 hours a week while school is in session.

University Plunges Into Work Of Centennial Challenge Program

With the ever-increasing enrollment here at the University of Missouri at Rolla, the school administrators, alumni association, and other men of prominence have decided to meet "the challenge."

These men have carried on valiantly the drive inaugurated a couple of years ago, known as the Centennial Challenge Program. This program was designed not only to plan and coordinate an inspiring, one-hundred year's anniversary celebration but to spearhead a drive to raise \$69,361,000. This sum is subdivided into the basic areas of need: student aid, faculty development, off-campus programs, research, equipment, and building projects. The Centennial Challenge Committee, headed by Mr. R. O. Kasten, and Mr. Enoch Needles, Honorary Chairman, both alumni, is currently involved in a drive to raise this sum by 1970.

Of the basic categories of need that this university must meet, if it is to stay among the top engineering schools in this country and rise to new heights and technical excellence, the construction portion of the centennial goal is certainly the largest portion amounting to nearly \$33,425,000. This sum will be raised largely through alumni contributions, state and federal funds, donations, from foundations, and industrial and business interests. The drive towards this goal has been reported to be going very well and figures will be reported when they are made available to the public.

It is important that the present student body be well-acquainted with the organization of this

challenge and that they realize the importance and scope of this project. Of prime and most direct importance is the construction of the new Materials Research Center and the new UMR Library. Both of these structures are growing before the Miners and indications are that they will be open and functioning during the fall, 1967 semester. These buildings, of course, have been previously funded at respective costs of \$1,107,000 and \$2,250,000. Another construction project nearing completion is the \$700,000 addition to the Physics Building. These structures although previously funded are a part of the

Centennial Challenge that we can observe daily. By 1970, there are a total of seventeen additional structures which should be funded and construction should begin.

In effect, this is the portion of the challenge program that requires immediate attention if, for no other reason, than practicality. Enrollment has sky-rocketed every fall and these much-needed facilities and buildings must be provided. Notably some structures that are included in this group of seventeen include: a multi-purpose auditorium-gymnasium, a new student union, more dormi-

(Continued on Page 5)

Forensic Society Elects At First Fall Meeting

The UMR Forensic Society elected Fall semester officers at its first meeting. Those elected to office were President, Dave Cantwell; Vice President, Clem Drag; Secretary-Treasurer, Brunn Roysden; and Librarian, Bob Wolfs-

berger.

The Forensic Society is in the midst of preparing for the forthcoming season's National Debate Topic, Resolved: That the United States should substantially reduce its foreign policy commitments.

Four members of the UMR team have been chosen to attend a Debate Workshop to be held at Central Missouri State College in Warrensburg, Missouri on September 30 and October 1.

Miller, Edwards Chosen to Head Chapter of MSPE

The student chapter of the Missouri Society of Professional Engineers met Thursday, September 22, and held its election of officers for the fall semester. Those elected to office were: President, Paul Miller; Vice-President, Ed Edwards; Secretary, Dave Cantwell; Treasurer, J. D. McKinney; and Society Representative, Don DaSaro.

Retiring President, Truett V. DeGare presented to the chapter the Student Society Charter which was presented to him at the State Convention this summer. The keynote address for the evening was presented by Mr. Garvin H. Dyer, past president of both the Missouri Society of Professional Engineers and the National Society of Professional Engineers. Mr. Dyer spoke on "Professionalism in Engineering."

Additional student memberships will be taken at the next meeting, October 25.

LITTLE MAN ON CAMPUS



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THE MISSOURI MINER

UNIVERSITY OF MISSOURI AT ROLLA



THE MISSOURI MINER is the official publication of the students of the University of Missouri at Rolla. It is published at Rolla, Mo., every Friday during the school year. Entered as second class matter February 8, 1945, at the Post Office at Rolla, Mo., under the Act of March 3, 1879.

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Dr. Norbert Kreidl Addresses Foreign Ceramic Symposiums

A UMR professor addressed two symposiums on glass in Cairo and Tokyo in September.

Dr. Norbert J. Kreidl, who was recently appointed professor of ceramic engineering and research associate in the Graduate Center for Materials Research at U.M.R., spoke on "Some Radiation Effects on Complex Glasses and their Structures" at the Cairo Solid State Conference held Sept. 3 through 7 at the American University in Cairo.

At the session on "Radiation Effects" of which he is chairman at the Tokyo Symposium, he spoke on the use of the electron microprobe in analyzing defects in glass. This conference of the International Commission on Glass with the Japanese Ceramic Assn. was held Sept. 12 through 17 at the University of Tokyo and Kyoto.

Before joining the U.M.R. faculty in June, Dr. Kreidl was visiting professor of ceramics at Rutgers University and was a scientific consultant to Bausch and Lomb, Inc., New York. A native of Austria, he holds a Ph.D. degree in physics from the University of Vienna.

Dr. Kreidl has been engaged in silicate research at the Kaiser Wilhelm Institute in Berlin and has been associated with the glass industry in Czechoslovakia with research, production and management responsibilities. In 1938, he came to the United States as assistant professor of glass technology at Pennsylvania State University. While there, he served as consultant to Bausch and Lomb and in 1943 he joined that company as chief of the division of inorganic chemistry and glass research. He became chemical re-

search director in 1949 and subsequently director of materials research and development, a position which he held until 1965.

Dr. Kreidl's fields of research have included the constitution of glass, optical properties, color, radiation effects, infrared materials, and high pressure. He is the author of nearly 100 articles published in technical journals in the United States and Europe and holds a number of U.S. patents in glass technology.

Leland Lewis Chosen as Prexy By Fifty-Niners

The Fifty-Niners Club at the University of Missouri at Rolla have elected their officers for the 1966-67 school year. They are as follows: Leland Lewis, president; Michael S. Clayton, business manager; James Grvenloh, secretary, and Larry Choate, steward.

The Fifty-Niners Club, organized in 1959, is a cooperative eating club for non-fraternity students at the University of Missouri at Rolla.

In addition to the club's function as a cooperative eating club, the members participate in various all-campus functions including intramural athletics.

Intercollegiate Knights Meet - Choose New Slate of Leaders

Fall semester officers were elected at the first meeting of UMR's Intercollegiate Knights.

They are as follows: Joe M. Ditto, president; James Rosenkoetter, vice-president; Robert Mildenstein, secretary; Steve Ban, treasurer; Fred Jones, pledge master; Dave Baxter, expansion officer; Tom Niemeier, sergeant-at-arms, and Keith Wedge, recorder.

The Intercollegiate Knights is

an honor service fraternity for freshmen and sophomores. To qualify for membership, students must have an overall grade average of not less than 3.0 out of a possible 4.0.

The objectives of the organization are to establish, promote and foster college spirit, to maintain unity in their alma mater and to cherish and conserve their high standards, traditions and worthy activities through service sacrifice and loyalty.

Prospectors Club Elects For New Academic Year

Prospectors Club officers for the new academic year are: Denny Spencer, president, senior in electrical engineering; Eddie W. Edwards, vice president, junior in electrical engineering; Gene Brune, secretary-treasurer, senior in mechanical engineering; J. W. Gorrell, present business manager, senior in civil engineering, and Charles E. Meyer, future business manager, senior in metallurgical engineering.

The Prospectors Club is one of several student organized and operated cooperative eating clubs on the campus. Its purpose is to provide meals which are both nutritious and inexpensive on a non-profit basis. The club also participates in intramural competition and campus-wide activities.

Officers Chosen To Lead UMR NES In Coming Year

The Nuclear Engineering Society at UMR has recently selected its officers for the academic year. They are as follows: John A. Munns, president, a senior in metallurgical engineering; Steve C. Mueller, vice president, senior in metallurgical engineering; Paul E. Johnson, secretary, senior in metallurgical engineering with a nuclear option; and Roland O. Jackson, treasurer, senior in metallurgical engineering with a nuclear option.

The Nuclear Engineering Society has as its objectives the advancement of science and engineering relating to the atomic nucleus and of allied sciences and areas. The Society undertakes to promote professional development of its members by its programs and relations with other student societies and to contribute toward the development of nuclear science and technology at UMR.

Challenge Program

(Continued From Page 4)

tories, student infirmary, warehouse, and departmental structures including mechanical, metallurgy, reactor, electrical, civil, computer science, and a mining-geology complex.

In just the four or five short years any of the Miners have attended this school, they can surely reminisce about the way it used to be, but it stretches the imagination to return in 1970 and be sure of visiting the "same old campus."

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Representative on Campus

MONDAY, OCTOBER 3

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Greek Columns

KAPPA SIGMA

Kappa Sigma, under the leadership of Rush Chairman Ray Behrens, received 36 men into pledgship on September 9, 1966.

The thirty-six men were: Roy Becker, Dave Breece, Bob Blumentritt, Lyndell Buckles, John Cizek, George Colwell, Jerry Cook, Ron Davis, David Davisson, Jack Dowling, Dan Dugan, Jim Fuller, Roger Easterday, Don Goehri, Bill Greene, Roy Hamakawa, Herman Hirner, Bill Jarchow.

John Kelly, Kent Kelly, Steven Lemasters, Steve Malcolm, Nat McClure, Jim McKelvey, Jon McNeerney, Steve Ohnimus, Mike Redd, Jim Richie, Charley Sharp, Jim Spangler, Pete Thorsell, Duane Vaughn, Tim Vicente, Dave Wilkat, John Williams.

SIGMA NU

Sigma Nu social fraternity at the University of Missouri at Rolla has elected officers for the 1966-67 school year. They are as follows: Frank A. Gerig, president; Louis B. Goldfeder, vice president; Donald B. Lambert, secretary; Keith H. Wilham, pledge marshal; Brunn W. Roysden, treasurer, and James P. Powers, chaplain.

Sigma Nu has recently pledged the following: James R. Byer, Josh H. Weaver, John L. Schwager, Charles LeRoy Wheattey, John Edward Markovich, Michael Ray

Aimerito, Stephen John Brunkhorst, William James Shinpaugh, Robert Eads, Gerald L. Young, Stephen E. Wright, Charles Alan Breedlove, Stephen J. Herman, Robert H. Yowell, Jr., Kenneth Beckman, Jr., and Stephen L. Pitner.

SIGMA PI

Sigma Pi social fraternity at UMR has elected its officers for the fall semester. They are as follows: Charles Rowlan, president; Lyndell Cummins, vice president; Lincoln Cochran, secretary; Kent Rogers, treasurer; Fred Bondurant, alumni secretary; Neal Kolchinsk, herald; John Berger, house manager; Tom Joslin, parliamentarian; An-

drew Polcyn, social chairman, and John Tyndorf, assistant treasurer.

PHI BETA IOTA

Phi Beta Iota social fraternity at the University of Missouri at Rolla has recently pledged the following: Norvel Derickson, Jr., Wayne R. Bell, James D. Pierce, Bryce L. Shriver, and Richard Wayne Ursch.

NOTICE!

UMR Student Council Appropriations Requests will be available at the SU Candy Counter until October 10.

Computer Science Group To Discuss IBM System

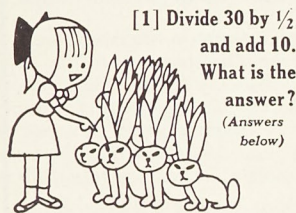
The UMR Chapter of the Association for Computing Machinery (ACM) will hold its first meeting of the year next Wednesday, October 5, at 7:00 p.m. in room 107 Mining Building. Mr. John Prater, Systems Analyst and Instructor in Computer Science for UMR, will discuss the effects of the new IBM System 360 computer system on Computer Center operations and the expected benefits for users of the new system. After the talk, there will be a brief mixer during which refreshments will be served and new members may circulate and meet some of the old members who will gladly answer any questions about the ACM.

The ACM was founded in 1947

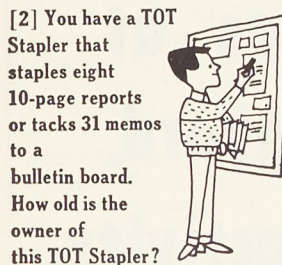
for the purposes of advancing the "state of the art" of Computer Science and of developing an exchange of ideas within the profession and with the public. In order to aid students in their technical and professional development, the association has a special student membership. A student member has all the privileges of a member except the right to vote in national ACM elections. Among other things, student members receive the three official publications of the ACM at a savings which more than covers the five dollar membership fee.

The UMR chapter invites all UMR students interested in any phase of computing science to attend next week's meeting.

Swingline Puzzlements



[1] Divide 30 by $\frac{1}{2}$ and add 10. What is the answer? (Answers below)



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ANSWERS 1. 70 (30 divided by 1/2 is 60, plus 10 is 70) 2. 10 (8 reports of 10 pages each is 80 pages, plus 31 memos is 111 memos, which is 10 more than 101)

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FRIDAY, SEPTEMBER 30, 1966

THE MISSOURI MINER

PAGE 7

Miners Crushed by Gorillas In Final Two Minutes of Play

The final two minutes of play were all it took for the Pittsburg, Kansas Gorillas to eliminate a slim Missouri Miner lead and pocket a 35-23 victory last Saturday night. The fans at Brandenburg Field in Pittsburg were none too cheerful about the 16-point UMR halftime advantage but later made up for it as their squad held the Miners scoreless and smashed home four touchdowns to boot.

Throughout the first half, Dewey Allgood's men held the winning combination. Even with the loss of Rich Erxleben within the first three minutes of play, the Miners were able to score. A 38-yard touchdown pass from Lewis to Ricker made the score 6-0, and the successful point-after-touchdown was good for another point.

Pittsburg evened the tally a short time later, as Charles Justice recovered a ball dropped by Bob Nicodemus. With first and goal-to-go, Justice crossed the line for the TD. The PAT was good.

As the time ran out in the first quarter, Nicodemus engineered a TD set-up on the Gorilla one-yard line. In the opening minutes of the second period, the 190-pound halfback pushed across for the six-pointer. Verdi's PAT was good. Senior end Art Verdi got in the act again later in the quarter as he kicked a 23-yard field goal that bounced once and then flipped over. The score stood at 17-7.

Within two minutes, the Miners had picked-up another first down, and a long 40-yard toss to Gene Ricker yielded another TD. This catch brought Ricker into a tie for the career record for receiving scoring passes (10). The half-time whistle blew with the score UMR 23, Pittsburg 7.

MIAA Report

By Bill Conner

The Warrensburg Mules romped to a 38-7 victory over Washburn in non-league action. The Mules were sparked by the performance of quarterback Ken Brumley. Brumley's 15-yard touchdown run triggered the Mules' offense. Brumley scored another touchdown connected with Jim Morton for a third and kicked a field goal. Washburn ground out its touchdown in the fourth quarter on a 76-yard march.

Southeast Missouri State blanked Evansville, Ind. 21-0 as quarterback Gregg Brune threw two touchdown passes and piloted a 54-yard drive for the third touchdown. Evansville was held to 63 yards total offense.

Kirkville's Bears were defeated Saturday by Parsons College under the passing attack of Parsons' quarterback Daynor Prince. Prince completed 16 of 25 tries for 199 yards. The Bears' only touchdown came on a 6-yard run in the first quarter by Rick Reeves. Final score: Parsons 34, Bears 6.

In other action Northwest Missouri State at Maryville defeated Peru (Neb.) State 40-14 and Southwest Missouri State at Springfield was defeated by Lamar Tech. 55-12.

Following the intermission, the Gorillas picked up their second touchdown of the game. Injuries plagued the Miners from the start of the half, and this became even more obvious in the fourth quarter. The UMR offense moved all the way to the Pittsburg six-inch line, but failed to produce the TD in two successive rushes.

Four Gorilla first downs moved play to the mid-way point and Tom Gorman punted into the UMR end zone as their luck seemingly ran out. The Miners took possession on their 20-yard line, but a pass intended for

Missouri Valley vs UMR In First Football Duel

The University of Missouri at Rolla and Missouri Valley College are scheduled to meet this Saturday for the first football battle in the history of the two schools. Coach Dewey Allgood's Missouri Miners, winless in two starts, will be facing an undefeated Viking squad just fresh from an MCAU victory over Graceland last weekend.

Allgood's starting offense will list at least five freshmen including Don Steenrod, left guard from St. Louis. Steenrod played both offense and defense last Saturday night at Pittsburg, Kansas, and is expected to go both ways against Missouri Valley.

PROBABLE STARTING LINE-UPS

Miners		Vikings
Boyer	LE	Bittle
Sharp	LT	Taylor
Steenrod	LG	Rimmer
Fridley	C	Morris
Dooms	RG	Hehr
Owens	RT	Sweet
Starnes	RE	Elliot
Lewis	QB	Tobin
Nicodemus	FB	Petrocelli
Erxleben	HB	DiMuzio
Ricker	HB	Thomas

Game time 2 p. m. in Rolla

Newcomer Joe Stout from Paducah, Kentucky, ranks as one of UMR's top freshman ends and proved his worth last week with eight hits and four assists against the Kansas Gorillas. The Miners were downed 35-22 in a contest which they dominated until the final two minutes of play.

STATISTICS					
Score by Quarters:					
UMR	7	16	0	0	23
Pittsburg	7	0	7	21	35
UMR					
14	First Downs				18
54	Yards Rushing				270
228	Yards Passing				49
39	Passes Attempted				19
18	Passes Completed				6
1	Passes Intercepted				5
3	Punts				0
30	Yards Penalized				106

Bruce Starnes was intercepted. With five minutes to go in the game, Gorman rushed the ball to the Miner-nine and then to the two-yard line. Big Gaylan McCubbin scored on a two-yard play into the end zone and the PAT was good.

With the score 25-21 in favor (Continued on Page 8)

JV Football Squad Opens Three Game Card

UMR's junior varsity football squad will open a brief three-game schedule against Missouri Valley on Monday, October 3. The game will be at Marshall, Missouri, with kick-off time set for 7 p. m.

The Vikings will return the visit on the following Monday, October 10, with a 3:30 p. m. battle scheduled. The junior edition of the Springfield Bears will round out the Miner JV season on October 17. That final contest will also be fought in Rolla at 3:30 p. m.

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Miner Harriers Down Lincoln in First Meet

By Little David

This year the UMR squad started its season off right by defeating Lincoln University (26-29). This was accomplished through the efforts of UMR harriers Keith Brown, Stan Notestine, John Dishon, Ron Tracy, and Steve Ballman as they finished second, fourth, fifth, sixth, and ninth respectively on the new four mile course here at Rolla.

The hard paced competition

Tennis Singles And Table Tennis Begin

By Greg Julian

Table tennis and tennis singles saw their first round of intramural action September 20, as the new season opened. Last year John Link of Tau Kappa Epsilon took first in the tennis singles, while Khin Maung Thein of Phi Beta Iota captured the crown in table tennis.

In order to play table tennis, contestants must have entered their three man teams plus two alternates. An alternate may play either in singles or doubles, but not both. This double elimination tournament, which is played at 5:30, 6:30, 7:30, and 8:30, started September 20, at the Student Union. To win, the contestant must take 2 out of 3 game series played to 21 points.

Rules governing table tennis are as follows:

1. No serving outside table radius.
2. No serving over or on the table.
3. No serving underneath the level of the table.
4. In the completion of a stroke, no part of a player's hand or arm may touch the table.
5. In serving, the racket, the ball and the hand should be in contact together.
6. Three (3) consecutive let serves constitute a point to the opposite player.

Entries for tennis singles were also submitted September 15, and the matches commenced September 20. Three men's names were submitted from each organization. One is the alternate, while the

(Continued on Page 8)

confronted in this due-meet can only be appreciated through the revelations of the statistics which show a difference of only three minutes between the first and tenth place finishers.

Last Saturday morning Ron Werling of Kirkville ran off with first place in the UMR cross country quad-meet with a record breaking time of 20:32. Ron was last fall's conference winner at the MIAA conference meet held at Warrensburg with a time of 20:49.2, and from whatever observations that can be made this early in the season he is still the one to beat.

Ron's record breaking time last Saturday shattered the four day old new course record of 23:35.5 established by Larry Dunlap of Lincoln University during the Miner's opening meet of the season last Tuesday.

Miners Place Fourth

In Saturday morning's quad-meet, Northeast Missouri State of Kirksville captured first, Southwest Missouri State of Springfield ranked second, Central Missouri State of Warrensburg finished third, while our own Miners placed fourth. The respective scores were: 26, 56, 65, and 87 points. Despite the results the Miners did put up a valiant fight. The reason for this loss can only be explained to the Miners lack of experience, especially against such speedsters as Ron Werling.

Next Saturday the UMR harriers will host the Washington University Bears at 11:00 a. m. Last year the Miners met defeat at the hands of the Bears by a score of (18-34). Thus this upcoming meet will be a challenge to the Miners as they attempt to avenge themselves. The added strength of this challenge should cause the Bears quite a struggle in their efforts to remain aloft.

Also this year the UMR harriers are going to finish their season by hosting the MIAA conference meet. This meet will be on November 5, at 10:00 a. m.

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MISSOURI VALLEY vs. UMR
2 P. M. TOMORROW
CROSS COUNTRY
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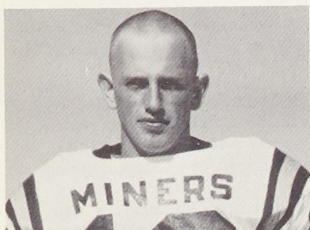
MEET THE MINERS

By Lloyd J. Lazarus

Lewis and Ricker Rewrite Record Books

Ronnie Lewis, junior quarterback from Aurora, Missouri came to UMR three years ago on a football scholarship and by the time he graduates he will own most of the records in the record book.

Last Saturday night he set two individual game records and tied a third. While doing this he also set four career records.



RON LEWIS

Ron has attempted and completed the most passes in a single game, and the most passes in a season, 39 and 367 respectively. In both these categories with 367 attempts and 152 completions. Unfortunately he also holds the career record for the most passes intercepted with 49. He also set a new career record for the most passing yardage with 1962 yards. He also holds records for the most touchdown passes in a single game with 3 and the most touchdown passes in a season with 11. Ron also has combined with Eugene Ricker for the longest touchdown pass that covered a distance of 87 yards.

It is good to know that the most complex job on the football field is in the capable hands of Ron Lewis.

Eugene Ricker, 5'-5" 140 lb. junior right halfback, is another person who is a winner of an athletic scholarship. Eugene hails from Mount Ayr, Iowa where he played football for the community high school.

In the past two years Eugene has managed to gain 1878 total yards and leads the team in that

department. Last week he gained 190 yards and tied the school record for catching the most touchdown passes with ten. He also tied the school record for the third time for catching the most touchdown passes in one game with two. Besides those records he also has tied the records for most touchdowns and points scored in one game.

Eugene's other activities besides football are being president of the M Club, and Student Council representative for the GDT's. Also he is happily married and is on the dean's list. Before he was married he was a member of Tech Club. He is also a member of the track team and runs the hundred yard dash in 9.9 seconds.

If you have ever seen Eugene break through the defensive line, you would wonder how he can run so fast. If you were in his place with all those big guys running after you you wouldn't you be a little bit scared too?

MINERS VS. GORILLAS

(Continued From Page 7)

of UMR, the Miners found that their offense was no more and the defense not much better. Halfback Jerry Hudson of the Gorillas surprised both squads by grabbing a pass and running 54 yards for a TD, with 2 minutes left. In the final minute, Pittsburg recovered a Miner fumble deep in UMR territory. McCubbin made a four-yard plunge to ice the game 35-23.

Although the Miners picked-up 228 yards from the air attack (compared to Pittsburg's 49), they were left behind on the ground. The Gorillas racked-up 270 net yards rushing; the Miners totaled 54.

"Injuries hurt us more than anything!" said Coach Allgood. Erxleben may be out for a week because of his head injury in the opening minutes.

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THIS IS
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FALSTAFF

IN LIFT-TAB CANS



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INTRAMURALS

(Continued From Page 5)

other two will play for the organization. To win a contest a player must win one 9-game set. That is, the first player to win 9 games takes the set.

Team standings will be based on both of their players' scores. Intramural points will also be determined by the place of finish of both men. Tennis singles will also be a double elimination sport with an upper and lower bracket. All courts across from the dorms will be utilized and matches will start at the above times listed for table tennis.

Entries for intramural golf tournament are due in the athletic office on Wednesday, October 5. The tournament (36-hole medal play) will be held on the UMR golf course on Saturday and Sunday, October 8 and 9.

SIDELINES



BY JIM WEINELL

During the intramural managers meeting held a couple of weeks ago, it was decided to allow the use of "spikes" in intramural football and softball competition. These "spikes" will consist of rubber cleated soft sole shoes. Whether the spikes will prove to be an aid or a hindrance is yet to be seen, however the results should become obvious in the current flag football play.

The second of four new teams added to this year's varsity football schedule will be making the trip to Rolla this weekend, this time from Marshall, Missouri. The Miners have never opposed the Missouri Valley Vikings in football competition, so it should be an interesting meeting. Viking coach Volney Ashford has steered his squad to 10 Missouri College Athletic Union championships in his 27-year reign. Missouri Valley finished second to William Jewell College in the MCAU final standings last year, compiling a 3-1 league mark and 4-5 overall record.

UMR students might be interested in the pre-meet action scheduled to take place this Saturday before the varsity cross country squad opposes Washington University. A women's cross country meet will be held on the UMR course with anywhere from 20 to 40 girls participating. The senior division run at 10:45 a.m. is expected to bring coeds from Mizzou as well as St. Louis area schools. Why not come up and watch, then stay for the varsity meet which will follow at 11.

Address questions and comments to "Sidelines," c/o THE MISSOURI MINER, UMR, Rolla, Missouri.

Sports Calendar

VARSITY FOOTBALL

October 1 Missouri Valley, at UMR
October 8 William Jewell, at Liberty

VARSITY CROSS COUNTRY

October 1 Washington University, at UMR
October 8 Harris Teachers College, at St. Louis

INTRAMURAL SPORTS

October 5 Entries due for Intramural Golf
October 8-9 Golf Tournament

The Harmon Football Forecast

TOP 20 TEAMS

(Forecasting Average: 283 right, 93 wrong753)

1 - MICH. STATE
2 - NOTRE DAME
3 - GEORGIA TECH
4 - FLORIDA
5 - U.C.L.A.

6 - SOUTHERN CAL
7 - MICHIGAN
8 - ALABAMA
9 - TENNESSEE
10 - ARKANSAS

11 - MISSOURI
12 - S. M. U.
13 - MISSISSIPPI
14 - OHIO STATE
15 - NEBRASKA

16 - PURDUE
17 - TEXAS
18 - GEORGIA
19 - HOUSTON
20 - MIAMI, FLA.

Saturday, October 1 — Major Colleges

Alabama	14	Mississippi	10
Arkansas	21	T.C.U.	8
Baylor	20	Washington State	7
Boston College	16	V.M.I.	7
Brigham Young	19	Colorado State	14
Brown	16	Pennsylvania	13
Buffalo	22	Villanova	13
California	22	Pittsburgh	6
Citadel	20	East Tennessee	13
Colgate	20	Cornell	16
Colorado	31	Kansas State	0
Dartmouth	40	Holy Cross	0
Dayton	10	Bowling Green	7
Duke	17	Virginia	8
East Carolina	32	Furman	0
Florida	21	Vanderbilt	0
Georgia	32	South Carolina	7
Georgia Tech	33	Clemson	7
Harvard	40	Tufts	0
Houston	20	Oklahoma State	15
Idaho	23	Paine	7
Iowa	20	Wisconsin	20
Kent State	14	Ohio U.	7
Kentucky	17	Auburn	10
Memphis State	14	Southern Miss.	17
Miami, Fla.	30	Western Michigan	6
Miami, Ohio	30	North Carolina	7
Michigan	28	Illinois	7
Michigan State	28	Kansas	13
Minnesota	21	Kansas	13
Mississippi State	14	Air Force	10
Navy	14	Iowa State	7
Nebraska	35	Texas Western	15
New Mexico	17	Wake Forest	7
North Carolina St.	30	Louisville	12
North Texas	16	Northwestern	7
Notre Dame	40	Washington	8
Ohio State	20	San Jose State	19
Oregon	20	Army	13
Penn State	20	Columbia	6
Princeton	38	Oregon State	0
Southern Cal	24	Purdue	21
S. M. U.	24	Maryland	20
Syracuse	21	Tulane	21
Stanford	22	Boston U.	14
Temple	20	Rice	8
Tennessee	27	Indiana	14
Texas	28	Texas A & M	8
Texas Tech	26	Marshall	13
Toledo	20	Missouri	15
U.C.L.A.	21	New Mexico State	15
Utah State	20	West Virginia	14
V.P.I.	20	Arizona State	12
West Texas	22	Arizona	14
Wichita	15	Cincinnati	14
William & Mary	26	George Washington	7
Wyoming	31	Arizona	7
Yale	16	Rutgers	13

Other Games — East

Amherst	31	American Int'l	0
Bates	22	Trinity	12
Bowdoin	14	Wesleyan	13
Bucknell	14	Maine	7
C. W. Post	18	Alfred	7
Clarion	30	Geneva	6
Connecticut	14	Vermont	8
Delaware	17	Gettysburg	7
Ithaca	21	Montclair	13
Lehigh	19	Drexel Tech	14
Lock Haven	13	California State	7
Middlebury	20	Worcester Tech	19
Northeastern	20	Colby	13
Norwich	14	Coast Guard	6
Rhode Island	23	New Hampshire	7
St. Lawrence	25	Hobart	7
Slippery Rock	18	Edinboro	7
Southern Conn.	39	Glassboro	0
Springfield	32	Central Conn.	0
Upsala	14	Junata	13
Wagner	19	Trenton	12
West Chester	17	East Stroudsburg	13
Wilkes	20	Moravian	0
Williams	27	Rochester	6

Other Games — Midwest

Albion	18	SE Missouri	7
Austin Peay	34	SE Missouri	6
Ball State	20	Evansville	0
Bethany, Kan.	26	Kansas Wesleyan	0
Bluffton	28	Wilmington	6

Midwest (continued)

Butler	27	St. Joseph	7
Central Okla.	12	Augusta, Ill.	12
Central Okla.	17	Eastern New Mexico	7
Drake	20	Southern Illinois	17
Dubuque	38	William Penn	19
E. Central Okla.	21	Langston	10
Findlay	30	Central State, O.	7
Franklin	13	Manchester	7
Friends	20	Bethel, Kan.	6
Illinois Wesleyan	39	North Park	0
Indiana Central	20	Hanover	19
Indiana State	32	Illinois State	13
Milwaukee (U of W)	21	Eastern Illinois	6
Missouri Mines	13	Missouri Valley	12
Moorhead	20	Michigan Tech	14
Nebraska Wesleyan	24	Dana	0
NE Missouri	27	Pittsburg	12
NE Oklahoma	21	SE Oklahoma	15
Northern Illinois	16	Central Michigan	0
Northern Michigan	27	Hillsdale	14
Omaha	23	Morningside	14
Ottawa	45	Sterling	0
St. John's	32	Macalester	0
St. Thomas	21	Hamline	18
SW Missouri	31	Washburn	13
SW Oklahoma	30	SW Oklahoma	13
*Southwest, Kan.	20	McPherson	7
Stevens Point	14	LaCrosse	7
Stout	15	Oshkosh	12
Taylor	18	Anderson	7
Wabash	16	Earham	10
Wheaton	13	Millikin	6
Wittenberg	31	Susquehanna	0

Other Games — South

Abilene Christian	15	McMurry	6
Appalachian	12	Eion	8
*Arkansas A & M	21	Mississippi College	10
Arkansas Tech	15	Southern State	13
Arlington	20	East Texas	14
Austin	21	Henderson	7
Catawba	16	Emory & Henry	12
Centre	13	Southwestern, Tenn.	6
Concord	27	Glenville	6
Conway	19	Troy	13
Delta	20	U.T.M.B.	10
*Eastern Kentucky	30	Murray	7
Fairmont	21	West Va. Wesleyan	13
Florence	12	Livingston	7
Georgetown	14	Defiance	13
Hampden-Sydney	25	Washington & Lee	13
Harding	14	Quachita	6
Howard Payne	17	Angelo State	7
Jacksonville	14	Carson-Newman	7
Lenoir-Rhyne	21	Newberry	10
Louisiana Tech	17	McNeese	6
Middle Tennessee	27	Western Kentucky	8
Morehead	21	Tennessee Tech	13
NE Louisiana	14	NW Louisiana	7
Sam Houston	23	Tarleton	6
Samford	16	Louisiana College	6
SE Louisiana	17	SE Louisiana	13
Southwest Texas	25	Sul Ross	14
Tampa	17	Akron	14
Texas A & I	22	Trinity	12
West Va. Tech	15	Salem	12
Western Carolina	21	Guilford	19
Wofford	10	Presbyterian	0

Other Games — Far West

Cal Lutheran	20	Redlands	6
Cal Poly (Pomona)	20	Sacramento	19
Central Washington	15	West'n Washington	14
Colorado College	18	Colorado Mines	15
Colorado Western	20	Fort Lewis	7
Davis	10	Whittier	10
Hawaii	30	British Columbia	7
LaVerne	25	Riverside	8
Linfield	41	Pacific Lutheran	0
Long Beach	47	San Fernando	0
Montana State	20	Fresno State	9
*Occidental	21	LaVerne	12
Pomona	20	Claremont	6
Puget Sound	14	Whitworth	0
San Diego	45	Cal Poly (S.L.O.)	0
San Francisco State	25	Santa Clara	21
Santa Barbara	21	Nevada	8
Southern Colorado	26	Western N. Mexico	0
Weber	21	Los Angeles	7

(** Friday Games)