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The Missouri MINER
UNIVERSITY OF MISSOURI AT ROLLA
VOLUME 54 FRIDAY, SEPTEMBER 22, 1967, ROLLA, MISSOURI NUMBER 2

TO CONTAIN NEEDED CLASSROOMS

Mechanical Annex Takes Shape

On July 7, 1967 construction began on the addition to the Mechanical Engineering Building. The new addition, featuring modern facilities, is intended to be completed in time for UMR's centennial celebration. Completion date for the annex is tentively set for November 18, 1968.

The new annex seems to have something for everybody. Featuring nineteen classrooms, including instructional laboratories. Besides these varied classrooms, a general lecture hall, with seating capacity of 306 persons, will be another attraction. Along with the added classrooms, there will be thirteen offices for faculty and student assistants. Thirteen research laboratories will also be included in the new structure. The annex, which is on the north end of the Mechanical Engineering Building, will be another new structure on the Quadrangle.

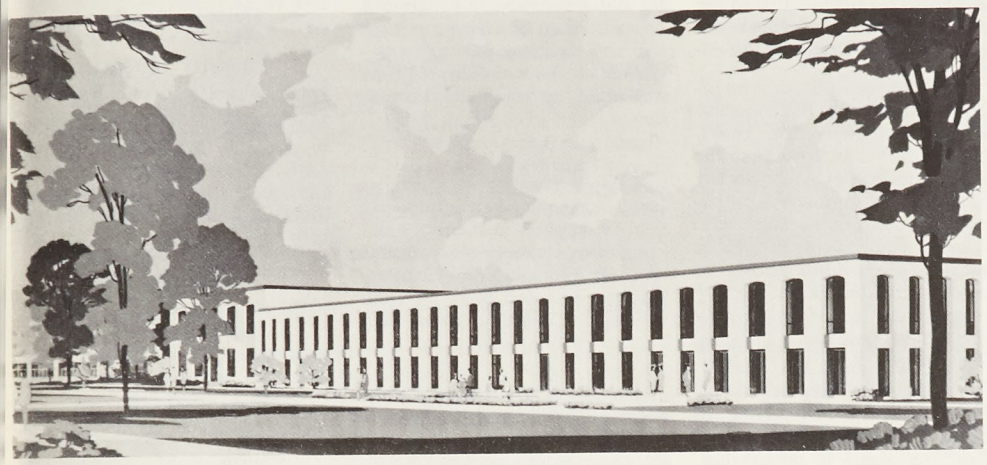
Every laboratory and classroom of the new addition will feature 100 per cent air conditioning along with the rooms of the original building.

The cost of research equipment for the new structure is estimated form $135,000 to $250,000.

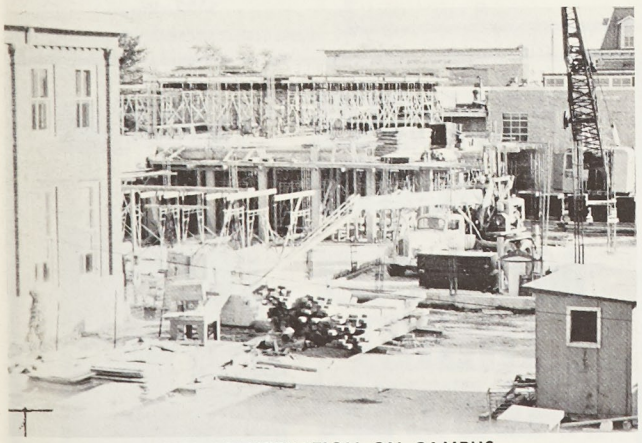
The new structure will mean an addition of 39,000 sq feet, more than twice the present area. There is expansion in other areas besides area. Seven new faculty were added to the Mechanical Engineering staff this fall. The major reason for the additional staff member is that the enrollment in that department is well over 1000 students.

Other expansion for the Mechanical Engineering Department includes a building to house the recently purchased sub-sonic wind tunnel.

Other attractions will include a hyper-sonic wind tunnel along with an explosion vault. This explosion vault is designed for shock study along with propulsion systems.



ME BUILDING ANNEX
The new mechanical building annex will house needed classroom and office space as well as $250,000 in research equipment.



NEW CONSTRUCTION ON CAMPUS
Construction progresses on the ME annex as the building approaches a speedy completion.

NOTICE!

Applications for a Student Union Committee can be picked up at the Student Union. These committees are: Social, Recreational, Literary-Music, Special Events and Publicity. Join a committee and help run your Student Union.

Student Union Mixer To Feature Walter Scott

Attention all bachelors attending UMR! Relief from the rugged grind of studying is but a short while away! The Student Union Board of UMR has scheduled an All-School Mixer for September 30, 1967.

The annual event will be held in two parts. The first part will consist of a casual dress "Get-Acquainted" dance from 1:30 p.m to 5:30 p.m. with the music provided by the Jaquars. The second half of the evening will be a semi-formal dance from 8:30 p.m. to 12:00 midnight with the entertainment provided by St. Louis' Walter and the Guise.

A record breaking turnout is expected for the first all-school affair of the year. Female companions for the affair have been invited from several surrounding schools by Mrs. B. D. Harvey, the program director. Girls from such fine institutions as Lindenwood, Cottey College, Monticello, Christian, Fontbonne, and Stevens will be anxiously awaiting the Saturday night activity.

The troop of girls will begin to arrive at the Student Union building approximately 12 noon, Saturday. After the ladies have had a short rest and have changed their clothes, the entertainment will get underway. As the night of September 30 approaches, an atmosphere of anxiety will surely be felt by each student on the UMR campus.

SU Presentation to Feature Preservation Hall Jazz Band

On October 5, at 7:30 the Student Union Ballroom will be the scene for a new venture in music for UMR students. This new beat is not the common Beatle-type, but original New Orleans' jazz. This type of music may be classified as Dixieland jazz but it is not; this is the original which gave birth to the so called "Dixieland" and all other forms of jazz.

The featured band is known as "The Preservation Hall Jazz Band" direct from the jazz center of the world, New Orleans. In the early days of the South, Negro musicians earned their trade by playing this solemn, unadorned jazz at funeral processions. It is this band which captures this unique sound and brings it back again.

Composing the band are DeDe Pierce, blind trumpeter, and his wife, Billie, who is the pianist and blues vocalist. For over thirty years the band has been touring the country presenting its lively rhythm to countless crowds of people. DeDe himself played with the great Louis Armstrong in the 1948 Mardi Gras, being chosen as the finest trumpeter. His wife Billie was the accompanist in the 20's with the inspiring Bessie Smith of Clarksdale and Memphis.

Age is no hinderance to the members of the band since all are over 60. For over the past 40 years the band has been well known in the New Orleans area. Now recognized as one of the finest jazz bands in the world they make regular appearances at New Orleans' Preservation Hall, one of the remaining jazz centers in existence.

Preservation Hall is located on St. Peter Street sidewalk in the heart of New Orleans' French Quarter. The Hall, built in the Spanish Regime, originally served as a tavern and inn. But today the Hall nightly caters to the lively and soul-moving beat of the few remaining jazz musicians in the United States.

To most people this will be the only opportunity to hear a type of music which hasn't changed since the time when it was played as a means of livelihood for the common people.

Blaring sounds of the horns, clarinets, sliphorns, piano, and drum will transform the serene atmosphere of the ballroom to that of Preservation Hall, home of the old blues which made New Orleans the jazz capital of the world.

Frassrand Named as Head Of UMR ROTC Department

Col. John A. Frassrand has been named chairman of the department of military science at UMR.

He succeeds Col. David L. Gundling who has been assigned to the U.S. Army Engineer School at Fort Belvoir, Va.

Before coming to UMR, Col. Frassrand was assistant division engineer with the Mediterranean Division Headquarters in Livorno, Italy. There, he acted as contracting officer for the Corps of Engineers work in 11 Mideast, Southern Europe and Northeast African countries.

He has served 27 years in the U.S. Army Corps of Engineers. Among positions which he has held are those of gulf district engineer in Tehran, commander of the 921st Engineer Group (combat) and assistant chief of staff at Fort Leonard Wood.

He served in Iceland, England and the U.S. during World War II and in Japan and Korea during the Korean conflict. He has received eight service ribbons and a commendation medal with four oak leaf clusters .

Col. Frassrand holds a bachelor of military science degree from the University of Omaha and was graduated from the Command and General Staff College at Fort Leavenworth, Kan.

He is a member of the Society of American Military Engineers, the Association of the United States Army, the Council of Professional Engineers and the Lambda Chi Alpha social fraternity.

Col. and Mrs. Frassrand reside at Country Club Terrace in Rolla. They have four daughters: Jan and Lieben, who live at home; Donna, a senior at the University of Tennessee, and Mrs. Linda Quinn of South Bend, Ind.

Extra-Curricular Activities Available for New Students

After the rush of registration week and the first two weeks of classes has subsided, the UMR freshman may find that he has some extra time on his hands. The UMR campus offers him an unlimited selection of extra-curricular activities which he is free to, and indeed encouraged to participate in.

For the musically inclined freshman, there is the UMR Glee Club, the UMR-ROTC Band, which has both concert and marching divisions, and the UMR Drifters, a dance band.

Regardless of his religion, the freshman will find a congenial group of fellow students who are also members of his church. These organizations include the Baptist Student Union, The Canterbury Club (Episcopal), Newman Club (Catholic), and the Wesley Foundation (Methodist), as well as clubs for the Lutheran, Unitarian Universalist, and Presbyterian student.

An active interest in journalism may find an outlet on the staff of the *Missouri Miner*, the campus weekly, or the *Rollamo*, the UMR Yearbook. The campus radio station, KMSM-FM, may also have a place on its staff for a promising freshman broadcaster.

The most important organization for a freshman to join is his departmental engineering and scientific organization. For the civil engineer, there is the American Society of Civil Engineers, while the physics student will find the American Institute of Physics an advantageous organization to enter.

Other professional societies include the Institute of Electrical and Electronic Engineers, the American Institute of Aeronautics and Astronautics, the Missouri Society of Professional Engineers, and the Society of Automotive Engineers. Whatever your major, there is at least one professional Society on-campus associated with it.

These are only a handful of the activities open to all students at UMR. Freshmen are especially encouraged to become active in these organizations. Not, of course, to the detriment of school work, but rather to the development of a more well-rounded and mature college student.

More Inquiries Invited On Graduate Fellowships

Inquiries about the Danforth Graduate Fellowships, to be awarded in March, 1968, are invited, according to Dr. L. W. Martin, Director of Institutional Research, 106 Rolla Bldg., the local campus representative.

The Fellowships, offered by the Danforth Foundation of St. Louis, Missouri, are open to men and women who are seniors or recent graduates of accredited colleges in the United States, who have serious interest in college teaching as a career, and who plan to study for a Ph.D. in a field common to the undergraduate college. Applicants may be single or married, must be less than thirty years of age at the time of application, and may not have undertaken any graduate or professional study beyond the baccalaureate.

Approximately 120 Fellowships will be awarded in March, 1968. Candidates must be nominated by Liaison Officers of their undergraduate institutions by November 1, 1967. The Foundation does not accept direct applications for the Fellowships.

Danforth Graduate Fellows are eligible for four years of financial assistance, with a maximum annual living stipend of $2400 for single Fellows and $2950 for married Fellows, plus tuition and fees. Dependency allowances are available. Financial need is not a condition for consideration.

Danforth Fellows may hold other fellowships such as Ford, Fulbright, National Science, Rhodes, Woodrow Wilson, etc. concurrently, and will be Danforth Fellows without stipend until the other awards lapse.

The Danforth Foundation was founded in 1927 by the late William H. Danforth, St. Louis businessman and philanthropist.

ROTC Department Gains Assistance Of New Officers

Three new officers have recently joined the staff of the Military Department at UMR. They are Major Charles T. Stevens, Captain Donald E. Morey and Captain James M. Harrison.

Major Stevens, an Infantry Officer, hails from Nevada, Missouri. He holds a Bachelor of Science Degree in Agriculture from Southwest Missouri State College where he was commissioned a Second Lieutenant through the ROTC Program in 1955.

He came to UMR from Vietnam service he has served in Germany and several stateside assignments. He has completed the U.S. Army Infantry Officers Career Course, the Airborne School, and the Ranger School at Fort Benning, Georgia.

Major Stevens wears the Combat Infantryman Badge, the Bronze Star Medal, the Air Medal, the Bronze Star Medal, the Air Medal, the Army Commendation Medal with an Oak Leaf Cluster and the Purple Heart.

Captain Morey, an Armored Officer, was assigned to UMR following his graduation from the Armored Officers Career Course at Fort Knox, Kentucky. He was commissioned through the ROTC Program at Panhandle A & M College at Goodwell, Oklahoma, where he received a Bachelor of Science Degree in Social Studies in 1963. He has served in Korea in addition to other stateside assignments.

Captain Harrison, a Signal Corps Officer, came to UMR from the U.S. Marine Corps School, Quantico, Virginia where he attended the Communication Officers Course. A native of Joplin, he was commissioned through the ROTC Program at Kansas State College at Pittsburg, where he received a Bachelor of Arts degree in Political Science in 1963.

He is a veteran of Vietnam and wears the Bronze Star Medal, the Air Medal and the Army Commendation Medal for his service.

Math Department Announces Program For Ph. D. Degree

The Board of Curators has approved a new program leading to the Doctor of Philosophy degree in Mathematics at UMR, Chancellor Merl Baker announced today.

Dr. Baker said that under the new program, starting with the opening of the 1967 fall semester the first Ph.D. in Mathematics will be awarded in the spring of 1970. He added that the new program is being initiated by utilizing present staff and facilities, although completion of the new library is an important aid to its implementation.

"The University at Rolla has had considerable strength in the field of applied mathematics and computer science for some time as these specialities are vitally related to advanced work in engineering," Chancellor Baker said.

He added that "these specialities have been recognized by the National Science Foundation in that the computer program at Rolla has received a sizable NSF grant."

NOTICE!

Applications for a Student Union Committee can be picked up at the Student Union. These committees are: Social, Recreational, Literary-Music, Special Events and Publicity. Join a committee and help run your Student Union.

UPTOWN THEATRE
MOVIES IN CINEMASCOPE

Thurs., Thru Tues. Sept. 21-26
Sunday Continuous from 1 p. m.
'Luv'
Jack Lemmon & Elaine May

Starts Wednesday
Sept. 27 — Oct. 3
'Casino Royale'
Peter Sellers & Ursula Andress

RITZ THEATRE
MOVIE IN WIDE SCREEN

Thurs., Fri., Sat. Sept. 21-23
Saturday Continuous from 1 p.m.
Admission: Adults 75c
'The Trip'
Peter Fonda & Susan Strasberg

Sun., Mon. Sept. 24-25
Sunday Continuous from 1 p. m.
'The Liquidator'
Rod Taylor & Jill St. John

Tues., Wed. Sept. 26-27
'The Third Day'
George Peppard & Elizabeth Ashley

ROLLA DRIVE-IN
SHOWS START AT DUSK

Fri., Sat. Sept. 22-23
'That Funny Feeling'
Sandra Dee & Bobby Darin
— PLUS —
'The Corrupt Ones'
Robert Stack & Elke Sommer

Sun., Mon. Sept. 24-25
'Battle of the Bulge'
Henry Fonda & Robert Shaw

CLOSED
TUES., WED., THURS.,
SEPT. 26-28

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Dean Paul D. Proctor Returns From United Nations Mission

A new unofficial goodwill ambassador from Turkey to Missouri is Dr. Paul D. Proctor, who recently resumed his duties as dean of the School of Science at the University of Missouri at Rolla. For the past year Proctor has held a United Nations (UNESCO) assignment at the Middle East Technological University at Ankara.

Dean Proctor is enthusiastic about his assignment there, about Turkey's potential as a country and above all, about the Turkish people.

"They are ambitious, industrious, proud of their country and willing to work for its future" he says.

Dr. Proctor was equally impressed with the University and his students there. Although the school is a national university of Turkey, it has the makings of an international project, with financial aid from the UN, Ford Foundation, the Agency for International Development (AID) and Central Treaty Organization (CENTO). About 80 per cent of the students are from Turkey, with the remainder mostly from other Mideastern countries. Chosen from among the top five per cent of high school graduates, these students are the academic elite, intelligent and eager to learn, the dean said. Enrollment is limited to 5,000. All courses are taught in English.

Although Dr. Proctor's original assignment was to help inaugurate programs in geology and mineral resources research, it quickly expanded. In addition to setting up laboratories and formulating course work in the geological area, he taught four senior and graduate courses in that field. He also prepared a detailed report for a graduate school to be initiated this year, and served as a member of the dean's council reviewing and reporting on progress of the University after 10 years of operation.

Dr. Proctor regards Turkey as having one of the greatest potentials for tourism of any country in Europe or the Mideast. He speaks as one who knows. During their year there, the Proctors drove over 12,000 miles, covering all of Turkey except the remote area of the northeast.

At the end of their tour of duty, they traveled an additional 12,000 miles in Europe, visiting some of the major mining and classic geological areas. They also toured the Mideast, including the Holy Land.

"Most of the historical spots in Turkey have hardly been touched," Dean Proctor explained. The ancient city of Troy has recently been unearthed. Excavations are continuing at Ephesus and other major cities of Turkey's ancient civilization which date back to earliest recorded history.

The UMR dean was accompanied by his wife and three of their four children. The children attended American schools in Ankara and Lane, the oldest of the three, graduated from high school there. Another son, Paul, who has been in Norway as a missionary for the past two years, joined them in the latter part of their European tour.

Miner of the Week

KMSM Schedule Announced

KMSM-FM signed on the air for the fall semester at 6 p. m. Thursday. This is the student-owned and operated, non-commercial FM radio station at UMR.

Broadcast hours will be from 6:00 p. m. to 12 p. m. daily, except on University holidays. The station operates on 88.5 megacycles.

The staff includes: Robert E. Schwab of 6946 Hiview Ave., St. Louis, station manager; David Wayne of Rolla, chief engineer; David Cantwell of Memphis, Tenn., chief announcer; Ron Chapman of Johnson City, Ill., program director; Gerry Chappue of Festus, news director, and William Wood of Boonville, Intercollegiate Broadcasting System representative.

KMSM PROGRAM SCHEDULE

Monday
6:00 News
6:10 Swing Easy
7:00 Sassafras
8:00 Miner Melodies
9:00 A Man and a Woman
10:00 News
10:10 'Round Midnight
12:00 Sign Off

Tuesday
6:00 News
6:10 Swing Easy
7:00 Take Five
8:00 Miner Melodies
9:00 Heritage Hour
10:00 News
10:10 'Round Midnight
12:00 Sign Off

Wednesday
6:00 News
6:10 Swing Easy
7:00 Sassafras
8:00 Miner Melodies
9:00 The Miners Ask
10:00 News
10:10 'Round Midnight
12:00 Sign Off

Thursday
3:00 Sign On
3:00 P. M. Show
4:30 Profile
4:35 P. M. Show
5:00 Swing Easy
6:00 News
6:10 Swing Easy
7:00 Take Five
8:00 Miner Melodies
9:00 Heritage Hour
10:00 News
10:10 'Round Midnight
12:00 Sign Off

Friday
6:00 News
6:10 Swing Easy
7:00 The Music Factory
8:00 Miner Melodies
9:00 On a Weekend
12:00 Sign Off

Saturday
1:00 Sign On
1:00 p. m. to 1:00 a. m. On a Weekend
1:00 a. m. Sign Off

Sunday
1:00 Sign On
1:00 Sunday Show
4:30 Voices of Vista
4:54 NASA Space Note
4:55 Musical Interlude
5:00 Swing Easy
6:00 News
6:10 Swing Easy
7:00 Fort Wood Show
8:00 Miner Melodies
9:00 Understanding Classics
10:00 News
10:10 Wally Edwards Show
11:00 'Round Midnight
1:00 a. m. Sign Off

Students Gain Insight From Departmental Mixers

In order to acquaint UMR freshmen with their departments and to help general engineering students gain a perspective of the various departments, a series of departmental mixers are currently being held in the Student Union.

Held in the evening, the mixers give students a chance to become familiar with the faculty and operation of their departments. In addition, the professional societies of the department are introduced and the freshmen are invited to join.

Refreshments are provided, following the departmental presentation, and the students are then given a chance to meet their professors.

The remaining departmental mixers are as follows:

Geology, Mining and Physics, Tuesday, September 26, 7:00 p.m.

Chemical Engineering, Wednesday, September 27, 7:00 p.m.

Humanities and Social Science, Tuesday, October 4, 7:30 p.m.

All students are encouraged to attend these mixers and perhaps gain an insight into the workings of the various departments.

DIAMOND RINGS
1/2 PRICE
RICHARD SPORS
364-4749

WANTED
CIVIL ENGINEERS
LaSalle County Highway Department
Ottawa, Illinois will have a
Representative on Campus
September 25, 1967
FOR INFORMATION
ARRANGE APPOINTMENT AT:
UNIVERSITY PLACEMENT OFFICE

NOTICE!
Blue Key National Honor Fraternity is accepting applications for membership. You may obtain an application form from the president of your organization or at the candy counter of the Student Union. Return completed form no later than 4:30 p. m. on Sept. 29 to the Blue Key mail box in the Student Union. For further information call Gene Albrecht at 364-4841.

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Miner Editorials, Letters, and Features

Student Forum

BY BOB MILDENSTEIN

Can you imagine the feeling? You have just arrived back at school and you bee-bop-it up to the student union cafeteria to meet your friends and grab a bite to eat.

What's this? CLOSED!! No! It can't be possible. @¶*?? You go into an epileptic daze and trod back home with your tongue dragging on the rough cement. On the way you look for another place to eat, but alas, unless you want to eat a greasy pizza you are doomed to hunger pains until seven o'clock the next morning.

The cafeteria has been just the right spot to relax, and also is the social center of the campus. The good lighting and proximity of food and drink make it an excellent place to study.

I believe I speak for every Miner when I say I think it very unfair and inconvenient to close the cafeteria during the hours it is most needed. If anything, the hours should be lengthened as opposed to last year.

SOMETHING MUST BE DONE!

One of many not willing to wait til December.

John Riege
605 State St.

☆ ☆ ☆ ☆

The problem facing John Riege has plagued many Miners recently. The question has been raised, "Why has this drastic cutback been necessary?"

The facts are evident. The UMR Student Union is designed as a non-profit (and a non-loss) operation. Last year, due to a University increase in non-academic workers salaries, expanding cost, and other pressing expenses, the UMR Union showed a drastic 6.9% loss. The outlook for the year was equally bad.

The question arose: "Which is the best method of cutting expenses?"

The idea of a general price increase was thrown out because prices were raised just last year.

The alternative – cut the food service. The evening hours were chosen due to the high number of employees needed to handle the food service in those hours.

Well, John, you called for action and action HAS been taken.

The action of the Student Union has been reviewed by two legislative bodies – first by the Student Union Board and then by the Student Council. A great deal of discussion has taken place and some concrete suggestions have been made.

It was the original intention of the Student Union to offer this space, the snack area, to organizations for meetings. It was the feeling of both of the S. U. Board and the Student Council, however, that this space might be used more effectively as an area for relaxation, studying and meeting friends. For this reason, the area is currently being left open.

The Student Council also felt that it would best suit the students if the snack counter were left open offering self-service drinks. Also suggested was the possibility of a vending service.

All these suggestions are being considered, but, unfortunately, action may be postponed until December, when a full report for the first three months of this year has been reviewed.

At that time, action *will* be taken and many of the suggestions made will be put into practice. Until then, there's a Coke machine in the Mining building, a coffee machine in the Chemical Engineering building, and Allen's still serves Hamm's.

Recently, a committee has been set up to study the possibility of setting up the final exam schedule at the *beginning* of the semester, rather than at the end. This would permit students to make summer plans well before the end of classes. Is this what the students want?

500 Companies to Visit UMR Seeking Permanent Employees

Juniors and seniors desiring employment for the summer of 1968 are urged to sign an interview list in the office of Dean Hershkowitz at the Missouri University Extension Center.

Beginning September 25 through mid-April interviews will be held from 9-5 daily by over 500 different companies. Both summer and full time job interviews will be taken. Interested students may obtain a list of all companies interviewing within the next two weeks. A new list will be published bi-weekly afterward. Also students may obtain a list of all the companies which will interview here within the next 8 months.

It was pointed out by Dean Hershkowitz that, after careful evaluation of the student, many companies send the student on an all expense paid trip to different parts of the country for observation of the plant at work.

In conclusion all seniors may acquire their 1968 College Placement Manual from their department chairman within the next few days.

Companies Interviewing on Campus

General Mills, Inc., Keokuk, Iowa
October 2, 1967
Norton Company, Worcester, Massachusetts
October 2 & 3, 1967
San Francisco Bay Naval Shipyard, Valleyjo, Cal.
October 2, 1967
Frisco Railway Company, Springfield, Mo.
October 2, 1967
U. S. Naval Weapons Center, China Lake, Cal.
October 2, 1967
American Oil Company, Whiting, Indiana
October 2, 1967
Union Carbide Corp. Foods Products Div., Chicago, Ill.
October 2, 1967
International Business Machines Corporation, Chicago, Ill., and Jefferson City, Mo.
Oct. 3 & 4, 1967
Wyandotte Chemical Corporation, Wyandotte, Mich.
October 3, 1967
Leo A. Daly Company, Omaha, Nebraska
October 3, 1967
General Motors Corporation, Detroit, Michigan
October 3, 4, 5, 6, 1967
Worthington Corporation, Buffalo, New York
October 3, 1967
McDonnell Douglas Corporation, St. Louis, Mo.
October 3 & 4, 1967
Standard Brands Inc., New York, N. Y.
October 4, 1967
National Lead Company of Ohio, Cincinnati, Ohio
October 4, 1967
Texas Gas Transmission Corporation, Kentucky
October 4, 1967
Marathon Oil Robinson Refining Division, Robinson, Ill.
October 4, 1967
Moloney Electric Company, St. Louis, Missouri
October 5, 1967
Gulf Oil Corporation, Houston, Texas
October 5 & 6, 1967
U. S. Industrial Chemical Company, Tuscola, Ill.
October 5, 1967
Beloit Corporation, Beloit, Wisconsin
October 5, 1967
Hawthorn Division Kellwood Company, New Haven, Mo.
October 5, 1967
Grain Processing Corporation, Muscatine, Iowa
October 5, 1967
Unidynamics St. Louis, Missouri
October 5, 1967
Texas Instruments, Inc., Dallas, Texas
October 5 & 6, 1967
Foster Grant Company, Leominister, Mass.
October 6, 1967
Veterans Administration, Washington, D. C.
October 6, 1967
Fairchild-Semiconducto, Long Island, New York
October 6, 1967

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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UMR Defense Architects Design Fallout Shelters

People protected by adequately constructed and stocked fallout shelters would have a good chance of surviving the radiation effects of a nuclear blast.

How to include such shelters is a job of the UMR Professional Development Center and 49 others like it in the U.S. This center sends a team of teachers to Missouri towns to advise architects and engineers on shelter construction in public buildings.

The team, sponsored by the Office of Civil Defense of the U.S. Department of the Army, studies architectural building plans and recommends a rearrangement of the design to include a shelter at minimum cost. In most cases, a specifically planned basement as to size, location and wall thickness, will provide an adequate shelter.

In addition to advisement, the team conducts special classes in Missouri towns on fallout shelter analysis – their effectiveness and how to build them.

A 13-week class on the analysis of fallout shelters will be conducted, starting Oct. 18, at Hannibal for all engineers and architects in the area.

The UMR center was started last year and has entered wide-scale service this year. The team has aided in the construction plans of fallout shelters in 23 new buildings.

According to Professor Robert F. Davidson, director of the UMR program, the U.S. needs about 200 million more fallout shelters in order to provide protection for every citizen.

Academic Staff Attends Teaching Conference

New members of the academic staff at UMR are discussing teaching techniques with their more experienced colleagues this week.

Over 100 new faculty members and graduate teaching assistants are participating in a two-day effective teaching seminar. Sessions began Tuesday (Sept. 5) with orientation talks by University administrative officials. Most discussions are on effective teaching methods, led by outstanding professors in their fields.

In charge of plans for this years seminar were faculty members Prof. J. Kent Roberts, chairman, Prof. John W. Brewer. Dr. William S. Gatley, Dr. Richard C. Harden, Dr. C. A. Johnson, Dr. Lynn W. Martin, Dr. Arthur E. Morris, Lt. Col. John W. Park, and students, Steve Nichols and Bill Wolf.

Student Union

"THE GRAPES OF WRATH"

This movie is adapted from John Steinbeck's Pulitizer Prize winning novel and is directed by John Ford. It tells of the Joad family who have lost their ancestral tenant farm in the dust bowl. This film depicts poverty, injustice, despair, disillusionment, and hardship in a manner that makes this film a classic of our time. The movie will be shown at 2:00, 4:30, and 7:00 p. m. at the Student Union.

NOTICE!

The Student Union Board is accepting applications for Director of Recreation. Applications can be picked up, Mon. thru Fri., 1 - 5 p. m., at Room 212 in the Student Union. Deadline is Sept. 27.

NOTICE!

PARKING IS PROHIBITED ON THE ROTC DRILL FIELD UNTIL NOVEMBER 21!

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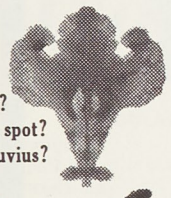

[1] A Japanese judo expert?
Just an ink spot?
Mount Vesuvius?

[2] An ax?
A Gene Autry saddle?
TOT Staplers?
(TOT Staplers!? What in...)

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ANSWERS: 1. If you see a Japanese judo expert: you take things in your own hands. The ink spot: you're practical. Mount Vesuvius: boy, what an imagination! 2. An ax: what a nasty temper you have! A Gene Autry saddle: you're the-atrical. TOT Staplers: you should become a TOT Stapler salesman.

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Columbia Graduate Named Education Coordinator

Newly appointed extension education coordinator at UMR is Stephen A. Douglass, formerly the director of the West Plains area vocational technical school.

In his new position with the Extension Division, Douglass will be responsible for coordinating all off-campus programs, both credit and non-credit, including the Title I Programs of the Higher Education Act of 1965.

Douglass, who has served as vocational agriculture instructor at West Plains, Green Ridge and Eminence High Schools, holds an M.S. degree in education and a B.S. degree in agriculture education from the University of Missouri, Columbia.

He is a member of the National Education Association, the Missouri State Teachers Association, the National Vocational Agriculture Teachers Association, and the National Council of Local Administrators of Vocational Education and Practical Arts.

Honors which he has received include Who-What-Why in Missouri and Honorary State Farmer Degree and Honorary American Farmer Degree at the National level.

His civic activities have included past president, West Plains Rotary Club, the Masonic Lodge and the Chamber of Commerce. He is a member of the First Methodist Church.

NOTICE!

PHILOSOPHY THINK-IN

Philosophy discussion will be held at the home of Dr. Robert Oakes, 812 W. 11th St., on Monday, September 25th. Plans for a Philosophy Club will also be discussed at this meeting.

Graduate Center Now Conducting Polymer Research

The UMR Graduate Center for Materials Research will join five other institutions in research on high temperature polymers.

The study, conducted jointly with the Air Force Materials Laboratory, Dayton, Ohio; Mellon Institute; Notre Dame University; North Carolina State University and the Celanese Corp., will involve syntheses and development of polymeric materials for high temperature applications.

The UMR study will be under the direction of Dr. William J. James, director of the Graduate Center for Materials Research and professor of chemistry, and Dr. Kenneth G. Mayhan, associate professor of chemical engineering and research associate at the Center. Preliminary research in this area is being conducted at UMR by Dr. Mayhan, assisted by Jimmie Christen, graduate student.

Dr. M.R. Cain Appointed Social Sciences' Head

Newly appointed chairman of the department of social sciences at UMR is Dr. Marvin Russell Cain, former director of the Land Grant Research Center at Michigan State University in East Lansing. Dr. Cain will also serve as professor of history.

Dr. James Pogue, chairman of the UMR department of humanities, has acted as chairman of social sciences since the death of Dr. James G. Harris last January.

Dr. Cain has been associate professor of history and director of the manuscripts collection at Michigan State, assistant professor of history at the University of Missouri at St. Louis and acting assistant director of the western historical manuscripts collection at the University of Missouri, Columbia.

He holds Ph.D. and A.M. degrees from MU and a B.S. degree from Southwest Missouri State College in Springfield. He is a member of the American Historical Association, the Organization of American Historians, the Southern Historical Association and the Kappa Alpha social fraternity.

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MINERS CRUSH HARDING BISONS 25-14

Under the disadvantage of a steady rain, the UMR Miners opened their season with a 25-14 victory over Harding College last Saturday afternoon at Rolla. It was Rolla all the way without a word of doubt from any of the 2800 rain drenched fans. Coach Dewey Allgoods only comment was how sweet it is."

Both Bob Nicodemus, a 190-pound fullback from Nevada, and David Pfefferkorn, a 1700-pound end from Chaffee, scored two touchdowns to revenge Harding's last year win over the Miners 31-13.

Even though the Miners kicked off, they had control of the ball after four plays and kept that control most of the game. After a 15 yard pass interferences call against Harding, Bob Nicodemus broke loose on a draw play that took him 42 yards into the end zone.

This completed a Miner 71 yard drive in their first eight plays. Dave Harris, a 190-pound freshman from Independence, proceeded to kick the extra point which ended the scoring in the first quarter.

Nicodemus's other T. D. came on a 9 yard run with 9:00 left in the third quarter. This set up came after a 7 yard run by Dave Harris and a 15 yard pass from quarterback Ron Miller to David Pfefferkorn. An attempt to score two extra points on a pass play was incomplete.

Pfefferkorn's first T. D. came in the second quarter as he dragged in a 15 yard pass from Ron Miller. This T. D. drive was the longest of the day as it totaled over 80 yards. The drive consisted of three completed passes, a 15 yard roughing the passer penalty, and several small running plays.

His second T. D. came at the kickoff of the second half as he ran a 100 yard T. D. return with tremendous blocking assistance on the part of his teammates. However, a running attempt for the extra point was halted.

Up to this point the Harding team had taken a terrible beating. But with a little over 9 minutes left in the game the Bison's quarterback, Don Dixon, completed a 38 yard pass to Jim Street to put them on the Miner 10 yard line.

This was the closest that Harding had come to scoring in the entire game. On the third power play Jim Howard ran the remaining 3 yards for a T. D. After 2 offsides penalties against the Miners, Don Dixon ran from two bonus points making the score 25-8.

A Miner fumble was recovered by the Harding squad on the Miner 23 yard line to set up the Bison's second T. D. After Jim Howard ran to the Miner 13, Charley Jones ran the remaining distance in two plays to give the Bison's their final six points. The pass attempt for the bonus points was incomplete.

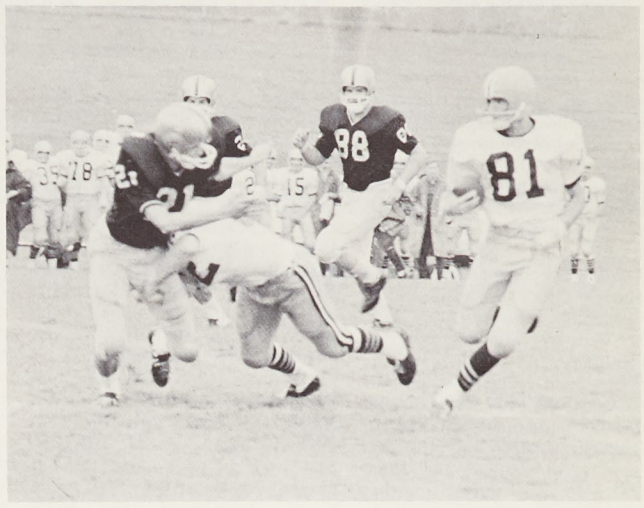
One look at the statistics should have put the Bison's on top as they out-rushed and out-passes the Miners by 84 yards. But the difference was made up in the penalties department where nine penalties were called against the Bisons for a total of 126 yards.

STATISTICS

Score by Quarters

UMR	7	6	12	0	— 25
Harding	0	0	0	14	— 14

UMR		*Harding*
18	First Downs	19
153	Yards Rushed	182
17	Passes Attempted	19
8	Passes Completed	11
71	Yards Passed	126
3	Passes Intercepted	1
52	Penalties	126



Miner End Dave Pfefferkorn receives good blocking after catching a pass.

MINER SPORTS

Allgood's Gridiron Squad Seeks Second Win Tomorrow Afternoon

Tomorrow UMR's varsity football squad is scheduled to meet Kansas State at 1:30 p.m. on the Miners home field. The Miners having won their opener 25-14 face the Gorillas who also triumphed in their first match with Central Oklahoma 14-13.

Among Coach Allgood's starting offense will be freshman halfback Dave Harris who did an outstanding job against Harding. Harris ranked second in rushing with 43 yards and caught three passes for a total of 16 yards. He also pulled the Miners out of a rough spot deep in their own territory by quick-kicking the ball 54 yards.

Another freshman, with a good report from the season opener, is a 180-pound safety Bob Heinle who led the Miner defensive attack with 12 tackles and one interception. Heinle is from Florissant.

Other defensive men who looked good and will start on defense against Kansas State include Eddie Lane and Larry Carpenter who both intercepted Harding passes.

Ron Miller, a 165-pound quarterback from Kansas City, Mo., will be calling the signals for UMR. Miller accounted for 71 yards passing in the UMR-Harding game on 8 hits out of 17 tries.

Bob Nicodemus is the standout in rushing for the Miner squad so far this year with a total of 74 yards accounting for 2 T.D.'s which ties the UMR record. Nicodemus, a 190-pound junior fullback from Nevada will be starting Saturday.

Other starting men against Kansas State include end David Pfefferkorn, guards Larry Dooms and Don Steenrod, and halfback Rick Erxleben.

Returning lettermen for Kansas State number 22 under the leadership of head Coach Tom Lester.

According to available scouting information, the Gorillas passing battery will consist of end Randy Whipple, a 193-pounder from Bellevue, and quarterback Tom Gorman, a 200-pounder from Fort Scott. This combination along with halfback Fred Held, a 191-pound senior from Bellevue, should keep UMR's defensive unit on their toes.

Intramural Football Rules

The following rules will govern the intramural flag football games this season.

REGULATIONS

1. Squad number unlimited.
2. Seven (7) men shall constitute a team. If teams do not meet this requirement, a forfeit shall be called after a ten-minute delay.
3. Each team must furnish one timer and scorer.
4. Officials are in charge of all contests and have full power to enforce all regulations.
5. Games will start at 6:00 and 7:30 p. m.
6. Monday and Friday will be for make-up games. Play will start September 19.

PLAYING RULES

1. The official Intercollegiate Football Rules shall apply except as hereinafter listed.
2. The offensive team must place 3 men on the line of scrimmage. (Penalty five yards.)
3. All players are eligible for forward passes.
4. Rubber cleated canvas shoes may be worn, basketball or gym shoes regulation. (Penalty: Officials must banish player or players from field and they may not re-enter game.)
5. There is no restriction as to the number of times a player may re-enter the game. However, the ball must be declared dead by the officials. (Penalty: 5 yards.)
6. The field will be marked off in 10 yard zones. The offensive team must advance the ball from one zone to the other in three downs or lose possession of the ball.
7. *Scoring:* Touchdown — 6 points; Safety — 2 points; Point after touchdown — 1 point; and must be a free kick from the 10 yard line (place of drop) kick. No provision is made to score field goals. No kicking tees.
8. After a safety the ball will be put in play by a free kick (punt or place) from 10 yard line.
9. The ball will be put in play on the 10 yard line after a touchback.
10. Kick-off out of bounds will be put into play on the 20 yard line or option of where it goes out of bounds. (Receiving team has option.)
11. The game will be played in 20 minute halves, with a 5 minute rest period between each half.
12. Each team is allowed 3 one-minute time-outs in each half.
13. *Blocking:* The shoulder block *only* is permitted, and blockers must have at least one foot on the ground at the moment of *contact*. Flying, rolling, and cross-body blocks are strictly prohibited. (Penalty — illegal block — loss of 10 yards, from line of scrimmage regardless of where foul is committed.)
14. *Tackling:* A player is tackled and his forward progress "stops" at the spot on the field where he loses one or all flags where the ball is in his possession or when any part of his body except his feet or hands come in contact with the ground.
15. The ball carrier may not use a stiff arm. *He may not run with his head down.* The defense must play the flag and cannot hold, grab, etc., the ball carrier to get the flag. (Penalty — 10 yards.) If a man loses a flag while running with ball, play ends at spot where flag dropped.
16. All players must wear a flag belt which has three flags. Belts must be worn so that one flag is over each hip and one behind. (Any player not complying with the above rule will be banished from the game for its duration.) Captains or manager must check out the belts and flags from "Red". After each game they will be responsible for seeing that they are returned *immediately*.
17. *Fumbled Balls:* Which strike the ground become dead at spot and may not be advanced by players of either team. (Ball goes to team who last had possession.) Played from spot where fumble occured, possessed call.
18. *Tie Game:* Each team will be given 3 downs to advance the ball from their own 40 yard line. If no score, the team gaining the most yardage wins. Loss of ball due to an interception results in loss of other downs and teams advancement is measured from where ball was put in play. No time outs during overtime. The above procedure will be followed until a winner is declared.
19. The officials are charged to enforce strictly all playing rules, particularly those concerned with the safety of the players. Penalties of 10 yards shall be assessed against the following violations:
    (1) Unnecessary roughness
    (2) Offensive holding
    (3) Defensive holding
    (4) Illegal block
    (5) Unsportsmanlike conduct. (This includes illegal flag pulling. *Example:* Taking flag from player who obviously does not have the ball.)

    1-4-5 (above) called twice vs. the same player shall disqualify him for the duration of that game.
20. No protests will be accepted. All games must be settled on the field. N. C. A. A. rules allow no protests.
21. Ball is dead on kick offs and punts when it hits the ground.
22. When a 10 yard penalty is called it should be assessed from the line of scrimmage or spot of the foul which ever is the greater advantage to the team that has been fouled.
23. If a punt is blocked and falls in the end zone it is a safety.

Allgood, Key Take Athletic Positions as Bullman Retires

Succeeding Professor Gale Bullman who retired in September as director of physical education and intercollegiate athletics will be coaches Billy Key and Dewey Allgood. Bullman, who has reached the administrative mandatory retirement age, will remain on the staff as professor of physical education.

Key is director of athletics and Allgood is chairman of the physical education department. Coach Burr Van Nostrand is directing intramurals.

Professor Bullman joined the UMR staff in 1937 as chairman of the department of physical education and intercollegiate athletics and head football and track coach. He has served in that capacity since then. Prior to coming to UMR, he served as head boxing and baseball coach and assistant football coach at Washington University, St. Louis. Holder of an LL. B. degree from Washington University, he is a member of the National Football Coaches Association, the Missouri Barr Association, Phi Delta Phi legal fraternity, and Kappa Sigma social fraternity. He is a member of the Lions Club and the Chamber of Commerce.

Coach Key has served UMR the last two years as assistant director of student personnel. He joined the UMR staff in 1964 as associate professor of physical education and basketball coach. Prior to that, he was assistant dean of student activities for the St. Louis Junior College District 1963-64; basketball and baseball coach and assistant dean at Harris Teachers College from 1956 to 1964; basketball and baseball coach at Monroe City High School from 1952 to 1956; and basketball and baseball coach for Wellsville High School from 1949 to 1952. He holds an M. S. degree in physical education from Washington University, St. Louis, and a B. S. degree in physical education from Central Missouri State College. He is a member of the National Basketball Coach Association, the Rolla Lions Club, the Masonic Lodge and Kappa Alpha social fraternity.

Coach Allgood, UMR football coach and associate professor of physical education, joined the UMR staff in 1950 as instructor of physical education, head basketball coach, assistant football coach, and director of intramurals. He has also served as assistant professor of physical education. Prior to joining the UMR faculty, he served as assistant football coach at Northwest Missouri State College from 1949 to 1950. Holder of an A. M. degree in physical education from Colorado State University and a B. S. degree in physical education from North Dakota State University, he is a member of the National Football Coaches Association and Kappa Alpha social fraternity.

Van Nostrand, associate professor of physical education and swimming coach, joined the UMR staff in 1952 as instructor of physical education. He has served as assistant football coach and assistant track coach. Before coming to UMR he was coach at the Rolla High School from 1947 to 1952 and coach for the Cabool Schools from 1946 to 1947. He holds a master of education degree from the University of Missouri and a B. S. in education from Southwest Missouri State College. He is a member of the American Association for Health, Physical Education and Recreation, the College Swim Coaches Association, the National Intramural Association, Phi Delta Kappa education honorary society; the Rolla Rotary Club, and is active in national Red Cross Water Safety.

University of Missouri at Rolla Coach Gale Bullman (seated) retired in September as UMR director of physical education and intercollegiate athletics. Succeeding him will be Coach Billy Key (standing left) as director of athletics and Coach Dewey Allgood, chairman of the physical education department.

'Mural Program Discussed At Manager's Meeting

Intramural Coach Burr Van Nostrand called an intramural managers meeting September 13, in which he discussed the upcoming fall program.

Flag Football, which began last Tuesday, was thoroughly reviewed in all aspects by Burr. One point sited was the undue roughness seen in several of the games last season. "In the past there have been several injuries in flag football," reported Coach Burr Van Nostrand, "and if we can't hold them down to a minimum the UMR administration has threatened to eliminate the sport from the intramural activities."

As in the past alcoholic beverages are strictly prohibited on the intramural field and it has been suggested, for the safety of the team players, that mascots be kept away from the playing field.

It was reminded that two unsportmanlike conduct calls against the same player will eliminate him from that particular game. Pulling off a players flag who obviously does not have the ball will be considered unsportsmanlike conduct and the penalty assessed will be ten yards from the line of scrimmage.

During the flag football and softball seasons rubber cleated shoes and tennis shoes will be the only type accepted for players. The only exception is the bonus point kicker who may wear a hard toed shoe for kicking the "free" bonus point only.

Burr also had a word of praise for the intramural managers of last season who did a tremendous job in keeping order in the Rolla High school last year. It is to be reminded that smoking in the gym is prohibited.

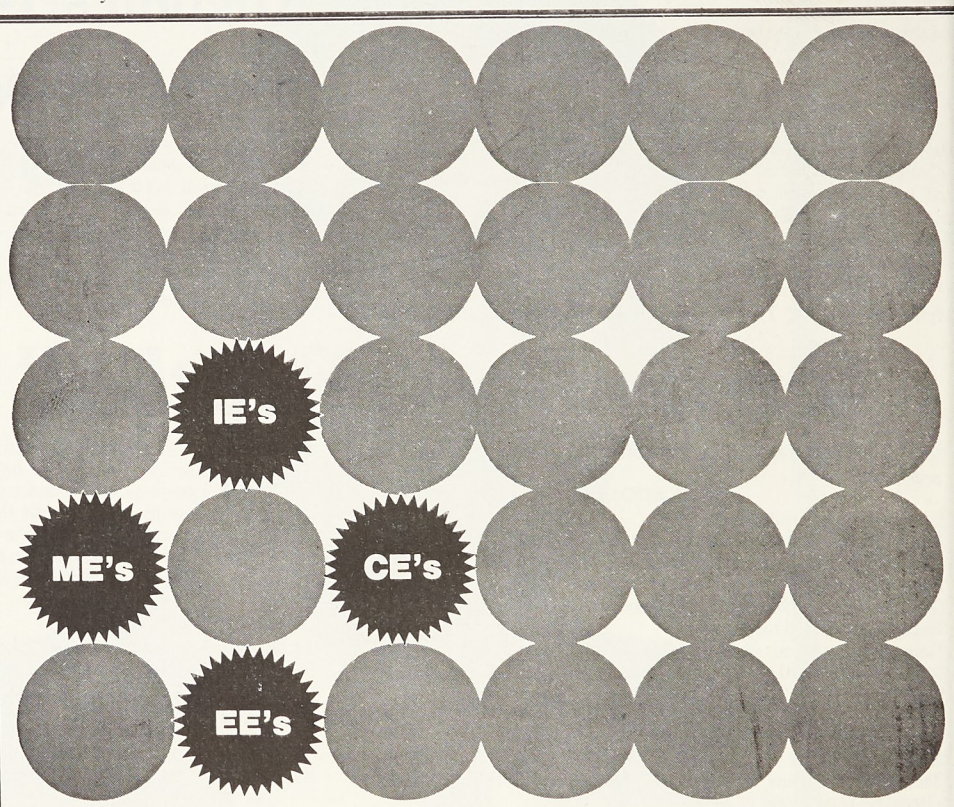
This week was also the start of the table tennis and tennis singles tournament. Use of the table tennis equipment is sponsored by the intramural program and each tennis player will receive one new tennis ball. The starting times for both table tennis and tennis singles matches will be 5:30-6:30-7:30-8:30.

Players are reminded to mark the winners and loosers on the table tennis chart located across from the candy counter in the Student Union and the tennis singles chart on the Butler Building.

Finally Coach Van Nostrand passed out criteria for selecting an Intramural Athlete of the Year and a team to receive the Consolation Trophy.

The Intramural Athlete of the Year should have participated in most of the intramural sports during most of his college career. He should have shown good sportsmanship at all times as well as provided good leadership for his team. And finally he should have helped advance the overall intramural program by not only acting as a participant, but by officiating contests or being a team manager.

Requirements for the Consolation Trophy must include the following: The team cannot have won an intramural team trophy during the season. The team must have entered all intramural sports with their entries on time and have displayed outstanding sportsmanship in their matches. Finally they must have made a good contribution to the intramural program.



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