



22 Nov 1963

## The Missouri Miner, November 22, 1963

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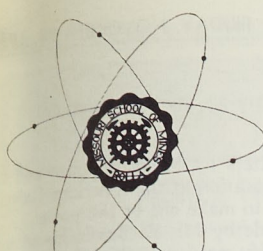
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# The Missouri MINER

MISSOURI SCHOOL OF MINES AND METALLURGY

EDITOR  
FOR A DAY  
★  
SEE PAGE 5

VOLUME 50

FRIDAY, NOVEMBER 22, 1963

NUMBER 10

## Glimpse of MSM For Engineer's Day Visitors

Despite chilly weather conditions the MSM's Engineer Day, held November 16, was a success with nearly 1,000 visitors registering for the event. Sponsored annually by the School, the open house is intended to acquaint prospective students, their parents, their high school and junior college teachers, and administrators with information on college life, its costs and activities. Members of various student organizations at the school, including the IFC and Student Council, served as guides for the visitors, and most departments on the campus prepared displays, which covered a particular area of related study.

The guided tours started at the Military Building, where a display consisting of types of power used in the operation of various machines used in military operations was seen. Next on the tour was a stop at the Chemical Engineering Building, where guests were entertained by displays in both organic and general chemistry. The tour next stopped at the Mining Building, which had a fascinating contest dealing with drilling and a discussion of proper drilling techniques. After this exhibition the tour was conducted through the Ceramics Building, where visitors could inspect machines which were essential in ceramic engineering and observe the tensile strength of various products in the field. The tour was then brought to a conclusion with an explanation of various labs in both the civil and electrical engineering buildings.

## Top Cadets Recognized in ROTC Awards Ceremony

Fifty-one individual awards were made to forty-seven outstanding ROTC cadets at hourly scheduled ceremonies on the November 15th.

Dean Leon Herschkowitz presented the University Board of Curators Summer Camp Award to Cadet Lieutenant Colonel William A. Crede, Westphalia, Missouri, and the Board of Curators Marksmanship Award to Cadet Lieutenant Colonel William P. Falke, Gillespie, Illinois.

Lieutenant John J. Bell, U.S. Navy Reserve, from Boonville, Missouri, presented the Legion of Valor of the United States of America, Inc. Bronze Cross Award to Cadet Captain Charles G. Lyons, Springfield, Missouri. Cadet Lyons is the fourth consecutive annual MSM recipient

of this honor which is awarded annually to the outstanding Senior Division ROTC cadet in each U. S. Army Corps area. Lieutenant Bell was awarded the Navy Cross for action during the assault and occupation of Safi, French Morocco, on November 8, 1942, and is a member of the Legion of Valor of the United States of America, Inc. He is a graduate of Dartmouth College and was Mayor of the City of Boonville from 1958 to 1962.

Cadet Lieutenant Colonel William A. Crede received the Chicago Tribune Gold Medal Award for the Senior Class. The Chicago Tribune Silver Medal Award for the outstanding cadet in the Junior Class was received by Cadet First Sergeant Cyril D. Marshall, Collinsville, Illinois. Both of these awards were presented by Edward W. Sowers, Owner and Publisher of the Rolla Daily News. Colonel Glenn R. Taylor, Professor of Military Science, presented the Chicago Tribune Awards to Cadet Sergeant Earl Anderson, Jr. Sophomore, and Cadet Private Richard L. Bock, Freshman.

Colonel Taylor, assisted by Lieutenant Colonel Herman E.

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## Student Council Business: From Traffic to Chess

At the regular Student Council meeting held Nov. 12, 1963, the rapidly approaching Christmas season was realized as the Council approved funds for the Nativity Scene which it annually sponsors. The location of this year's display has been moved to behind the Nuclear Reactor Building and will face Pine Street.

It was announced at the meeting that the Student Traffic Committee has been chosen and that it will soon post its regular meeting schedule and begin hearing appeals from students accused of traffic violations.

The newly formed MSM Chess Club presented its constitution to the Council and received an immediate vote of approval.

Also during the meeting, the Council continued discussing the controversial issue concerning the possibility of giving a B. A. degree besides the normal B. S. given here at MSM.

## Dean Baker Discusses Plans for Intercollegiate Athletics at MSM

The following is a statement made by Dean Baker following his athletic conference on November 15.

"At a meeting on Thursday with Professor Bullman, Professor Steinmeyer, Mr. Lewis, Mr. Klinkerman and myself, plans for the intercollegiate athletics at MSM were discussed. This meeting was prompted by a report from the Athletics Committee resulting from my earlier invitation.

"The discussion was limited to the football program because of time. We agreed that it was not proper to continue football unless more support could be given it. Professor Bullman felt that the greatest problem was attracting enough good players. He was drastically short in numbers this year and may not have enough next year to man a team.

"Aid plans were discussed, along with class schedules and lighter loads for members of the team. Mr. Lewis will be able to resolve most of the schedule complication, and the Policy Committee will attempt to alleviate the problem of late classes for members of the varsity team. The scholarship plan will be studied further.

"Professor Bullman does not believe that competition from intramural football reduces the number of players for intercollegiate participation. He feels that the most

important need of the team is for the student body to diligently help in the recruitment of players, on campus and from high schools.

"I believe that intercollegiate football is important to our students and want to continue it if the students want it. Professor Bullman and I agree that football should be given a three year trial period, with its continuation beyond that being dependent on the

support by the student body."

The reader should realize that more such meetings will be taking place, and that action in the athletic field at MSM has just begun. All students are urged to let their opinions be heard on football and athletics in general. For, as the Dean said to a Miner reporter, "The football team first of all is for the benefit of the student body."

## SU Board Travels to MU For Region 8 Conf. of ACU

The MSM students are hoping to see the realization of many weeks of planning and hard work this weekend when the Student Union Board travels to M. U. for the 11th Annual region 8 conference of the Association of College Unions. The Board with the co-operation and help of a large staff of MSM students has outlined a campaign by which they hope to have their fellow board member Mark Martin, elected president of region 8. The board nominated Mark as their candidate because they felt that with his wide experience in S. U. activities and excellent leadership abilities he would lead region 8 to new heights of achievement. The presidency

of region 8 offers a challenging task for any individual, however, with Mark's special qualifications and the continuing support of the S. U. Board and Staff, he will undoubtedly meet this task with marked success. The Board is sure that the other delegates to the conference will recognize Mark's potential and will elect him president of the region.

Region 8 of ACU presently consists of all the member colleges and universities in a four-state region made up of Iowa, Kansas, Nebraska, and Missouri. The purpose of the regional conference is to provide the opportunity for the staff and boards of member unions to get together to discuss and exchange ideas on union functions and operations. During the conference, special sessions are set up for the students and staffs to discuss particular phases of union work. MSM's own well known union director, Mr. William Kratzer, will be leading one of these discussion sessions. His topic will consider whether the union is fulfilling its purpose in securing suitable means of program financing.

Attending the conference are:  
(Continued on Page 2)

## One-tenth Million in US Loans for MSM Students

On September 2, 1958, President Eisenhower signed the National Defense Education Act, a program providing for the low interest lending of money to capable students who need financial aid in completing a college education. While the Act states that any student may make application for these loans, special consideration is given to students falling into two categories. Those students who (1) express a desire to teach in elementary or secondary schools, or (2) whose academic achievements indicate superior

capacity or preparation in science, mathematics, and engineering. MSM deals with those students who fall into the latter category.

To qualify for a National Defense Loan, a student must be a citizen, or a permanent resident, of the United States. He must have maintained a "C" average for the semesters prior to his application, and must carry not less than 17 semester hours.

Applications for National Defense Loans are reviewed by the Faculty Loan Committee, headed by Asst. Dean Paul E. Ponder. This committee decides the eligibility of a student, designates the amount and conditions of each loan, makes periodic advances to borrowers, and establishes payment schedules.

The Federal Government supplies 90 per cent of the funds to be used while MSM supplies the remaining 10 per cent. For the academic year 1963-1964, MSM has been allotted \$94,402.22 for National Defense Loans. Of this, \$84,062 is the Federal Government's. This compares with \$59,525 awarded to 138 students last year. The sharp difference between the two totals is due to the fact that this year Congress recognized MSM and the University of Missouri at Columbia as

(Continued on Page 10)

## Feud in Congress May Hurt College Students

Thousands of U. S. colleges students may find themselves in serious financial trouble as a result of a growing feud between the House and the Senate Higher Education Subcommittees.

The National Defense Education Act (NDEA) bill, which provides loans for college students, was sent to the House Rules Committee recently where it could lie dormant through the end of the current congressional session.

Instead of expiring next sum-

mer, the NDEA act was given a three year extension when the Senate approved an additional \$35 million a year more than the current \$90 million annually allotted for student loans. A House version of the same legislation would authorize a higher loan total—\$135 million the first year. To make matters worse, where the Senate limits \$800,000 of the program to any one school, the House bill eliminates any ceiling at all.

The current limit is \$250,000 to  
(Continued on Page 2)

## IFC Sing to Be Held Military Ball Weekend

The annual IFC Sing will once again be held the weekend of the Military Ball, on Friday, December 6, with a starting time tentatively set for 7:30 p. m.

A total of 23 entries have been received for the event to be held in the ballroom of the Student Union, and featured competition will take place in chorus singing, with each chorus normally composed of sixteen men, and in quartet singing.

Kappa Alpha scored a first in last year's sing, sweeping first place in both the quartet and chorus, and will be out to repeat this year. All of the fraternities have been practicing for over a month and should provide some

(Continued on Page 9)



## Miner Editorials

### If I Was Editor of the Miner for One Day

The Humanities Department of MSM is in a deplorable state of neglect and misunderstanding. Steps should and, indeed, must be taken to raise the status of the humanities on the MSM campus. This will not only develop more rounded students, but it will heighten the nation-wide image of the Missouri School of Mines.

The aged and crumbling Rolla building, the small popular literature library both give the student the impression that the school thinks little of the value of the Humanities Department. Thus through the years students have come to look upon the field of humanities as but a hindrance on their road to a degree. This attitude has lowered the prestige of MSM from a nation-wide viewpoint.

It is an accepted fact that the ability to communicate with others is the most important quality of anyone in the professional field. This ability is acquired by a study of the language and by a study of human behavior. Unless steps are taken immediately, MSM students will continue to be cheated out of a good quality education in this, the most important field.

It is my contention that the Humanities Department should be rejuvenated. One of the most important steps in this direction would be the construction of a new and enlarged Humanities Department. Besides being able to accommodate a wider variety of courses, it would serve as a symbol to impress upon the student the importance of humanities.

James Moore

(See Page 5 for Additional Freshman Editorials)

## Letter to the Editor

### Congratulations to the India Association

Editor:

Congratulations to the India Association and its members! Their presentation of "Zhanak Zhanak Payal Baje" at the Uptown Theater on November 16, 1963, certainly is a testimony to their desire for a closer relationship, both culturally and socially, between our nations.

For the first time at MSM, we Americans were the guests of the foreign students. They were, indeed, gracious hosts; have we been as affable? As Americans, we have had the role of host to these people thrust upon us. Courtesy, congeniality, and friendship are our responsibilities to these people and to our country.

The United States of America is the greatest nation today, but it was our forefathers who developed this land to its present supremacy. We as college students have contributed nothing to our country's prominence because we have never had the opportunity. But here is our chance! No nation can survive a substantial duration without friends. Our government realizes this and, therefore, has developed its foreign student exchange program to its present status. Our government has placed its confidence in us to treat these foreigners cordially, thereby strengthening the friendship between our nations and providing for a future filled with mutual friendship and advancement.

Members of the India Association, on behalf of all the American guests who attended your movie, thank you for an afternoon of fine entertainment and for the sociable hospitality afforded us all. We appreciate it.

Ted A. Baer

## Congress Receives Bill For ROTC Pay Hikes

A bill is now before Congress, that if passed will substantially increase ROTC cadet retainer pay. One of the key features of the measure will be an increase in pay for ROTC cadets from \$27 to \$50 a month.

The bill will provide for a basic four-year ROTC program, but will allow a two-year program for junior college students and others who transfer into a school after several years of college level work.

It is felt that generous scholarships, up to \$800 a year for tuition and books plus \$50 a month retainer pay, will be an inducement for men to sign up for the four-year ROTC program. Scholarship students will have to serve four years on active duty following graduation.

In a further attempt to upgrade ROTC training, steps to improve the quality of military science courses and to gain wider acceptance for such courses, will be taken.

A bill will be designed to meet the needs of the services—including the need for career officers from ROTC, for short-term active duty officers and for a pool of trained reservists in the civilian community.

A student who completes a ROTC course or National Defense Cadet Corps course in high school and later enlists, or is drafted into the service, would get a one-grade promotion following basic training for his ROTC work.

The bill will also recognize that the ROTC has an obligation to provide some level of military training to a segment of the college-educated community, training that would prove valuable to the country in a future mobilization.

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## The Reviewer's Stand

"CRITIC'S CHOICE"

Perhaps two of the brightest comedy names on the motion picture—or television—horizon these days, Bob Hope and Lucille Ball, are the costars of the "Critic's Choice."

Its origin is a stage play by Ira Levin, which was produced on the stage by Otto Preminger. Hope is the dedicated drama critic, fearless and honest, much in love with his wife, Miss Ball, not afraid to review with pitiless strokes the play in which his former wife, Marilyn Maxwell, and, mother of his son, Ricky Kelman, stars. There are a number of scenes during the father vs. son ball game; with Jim Backus, neighboring psychiatrist; with Miss Ball's mother, Jessie Royce Landes, and the like, which are closer to the Hope pattern, which permit him the kind of humor of which he is master, and which will delight the vast audience which he and Miss Ball command.

Bob's happiness with his second wife, Miss Ball, is threatened when she decides to write a play, although he discourages her and thinks she will never finish it. But a big producer decides to put on Lucille's play and Rip Torn, a girl chasing young director, is hired to work on it. At the Boston tryout, the nervous Lucille begs Bob to disqualify himself as a critic and send the second-string reviewer to the roadway opening. After a quarrel with Lucille about Torn's attentions to her, Bob relents and says he won't review the play. But, after a few drinks and a session with the jealous Marilyn, Bob attends the play and gives a murderous review. The troubles which ensue become interesting to say the least.

There are Hope and Ball especially to sell, plus an amusing story and fine production values, and it all should add up to a bright entertainment package for all MINERS before their trip home for Thanksgiving. It will be shown at the Ritz Theater from November 24 through November 26.

### S. U. BOARD TRAVELS TO MU

(Continued From Page 1)

Staff members — Mr. William Kratzer, director; and Mrs. Ruth Daniels, program director. Students—Mark Martin, head delegate; Kenneth Kamman, Gerald Kettler, Robert (Bo) Jung, Barry Hayden, Norman Meyer, Graham Sutherland and Frank Woodbury, delegates.

## LETTERS

(Non-Student Comments on Foreign Student Situation)

### EDITOR

I have read with interest the letters by Messrs. Puroon and El Baz. As a student of international education at the American University, Washington, D. C., I should like to make one or two points.

I think the crucial point was made by Mr. El Baz in his second letter when he mentioned the host-guest nature of the "Foreign Student Situation." Foreign students in the United States are guests in our home and it is, therefore, our duty to make their stay as rewarding as possible. We, as the hosts, must take the initiative in this, not the guests. I do not by any stretch of the imagination advocate a "missionary" approach to the students, for we do not want to make them feel either like celebrities or freaks. The ideal approach would be for us, as Americans, to exert just a little more than average effort to make the foreign students among us feel welcome and accepted for themselves (not as Chinese, Indians, etc.).

Further, I should like to point out that some students may seem aloof or even hostile to us. There may be any number of reasons for this but the most important, I feel, is that it may reflect an "anti-American" attitude on the part of a student due to experiences either here or at the home. It is these people to whom the rest of us must give more (not less) than a normal amount of understanding, for in their present frame of mind, even the slightest offense, intentional or accidental, may be greatly magnified.

In any case, we hosts must bear in mind that the great majority of foreign students in this country are here on scholarships and most of these will return to positions of considerable importance. Some may, in the near future, hold policy-making positions in their own governments. I would hate to think that the unhappy experiences of a former foreign student in the United States were even partly responsible for a decision contrary to the principles for which the people of the United States and their leaders stand.

Janet C. Barnes  
American University  
Washington, D. C.

### FEUD IN CONGRESS

(Continued From Page 1)

any single school. But rather than accept the approved Senate version or attempt a compromise, the House voted to send its NDEA to the Rules Committee for further study.

### Genuine Hardship

In a statement, the Republican members of the House Education Committee attacked their Democratic colleagues and the Kennedy administration for stalling action on the bill. The GOP members said failure of Democratic leaders "has created genuine hardship for thousands of college students who have depended upon student loans to finance their education."

### SWEATSHIRTS

### OUTLINES

### JEWELRY

## CAMPUS BOOK STORE

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## Campus Poll

### MSM's National Image

What is our school recognized for? When someone hears Missouri School of Mines, what is the first thing they think of? Does the name Missouri School of Mines and Metallurgy give a true picture of the curriculums offered? Does the fact that we are commonly associated with M. U., a state university, tend to take away some of the potential of the school in the minds of uninformed persons? How does MSM rate with other engineering schools in the nation?

These are some of the questions that were posed in this week's Campus Poll. Some of these questions were taken from people in many different sections of the country, others from our own campus. Now, for the percentage breakdown on the questions.

Sixty-three percent of the questionnaires returned were marked showing feelings that the school was not recognized for the wide variety of Engineering degrees offered, one large, limiting factor being the name (Missouri School of Mines and Metallurgy). Twenty-three percent felt that the school is well known as a top-rated engineering school, and fourteen percent were unconcerned with the question.

The next question, "What is the first thing people think of when they hear Missouri School of Mines?" carried about the same percentage ratings as the first question. Seventy-six percent of the questionnaires returned indicated that whenever a person mentions the name of the school, they were questioned as to the nature of its curriculums. Twenty-four

percent of the students participating stated either their ignorance of the situation or that they weren't confronted with it.

Ninety-one percent of the questionnaires were marked in the space left for changing the name of Missouri School of Mines and Metallurgy. There were entirely too many names suggested in the space left for write-ins to mention in this article, but if concern warrants, there will be a poll dealing with a new name for MSM.

There were three boxes beneath question five, labeled: top ten, top twenty, and below. Surprisingly enough eighty-two percent of the students rated MSM in the top ten engineering schools in the country, which is a statistically proven fact. Seventeen percent rated it in the top twenty and one percent rated it in the below twenty category. This was a rather startling fact inasmuch as sixty-three percent rated it as not being known for the wide variety of engineering degrees offered.

The fact that many people do not associate MSM with other accredited technical schools is that it is almost always referred to as a branch of Missouri University, which is a large, complex university, and it is associated with generalization rather than specialization. This point was brought up by forty-nine percent of the students taking part in the poll.

Be sure and look for next week's Campus Poll in the Student Union on or about Wednesday of next week. Please don't take one if you don't plan on filling it out and returning it.

## Lucy James Scholarships Awarded by Dean Baker

Dean Merl Baker has announced that James M. Carter, David S. Shimamoto and Graham G. Sutherland III have been named recipients of the Lucy Wortham James Scholarships for the 1963-64 school year.

smelters and operators of the Meramec Iron Works near St. James, Missouri.

On November 8, Dean Baker presented checks covering the scholarships to each of the above named students and congratulated



Dean Baker presents the Lucy Wortham James scholarship checks to the recipients for this academic year. From left to right: Graham Sutherland, David Shimamoto, James Carter and Dean Merl Baker.

These scholarships are provided by the James Foundation from the estate of Lucy Wortham James in memory of her family. The James Family were pioneer iron

smelters and operators of the Meramec Iron Works near St. James, Missouri. (Continued on Page 7)

## NEWS of the Week

**Venezuela:** Terrorism has been rampant in the capital city of Caracas in recent weeks as Communist leftist groups have tried to create disturbances to influence the December 1 elections. In the most recent violence, gunmen raided a hospital and snatched a wounded Communist leader who had been captured and killed a doctor and two policemen in the process. President Romulo Barquismo has ordered a crackdown on all leftist activities.

**Argentina:** U. S. - Argentine relations sank to a low level as the Latin nation announced plans to annul all American oil contracts there. The contracts were signed by ex-President Arturo Frondizi when he was president, but this was done without the consent of the congress. Now the new administration denounces them as illegal. The oil companies have invested nearly \$400 million since 1958.

**Russia:** Yale Professor Frederick Barghoorn was arrested as a spy in Moscow and held by the Communists until U. S. threats of cancellation of the very popular cultural exchange program, the wheat sale, and current peace talks forced his release. Barghoorn was visiting

### UPTOWN THEATRE

MOVIES IN CINEMASCOPE

Thurs., Fri., Sat. Nov. 21-23

'Beach Party'

Frankie Avalon & Annette Funicello

Sun., Mon., Tues., Wed. Nov. 24-27

Sunday Feature Shown: 12:45, 2:50, 5:00, 7:10, 9:25

Admission: Adults 75c Children 35c

WALT DISNEY'S 'Miracle of the White Stallions'

Robert Taylor & Lili Palmer

Starts Thursday, Nov. 28

Matinee Thursday at 2:30 p. m. 'McLintock'

John Wayne & Maureen O'Hara

RITZ THEATRE

MOVIES ON WIDE SCREEN

Fri., Sat. Nov. 22-23

Saturday Continuous from 1 p. m. 'Wonderful to Be Young'

Cliff Richard & Carole Gray —PLUS— 'Gorgo'

Bill Travers & William Sylvester

Sun., Mon., Tues. Nov. 24-26

Sunday Continuous from 1 p. m. 'Critic's Choice'

Bob Hope & Lucille Ball —PLUS— 'The Sergeant Was a Lady'

Martin West & Venetia Stevenson

Wed., Thurs. Nov. 27-28

'My Six Loves'

Debbie Reynolds & Cliff Robertson —PLUS— 'Wild Heritage'

Will Rogers, Jr. & Maureen O'Sullivan

the Soviet Union as a part of the cultural exchange, and it is believed that his arrest was in retaliation to the recent roundup of three Russians involved in a spy ring in Englewood, N. J.

**Atom Base:** Nearly 13 tons of high explosives blew up at a top-secret Atomic Energy Commission base near San Antonio, Tex. The non-nuclear blast caused minor damages and probably scattered relatively harmless

amounts of uranium through the air. The explosives were of the type used to trigger atomic devices.

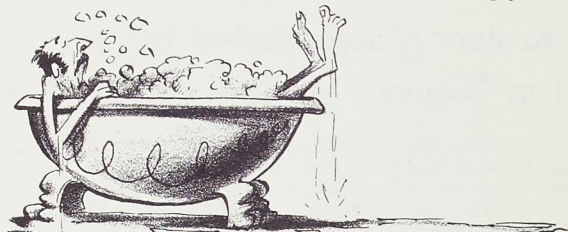
**Senate Aid Cut:** President Kennedy's proposed foreign aid bill suffered a severe defeat as the Senate passed an aid bill which is over \$800 million short of the sum which he requested. Kennedy has protested that the cut will tie his hands as far as foreign spending is concerned.



### DECK THE HALLS

The time has come to think of Christmas shopping, for the Yuletide will be upon us quicker than you can say Jack Robinson. (Have you ever wondered, incidentally, about the origin of this interesting phrase "Quicker than you can say Jack Robinson"? Well sir, the original saying was French—"Plus vite que de dire Jacques Robespierre." Jack Robinson is, as everyone knows, an Anglicization of Jacques Robespierre who was, as everyone knows, the famous figure from the French Revolution who, as everyone knows, got murdered in his bath by Danton, Murat, Caligula, and Al Capone.

(The reason people started saying "Quicker than you can say Jacques Robespierre"—or Jack Robinson, as he is called in English-speaking countries like England, the U.S., and Cleveland—is quite an interesting little story. It seems that Robespierre's wife, Georges Sand, got word of the plot to murder her husband in his bath. All she had to do to save his life was call his name and warn him. But, alas, quicker than she could say Jacques Robespierre, she received a telegram from her old friend Frederic Chopin who was down in Majorca setting lyrics



to his immortal "Warsaw Concerto." Chopin said he needed Georges Sand's help desperately because he could not find a rhyme for "Warsaw." Naturally, Georges could not refuse such an urgent request.

(Well sir, off to Majorca went Georges, but before she left, she told her little daughter Walter that some bad men were coming to murder Daddy in his bath. She instructed Walter to shout Robespierre's name the moment the bad men arrived. But Walter, alas, had been sea-bathing that morning on the Riviera, and she had come home with a big bag of salt water taffy, and when the bad men arrived to murder Robespierre, Walter, alas, was chewing a wad of taffy and could not get her mouth unstuck in time to shout a warning. Robespierre, alas, was murdered quicker than you could say Jacques Robespierre—or Jack Robinson, as he is called in English-speaking countries.

(There is, I am pleased to report, one small note of cheer in this grisly tale. When Georges Sand got to Majorca, she did succeed in helping Chopin find a rhyme for "Warsaw" as everyone knows who has heard those haunting lyrics:

*In the fair town of Warsaw,  
Which Napoleon's horse saw,  
Singing cockles and mussels, alive alive o!*

But I digress.

We were speaking of Christmas gifts. What we all try to find at Christmas is, of course, unusual and distinctive gifts for our friends. May I suggest then a carton of Marlboro Cigarettes?

What? You are astonished? You had not thought of Marlboros as unusual? You had regarded them as familiar, reliable smokes whose excellence varied not one jot nor tittle from year to year?

True. All true. But all the same, Marlboros are unusual because every time you try one, it's like the first time. The flavor never palls, the filter never gets hackneyed, the soft pack is ever a new delight, and so is the Flip Top box. Each Marlboro is a fresh and pristine pleasure, and if you want all your friends to clap their hands and cry, "Yes, Virginia, there is a Santa Claus!" you will see that their stockings are filled with Marlboros on Christmas morn.

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\* \* \*

The holiday season or any other season is the season to be jolly—if Marlboro is your brand. You'll find Marlboros wherever cigarettes are sold in all fifty states of the Union. You get a lot to like in Marlboro Country.



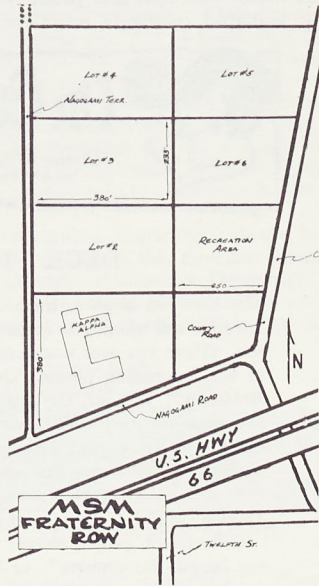
## MU Curators Provide MSM With a "Fraternity Row"

The Curators of the University of Missouri, by a lease expiring August 31, 2057, allotted land to Kappa Alpha fraternity for the construction of a fraternity house on MSM property. At this same time, September 1958, provision was made for extending this development into a "Fraternity Row", originally encompassing six such lots and a recreational area, with possible expansion almost unlimited.

This property, located on the west boundary of the City of Rolla and directly north of US Hwy. 66, allows for development of lots for 230 foot frontage and from 300 to 400 feet in depth. This step was taken to insure a place for the fraternities, which aid the school in its housing effort, after necessary academic expansion must condemn the present structures on any land immediately adjacent to that presently used by the school.

The terms for subsequent leases will be: A fifty year lease with original rental of \$2250 (One-quarter of the expense of extending sewerage and roadway services) and \$100 yearly upkeep payment (at least one-sixth of these upkeep expenses). In return, all fraternities must comply

to terms of occupancy set up by the University or forfeit the lease. The contract also binds each house to certain specifications as



MSM Fraternity Row.

to building and upkeep, improvement and sale of the property. As yet, no fraternity has made

## Bill Kratzer Makes Student Union A Top "Campus-Minded" Organization

Since becoming Director of the Student Union at MSM three and one-half years ago, Bill Kratzer has molded the Union into the efficient and "campus minded" organization that most Miners take for granted today. Bill received his Master Degree in education from the University of Missouri in 1951; then spent two years as a counselor at West Plains and four years as Civilian Education Advisor to the Department of the Army at Fort Leonard Wood. After spending two more years as Program Director at his Alma Mater, he was named to his present position on this campus.

Taking charge of the newly-erected building, Bill immediately began initiating policies which were to make the Student Union one of the best for its size in the country. Perhaps the best example is his underlying belief in the capabilities of the Student Union Board, a group composed of students alone, in determining how the activities and affairs of the Union are to be run. Bill believes that the Union truly belongs to the students and will be of little worth if their ideas are disregarded. In talking with him the first things one hears are the new ideas stemming from the Student Union Board and the Student Body.

Another very popular policy of Bill's is that of never charging admission fee to any Student Union function. Most MSM students do not realize that in addition to their regular fees, students at many other schools pay admission to movies, lectures, and other such things which are also in most cases less frequently held. Bill vows that there will never be any admission charged to students at any Union function as long as he is director. Bill's idea of service to the student is further exemplified by the more than rea-

sonable prices charged for food in the Union cafeteria.

Mr. Kratzer has also been the main factor in establishing better relations between students through the numerous tournaments and mixers which are held for the enjoyment and benefit of all. His presence at all important functions to overlook the activities and often to meet the visitors from other schools is a primary reason for their success.

At the present time, Bill and the Student Union Board are involved in one of the most ambitious projects ever undertaken at this school. This is the proposed Student Union expansion. In the four short years the present building has existed, it has already outgrown itself, and with the ever increasing enrollment an addition is clearly needed. Pro-

definite progress to join the Kappa Alpha house on Fraternity Row, however several have preliminary investments holding a specific lot.

The school is presently completing warehouse facilities in the same area, utilizing an identical brick to the present fraternity structure, to minimize depreciation of the area. It is also planned to build a clover-leaf and pedestrian walkway, making access to campus easier, with an eye on future MSM academic and housing expansion toward the west.

## SU, MSM Profs Combine to Give Bridge Lessons

With the increasing interest in bridge among the student of MSM, the Student Union, in order to be of a service to the students, has set up a series of bridge lessons.

Mark Martin, Recreation Director, as announced that bridge lessons will be taught in two groups. The beginners (no knowledge of bridge) will be instructed by Mr. M. B. Cole and an intermediate (know the essentials of the game but have not played it) group will be instructed by Mr. K. C. Muhlbauer. The beginners' group meets on Tuesday at 7:15 p.m. and the intermediate group meets on Thursday at 7:30 in the Student Union.

There is still time to enter these classes. The classes are open and will run throughout the school year.

This innovation is another of the many firsts that have been made available to the MSM student by the Student Union.

posed plans call for a larger auditorium, expanded cafeteria, and possibly a bowling alley. Obviously, such a vast proposal by the students would be short lived without the administration's support, and Bill has provided this support. He now expresses confidence in a new addition within the next four years - dependent upon such ideas as student-sponsored, fundraising projects and the now effected fee increase.

Most important is Bill's invaluable advisory aid to the Student Union Board and committees. He is always ready to render aid to anyone in need of help or advice.

## Holiday Films at SU

The second in a series of Holiday Films will be shown on Tuesday, November 26, 1963, at the Student Union. "Drums Along the Mohawk" with Henry Fonda and Claudette Colbert is typical of the Thanksgiving season which it depicts.

The Holiday Showcase Series of Films was originated last year at the Student Union in addition to the usual Sunday movie programs. The holiday celebrated by the series this year along with their respective films are as follows: Halloween with "The Day the Earth Stood Still", Thanksgiving with "Drums Along the Mohawk", Christmas with "Miracle on 34th Street", Valentines Day with "Pepe", and Easter with "Man Called Peter". Because of the fact that the holiday films are shown on week nights, they are shown

only at 7:30 in the evening in contrast to the 2:30, 5:00 and 7:30 showings of the weekly Sunday movies.

In the case of the Holiday Showcase of Films, as well as in the instance of the Sunday Films, there is never an admission charge to the capacity crowd which is drawn by the reputation of the Student Union's policy to select outstanding as well as recent films.

## PARKING NOTICE

The Drill Field, Lot No. 7 is open for parking until further notice.

Reminder: Green zones, NOT white or yellow, are free.

30 Minute Zones: North side of CE Bldg., East side of old Cafeteria, Gymnasium.

15 Minute Zone: North side of Parker Hall.

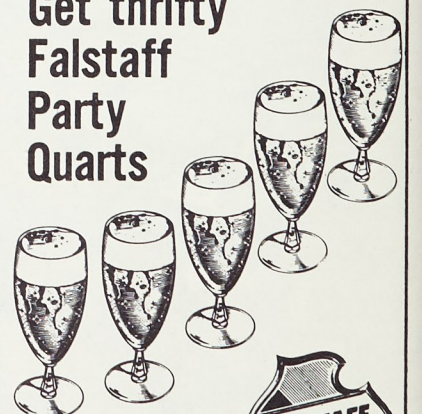
## LITTLE MAN ON CAMPUS



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FREE PARKING



# EDITOR FOR A DAY!

Pretend you are the editor of the MINER for one day! Using this as a theme, the class of '67 was given the assignment of submitting a short editorial on any chosen topic. The imagination and writing skill displayed by the freshmen class as a whole was encouraging to the English Dept. and to the MINER staff.

The subjects ranged from building a women's college in Rolla, to a bitter criticism of the present editor for making the assignment.

The articles printed were selected on the basis of originality, clearness, and timeliness. There were so many fine articles that the selection of these few presented quite a problem to the staff.

The editor wishes to thank and congratulate ALL of the freshmen for their efforts. If your article does not appear in this issue, do not despair, more editorials will be printed in forthcoming papers.

## NO GIFT DEGREES AT MSM

If I were editor of the *Miner* for one day I would write on the condition of the humanities department and explain a scientist's feelings on the expansion or removal of this department from the curriculum. I definitely believe this department should not be reduced in size; however, I do not agree that a degree from the School of Mines should be given in the humanities.

Let us review the importance to an engineer or scientist of a good background in the humanities. When a person goes out into the world, he must be able to converse intelligently with the public. A scientist must be able to use some other language than differential equations. He must have a thorough understanding of the English Language, thereby demonstrating the need for a course in rhetoric and composition. This scientist will be required to take a course in a foreign language. One might ask himself, "When will I ever be in Germany? . . . Why should I bother my head studying these French verb conjugations when I will have forgotten them in five years?" One thing that he overlooked, and one of the basic reasons for studying a foreign language, other than to speak it, is that when learning another person's native tongue one learns something of that person's country — culture, religion, philosophy. All of these intangible things tend to make this scientist or engineer a more understanding person when he comes in contact with a visitor from any country. A scientist or engineer will not make much of a profit for his company if he is not informed of the laws of supply and demand. This engineer could very likely become involved in a labor-management dispute some day. It is better for him to learn of the problems between these two factions from a book, rather than first hand. Mistakes are easier to rectify in the former case. A course in American or world history is invaluable to the well-informed person of today. Imagine taking a trip to the East Coast and only vaguely knowing of Concord, Lexington, or Richmond!

So far, I have stated reasons for keeping the humanities department. Now I will discuss why we should not offer a degree in humanities, even though M. I. T. does. I am sorry to say, I have only one good reason: I feel that a degree from the School of Mines is a very highly respected attainment in science and engineering fields, and that it would lose some of its status if it were offered on an equal basis with degrees in English, social studies, and, though not in the humanities department, home economics. One of MSM's best points lies in its coherence of interests among the students. As soon as the humanities department gained recognition, this tight bond of common feeling would be dissolved, and MSM would become like any other liberal arts school.

In conclusion, as I have tried to express earlier, I am not "death" on the humanities department; in fact, I would like to add some suggestions as to courses that might improve it somewhat. In this world of decreasing distance and increasing ideological tension, I see the need for courses to be in geography and in Russian and Communism. In order for a scientist or engineer to be an asset to his town and to his country, he must have a good background in the aesthetic world as well as the technological realm. This means to me that our humanities department should be strengthened, not enlarged.

Gail Davidge

## LET'S SAVE THE ROLLA BUILDING

Our campus has changed through the years but something should be done to keep its buildings and grounds up to date, in particular the Rolla Building, Jackling Gym, the Old Chemistry Building, and the Old Metallurgy Building. These buildings, as we all know, are well used — especially the Rolla Building, which has been in constant service day in and day out since 1871. This makes it almost 93 years old. It is actually a landmark, and what are we doing? We're destroying it — with this day in and day out stomping of steps, scooting of chairs, and carving of desks! Why not stop all this destruction by making the building a historical landmark, complete with pictures and historical facts that date back to the school's beginning. By doing this we could show new students as well as old the need for greater education. At the same time we would give the school a need to build a new Humanities Building, one with adequate lighting and a pleasing appearance that would keep the students' minds alert. Doing these things would better our students mentally, for they would know, as everyone else, that our school and grounds are modern and efficient with a well-known historical background.

Robert Manche

## LACKING SCHOOL SPIRIT??

Mention the Missouri School of Mines in athletic circles, and it is not likely to create a stir. But, mention the Missouri School of Mines in scholastic circles, and you will find that it is treated with the utmost respect. This "Little Giant" of engineering schools did not earn its reputation as being one of the finest schools of its type through outstanding athletic achievement. The rigorous standards it holds as its format, coupled with the fine records of MSM graduates, have contributed to make MSM a top school in the teaching of the engineering sciences.

Now we come to the topic of school spirit. One always hears of the extremely low school spirit shown by students toward athletic contests; this due to the fact that the Miners seldom ever produce a winning team. But, isn't this as far as the lack of school spirit can go? A school of MSM's category could not have reached its position through a lack of school spirit on the part of its student body; therefore, there must be on the campus a type of school spirit far and above that of most small colleges.

One cannot walk across campus without being struck by the extremely high interest shown by MSM students toward their studies. Each small group is discussing some technical aspect of a particular subject, and all around there is being demonstrated an extreme proficiency for learning. Surely this is not an indication of low school spirit!

You see, Miners are proud of their school's record, and this pride is shown by them through their scholastic performance.

All these thoughts can add up to only one thing: School Spirit can be determined not through the loudness of cheering at a football game, but through an observation of the student body at study and at play. It is well known that over three-fifths of the student body participate in some type of intramural sport, contests that do not require so much time out from study as do varsity sports. This does not show a lack of interest on the part of MSM students.

Finally, MSM students are respected as being members of a seemingly select group of interested people striving to learning an atmosphere of the Missouri School of Mines!

Gary W. Wigginton

## MSM — A FIVE YEAR INSTITUTION

During the present and in the past, the administration of the Missouri School of Mines has given the incoming student a curriculum, which in the counselors' minds, should be completed within four years. Time and time again this fanciful thinking has been disproved. The average period for one to earn a Bachelor of Science degree is well over four years. Of course there are some students who graduate in four years, but they are greatly outnumbered by those who do not receive diplomas within four years.

Common belief is that any organization should be constructed with the interests

of the majority taking priority. Thus, why should our school be an exception to this hypothesis. Instead of overloading a student and lowering his grade point, the administration should develop a five year program which would allow the student to devote more time to each subject. This plan would be most effective since a high grade point is much more important to an employer than the time required for the applicant to earn this status.

This "Hurry up and get through attitude" brings us to another aspect of cultural weakness. The administration fills the student's schedule with mathematics and science, but the student does not receive the proper emphasis on the humanities. If the ability to express oneself is not the most important aspect of an education, those who are allowing such neglect are in for a rude awakening. The most useful project the School could finance would be the construction of a new humanities building, rather than an addition to the Student Union Building. This addition of facilities would provide an opportunity to develop a more extensive education in the humanities, if of course, the School was placed on the five year basis.

These previously stated opinions originate from the well-known statement, "Anything worth doing is worth doing right." With this saying in mind, why must we be forced to neglect some subjects in an effort to graduate within four years?

William Gieselman

## CRACKING IT UP

Miners are undoubtedly the most acrobatic group of students in the world. They have to be. And really it's no wonder when you consider the type of sidewalks we have to walk over.

Ever walk along to a 7:30 class half asleep and see another poor soul equally engrossed in the knotty problem of why in the world he had to get up this morning when all of a sudden, who! He catches his foot in a crevice in the sidewalk, takes a few crazy steps to stay on his feet, and calmly walks along his way still pondering why he had to get up.

We've all seen this happen and have had it happen to us many times. But how many of us ever stop to think about it? What would happen if a student tripped and fell, hurting himself?

He would surely be able to sue the owner for damages. With 3600 students and countless hundreds of cracks throughout the maze of city sidewalks, the courts would certainly be jammed and millions of dollars would change hands. Sidewalk tripping could become big business. Miners could retire after a year or two in college!

Of course this is carrying things to an extreme. But just stop and consider. Wouldn't it be nice for a change to walk along and enjoy the day or watch a squirrel scamper along a telephone wire without suddenly having one foot pulled out from under you and scrambling to stay on your feet?

Bill Alpert

## A PROBLEM OF CONCERN TO ALL OF US

One of the functions of our educational system is to instill in youth the virtues of an active citizen, so that they may replace those who, though their mettle be not diminished, must leave us. In this respect it may be said that colleges are the very foundation of our democracy. But how, with the majority of students entirely lacking in initiative and individualism, crassly imitating the often amoral habits of their peers, is our republican form of government to be preserved? The crux of the problem is today's spoon-fed educations, which stress a specific answer to a specific question, leaving little or no room for original thought and debate, particularly when a student is concerned more with grades than with what he learns, and is, as a result, quite aware of the need to conform to faculty opinion. One manifestation of the problem is easily recognized: the total inability of most students to discuss intelligently the news of the day. This situation is either due to an ignorance of world events, or our reluctance to form opinions on what we know to be the news, a reluctance augmented by the very nature of our educational system! The solution to the problem is soon forthcoming — our schools will slowly improve, as educators realize that the answer to a question is not as important as the means of arriving at an answer, especially with regard to modern technology's increasingly difficult questions, to which answers are often vague or even indeterminate without computer help. In the meantime it should be the aim of the *Miner* to serve as a forum of public opinion and to continue to present the news in capsule as it has done so ably.

John Kieffer

## THE GAME

We are all looking toward the final day of our careers here at MSM. Some of us are but a few weeks from this goal. Others have a number of years before we reach this most important point in our lives.

In either case it is imperative that we remember that our futures are dependent upon our achievements here.

Life is but a game and your decisions — to enter the field of science and to attend this school — have merely been part of your strategy to win this game.

The fact that you have placed your future in the hands of this particular school shows that you have faith in its abilities and achievements. We must remember, however, that the school will do nothing but teach you the rudiments of the game and show you the playing field. It is still your game and you must play it alone.

The majority of your education will be done on the playing field. You will build upon the foundations which you have learned here, but when you leave, you will have yet to complete the balance of your education.

Having successfully learned the ground rules here at MSM, we sincerely hope that you will be prepared to win life's most important game — life itself.

Joseph Van Meter

## PILLOWS FOR PHYSICAL ED.

Physical education is an application to the development and care of the body, esp. with reference to instruction in hygiene and systematic exercises. This means an increasing of body stamina and mind alertness while keeping in good health. But it seems that our physical education department has other ideas. First of all, the only strenuous exercise is that of walking up two flights of stairs and occasionally stretching or yawning once in a while. Perhaps this has something to do with dynamic tension or some other new concept of body building. Second, eyes are torn down instead of built up. This is caused by a constant straining to watch a sports film in a room that is too lighted. But I guess this builds up the neck muscles by adding extra weight to the head because glasses will become imperative.

Because everything is so unsatisfactory, I suggest that pillows be given to the students so that they might sleep through physical education. The sleep would rest and rebuild tired bodies, increase scholarship, and increase mental alertness. This concept wouldn't be new because ninety percent of the students sleep through class the way it is. Pillows would just improve conditions.

## PILLS PLEASE!

James Bond had no idea what Doctor No was doing on Crab Key Island, neither do the students on campus know what the doctors in the MSM Infirmary are doing. We hope there is some consolation in the fact that the doctors know what they're doing. But, frankly, I doubt it.

Most of the problems arise because there are three different doctors coming in each week. It is usually a grab bag to see who it is.

My point is that you're lucky if you get diagnosed right. I shall use my personal experiences to prove my point.

Ever since school started I was having trouble with my wrist. Went to the Infirmary all fired up to see what was wrong. After beating around the bush and a fine barrage of medical jargon I found myself out the door with a handful of pills. Such relief. Still not knowing what was wrong and out of pills I went back. I finally translated what the doctor said. I had torn ligaments in my hand. Out

the door with pills, of course. As long as the Infirmary had pills I was in great shape.

When it came time to play with the ROTC rifles I could not use my hand. I was instructed to go to the doctor at the infirmary.

Back at the humble abode of the medical profession I found a new doctor diagnosing. This one said I had a loose joint and there was no hope for salvation. But I got a two week disability.

Back again in two weeks to see about a permanent disability. Still another doctor who thought I should have more exercise, not a disability.

After a little shuffling of schedules and some luck I got the doctor I wanted. Also got my disability.

Needless to say, that was my last trip to the infirmary. If I ever go back I'll probably end up with more pills than Parke-Davis puts out in a year!

Another golden jewel is the nursing. Went over to the infirmary one evening to get some cold pills (also given freely), signed in and waited my turn. Just as my turn came up, two students carried some poor devil in who just got finished barfing his guts up. They set him in a chair, the nurse turned her head, noticed him and asked me what I wanted!

Could've been J. F. K. in that chair and I still would've gotten my pills first.

Ronald E. Walters

## TECHNOLOGY VS. LIBERAL EDUCATION

Revelation of history indicates that technology has drastically brought about changes in society. The creation of radioactivity, nuclear power, the atomic and hydrogen bomb and many more technical achievements have greatly produced effects upon society as well as political and economical concern. What effect will technology hold for man in the future? This problem rests mainly upon the shoulders of our future engineers and scientists. How well prepared are these men of science? Are they capable enough to confront the resulting problems from the development of technology and its effects? This is the question which I am mainly concerned with.

Lack of liberal education is typical of many technical schools. Taken from a pictorial viewpoint, the graduates of these schools are nothing less than machines, put into the industrial world for practical production and profit. True, science and industry, working hand in hand have greatly increased the nation's economy. True, man has greatly profited by science, but can't you see the result which will soon defy the very foundations of our government and country. Socialism! Our country is slowly but surely forming a socialistic attitude which will result in a capitalistic society. Here we are expounding upon the evils of socialism and capitalism in Russia, while we ourselves stand by naive of the results to come. The only antidote which can remedy this, is a good liberal education. A fair knowledge of psychology, sociology, history, current events and especially language can alleviate this situation. Communication today is a necessity. Statistically speaking, nine out of ten graduates from a technical college cannot even explain a simple fact or transfer their ideas to someone else.

Now, what does this have to do with MSM? Well, a quick glance at the liberal education offered students in engineering curricula is somewhat discouraging. Radical means must be taken immediately. The necessity for a more liberal education is so great that hesitating on any means of action towards this defect in our education is inconceivable. It's your education. What do you think should be done?

Frank Francies

## ARCHITECTURE AT MSM

I would like to see architecture added to the Missouri School of Mines' curricula. It is a necessary course of study in the world today because of the need for more beautiful, efficient and economical structures. I would like to show the close connection architecture has with the available courses of study at MSM.

A knowledge of Metallurgical Engineering is necessary because of the different metals used in the building of a structure. The architect must bear in mind what metals are the most durable, functional and strong as well as what metals are at his disposal for decorating both the exterior and the interior of a building.

Physics is needed in all branches of engineering. One way an architect must employ physics is when designing a room such as an auditorium. He must be very careful that the reverberation in the auditorium serves the purpose of the room.

Mechanical Engineering is used when considering the year round air conditioning of a particular structure. A knowledge of the durability of certain machines used in making the structure is also needed.

The uses of Math in architecture is beyond the scope of this paper. In all forms of engineering, math is the foundation upon which engineering develops.

Because every building has to have artificial light, heat, refrigeration and certain communications, a strong background in Electrical Engineering is necessary.

An architect also uses Ceramic and Chemical Engineering in his job. Ceramic materials are becoming more and more valuable as building materials as well as objects of decoration. An understanding of Chemical and Ceramic Engineering will give the architect an idea of what materials can be used and how they will behave in their respective applications.

An architect must be part Civil Engineer. He must know the type of land that will support a certain structure so as to make the building functional and beautiful. His Civil Engineering knowledge will tell him what stress a certain structure can withstand.

A strong background in Mining Engineering and Geological Engineering is desired in the architect. He must know how the land can be prepared for construction of a building and what type of foundation is needed so that the building will be durable as well as practical.

I believe because of the close relationship of architecture to the rest of MSM's curricula, that architecture should be added to the existing courses of study now available to the students attending Missouri School of Mines.

Duane V. Thornton

## STANDING ROOM ONLY

During the first few days of freshmen orientation many freshmen, along with myself, were curious as to why we were meeting at the Uptown theatre, instead of meeting at one of the buildings on campus. After a few weeks at the Missouri School of Mines, we soon found that there weren't any buildings large enough to accommodate so many freshmen. The largest auditorium on campus could occupy approximately three hundred students at one time. This seating capacity is less than one-third the capacity which is needed.

Year after year the Military Department has been the sponsor of the annual Military Ball, held at the Student Union. The Student Union, having the largest dancing area on campus, wasn't, and still isn't large enough to take care of all the people who attend this school function. To be more precise, the ones that do go to the dance find that there is standing room only.

The two previously stated conditions can be alleviated with the same remedy, that is, to build a field house. This field house will also help many other problems with seating.

During the first days of June, the Commencement and Public Occasions Committee is always hoping and praying that it won't rain during the graduation exercises, since they are held outside on Jackling Field. If it did rain, the exercises would have to be conducted indoors, and many parents would not be able to see their sons or daughters be graduated. Also pertaining to the Commencement and Public Occasions Committee is the South Central Missouri Science Fair, held on the campus of the Missouri School of Mines. The number of entries in the Science Fair has been increasing each year, and in the future, a larger place will have to be found to accommodate these exhibitors. Again, a field house would cure this problem.

A new field house would also take care of the seating problems at the varsity basketball games and the indoor intramural activities.

These are just a few of the problems that result from inadequate seating facilities at the Missouri School of Mines and Metallurgy that could be alleviated by the construction of a field house. There would be an unlimited number of activities for which this field house could be used, both by the students and the faculty.

David Skitek



## Faculty Feature: Prof. Wolf, Teacher and Actor

A short jaunt across campus, up two flights of stairs and upon entrance of Room 214 of the Metallurgy Building, one will find the first victim of the Faculty Feature series.

For those of you who wish to make this jaunt, we are speaking of Robert V. Wolf.

Mr. Wolf joined the faculty of MSM in 1951. He now holds a Bachelor's and a Master's degree in Mechanical Engineering, both acquired at MSM.

Besides being faculty advisor for Pi Kappa Alpha fraternity and the American Foundrymen's Society, he is a member of national committees in both organizations. Mr. Wolf is also faculty advisor for the IFC and the Blue Key. He is an active member of the American Society of Metals, Gamma Delta, Pi Tau Sigma, Alpha Sigma Mu, Sigma Xi, Sigma Gamma Epsilon and Tau Beta Pi.

Born in St. Louis, his early education was in St. Louis public schools. In 1946 he enrolled at Washington University but transferred to MSM in 1947. Mr. Wolf's first instructorship came when the Metallurgy department needed teachers for foundry labs.

After receiving his B.S. and M.S. and teaching for four years, the U. S. Army evoked his services as an Army Security Agent. Following completion of his Selective Service requirements, he returned to MSM in 1956.

Now in his eleventh year of teaching at MSM, Mr. Wolf is presently associate professor of Metallurgical Engineering. Of the courses he teaches this semester, General Metallurgy, Welding Metallurgy, Metals Casting and Non-Destructive Testing, all reflect his personal interests.

In regard to these professional interests, Mr. Wolf has been employed during summer vacations by such firms as N. R. D. Instrument Company and Design for Tomorrow Inc., both located in St. Louis.

During the summer of 1959 and 1960, he was an instructor for the National Science Foundation summer program for secondary school students held at MSM. The National Science Foundation again captured his interest during the summer of 1961 when Mr. Wolf attended the conference on The Application of Dislocation

Theory at the University of California. This last summer he journeyed to the University of Denver for a conference on Energetics in Metallurgical Phenomena.

Shortly after the Denver conference, Mr. Wolf returned to MSM and was chosen by a campus play group to co-star in the "King of Hearts," which was presented to the public only several weeks ago. Sponsored by the Coterie of Faculty Wives, "King of Hearts" ran for two nights with Mr. Wolf cast as Francis Dignon, a ghost writer for the main character, Larry Larking, a cartoonist, portrayed by Mr. Edward Lorey of the MSM Ceramics Department.

All things being done for the present, the "Faculty Feature" leaves room 214 in the Metallurgy Building, descends two flights of stairs and begins to prepare for the next issue's article.

## Greek News

### Dean Ponder Gives Speech To Delta Sigs

Delta Sigma Phi is proud to announce the initiation of eight new brothers. They are: Allan Haynes, Robert Cox, Micheal Deelo, Daniel Hayes, Martin Seitz, Terry Martin, Thomas Huber, and Rudy Burrell. Brother Bob Cox was selected as Outstanding Pledge for the 1963 spring semester pledge class.

Dean Ponder was the guest speaker at the initiation banquet held at the Houston House in Newburg, Mo. Dean Ponder spoke on what the student today will see "Homecoming 1970." He prophesied that the school will have doubled its enrollment, and the graduate school will have more than tripled. The school will have made major additions in buildings

with the addition of a new library, and chemical engineering and Rolla buildings. Expansion of the M. E., C. E., E. E., and Physics Buildings will have been accomplished. The school will have become a major research center with the possible addition of two new research buildings. It is also very probable that the school will offer a degree in Liberal Arts. These are the changes that the student of today will see "Homecoming 1970."

Delta Sigma Phi is very proud to announce the pinning of Brother Don Barrett to Miss Madeleine Bessitte and Brother Larry Creek to Miss Sue Cooper.

### Beta Sigs Initiate Two

Recently, Beta Sigma Psi initiated two new men into active membership. They are Steve

Latham and Gary Laneman. Steve, a Mechanical Engineering student, hails from Raytown, Missouri, and Gary, a Civil Engineering student, is from St. Louis Missouri.

### MID-SEMESTER GRADE REPORTS

Students who have not yet picked up their mid-semester grade report in the Registrar's Office are requested to do so. It is important that you check this report to make sure it is correct.

**MINER COPY  
MUST BE IN THE  
MINER BOX  
ON MONDAY  
BY 12:00 NOON  
TYPEWRITTEN AND  
DOUBLE SPACED**

## THE BELL TELEPHONE COMPANIES SALUTE: GEORGE PYLAND

Engineering at Southwestern Bell offers many facets for developing talents and abilities. For George Pyland (B.S.M.E., 1958), his present position of District Engineer, Victoria, Texas, makes him responsible for all outside plant engineering in some 25 towns.

This is quite a demanding position for a young man only five years out of college. But for George, this is just another opportunity to prove himself. Throughout his career with the telephone company, he has been given every chance to show his capacity for increased responsibilities.

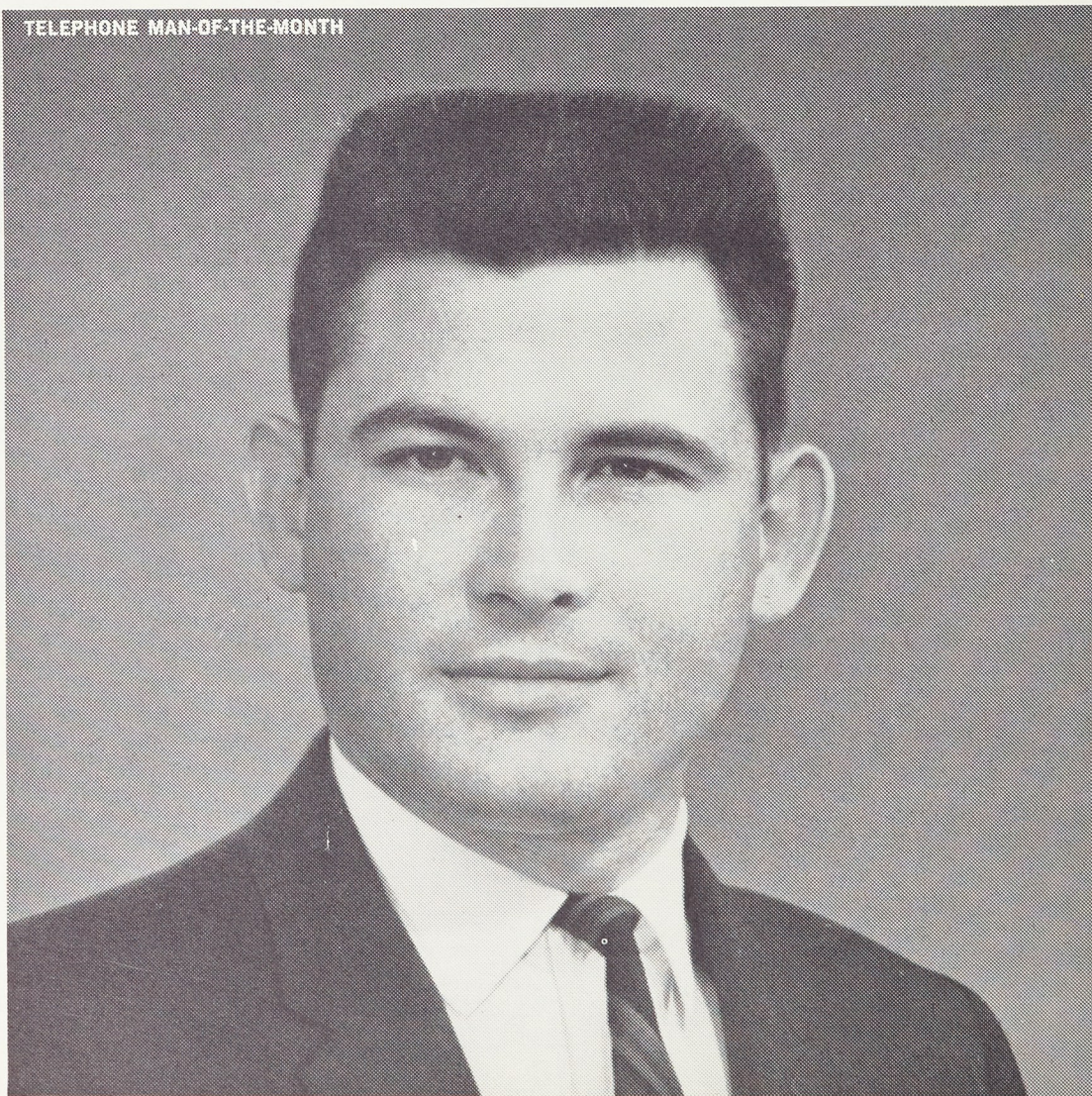
In previous assignments, George has supervised large numbers of employees responsible for maintaining top-quality telephone service. He has supervised outside maintenance and repair personnel as well as coordinating the work functions of central office people. His initiative has paid off in satisfaction and increased compensation.

George Pyland, like many young engineers, is impatient to make things happen for his company and himself. There are few places where such restlessness is more welcomed or rewarded than in the fast-growing telephone business.



### BELL TELEPHONE COMPANIES

#### TELEPHONE MAN-OF-THE-MONTH



**DRIVE  
SAFELY!**

**THE MISSOURI MINER**  
MISSOURI SCHOOL OF MINES AND METALLURGY



THE MISSOURI MINER is the official publication of the students of the Missouri School of Mines and Metallurgy. It is published at Rolla, Mo., every Friday during the school year.

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is from St. L...

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## Graduate Work Necessary For Engineering Jobs

It is the feeling of a growing number of people that four years is no longer enough time to round out any one engineering field. The vast knowledge of engineer-

### SCHOLARSHIPS

(Continued From Page 3)

of whom were also outstanding students.

James M. Carter, son of Mrs. Ella May Carter, 117 West Co-field Aurora, Missouri, is a sophomore in the Department of Electrical Engineering. He entered school on a Curators Award, placed on the Dean's Honor List both semesters he has been in attendance here, and earned a cumulative grade average of 3.60 out of a possible 4.00.

David S. Shimamoto, son of Mr. and Mrs. G. N. Shimamoto, 6042 Tyler Avenue, St. Louis, Missouri is a sophomore in the Department of Chemical Engineering. Shimamoto, whose cumulative grade average is 3.79 of a possible 4.00, has consistently appeared on the Dean's Honor List, received the Professional Military Science Award, the Superior Cadet Award, and became a Pledge of Phi Eta Sigma Honor Fraternity when it was organized last spring.

Graham G. Sutherland III, son of Mr. and Mrs. Graham G. Sutherland II, 34 Jennifer Road, Scotia, New York, is a senior in the Department of Civil Engineering. Sutherland whose cumulative grade average is 3.73 of a possible 4.00, has consistently appeared on the Dean's Honor List, and has been awarded the Phi Kappa Phi Book Plate and the Gold Key Award. He is currently serving as President of Chi Epsilon Honor Fraternity and is also a pledge of Tau Beta Pi and an initiate of Phi Kappa Phi.

is constantly increasing so that there is a great demand for people who know how to file this knowledge. Many companies find they need engineers with more extensive training; companies also find that further knowledge is a necessity and that graduate work is necessary and essential for many jobs.

For these reasons there is a growing trend toward more graduate work. Here at MSM in the last five years the upsurge of graduate students has been very noticeable. Five years ago, there were 184 graduate students; today there are 365 graduate students enrolled. This school has always been principally an undergraduate school, producing over half the engineers graduated by all the colleges of this state. Because of this we have a responsibility of meeting the demands for engineers for this state and its major cities. To do this we must enlarge the class of graduate students.

Dr. Zenor, a professor of mining engineering here at MSM, expresses his views this way. "With the growth of the school's graduate program there must never be reached the point where the undergraduate students are being neglected for the good of the graduate students. We must keep both separate and equal the rights and privileges of each." The professor feels that there is always the danger of MSM becoming noted for its graduate work while its standing as a strong undergraduate school falls. Dr. Zenor feels that we should have two separate administrations for the two student bodies. There is always the possibility that a professor may unconsciously devote more time and energy to the graduate stu-

## Two Scholars Receive Awards From AS&R

Robert J. Kadwell, son of Mr. and Mrs. Edwin J. Kadwell, 59 Exeter Terrace, Hamburg, New York and Richard J. McClincy, son of Mr. and Mrs. LaMont McClincy, 225 Shirley Drive, Florence, Alabama, have been named as recipients of the American

dents rather than equally to both groups.

Proof of this possibility can be seen at M.I.T., which before World War II, had a strong undergraduate program. During the war, M.I.T. was forced to train a lot of its students for graduate work. Today it is noted primarily as an established school of outstanding graduate work.

This precaution must be made: that while gaining new professors to teach graduate work, the undergraduate classes must not be neglected. Only the future can tell what will happen to MSM and its graduate program.

Smelting and Refining Company Scholarship at the Missouri School of Mines and Metallurgy. The Company has established two scholarships at the School based on character, leadership, scholastic attainment and interest in nonferrous metallurgy. Each year one scholarship is presented to a junior or senior majoring in the Department of Mining Engineer-

ing and one scholarship is presented to a junior or senior majoring in the Department of Metallurgical Engineering.

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## CAMPUS INTERVIEWS

TUESDAY, DEC. 10

Appointments should be made  
in advance through your  
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## 59er's Club: the Youngest of The Eating Clubs on Campus

The meal clubs on the MSM campus provide an important part of board facilities at MSM. In today's column, special attention will be placed on the Fifty-niners.

In general the achievements of the clubs are all fairly consistent. They wish to organize the independents into a coordinated group under the ICC. They accommodate the members with meals and an athletic program with which you are all well acquainted — Intramurals.

The Fifty-niners, by some thought to be ten years before their time, are the youngest of the clubs. Having been aided by then Assistant Dean Hubbard, they went into formal operation in 1959, and a few of the charter members can still be found on campus.

Located under the Firestone Store on Tenth Street near Pine,

the 59'ers occupy a large cafeteria which readily accommodates the two hundred and seventy members. The club is always striving to stay with modern ideas. Sanitation is maintained by a tunnel dish washer and a large garbage disposal, and remodeling is now in progress.

The standard of food, despite popular consensus, is ever increasing to not only satisfy the dietary needs, but also the appeal of club members.

Molding together with the other clubs now in progress, and the possibility of another club now becoming brighter, the 59'ers play an integral part in the five purely independent organizations.

## Orientation Headed by Captain Weeks

An orientation program is being conducted between now and pre-registration for the second semester for those students who are not now enrolled but may have an interest in the Army ROTC Advanced Course.

The orientation is directed toward answering the questions in the minds of the students who may be giving thought to the opportunities of the ROTC Program.

Captain Robert E. Weeks, Assistant Professor of Military Science, who is a graduate of the United States Military Academy, has been designated Project Officer.

## Thanksgiving Vesper

On Monday the 25th, the BSU will hold a Thanksgiving Vesper at 6:00 p. m. The Vesper services are open and all are encouraged to attend this special service.

The main activity of the month will be the annual International Banquet. This traditional Thanksgiving meal is sponsored by the BSU. All students are urged to

attend, not only the International students of MSM. The charge for the banquet is 50 cents for American students and is free for International students. It will be held at the First Baptist Church Educational Building, Cedar and Eighth Streets, at 6:30 p. m. November 26th. For more information stop at the BSU.

If you have not indicated that you are planning to attend, today is the last day for reservation.

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## Dr. Anholt Guest Speaker At ASME Meeting

On November 13, the American Society of Mechanical Engineers holds its regular monthly meeting. Dr. Dean Anholt, an electronics technician for Collins Radio Company, was the featured speaker. His program dealt with the problems encountered in the transmission of communications from the United States' "man around the moon" effort, the Apollo Project. He also explained the manner in which Collins, the chief contractor for the communications system in the Apollo vehicle, is attempting to overcome the harmful effects to communications equipment and transmission produced by solar radiation, very high accelerations, extreme temperatures, and other factors not encountered before man broke the "space barrier." The necessity of miniaturization and careful packaging of components in a space vehicle was also explained. After the completion of Dr. Anholt's talk, a question and answer session was held. The meeting was then adjourned to the mechanical engineering laboratory where refreshments were served.

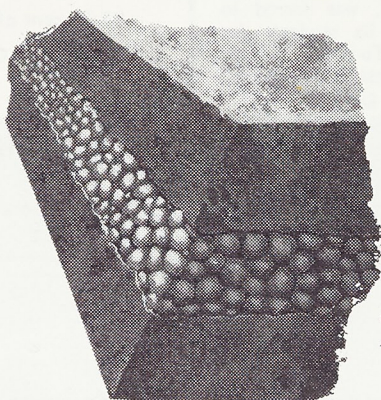
Those interested in applying for membership in ASME should see Dr. Harry Sauer, the faculty adviser to MSM's student section, in Room 203C of the Mechanical Engineering Building, and secure an application blank. All those in the mechanical engineering curriculum are invited to join. Dues are five dollars per year and include admission to all ASME functions, plus a subscription to "Mechanical Engineering", the official publication of the organization.

### NOTICE!

The staff of the MSM Infirmary has notified the Miner that they would appreciate the return of their sign.

## Dowell developments in fracturing help make oil and gas wells more profitable

*Since 1948, when the technique of fracturing wells was introduced, there have been many modifications and refinements. Dowell has been responsible for many of those advancements, including the ones listed here. Dowell's continuing research and development program is directed toward making the service of fracturing even more beneficial.*



Dowell Conductivity Tester helps select amount, size, type of prop.

**FRACTURE CONDUCTIVITY TESTERS:** The Dowell-designed Fracture Conductivity Testers permit direct comparison of different propping agents in a given formation sample. Results of these tests help operators decide what size, type and amount of propping agent to use in formations of different hardness and overburden pressures.

**HIGH-INJECTION-RATE FRACTURING:** Dowell worked with operators in developing this technique to provide better distribution of the propping agent and treating fluid in the pay.

**WIDE RANGE OF FRACTURING FLUIDS:** Initially, fracturing fluids were only gelled light hydrocarbons. Over the years, Dowell has helped broaden the range of fracturing fluids to include refined and lease oils, as used in Sandfrac\*; acid, both dilute as in Duofrac\* and thickened as in Frac Acid; water, as used in Riverfrac\*; acid-oil emulsions as in Acid Petrofrac\* and thickened oil as in Petrojel\* and Petrofrac\*.

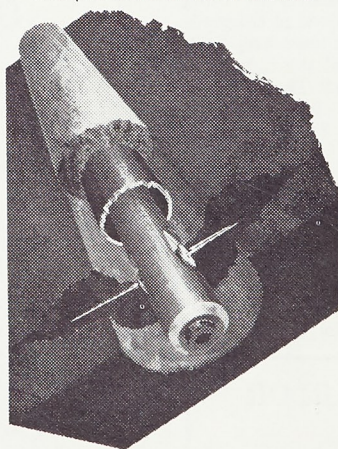
**FRAC GUIDE:** Working closely with leading oil and gas producers, Dowell developed this revolutionary technique

for engineering treatments to yield optimum results. Continually improved, the Frac Guide\* is now programmed on an electronic computer to provide quicker and more accurate treatment designs and predictions of results.

#### ABRASIJET abrasive jetting service:

This Dowell-developed service is used to reduce breakdown pressures and to initiate fractures in the plane and direction desired. The tool used in Abrasijet\* is a modern refinement of an early Dowell development, the Acid Jet Gun.

Abrasijet helps guide fractures into plane and direction desired.



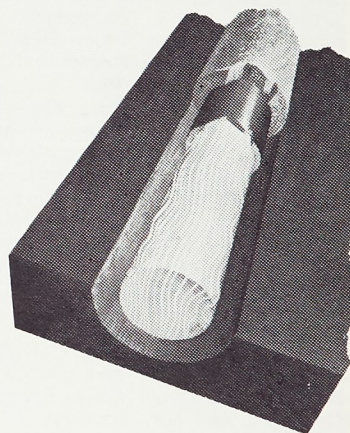
**REMOTE-CONTROLLED PUMPING AND BLENDING EQUIPMENT:** These powerful units, especially suited to high injection rate treatments, were developed by Dowell to provide increased safety and better control of jobs.

**DIVERTING AGENTS:** For the more effective treatment of multiple-zone wells, Dowell has developed a complete line of diverting agents—both fluid and solid. Among these are perforation ball sealers made of plastic, magnesium, nylon cores covered with

rubber, and permeable perforation balls made of walnut shells and plastic.

**FRICTION-REDUCING AGENTS:** Dowell developed and introduced Slick Water and Slick Oil friction-reducing agents for water, oil and acid. These agents help increase injection rates with the same horsepower or achieve the desired injection rate with less pumps.

Slick Water suppresses turbulence, reduces horsepower requirements.



**OTHER CONTRIBUTIONS TOWARD INCREASING EFFICIENCY AND SAFETY OF fracturing** have included the Dowell Frac Header with check valves, Radio Helmets for instant, more precise communication between crew members during treatment, and pressurized suction to improve pump efficiency.

You can be sure that Dowell will continue to use its extensive research facilities and wide field experience to provide the best fracturing services available. Dowell services and products are offered in North and South America, Europe, North Africa and Iran. Dowell, Tulsa 14, Oklahoma.

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# MINER SPORTS

FRIDAY, NOVEMBER 22, 1963 THE MISSOURI MINER PAGE 9

## MIAA Conference Title Taken By Bears, Kirksville Second

By Tom Johnson

The Springfield Bears swept up first place honors with a perfect 5-0 record in the Missouri Intercollegiate Athletic Association. A 13-12 win over Akron University Saturday gives SMS an overall season record of 9 wins and no losses. In second place are the Kirksville Bulldogs with an MIAA record of 4 triumphs and only a single loss.

Missouri School of Mines and the Indians of Cape Girardeau tied for third spot with records of 2-3. There was also a tie for the fourth position, where Warrensburg and Maryville had conference finals of 1-4.

Both the Bears and Kirksville's Bulldogs had 4-0 records going into the final conference duel. In

that game on November 9, Springfield dropped NEMS 15-6 for the championship. Cape beat Maryville 22-19 that same weekend to bring their record to 2-3, the same as the Miners.

Gary Couse finished in a tie for fifth in the individual scoring race. The senior fullback also carried the ball 140 times for a 4.0 yard average during the season. Willard of Springfield led the ground gainers with a 6.3 yard average.

The leading passer in the conference was Pappas of Maryville with 78 completions in 142 attempts for a 54.9 average. Alford and Wheeler, dividing the time at quarterback for the Miners, finished seventh and eighth respec-

tively with averages of 37.5 and 36.7.

Harvey of Maryville led the pass receivers with 24 catches for 226 yards. Welch of MSM was sixth in the conference with 15 catches for 136 yards and Gasparovic was eighth with 14 catches and 137 yards for the Miners.

In completing their perfect conference season, Springfield allowed only 22 points to its opposition while scoring 190 points. The Miners gave up 118 points while scoring only 43. Gary Couse scored more than half of the Miners' points in conference play.

The top team in the MIAA, Springfield, is being considered as an opponent for Northern Illinois in the Mineral Bowl.

MIAA CONFERENCE FINALS					
	W	L	Pct.	Pts.	Op. Pts.
Springfield	5	0	1000	190	22
Kirksville	4	1	800	138	22
MINERS	2	3	400	43	118
Cape	2	3	400	93	98
Warrensburg	1	4	200	26	171
Maryville	1	4	200	60	181

## INTRAMURAL POINT TOTALS

Team	Points
Acacia	279.0
Baptist Student Union	165.5
Beta Sigma Psi	369.25
Theta Chi	170.25
Delta Sig	207.75
Engineers	337.50
Kappa Alpha	283.50
Kappa Sigma	481.50
Lambda Chi	451.50
59'ers	335.0
MRHA	346.0
Phi Kappa Theta	297.0
Pi Kappa Alpha	385.2
Prospectors	330.5
Shamrock	162.0
Sigma Nu	532.0
Sigma Phi Epsilon	341.0
Sigma Pi	266.25
Sigma Tau Gamma	351.75
Tau Kappa Epsilon	352.5
Tech Club	457.25
Theta Xi	155.75
Triangle	401.0
Wesley	205.5
Army Assn.	52.25
Int. Fellowship	78.0

## Lambda Chi Wins Swim, Sigma Nu Holds Point Lead

Lambda Chi Alpha swam away to the intramural swimming championship last week, totaling 29 points. The MRHA was second to Lambda Chi with 17 points, and Pi Kappa Alpha took third with 14.

Four new records were set in this year's meet, and the athletic department comments that this turned out to be one of the best in years. The team of Houch, Garrett, and Jones of Lambda Chi, took the 120 yard medley relay with a time of 1:07.9. Jones also swam the 60 yard freestyle in 30.8 seconds. Krueger brought in the 60 yard backstroke for Sigma Nu, with a time of 34.5 seconds.

Lambda Chi set the remaining record in the 160 yard freestyle relay. The team of Garrett, Jones, Paul, and Thomas swam the circuit in 1:24.2.

The 120 yard freestyle was won by Virtue of the MRHA. His time was 1:18.1. The Men's Residence Hall Association also took the 60 yard individual as Nuss swam it in 35.7 seconds. An Independent won the 60 yard breaststroke. Perajategy did it in 42.3 seconds, but no points were given for this event.

Reggie Nations, a pledge at Pi Kappa Alpha came away with top honors in the diving competition. Nations scored 68.9 and 86.6 in the preliminaries to total 155.5 for a final score. Killoran of Kappa Sig took second with 107.2.

For first place, Lambda Chi receives 130 intramural points and the MRHA gets 125 for second. Pi K A received 120 for third, and the Tech Club 115 for fourth.

Sigma Nu remains in the top position in the intramural point standings, and Kappa Sig is in second. The Tech Club is in third place, and Lambda Chi is running a close fourth.

Intramural basketball is well underway, but at this time it is impossible to be able to distinguish a leading team. Handball practice is in full swing and the teams and individuals are shaping up into tough competition.

## SIDELINES

By Bruce T. Gregg

This year's intramural basketball season is now off to a good start. The teams are keyed up to win and when the time comes they will play their best to bring home a victory. The fans have stepped in to watch the results, voice loudly their opinion, and analyze their team standings. And then too, the referees have reviewed their positions in order to do the best job possible. With these three major opponents in readiness the season is bound to be interesting and worthwhile.

MSM is in the unfortunate situation of not having adequate facilities in which the intramural teams can practice. Not only do the some 24 intramural teams require the use of the gym for practice time but also our varsity team needs practice facilities. Therefore the practice time is divided up as fair as possible in order to make available to each intramural team an equal amount of time for the use of the gym. Then too, adequate scoring facilities are not made available to intramural games.

One thing that is often not realized by the individual team fans is the fact that team support can often win a ballgame. When the players on the court begin to hear the constant chant of their supporters they gain an intangible item which really puts them on the move. True, most teams have their fans on the sidelines, but on the part of the spectators vocal support is one thing and real enthusiasm and constant urging is another.

There will be some well fought games this season and the victor will surely have to work. So let's get out there in the stands and cheer our teams on to victory.

## Athletic Director Asks For Student Cooperation

All eyes are upon you as you stand at the foul line, poised for a shot which could decide the game. Perspiration streams down your face and the din of the crowd increases with a shattering crescendo. You grip the ball with tension-filled hands and finally let it fly in a high, towering arc. As the noise reaches its maximum, the orange orb plummets toward the metal loop with deadly accuracy--only to be deflected away by the hot breath of the screaming spectators! ! !

Ridiculous? Certainly it is, but anyone who has ever attended an MSM varsity basketball contest staged in Jackling Gymnasium can readily sympathize with the squads, officials, and coaching staffs.

Many students do not stop to realize the difficulties encountered in playing on the MSM court. Visiting teams do, and as a result, the Athletic Department is having trouble scheduling these teams to visit MSM. The officials are somewhat accustomed to the Miners and their seemingly amplified remarks, but it must be remembered that they have the privilege of fooling the crowd.

Jackling Gym is a hard place for spectators to enjoy a game. True, it is in dire need of more floor space and increased seating facilities. But the big problem facing us now is spectator attitudes and noise.

Basketball fans are essentially the same at all schools. They cheer, coach, and even officiate in rather loud and definite tones. This is to be expected at any athletic event. Here at Missouri School of Mines, the fans are no different, but the gymnasium is!

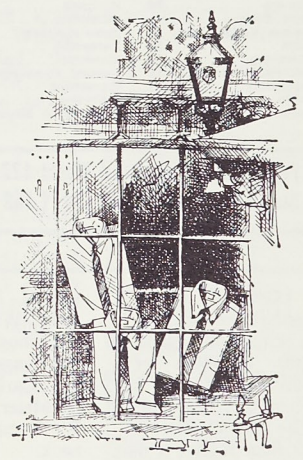
In the spacious field houses of other colleges, the sounds are greatly reduced by the size of the enclosure. Jackling Gym's extremely small area concentrates the noise to a point that is very distracting to the coaches, officials, and players.

The Athletic Director is asking for the cooperation of the students in this important matter. He offers the following rules of good sportsmanship as a guide:

1. Hold cheering to a minimum during free throws. It is only common courtesy to be fairly quiet when a player, either Miner or opponent, is attempting a charity toss.
2. Respect the officials decisions. They are having enough difficulties as it is and are certainly not going to change their decisions.
3. Refrain from sitting on the floor at either end of the court. If this practice persists, the gate will have to be closed when the maximum capacity is reached.
4. Above all, use common sense before you cheer or jeer. Remember that the acoustics are very good in Jackling Gym.

Any cooperation will be appreciated. Just remember to support the Silver and Gold in the best school spirit.

MINERS  
vs.  
EVANGEL  
MONDAY  
DEC. 2



## WHY WE CARRY GANT

There's more than fabric superiority in Gant. In addition, "needled-into the warp and woof of every Gant shirt" — there's flair-fit show — three vital ingredients that make all the difference when a man wears a Gant.

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# The Harmon Football Forecast

## TOP 20 TEAMS

\*(based on power quotient ratings, not on games won and lost)\*

1 - MISSISSIPPI	6 - OKLAHOMA	11 - AUBURN	16 - WISCONSIN
2 - TEXAS	7 - ILLINOIS	12 - SYRACUSE	17 - L. S. U.
3 - MICHIGAN STATE	8 - PITTSBURGH	13 - SOUTHERN CAL.	18 - KANSAS
4 - ALABAMA	9 - NEBRASKA	14 - GEORGIA TECH	19 - MISSOURI
5 - NAVY	10 - MISS. STATE	15 - PENN STATE	20 - WASHINGTON

### Friday, November 22

California Western	23	Hawaii	13
Claremont-Mudd	20	California Tech	6
North Carolina State	28	Wake Forest	0
San Jose State	31	Pacific College	6

### Saturday, Nov. 23 — Major Colleges

Air Force	25	Colorado	0
Arizona	16	New Mexico	7
Arizona State	21	Idaho	12
Arkansas	23	Texas Tech	7
Auburn	14	Florida State	8
Baylor	17	S. M. U.	13
Boston College	30	Colorado State U.	13
Brigham Young	15	Colgate	7
Brown	20	Stanford	15
California	21	Miami, Ohio	8
Cincinnati	17	South Carolina	7
Clemson	25	Kent State	14
Dayton	15	Toledo	15
Detroit	18	Miami, Fla.	14
Florida	19	Arlington	7
Hardin-Simmons	18	Yale	8
Harvard	12	Connecticut	8
Holy Cross	17	Louisville	7
Houston	30	Notre Dame	14
Iowa	21	Drake	0
Iowa State	29	Missouri	14
Kansas	17	Tulane	0
L. S. U.	20	Virginia	13
Maryland	21	Ohio State	14
Michigan	15	Illinois	10
Michigan State	14	Duke	20
North Carolina	25	Southern Illinois	7
North Texas	17	Marshall	6
Ohio U.	14	Nebraska	10
Oklahoma	13	Kansas State	13
Oklahoma State	20	Oregon State	20
Oregon	22	Penn State	9
Pittsburgh	17	Dartmouth	13
Princeton	21	Purdue	21
Purdue	21	Indiana	20
Rice	13	T. C. U.	9
Rutgers	20	Columbia	17
Southern California	32	U. C. L. A.	14
Southern Mississippi	20	The Citadel	0
Tennessee	20	Kentucky	17
Texas State	17	Utah	13
Vanderbilt	14	George Washington	7
Washington	28	Washington State	13
West Virginia	21	Furman	8
Wichita	26	Idaho State	0
Wisconsin	22	Minnesota	14
Wyoming	21	Texas Western	6
Xavier	10	Bowling Green	7

### East (small colleges)

Delaware	30	Bucknell	7
Drexel Tech	21	Dickinson	20
Lebanon Valley	20	Lebanon Military	17
Lafayette	23	Lafayette	13
Muhlenberg	13	Moravian	0
Southern Connecticut	19	Central Connecticut	0
Swarthmore	21	Haverford	0
Temple	26	Gettysburg	13
Ursinus	20	Franklin & Marshall	13

### South (small colleges)

Arkansas State	23	Trinity, Texas	13
East Carolina	25	Tampa	7
E. Central Oklahoma	21	Delta State	20
East Tennessee	15	Appalachian	12
Emory & Henry	24	Gulfport	0
Louisiana Tech	21	NE Louisiana	9
Martin (U. of Tenn.)	21	Austin Peay	18
McMurry	19	Louisiana College	14
McNeese	28	SW Louisiana	0
Northwest Oklahoma	20	Southeast Missouri	7
S. F. Austin	21	East Texas	17
Sam Houston	20	Lamar Tech	15
SE Louisiana	14	NW Louisiana	8
Southwest Texas	25	Texas A & I	20
Sul Ross	14	Howard Payne	6
Washington, Mo.	25	Washington & Lee	13
Western Kentucky	21	Murray	7
Western Maryland	38	Johns Hopkins	0
Wofford	12	Davidson	7
Youngstown	19	Eastern Kentucky	14

### Far West (small colleges)

Ablene Christian	27	Fresno State	7
Eastern New Mexico	18	Central Oklahoma	14
Long Beach	19	Cal Poly (S. L. O.)	7
Los Angeles	34	San Fernando	0
Occidental	15	Pomona	12
San Diego State	26	San Francisco	7
Whittier	27	Redlands	0

### Thanksgiving Day — November 28

Cornell	20	Pennsylvania	7
Hardin-Simmons	23	Howard Payne	7
Henderson State	14	Ouachita	13
Hofstra	18	C. W. Post	13
Humboldt State	24	Cal Poly (S. L. O.)	6
Lenoir-Rhyne	21	Catawba	20
Middle Tennessee	20	Tennessee Tech	14
Newberry	14	Presbyterian	13
Richmond	18	William & Mary	15
Southern Mississippi	21	Chattanooga	7
Syracuse	21	Notre Dame	8
Texas	24	Texas A & M	7
V. P. I.	19	V. M. I.	7

### Saturday, November 30

Alabama	14	Auburn	9
Arizona	22	Arizona State	21
Baylor	16	Rice	6
Boylston College	24	Holy Cross	6
Florida State	9	Florida	7
Georgia Tech	21	Georgia	9
King's Point	21	Penn Military	6
Memphis State	20	Houston	14
Mississippi	14	Mississippi State	10
Navy	24	Brigham Young	7
New Mexico	24	Oklahoma State	0
Oklahoma	23	Miami, Fla.	8
Pittsburgh	21	T. C. U.	13
S. M. U.	14	Vanderbilt	0
Tennessee	13	Texas Western	13
West Texas	21	Tulsa	16
Wichita	20		

### Friday, December 6

Pacific College	31	Hawaii	6
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### Saturday, December 7

Alabama	17	Miami, Fla.	0
Tulsa	22	Louisville	7

Forecasting Average Last Week: 122 right, 40 wrong, 4 ties .753  
Season's Forecasting Average: 1,168 right, 373 wrong .758

### LOANS

(Continued From Page 1)

two separate schools in regards to loan allotment, therefore terminating the division of this fund which had previously been carried on between the two schools.

A borrower may receive a maximum of \$1,000 per school year, and the maximum total for each borrower may not exceed \$5,000. Awards are based on scholarship and financial needs.

### ROTC AWARDS

(Continued From Page 1)

Wienecke, Associate Professor of Military Science, presented the Distinguished Military Student and Professor of Military Science Awards.

The Seniors designated Distinguished Military Students were: Olin K. Conley, William A. Crede, Paul P. Demay, Bernard C. Ebert, Jr., William P. Falke, Floyd A. Gonzalez, William O. Haag, Alan S. Harper, Richard P. Laird, Gary A. Lohmann, Charles G. Lyons, Robert L. Newsom, William J. Price, Richard E. Roberts, Leonard W. Roth, Ronald A. Rusch, Arlen R. Schade, Gary D. Schellman, Ken J. Schwieger, Robert M. Sommerkamp, Graham G. Sutherland, III, and Clarence P. Wagner.

Sophomores receiving Profes-

sor of Military Science Awards were: William R. Taylor, Ronald H. Kinoshito, James Moss, Ronald E. Evans, William E. Anderson, Jr., Carl J. Tegtmeyer, Thomas O. Meier, George T. Estill, James W. Cumper, and John L. Schoeneck.

Cadets at MSM who received

Professor of Military Science Awards were: Robert G. Alexander, Richard L. Bock, Jerre B. Borowitz, John A. Gerber, Jr., Leslie G. Harmon, Dennis C. Hillman, Terril L. Jennings, Edward A. Roemer, J. Q. Sims, John D. Welsh, Gary N. Wolz, and Gordon Wright.

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## Mississippi and Texas To Close Out With Wins

In the top spot in the nation for the third straight week, Mississippi will win the championship of the Southeast Conference on November 30th. However, they won't walk into it. The Bulldogs of Mississippi State, ranked 10th, will be waiting at the back door for the Rebels in this one. The pick is Mississippi... but the 7-point spread is strictly on paper.

The second-ranked Texas Longhorns will close out an undefeated season on Thanksgiving Day with a 17-point win over Texas A & M. They've already won the conference championship.

Michigan State, Number 3, will nip Illinois, Number 7, in the Big Ten "Big" one. The Spartans will win by four to wrap up both the conference title and the Rose Bowl trip.

The Atlantic Coast Conference will have co-champions. North Carolina State, strong 28-point favorite over Wake Forest, is certain to be one of them. The other should be North Carolina after a five point win over Duke.

Ivy League champion: Princeton. The Dartmouth Indians are eight point underdogs in the final game of the season for both teams this Saturday.

On the West Coast, 20th-ranked Washington will whip Washington State by 15 points to top the Big Six Conference and move in as host in the Ross Bowl on January 1st.

### 1963-64 VARSITY BASKETBALL SCHEDULE

Monday, December 2	Evangel College	Rolla
Wednesday, December 4	Washington University	St. Louis
Saturday, December 7	Principia College	Elsah, Ill.
Thursday, December 12	John Brown University	Rolla
Saturday, December 14	Harris Teachers College	Rolla
December 19, 20, 21	MIAA Christmas Tourney ..	Springfield
Monday, January 6	NEMS, Kirksville	Rolla
Friday, January 10	Southern Illinois U. ....	Carbondale, Ill.
Monday, January 13	CMS, Warrensburg	Rolla
Thursday, January 16	Southern Illinois U.	Rolla
Saturday, January 18	SEMS, Cape Girardeau	Cape Girardeau
Monday, January 27	NWMS, Maryville	Maryville
Tuesday, January 28	NEMS, Kirksville	Kirksville
Saturday, February 1	NWMS, Maryville	Rolla
Wednesday, February 5	Harris Teachers College	St. Louis
Saturday, February 8	SWMS, Springfield	Springfield
Tuesday, February 11	Evangel College	Springfield
Saturday, February 15	CMS, Warrensburg	Warrensburg
Monday, February 17	SWMS, Springfield	Springfield
Wednesday, February 19	Principia College	Rolla
Saturday, February 22	SEMS, Cape Girardeau	Rolla

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